Colper
Laboratory Equipment

Colper (Pvt) Ltd

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About Us

At Colper laboratory equipment we provide wide range of lab equipment and consumables in biology, chemistry and physics for schools, universities, colleges, educational institutions and labs.
We also provide astronomical equipment and laboratory chemicals.
Our aim is to provide the best and the most innovative science products for students, teachers, parents and lab technicians.
We stock every thing from lab chemicals to lab glass, plastic and porcelain ware, Human biological and relief models, general apparatuses, demonstrating sets, measuring meters, electric,electro magnetic devices, telescopes, microscopes, binoculars and more

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INDEX

002-034 Biological

035-083 Microscope

084-123 Measuring Apparatus

124-142 Dynamics

143-163 Electrics

164-175 Electromagnetics

176-194 Optics

195-197 Energy Conversion

198-199 Advanced Physics

200-223 Chemistry

224-229 Plastic Disposables

230-236 Medical Equipment

237-240 Wave

241-243 Calorifics

244-248 Geography

249-252 Educational Toys

253-266 Tools

266-268 Telescope

269-334 Laboratory Apparatus



Human Skeleton

Art No: MH00001

170cm High, Made of High Quality PVC and with a Specific Processing, Looks Very Realistic..



Human Skeleton

Art No: MH00002

170cm High, Made of High Quality PVC and with a Specific Processing, Looks Very Realistic. Muscles Marked.



Human Skeleton

Art No: MH00003

Human Skeleton with Joint Ligaments and Muscles. 170cm High



Human Skeleton

Art No: MH00004

Good Quality,with Vertebral Arteries and Spinal Nerves. Popular One. 170cm High



Human Skeleton

Art No: MH00005

170cm High, Good quality, Lowest Price, Popular One.



Human Skeleton

Art No: MH00006

85cm High with Nerves, Blood Vessels and Heart



Human Skeleton

Art No: MH00007

85cm High, Triangle Plastic Base



Human Skeleton

Art No: MH00008

85cm High



Human Skeleton

Art No: MH00009

85cm High, Very Good Quality Hanging Type



Human Skull

Art No: MH01001
Size: Life Size
3 Teeth Removable



Human Skull

Art No: MH01002
Size: Life Size
Art No: MH01002-B
Size: Life Size, Numbered



Human Skull

Art No: MH01003
Size: Life Size, Muscle Marked



Human Skull

Art No: MH01004
Size: Life Size, Colored



Human Skull

Art No: MH01005
Size: Life Size, Colored



Human Skull

Art No: MH01006
Size: Life Size with 8 Parts Brain



Human Skull

Art No: MH01007
Size: Life Size with Cervical Spine



Human Skull

Art No: MH01008
Size: Life Size with Blood Vessel and Nerves



Human Skull

Art No: Mh01009
Separated, 26 Parts



Knee Joint

Art No: MH01014
Size: 1/2 Life Size



Human Elbow Joint

Art No: MH01015
Size:1/2 Life Size



Pathological Model of Knee Joint with Card

Art No: MH01017



Human Hip Joint

Art No: MH01018
Size: Life Size



Shoulder Model

Art No: MH01019
Size:1/2 Life Size



Shoulder Model

Art No: MH01020
Size: Life Size



Human Hip Joint

Art No: MH01021
Size: 12x12x16cm,1/2 life size



Knee Joint Model

Art No: MH01022
Size: 1/2 life size



Knee Joint Model

Art No: MH01023
Size: Life size. On a base.



Hand Joint

Art No: MH01024
Size: Life Size with Ligaments



Hand Joint

Art No: MH01024-B
Size: Life Size without Ligaments



Foot Joint

Art No: MH01025
Size: Life Size with Ligaments



Foot Joint

Art No: MH01025-B
Size: Life Size without Ligaments



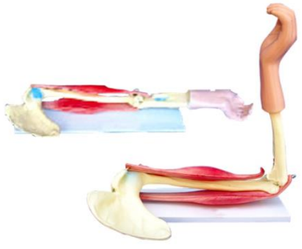
Muscles of Hand with Main Vessels and Nerves

Art No: MH01026
Shows the network of blood vessels and nerves, ligamentous apparatus
Size: 225x135x55mm, 5 parts



Muscles of Foot with Main Vessels and Nerves

Art No: MH01026-B
Shows the network of blood vessels and nerves, ligamentous apparatus
Size: 200x90x330mm, 9 parts



Functional Elbow Joint

Art. No: MH01027
Size: Life Size



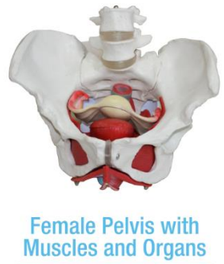
Functional Model of Knee Joint

Art. No: MH01028
Size: Life Size



Bone Tissue Model

Art No: MH01030
Size: 53x38x10cm
Shows compact and cancellous bone



Female Pelvis with Muscles and Organs

Art No: MH01031
Size: Life size



Human Pelvis Model

Art. No: MH01032
Size: Life Size, Female
Art. No: MH01032-B
Size: Life Size, Male



Pathological Model of Vertebrae with Card

Art No: MH01033



Inter-Vertebra Disc with Pathologic Symptom

Art No: MH01034
Size:11x11x14cm, 2 Vertebrae



Inter-Vertebra Disc with Pathologic Symptom

Art No: MH01035
Size: Life size, 3 Vertebrae



Lumber Vertebra Model

Art No: MH01036
Size: 12x12x20cm, 4 Vertebrae



Lumbar Vertebra, Sacrum Bone with Spinal Nerves

Art No: MH01038
Size: 12x12x36cm



Model of Occipital

Art No: MH01039
Size: Life size
Model of Occipital, Cervical Vertebrae and Vertebral Artery, Spinal Nerves with Brainstem



Model of Osteoporosis, 3 Bones

Art No: MH01040
Size: Life size



Model of Osteoporosis, 4 Bones

Art No: MH01041
Size: Life size



Model of Osteoporosis, 3 Parts

Art No: MH01042



Classic Flexible Spinal Column

Art. No: MH01043
Size: Life Size



Flexible Spinal Column,Colored

Art No: MH01044
Size: Life Size



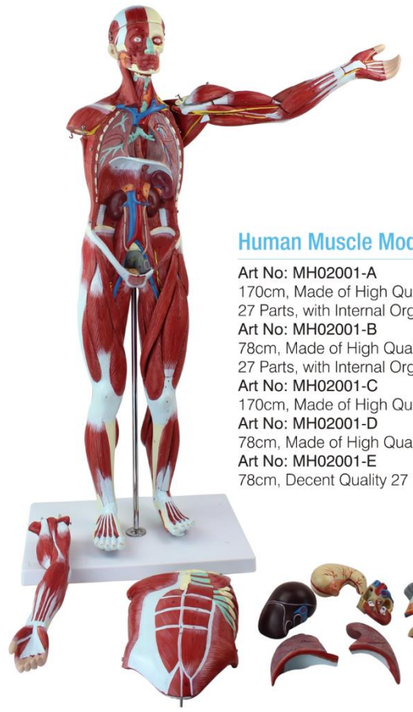
Classic Flexible Spinal Column with Femur

Art No: MH01045
Size: Life Size



Flexible Spinal Column with Femur, Muscle Marked

Art No: MH01046
Size:Life Size



Human Muscle Model

Art No: MH02001-A
170cm, Made of High Quality PVC, 27 Parts, with Internal Organs
Art No: MH02001-B
78cm, Made of High Quality PVC, 27 Parts, with Internal Organs
Art No: MH02001-C
170cm, Made of High Quality PVC, 18 Parts
Art No: MH02001-D
78cm, Made of High Quality PVC, 18 Parts
Art No: MH02001-E
78cm, Decent Quality 27 Parts



Gradational Dissection of Human Upper Limb

Art No: MH02002
Size: Natural 200x130x760mm



Gradational Dissection of Human Lower Limb

Art No: MH02003
Size: Natural 170x170x1100mm



Human Muscle Figure

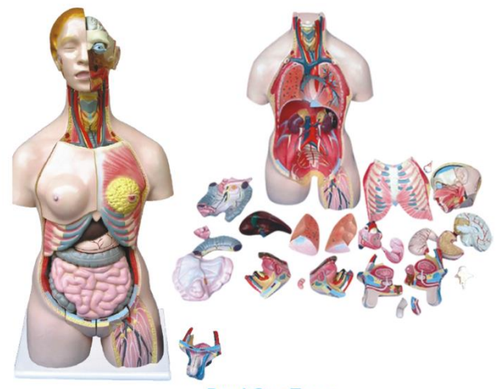
Art No: MH02004
Size: 45cm high



Dual Sex Torso

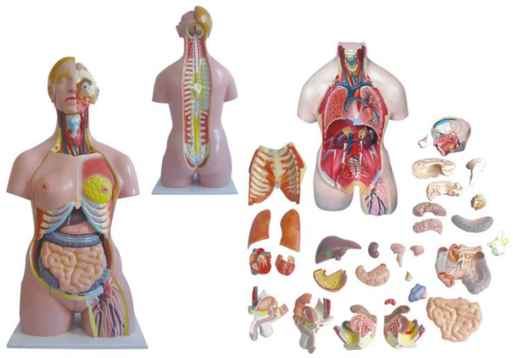
Art No: MH02005
Dual Sex Torso, 24 Parts
Size: 39x26x85cm





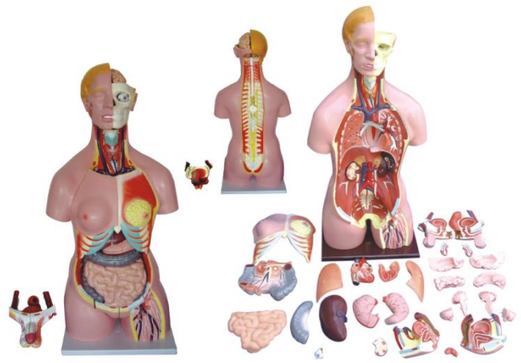
Dual Sex Torso

Art No: MH02006
Dual Sex Torso, 24 Parts
Size: 37x23x86cm



Dual Sex Torso

Art No: MH02007
Dual Sex Torso, 28 Parts
Size: 37x23x86cm



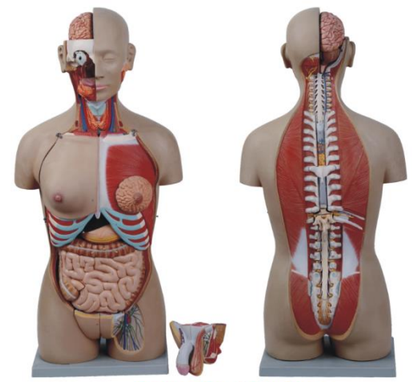
Dual Sex Torso

Art No: MH02008
Dual Sex Torso, 32 Parts
Size: 37x23x86cm



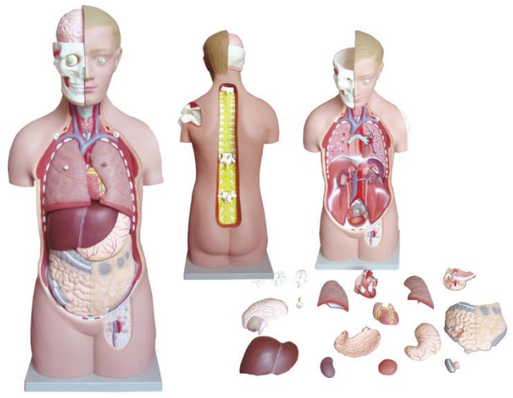
Classic Unisex Torso

Art No: MH02015
85cm high, 17 parts



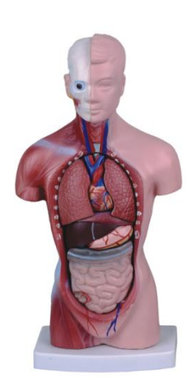
Deluxe Dual Sex Torso

Art No: MH02016
85cm high, 28 parts



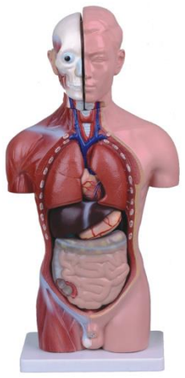
Classic Unisex Torso

Art No: MH02009
Classic Unisex Torso, 17 Parts
Size:42x25x90cm



Human Unisex Torso

Art No: MH02010
26cm high, 15 parts



Human Male Torso

Art No: MH02011
42cm high, 13 parts



Dual Sex Torso

85cm high,good quality, low price, most popular.
Art No: MH02017.01, 23 parts.
Art No: MH02017.02, 40 parts.



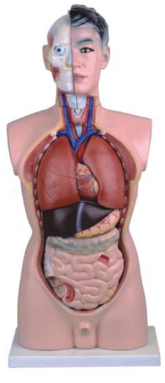
Muscular Torso Dual-Sex Open Back (28 parts)

Art No: MH02018
The following parts can be removed:
●Brain cerebellum ●Eye ●4 parts lungs ●Esophagus
●Trachea ●Liver gall bladder ●2 parts stomach
●Pancreas and spleen ●Renal cover ● 4 Parts male genital organs Appendix cover ● 3 parts female genital organs with 8 weeks of fetal
● 2 parts intestine small and colon ● Torso ● Thoracic
● 2 Parts Breast cover(with ribs and breasts) ● Dimension: 900x400x275(mm)



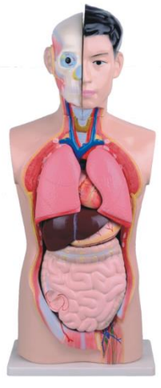
Human Unisex Torso

Art No: MH02012
42cm high, 18 parts



Human Male Torso

Art No: MH02013
85cm high, 19 parts



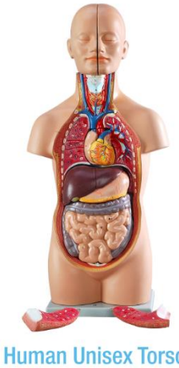
Human Unisex Torso

Art No: MH02014
85cm high, 12 parts



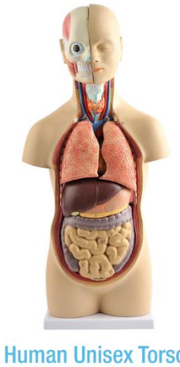
Human Unisex Torso

Art No: MH02019
85cm high, 18 parts, back open



Human Unisex Torso

Art No: MH02020
50cm high, 12 parts



Human Unisex Torso

Art No: MH02021
50cm high, 12 parts with head dissection



Human Brain with Arteries

Art No: MH03001
Size: 17x14x15cm, 8 parts



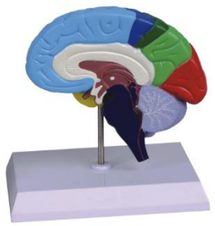
Human Brain

Art No: MH03002
Dissectable into 3 parts
Size: 17x14x15cm



Deluxe Human Brain with Arteries

Art No: MH03003
Life size, 9 parts



Human Brain, Half

Art No: MH03004.01
Size: 17x15x15cm



Human Brain, Half

Art No: MH03004.02
Size: 17x15x15cm



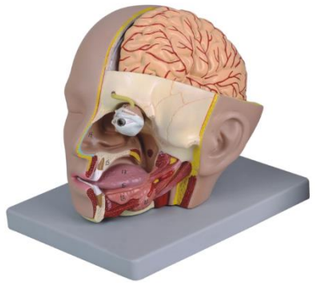
Human Brain, Half

Art No: MH03005
Size: 17x15x15cm



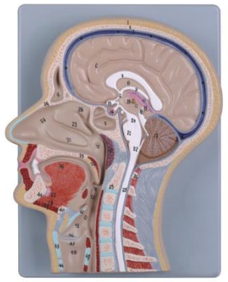
Advanced Human Brain

Art No: MH03007
Size: 1/2 Life size



Human Head with Brain

Art No: MH03008
Size: Life size



Median and Frontal Section of the Head

Art No: MH03009
Size: 20x27x7cm





Human Brain with Different Functional Areas

Art No: MH03010
Life size, 2 parts





Half Head Model

Art No: MH03011
Life size with nerves and blood vessels, numbered



Dissection Model of Head with Brain

Art No: MH03012
Life size, 11 parts



Dissection Model of Head with Brain

Art No: MH03013
Life size, 9 parts



Human Eye Model

Art No: MH04001
Size: 285x380x225mm



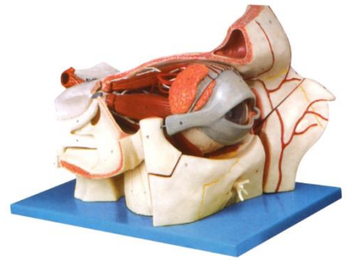
Eye in Orbit

Art No: MH04002
Size: 190x200x280mm, 8 parts



Human Eye Model

Art No: MH04003
Size: 180x180x180mm



Eye Ball and Orbit with Vessels and Nerves

Art No: MH04004
Size: 280x320x415mm, 9 parts



Human Eye Model

Art No: MH04005
Size: 2 times life size



Human Eye Model

Art No: MH04006
Eye Model with Pathological Cornea. with Card



Cataracts Model

Art No: MH04007
Cataracts Model, with card



Human Eye Model

Art No: MH04008
6 times enlarged, 6 parts



Human Eye Model

Art No: MH04009
6 times enlarged, 6 parts



Human Eye Model

Art No: MH04010
3 times enlarged, 6 parts



Human Eye Model

Art No: MH04011
Size: 5 times of life size,
210x130x150mm, 2 parts



Dissection Model of Eyepit and Periocular

Art No: MH04012
Size: 300x280x230mm



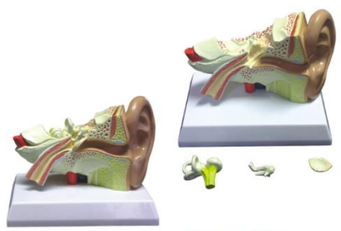
Eyeball Imaging Demonstrator

Art No: MH04014



Human Ear

Art No: MH05001
Size: 360x150x220mm



Human Ear

Art No: MH05002
Size: 120x60x90mm



Human Ear

Art No: MH05003
Size: 360x150x220mm



Human Ear

Art No: MH05004
Size: 360x150x220mm



Human Ear

Art No: MH05005
Size: 360x150x220mm



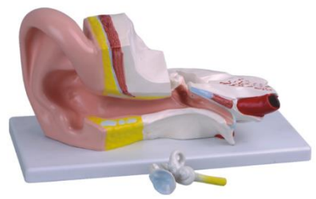
Human Ear

Art No: MH05006
Natural Size



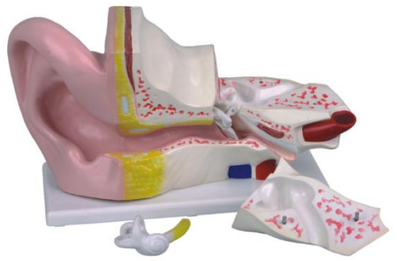
Human Ear

Size: 165x128x160mm
Art No: MH05007.01 without card
Art No: MH05007.02 with card



Human Ear

Art No: MH05008
2 parts,3 times enlarged
Size: 320x160x110mm



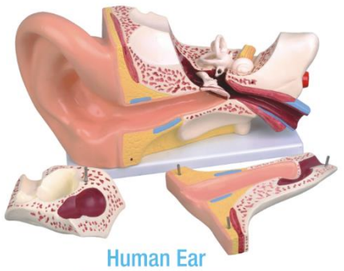
Human Ear

Art No: MH05009
4 parts, 5 times enlarged
Size: 430x250x150mm



Desktop Human Ear

Art No: MH05010
Size: 1.5 times enlarged



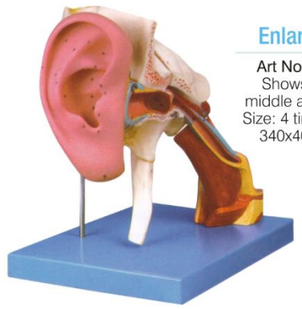
Human Ear

Art No: MH05011
6 parts, 5 times enlarged
Size: 430x250x150mm



Human Ear

Art No: MH05012
3 times enlarged, 3 parts,
Size: 180x230x330mm
High quality, most popular



Enlarged Ear

Art No:MH05013
Shows external, middle and inner ear
Size: 4 times life size,
340x400x225mm



Deciduous Teeth Model

Art No: MH06002
Size: 110x90x90mm



Permanent Teeth Model

Art No: MH06002-B
Size: 130x110x110mm



Model of Teeth

Art No: MH06003
Model of Maxillary 3 Roots Caries
2 parts



Enlarged Model of Tooth

Art No: MH06004
Size: 280x130x140mm, 2 parts



Anatomy of Enlarged Teeth

Art No: MH06005
Set of 3
Canine, Incisor, Molar, 12 times



Lower Jaw

Art No: MH06006
Size: 350x21x80mm, 3 parts



Tooth Common Disease

Art No: MH06007
Size: 8x8x18cm



Teeth Care Model

Art No: MH06008
Size: 16x13x11cm



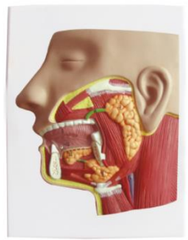
Teeth Care Model

Art No: MH06010
Size: 16x13x11cm, without board



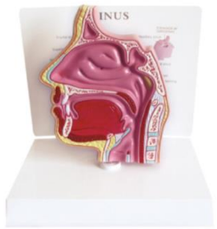
Nasal Cavity

Art No: MH06011
Nasal cavity, natural size, 1 part
This life size model shows a section of the nasal cavity.
Mounted on base with stand.



Model of Salicary Glands

Art No: MH06013



Dissection Model of Nasal Cavity

Art No: MH06014



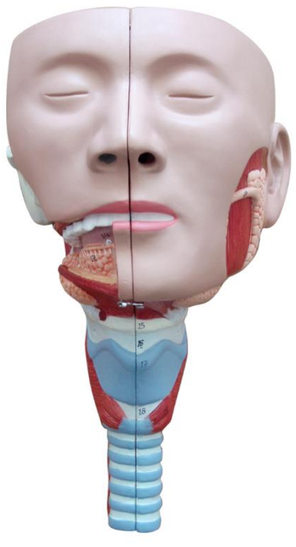
Nasal Cavity

Art No: MH06015
Nasal cavity, oral cavity, throat, pharynx



Dissection Model of Nasal Cavity

Art No: MH06016
Size: Life size



Head with Pharynx Muscles

Art No: MH06019
Size: 150x150x300mm



Mouth, Nose, Pharynx and Larynx with Vessels and Nerves

Art No: MH06017
Shows the interior parts of the cavity of mouth and pharynx with network of vessels and trigeminal nerve.
Size: Life size, 210x35x135mm



Human Larynx

Art No: MH06020
2.5 times enlarged, 5 parts.
Size: 8x8x20cm



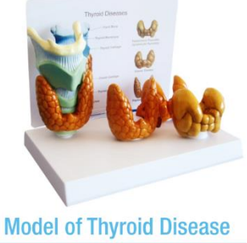
Model of Thyroid Disease

Art No: MH06021
4 Parts
Size: 265x265x90mm



Nerves and Vessels in Facial Skull

Art No: MH06018
Shows the muscles, nerves, vessels, trigeminal nerve and facial nerve
Size: Life size, 210x320x190mm



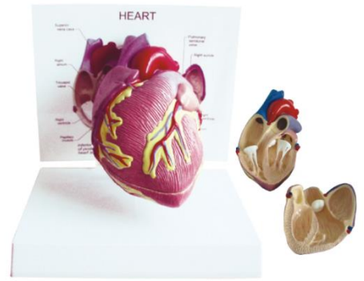
Model of Thyroid Disease

Art No: MH06022
4 Parts
Size: 225x158x120mm



Human Heart Model

Art No: MH07001
Life size, 2 parts



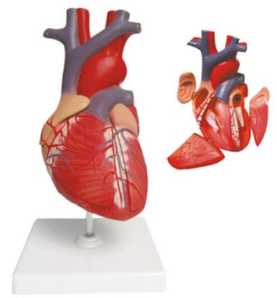
Human Heart Model

Art No: MH07002
Life size, 2 parts



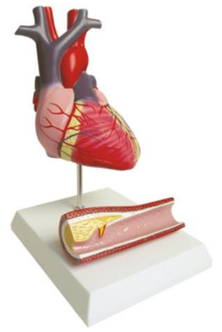
Human Heart Disease Model

Art No: MH07002-B
Life size,3 in 1



Human Heart Model

Art No: MH07003
Life size, 4 parts



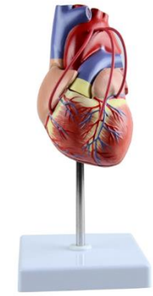
Human Heart Model

Art No: MH07004
With diseased artery, life size



Human Heart Model

Art No: MH07005
With diseased artery ,life size



Human Heart Model

Art No: MH07006
Life size, with bridges, 2 parts



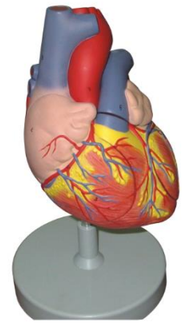
Human Heart Model

Art No: MH07007
Life size, 2 parts



Human Heart Model

Art No: MH07008
Life size, 2 parts



Human Heart Model

Art No: MH07009
2 times enlarged



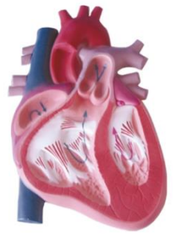
Human Heart Model

Art No: MH07010
About 5 times of life size, 3 parts
Size: 30x20x25cm



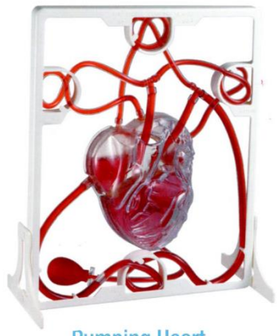
Human Heart Model

Art No: MH07011
About 5 times of life size, 3 parts
Size: 30x20x25cm



Model of Heart and Blood Fucxionuar

Art No: MH07012
Size: 480x430x30mm



Pumping Heart

Art No: MH070013
A 3-D working plastic heart model with clear chambers
Squeeze bulb to pump simulated blood through clear heart chambers
Just like real one.28cm high.



Model of Spleen with Pancreas and Duodenum

Art No: MH07020
Natural size



Rectum Common Disease Model

Art No: MH07021
Size: 16x13x22cm



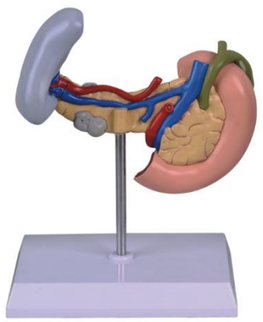
Diseased Large Intestines

Art No: MH07022
Size: 14x18x25cm



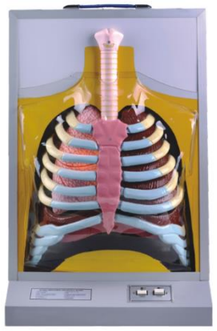
Diseased Esophagus Model

Art No: MH07023



Diseased Model of Spleen

Art No: MH07024
Diseased Model of Spleen with
Pancreas and Duodenum
Natural size



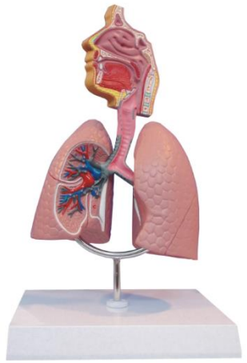
Functional Human Respiration Model

Art No: MH07025
Life size. Consists of a rib cage and the major thoracic organs. Demonstrates the respiration realistically by the movement of the rib cage and diaphragm.
It needs power supply.
Size: 40x40x30cm



Model of Magnified Alveolus

Art No: MH07026
Model of Smoking and Non-smoking
Magnified Alveolus
Size: 240x150x170mm



Model of Respiratory System

Art No: MH07027
Size: 220x110x385mm



Model of Transparent Lung Segments

Art No: MH07028
Size: 280x150x385mm



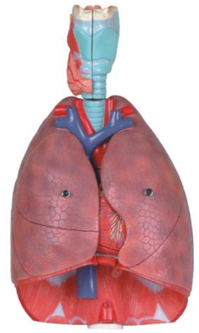
Lung Model with Bronchopulmonary Pathology

Art No: MH07029
Size: 190x130x170mm



Dissection Model of Bronchus in Right Lung

Art No: MH07031.04
Size: 110mm high



Respiratory System Model

Art No: MH07032
A life size reproduction of the complete human respiratory system. It is composed of 7 parts showing the larynx (dissected along the sagittal plane), the lungs (dissected along the frontal plane) and a 2-part heart. Mounted on base.
Size: 26x40x12cm



Dissection Model of Bronchus in Right Lung

Art No: MH07031.01
Size: 200mm high



Dissection Model of Bronchus in Right Lung

Art No: MH07031.02
Size: 180mm high



Dissection Model of Bronchus in Right Lung

Art No: MH07031.03
Size: 150mm high



Human Respiratory System with Magnified Alveolus

Art No: MH07032-B
A relief model of the respiratory system.
An alveolus with blood vessels(about 150x life size) is shown.
Size: 530x380x60mm

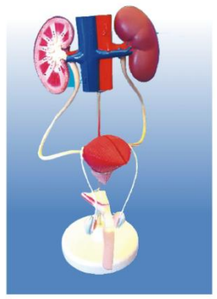


MH07033.01



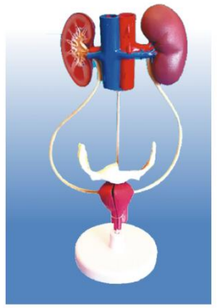
MH07033.02

Lung Respiration Model



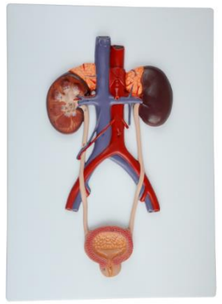
Model of Male Urogenital System

Art No: MH07034
Size: 190x190x460mm



Model of Female Urogenital System

Art No: MH07035
Size: 190x180x450mm



Model of Male Urinary System

Art No: MH07036-A



Male Urinary System

Art No: MH07036-B
Made of high quality PVC



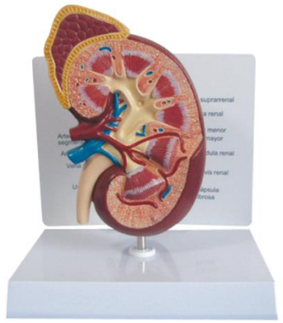
Dissection Model of Kidney with Cyst

Art No: MH07037
Size: 140mm high



Dissection Model of Kidney

Art No: MH07038
Size: 165mm high



Dissection Model of Kidney

Art No: MH07039
Size: 165mm high, with card



Dissection Model of Kidney

Art No: MH07040
2 times enlarged



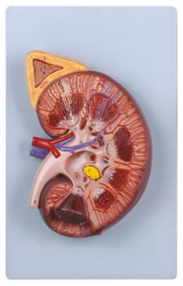
Human Kidney

Art No: MH07041
Natural size, 2 parts. Made of high quality PVC. Mounted on base.
Size: 22x11x11cm



Human Kidney

Art No: MH07041-B
1.5 times enlarged



Deluxe Kidney with Adrenal Gland

Art No: MH07042
3 times enlargded.
Made of high quality PVC. On a base.
Size: 40x25x7cm



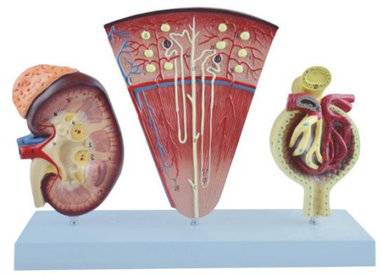
Human Kidney

Art No: MH07043
2 times enlarged



Model of Kidney, Nephron and Glomerulus

Art No: MH07044
Size: 70x30x10cm
Enlarged 3 times, 120 times, and 700 times respectively.
Made of high quality PVC. On a board.



Model of Kidney, Nephron and Glomerulus

Art No: MH07045
Enlarged 2 times, 120 times and 700 times respectively
Made of high quality PVC, on a board



Model of Kidney, Nephron and Glomerulus

Art No: MH07046
Enlarged 3 times, 120 times and 700 times respectively
Made of high quality PVC, on a board



Breast Model

Art No: MH07047
Size: 150x125x105mm



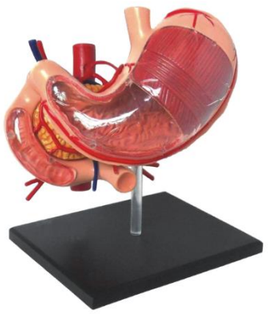
Pathological Model of Breast

Art No: MH07048.01
Size: 17x14x10cm



Pathological Model of Breast

Art No: MH07048.02
Life Size



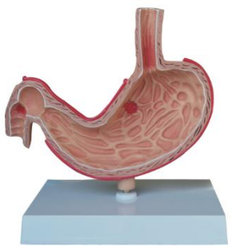
Transparent Model of Stomach

Art No: MH07051



Human Stomach

Art No: MH07052
Life Size, 2 Parts



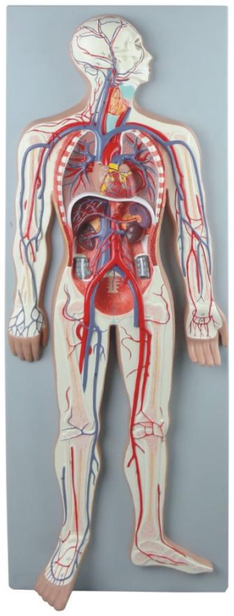
Dissection Model of Diseased Stomach

Art No: MH07053
Life Size



Human Digestive System

Art No: MH07050.01
Size: 90x30x13cm, life size



Blood Circulatory System

Art No: MH07050.02
1/2 natural size, 2 parts



Electric Model of Heart Beat and Circulation

Art No: MH07049
Size: 420x220x700mm



Model of Liver Cancer

Art No: MH07056
Life size



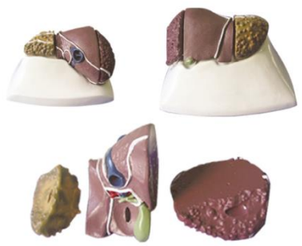
Human Liver

Art No: MH07060
Natural size,
Made of high quality PVC.
On a base



Stomach Model

Art No: MH07054
2xlife size, 2 parts



Model of Liver Cancer

Art No: MH07055
Life size



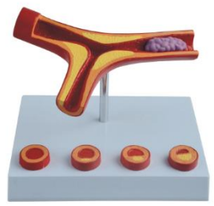
Liver Section with Gallbladder

Art No: MH07059
1.5x life size



Model of Liver

Art No: MH07061
Section of liver, spleen, pancreas,
Duodenum and stomach
Size: 240x180x60mm



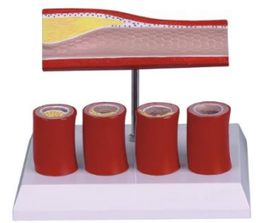
Atherosclerosis and Thrombosis Model

Art No: MH07062
Size: 165x130x150mm



4 Stage Artery Model

Art No: MH07063



Thrombosis Model

Art No: MH07064
Size:15x13x18cm



Model of Tracheal Pathology

Art No: MH07065



Model of Tracheal Pathology

Art No: MH07066
Size: 130x100x40mm



Model of Pathological Prostate

Art No: MH07067



Normal and Diseased Prostate

Art No: MH07068



Model of Male Bladder and Prostate Coronal Section

Art No: MH07069
Life Size



Model of Female Bladder Section

Art No: MH07070
Life size



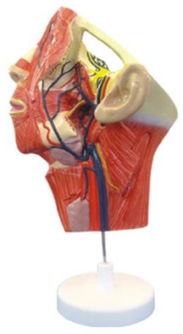
Model of Bladder and Prostate Pathology

Art No: MH07071
Size: 120x120x170mm

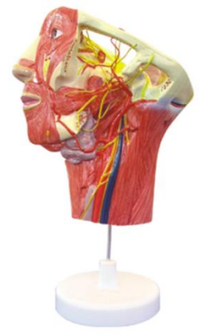


Model of Ovary

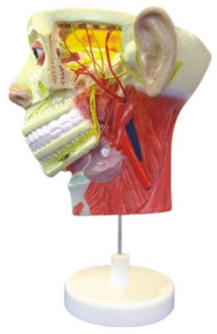
Art No: MH07072
Enlarged, 225x158x160mm



MH07074A



MH07074B



MH07074C

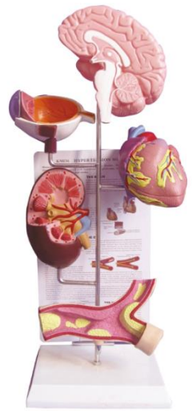
Model of Vas and Nerves Distributing in Face and Cervix

Art No: MH07074A
MH07074B
MH07074C
Life Size



Model of Hypertension

Art No: MH07075
Size: 120x120x450mm



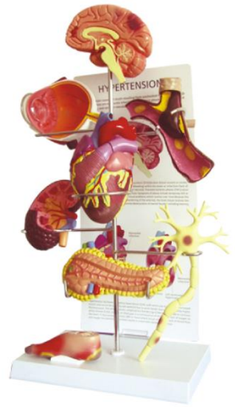
Model of Hypertension

Art No: MH07076
Size: 200x140x500mm



Model of Hypertension

Art No: MH07077
Size: 200x140x500mm



Model of Diabetes

Art No: MH07078
Size: 225x158x520mm



Organs of Endocrine System

Art No: MH07079
Size: 620x60x290mm



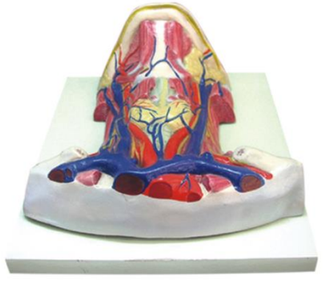
Model of Mediastinal Septum

Art No: MH07080
Size: 270x220x310mm, 3 parts



Dissection Model of Hand

Art No: MH07081
Life size, 4 parts



Regional Dissection Model of Muscles in Cervix

Art No: MH07082
Size: 220x210x100mm



Anatomy of the Hand

Art No: MH07083
Size: 2x life size



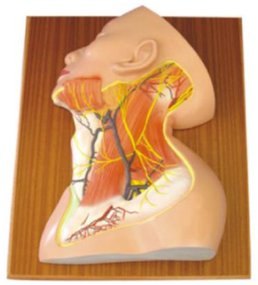
Model of Trigeminal Nerves and Branches

Art No: MH07084
Size: Life size

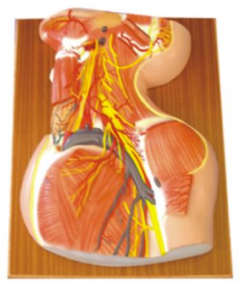


Dissection Model of Head and Cervix with Brain Nerves & Arteries

Art No: MH07085
Size: Life size







Dissection Model of Superior Nerves, Vas and Muscles in Cervix

Art No: MH07086
Size: Life size

Art No: MH07087
Size: Life size

Art No: MH07088
Size: Life size



Spinal Cord in the Spinal Canal

Art No: MH07090
Shows brain, cerebral nerves, spinal cord and nerves
Size: Life size



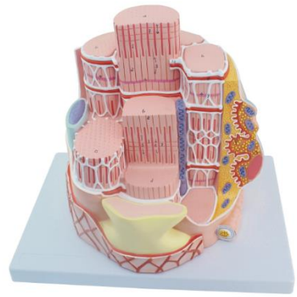
Enlarged Model of Spinal Cord Transection

Art No: MH07091
Size: 280x250x90mm



Artery Model

Art No: MH07092
Size: 320x200x320mm, 20x life size



Skeletal Muscle Fiber

Art No: MH07093
Enlarged approximately 40000x,shows the structure of skeletal muscle fibers.
Size: 330x225x300mm



Cardiac Muscle Structure Model

Art No: MH07094
Size: 420x300x200mm



Microstructure of Smooth Muscle Model

Art No: MH07095
Size: 280 x 160 x 110 mm



Human Skin Model

Art No: MH08001
Size: 200x150x155mm



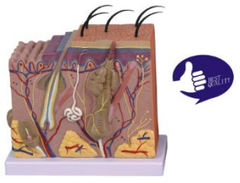
Human Skin Model

Art No: MH08002
Size: 165x128x120mm



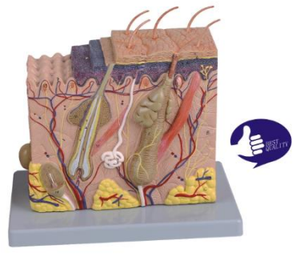
Human Skin Model

Art No: MH08003
Size: 180x140x160mm



Human Skin Model

Art No: MH08004
Size: 210x120x250mm, Best Quality, 50 times



Block Model of Human Skin

Art No: MH08005
Size:200x260x250mm, Best Quality, 70 times



Human Skin Model

Art No: MH08006
Size: 160x50x150mm



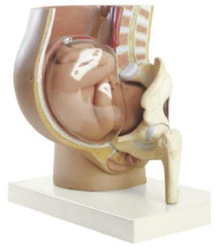
Human Skin Model

Art No: MH08007
Size: 270x100x310mm, 105 times



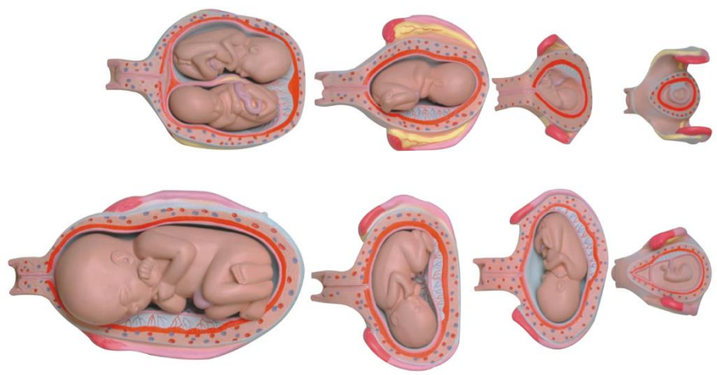
Pathological Model of Human Skin

Art No: MH08008



Pelvis with Uterus in 9th Month of Pregnancy

Art No: MH09001
Size: 380x240x380mm



Fetus Development Model Set

Art No: MH09002
Includes 8 uterus models to show the development of embryo and fetus. Each model on a base. Natural size.



Fetus Development Model Set

Art No: MH09003
Includes 5 uterus models to show the development of embryo and fetus.
On a base. Natural size.



Human Female Pelvis Section

Art No: MH09004
Life size



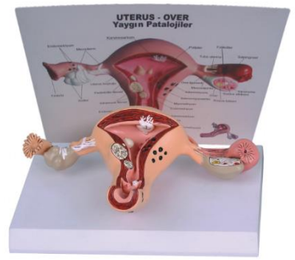
Female Pelvis

Art No: MH09005
Mounted on a base.
Size: 16x12x22cm



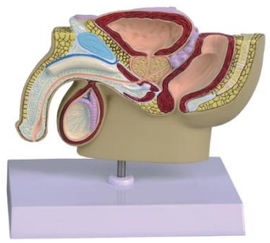
Female Internal Genital Organ

Art No: MH09006
1.5 times enlarged, shows the open vagina, cervix, uterus, ovary. Mounted on a base.
Size: 14x15x20cm



Pathological Uterine Model

Art No: MH09007.01, with card
MH09007.02, without card
Size: 22x16x10cm



Model of Male Pelvis

Art No: MH09008
Mounted on a base.
Size: 13x15x16cm



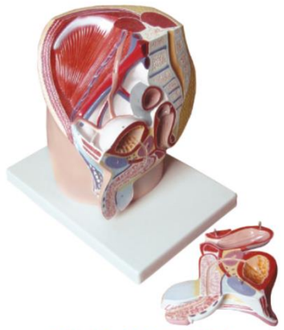
Model of Male Pelvis

Art No: MH09009
Mounted on a base with card
Size: 13x15x16cm



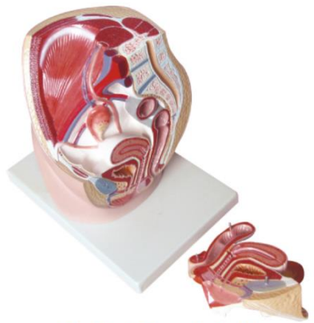
Model of Male Pelvis

Art No:MH09010
Mounted on a base.
With card and prostate
Size:13x15x16cm



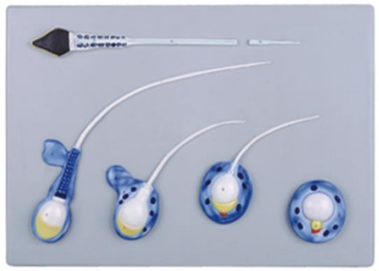
Model of Male Pelvis

Art No:MH09012
2 parts
Size: 230x180x260mm



Model of Female Pelvis

Art No:MH09013
2 parts
Size: 230x210x250mm



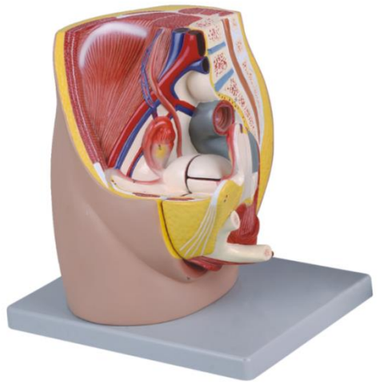
Sperm Formation Model

Art No: MH09016
Size: 40x50x7cm



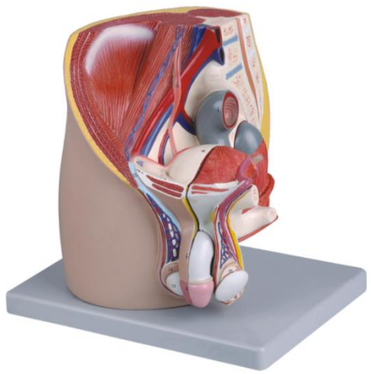
Female Genital Organ

Art No:MH09017
Size:14x17x20cm



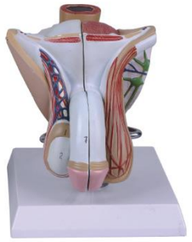
Female Pelvis, 3 parts

Art No: MH09014
This model shows the urinary and female reproductive system. Open through the medial sagittal section, 3 parts respectively are block pelvis, half reproductive system, and uterus cover. Natural size. On a base.
Size:33x23x30cm



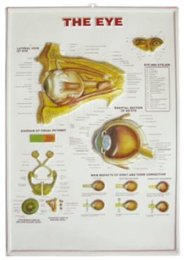
Male Pelvis, 4 parts

Art No: MH09015
Open through the medial sagittal section of male pelvis, this model shows the internal organs of urinary and male reproductive system. 4 parts respectively are block pelvis, testis cover, half reproductive system, and half penis.Natural size. On a base.
Size: 33x23x30cm



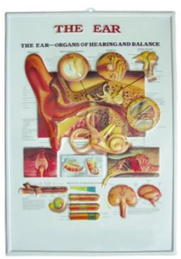
Male Genital Organ

Art No: MH09018
Size: 14x17x20cm



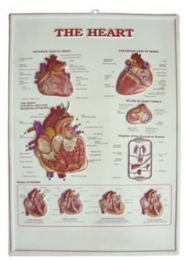
Vision System, wall-mounted, 3D

Art No: MH10001
Size: 770x550x10mm



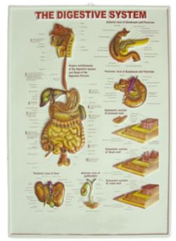
Auditory System, wall-mounted, 3D

Art No: MH10002
Size: 770x550x10mm



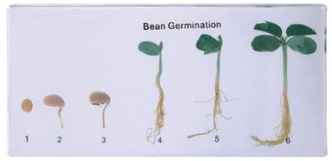
Heart,wall-mounted, 3D

Art No: MH10003
Size: 770x550x10mm



Digestive System, wall-mounted, 3D

Art No: MH10004
Size: 770x550x10mm



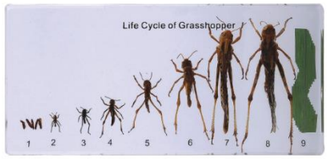
Bean Germination

Art No: M11001
Size: 16.5x7.5x2cm



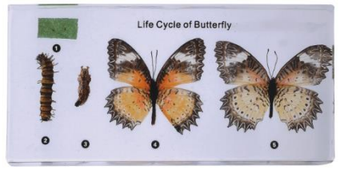
Corn Germination

Art No: M11002
Size: 16.5x7.5x2cm



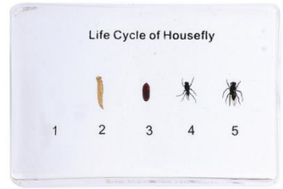
Life Cycle of Grasshopper

Art No: M11003
Size: 16.5x7.5x2cm



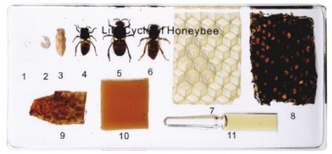
Life Cycle of Butterfly

Art No: M11004
Size: 16.5x7.5x2.3cm



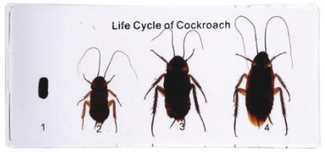
Life Cycle of Housefly

Art No: M11005
Size: 8.5x5.5x2.3cm



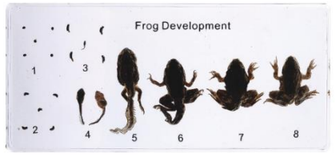
Life Cycle of Honeybee

Art No: M11006
Size: 14x6.3x2cm



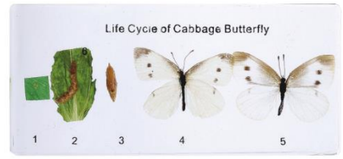
Life Cycle of Cockroach

Art No: M11007
Size: 13.8x6.2x2cm



Frog Development

Art No: M11008
Size: 13.8x6.2x1.5cm



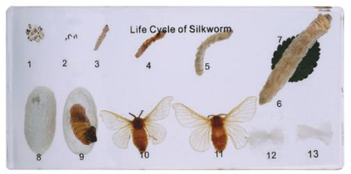
Life Cycle of Cabbage Butterfly

Art No: M11009
Size: 13.8x6.5x1.8



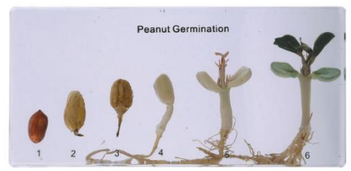
Life Cycle of Fern

Art No: M11010
Size: 8.5x5.5x1.5cm



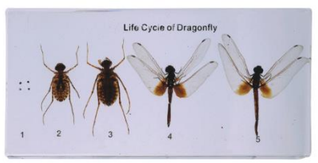
Life Cycle of Silkworm

Art No: M11011
Size: 16.3x7.5x2cm



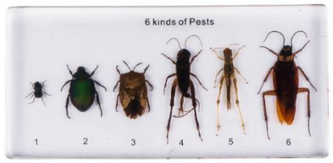
Peanut Germination

Art No: M11012
Size: 16.3x7.5x2cm



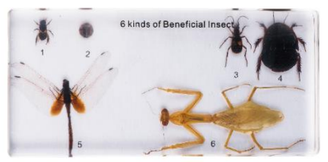
Life Cycle of Dragonfly

Art No: M11013
Size:16.3x7.5x2cm



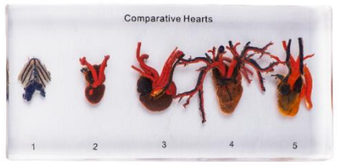
6 Kinds of Pests

Art No: M11014



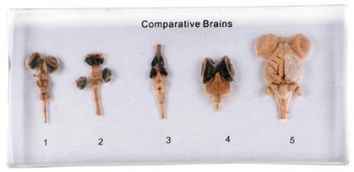
6 Kinds of Beneficial Insects

Art No: M11015



5 Comparative Hearts

Art No: M11016



5 Comparative Brains

Art No: M11017



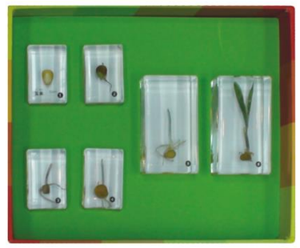
Life Cycle of Silkworm

Art No: M11018



Life Cycle of Bean

Art No: M11019



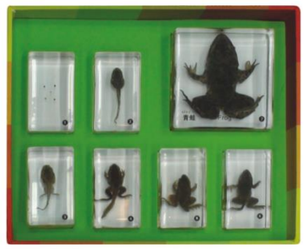
Life Cycle of Corn

Art No: M11020



Life Cycle of Grasshopper

Art No: M11021



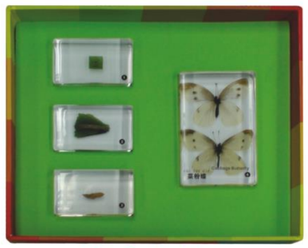
Frog Development

Art No: M11022



Life Cycle of Bee

Art No: M11023



Life Cycle of Cabbage Butterfly

Art No: M11024



Life Cycle of Dragonfly

Art No: M11025



Plant Transpiration Model

Art No: M11026
Size: 31x21x12cm



Plant Transpiration Model

Art No: M11027
Size: 31x21x12cm



Cell Divison Model, 8 parts

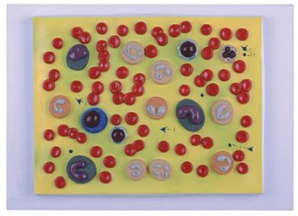
Art No: M12003
Each mounted on a base.



M12004

Animal Cell Model

Art No: M12004
Animal cell model, 20000x enlarged, shows typical animal cell strcture and all cellular organs.



Blood Cell Model

Art No: M12005
Size: 53x38x6.5cm



Plant Cell Model, 20000x

Art No: M12006
Size: 42x30x8cm



M12007

Plant Cell Model, 20000x

Art No: M12007
Size: 42x30x8cm, Best Quality



Cell Membrane

Art No: M12008
Size: 300x200x150mm



Model of 7 Different Hearts

Art No: M12009
Set of 7pcs



Model of 5 Different Brains

Art No: M12010
Brains of fish, frog, lizard, pigeon & dog



Dicot Stem Model (1 Year Limon Tree), 120x

Art No: M13000
Shows the dicot stem of 1 year old plant, sectioned both in transverse and longitudinal direction. Enlarged about 120 times. Made of high quality PVC. On a base.



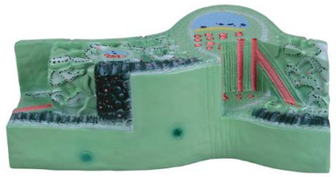
Monocot Stem Model

Art No: M13001
Size: 42x13x41cm



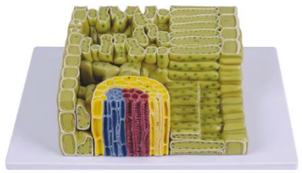
Dicotyledom Stem Model

Art No: M13002
Shows the typical structures of the dicot stem.
On base.
Size: 40x40x30cm



Leaf Structure Model

Art No: M13003
Size: 45x25x17cm



Dicot Leaf Section Model

Art No: M13004
Size: 40x30x11cm



Peach flower

Show all festures of typical dicot flower.
Art No: M13005.01
Size: 40x40x30cm,8x
Art No: M13005.02
Size: 32x22x22cm,5x



Peach flower

Art No: M13005-B
Shows all features of typical dicot flower
Size: 230x230x230mm



Dicot Herbaceous Stem Section

Art No: M13006
300X Life size
Size: 42.5x29x9cm



Dicot Arboreus Stem Section

Art No: M13007
300X Life size
Size: 43.5x23.5x7cm



Monocot Stem Section

Art No: M13008
400X Life size
Size: 25.5x21x5cm



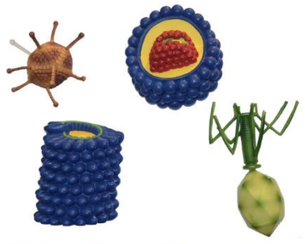
Monocot Leaf Section

Art No: M13009
300X Life size
Size: 45x23x7cm



Hydra Model, 4 Parts

Art No: M13010



Various Types of Viruses, Set of 4

Art No: M13011
Including HIV virus, Tobacco Mosaic virus, Adenovirus and Bacteriophage T4
Mounted on board



Frog Model, 5 Parts

Art No: M13012
Size: 3X life size



Fish Skeleton

Art No: M14001
Size: 24x10x7.3cm



Rabbit Skeleton

Art No: M14002
Size: 34.5x18x10.5cm



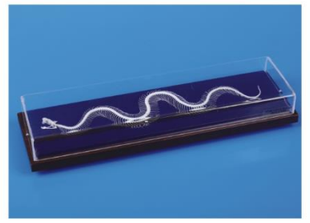
Turtle Skeleton

Art No: M14003
Size: 22x16.3x8cm



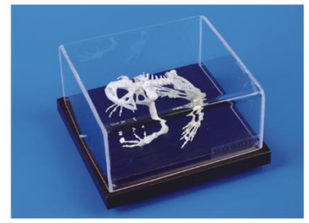
Pigeon Skeleton

Art No: M14004
Size: 15.6x21.8x12.8cm



Snake Skeleton

Art No: M14005
Size: 34.5x10.8x5cm



Toad Skeleton

Art No: M14006
Size: 13.3x13.3x7.8cm



Metamorphosis of the Stems

Art No: M15001



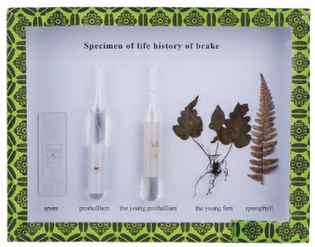
Germination of Seeds

Art No: M15002



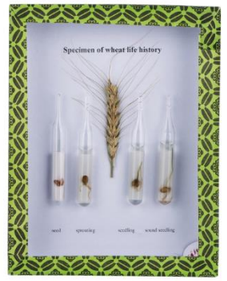
Specimen of Legumina Growing History

Art No: M15003



Specimen of Brake Fern Life History

Art No: M15004



Specimen of Wheat Life History

Art No: M15005



Specimen of Different Root Types

Art No: M15006



Specimen of 10 Butterflies

Art No: M15007



Specimen of 10 Beneficial Insects

Art No: M15008



Specimen of 20 Beneficial Insects

Art No: M15009



Specimen of 10 Harmful Insects

Art No: M15010



Specimen of 25 Harmful Insects

Art No: M15011



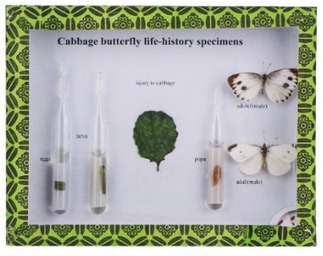
Specimen of Mosquito Life History

Art No: M15012



Specimen of Silkworm Life History

Art No: M15013



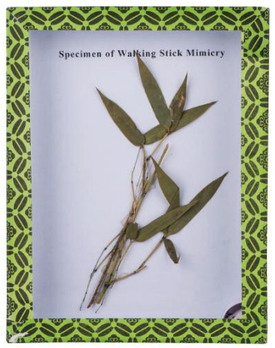
Specimen of Cabbage Butterfly Life History

Art No: M15014



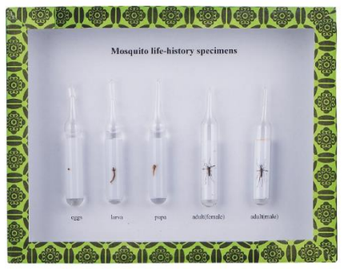
Specimen of Locust Life History

Art No: M15015



Specimen of Walking Stick Mimicry

Art No: M16016



Specimen of Housefly Life History

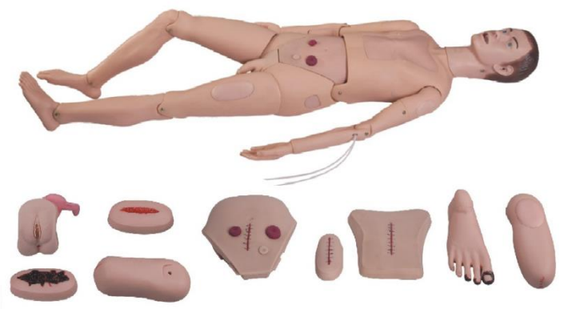
Art No: M15017



Specimen of Bee Life History

Art No: M15018

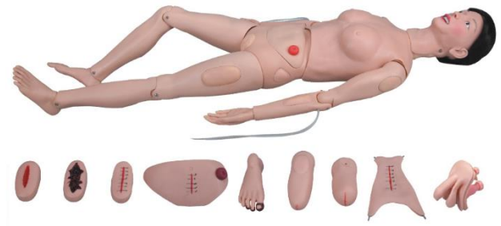
2100 Combination Nursing Manikin
Art No: M16001



Features:

1. Hair and face washing
2. Eye and ear washing and administering
3. Mouth cavity and artificial teeth care
4. Endotracheal intubation
5. Tracheotomy care
6. Sputum suction
7. Oxygen inhaling
8. Oral and nasal feeding
9. Gastrolavage
10. Main organs in the thoracic cavity
11. Venipuncture, injection, blood transfusion (Arm)
12. Deltoid subcutaneous injection
13. Vastus lateralis injection
14. Thoracic cavity, abdominal cavity, liver, bone marrow and lumbar puncture
15. Enema
16. Female urethral catheterization
17. Male urethral catheterization
18. Female bladder irrigation
19. Male bladder irrigation
20. Ostomy
21. Buttocks intramuscular injection
22. Holistic nursing: sponge bath, replacing clothes

23. Limbs joints: bend, rotation and upper or lower movement
1) Chest wall section and suture incision
2) Abdomen wall section and suture incision
3) Thigh section and suture incision
4) Tear of the thigh skin
5) Infective ulcer of thigh
6) Foot sphacelus,decubitus ulcers of first ,second ,third toes and heelstick
7) Amputation stump of upper arm
8) Amputation stump of leg



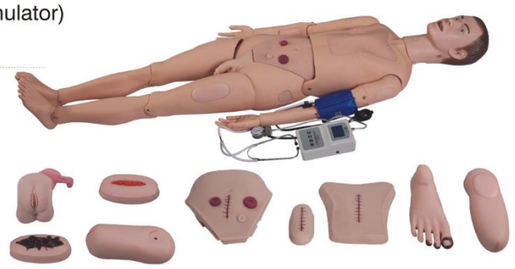
2200 Female Nursing Manikin
Art No: M16002

Features:

1. Hair and face washing
2. Eye and ear washing and administering
3. Mouth cavity and artificial teeth care
4. Endotracheal intubation
5. Tracheotomy care
6. Sputum suction
7. Oxygen inhaling
8. Oral and nasal feeding
9. Gastrolavage
10. Breast Care and inspection
11. Main organs in abdominal cavity
12. Venipuncture, injection, blood transfusion (Arm)
13. Deltoid subcutaneous injection
14. Vastus lateralis injection
15. Thoracic cavity, abdominal cavity, liver, bone marrow and lumbar puncture
16. Enema
17. Female urethral catheterization
18. Female bladder irrigation
19. Ostomy
20. Buttocks intramuscular injection
21. Holistic nursing: sponge bath, replacing clothes

22. Limbs joints : bend ,rotation and upper or lower movement
1) Chest wall section and suture incision
2) Abdomen wall section and suture incision
3) Thigh section and suture incision
4) Tear of the thigh skin
5) Infective ulcer of thigh
6) Foot sphacelus,decubitus ulcers of first ,second ,third toes and heelstick
7) Amputation stump of upper arm
8) Amputation stump of leg

2300 Full-functional Nursing Manikin(Blood Pressure Simulator)
Art No: M16003



Features:
1. Hair and face washing
2. Eye and ear washing and administering
3. Mouth cavity and artificial teeth care
4. Endotracheal intubation
5. Tracheotomy care
6. Sputum suction
7. Oxygen inhaling
8. Oral and nasal feeding
9. Gastrolavage
10. Main organs in thoracic cavity
11. Main organs in abdominal cavity
12. Venipuncture, injection, blood transfusion (Arm)
13. Deltoid subcutaneous injection
14. Vastus lateralis injection
15. Thoracic cavity, abdominal cavity, liver, bone marrow and lumbar puncture
16. Enema
17. Female urethral catheterization
18. Male urethral catheterization
19. Female bladder irrigation
20. Male bladder irrigation
21. Ostomy
22. Buttocks intramuscular injection
23. Holistic nursing: sponge bath, replacing clothes, cold and heat therapy
24. Limbs joints: bend, rotation and upper or lower movement
25. Trauma evaluation and care: washing, disinfection, enswathing of the wound; hemostasis and bandaging

G111 Full Functional Trauma Nursing Manikin
Art No: M16004



Features:
1. With all functions of KAR/2100
1) Hair and face washing
2) Eye and ear washing and administering
3) Mouth cavity and artificial teeth care
4) Endotracheal intubation
5) Tracheotomy care
6) Sputum suction
7) Oxygen inhaling
8) Oral and nasal feeding
9) Gastrolavage
10) Main organs in the thoracic cavity
11) Venipuncture, injection, blood transfusion (Arm)
12) Deltoid subcutaneous injection
13) Vastus lateralis injection
14) Thoracic cavity, abdominal cavity, liver, bone marrow and lumbar puncture
15) Enema
16) Female urethral catheterization
17) Male urethral catheterization
18) Female bladder irrigation
19) Male bladder irrigation
20) Ostomy
21) Buttocks intramuscular injection
22) Holistic nursing: sponge bath, replacing clothes

2. Trauma modules are increased.
1) Facial burn: 1, 2, 3 degree
2) Laceration in forehead
3) The wound in jaw
4) Opened clavicular fracture and contusion wound on the chest
5) The wound in abdomen with small intestine evisceration
6) Opened humerus fracture of right upper arm
7) Opened fracture of right hand (including parenchyma laceration, fracture and bone tissue exposure)
8) Gun wound in the right palm
9) Opened fracture of right thighbone
10) Compound femur fracture of left thigh
11) Metal pricking wound in right thigh
12) Opened tibia fracture of right leg
13) Opened fracture of right foot with truncating trauma on small phalanx
14) Burns in left forearm: 1, 2, 3 degree
15) Truncating trauma on left thigh
16) Closed tibia fracture of right leg and contusion wounds in left ankle and foot.
17) Chest wall section and suture incision
18) Abdomen wall section and suture incision
19) Thigh section and suture incision
20) Tear of the thigh skin
21) Infective ulcer of thigh
22) Foot sphacelus, decubitus ulcers of first, second, third toes and heelstick
23) Amputation stump of upper arm
24) Amputation stump of leg

3000 Advanced Adult Nursing Manikin
Art No: M16005

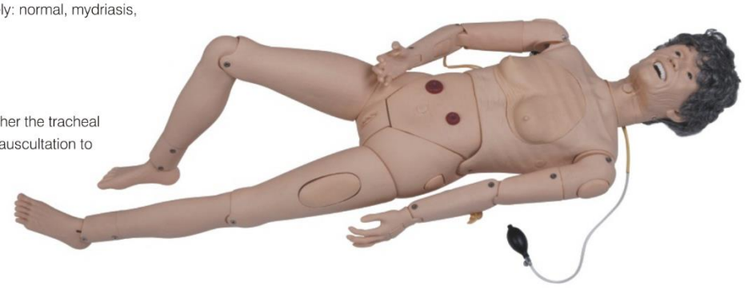


Features:
1. CPR training:
1) Simulate standard open airway
2) LCD counter display：The screen LCD display artificial respiration, external breast compression and pulse reaction
3) Operation methods: exercise operation; examine operation
4) Operating cycle of examine operation: one cycle includes five times of 30:2 ratio of compression and artificial respiration
2. Carotid pulse
3. Pupil teach: dilated pupil, normal pupil
4. External ear canal flushing
5. Oxygen inhalation, aerosol inhalation therapy
6. Nasogastric surgery
7. Gastric lavage
8. Intramuscular injection
9. Subcutaneous of the left arm
10. Intravenous injection of the right arm
11. Stoma care: gastrostomy, bladder stoma, Colostomy, ileal stoma
12. Men and women genital interchangeable, catheterization, indwelling catheter and bladder irrigation
13. Decubitus care: the congestion stage, ulcers stage
14. Enema operation

Optional:
1. Blood pressure measurement arm

220B Full Functional Elderly Nursing Manikin (Female)
Art No: M16006

This manikin is designed according to the physiological characteristics of female old people for basic clinical nursing training.
It consists of full body female elderly manikin and non-invasive blood pressure simulator, with about 50 kinds of nursing functions.
Made of high quality PVC, realistic shape as human, easily washable. It helps nursing workers understand and care for old people during the nursing process.



Basic nursing functions:
1. Hair and face washing
2. Pupil observation, Pupil LCD is CSTN pseudo-color, 65k color, RGB. Diameter range is 1-9mm. Simulate pupil states freely: normal, mydriasis, and myosis, etc
3. Eye and ear washing and administering
4. Removal and insertion of hearing aid
5. Mouth cavity and artificial teeth care
6. Endotracheal intubation, automatically monitor whether the tracheal intubation is correct or not through sensor; support auscultation to detect intubation site
7. Incision of trachea nursing
8. Sputum suction
9. Oxygen inhaling
10. Oral and nasal feeding
11. Gastrolavage
12. Venipuncture, injection, transfusion (arm)
13. Deltoid subcutaneous injection
14. Vastus lateralis injection
15. Thoracic cavity, abdominal cavity, liver, bone marrow and lumbar puncture
16. Breast nursing, mammary gland examination
17. Enema
18. Male/female urethral catheterization
19. Male/female bladder injection
20. Stoma drainage
21. Colostomy
22. Buttocks intramuscular injection
23. Large area of sacral ulcer
24. Cancer tumor contrast
25. Cleavage lines contrast
26. Holistic nursing: sponge bath, replacing clothes, cold and hot therapy
27. Realistic limbs joint, stiff simulated joints, truck may lean forward, can sit it the wheelchair
1) Truck- rotation, flexibility
2) Neck- rotation, flexibility, lateral curvature
3) Shoulder and buttock- endoduction, abduction, rotation, flexibility
4) Elbow-internal rotation, external rotation
5) Knee- internal rotation, external rotation
6) Wrist-internal rotation, flexibility, stretching, bending
7) Ankle- introversion, eversion, endoduction, abduction
28. Non-invasive blood pressure measurement
1) Systolic and diastolic pressure may be set individually in steps of 1mmHg
2) Systolic pressure 0-300mmHg, diastolic pressure 0-300Hg
3) Korotkoff sound volume in ten steps, 0-9



Plastic Student Microscope Set

Art No: PMC150X,Power: 150x
Plastic Student Microscope Set,Unassembled



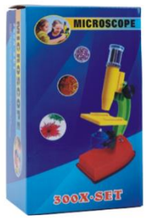
Plastic Student Microscope Set

Art No: PMC900X
Power: 100x,300x,600x and 900x



Plastic Student Microscope Set

Art No: PMC600X
Power: 100x,300x and 600x



Plastic Student Microscope Set

Art No: PMC300X
Power: 300x



Plastic Student Microscope Set

Art No: PMC1200X
Power: 300x,600x and 1200x

XSP-136A

Monocular 45° inclined, 360° rotatable,
Eyepiece: WF10X
Objectives: 4X, 10X, 40X(S), 100X(S) oil
Double layer mechanical stage 120mmx125mm
Moving range: 70mmx30mm
N.A. 1.25 Abbe condenser with iris diaphragm and filter
Coaxial coarse and fine focusing adjustment
Halogen Lamp: 6V/20W,110V/220V



XSP-136B

Binocular Microscope

Articulated Binocular 30° inclined, 360° rotatable.
Eyepiece: WF10X
Objectives: 4X,10X,40X(S),100X(S) oil
Double layer mechanical stage
120mm x 125mm
Moving range: 70mm x 30mm
N.A. 1.25 Abbe condenser with iris diaphragm and filter
Coaxial coarse and fine focusing adjustment
Halogen Lamp: 6V/20W,110V/220V



XSP-136T

Trinocular Microscope

Articulated Trinocular 30° inclined
Eyepiece: WF10X
Objectives: 4X,10X,40X(S),100X(S) oil
Double layer mechanical stage
120mm x125mm
Moving range: 70mm x 30mm
N.A. 1.25 Abbe condenser with iris diaphragm and filter
Coaxial coarse and fine focusing adjustment
Halogen Lamp: 6V/20W,110V/220V



XSZ-107BN

Binocular Microscope

Sliding binocular head,45° inclined,360° rotatable,
Eyepiece: WF10X,WF16X
Objectives:4X,10X,40X(S),100X(S) oil
Double layer mechanical stage 140mm X 155mm
Moving range: 70mm X 50mm
N.A. 1.25 Abbe condenser with iris diaphragm and filter
Coaxial coarse and fine focusing adjustment,precision:0.002mm
Halogen Lamp: 6V/20W,110V/220V
Best seller



XSZ-107TR

Trinocular Microscope

Sliding Trinocular head, 45° inclined,360° rotatable,
Eyepiece: WF10X,WF16X
Objectives: 4X, 10X, 40X(S), 100X(S) oil
Double layer mechanical stage
140mm X 155mm
Moving range: 70mm X 50mm
N.A. 1.25 Abbe condenser with iris diaphragm and filter
Coaxial coarse and fine focusing adjustment,precision:0.002mm
Halogen Lamp: 6V/20W,110V or 220V



XSP-102

Monocular Microscope

Monocular 45° inclined, 360° rotatable
Eyepiece: WF10X
Objectives: 4X, 10X, 40X(S)
Stage: Plain stage with slide clips, size: 110mmx120mm
Condenser: N.A. 0.65 Abbe condenser with disc diaphragm
Focusing: Coaxial fine and coarse focusing adjustment
Focusing Range: 20mm
Illumination: Halogen Lamp, 220V/20W(or 110V)



XSP-104

Monocular Microscope

Monocular 45° inclined, 360° rotatable
Eyepiece: WF10X
Objectives: 4X, 10X, 40X(S),100X(oil)
Stage: Double layer mechanical stage 115mmx125mm
Condenser: N.A. 1.25 Abbe condenser with iris diaphragm and filter
Focusing: Coaxial fine and coarse focusing adjustment
Focusing Range: 20mm
Illumination: Halogen Lamp, 220V/20W(or 110V)



XSP-3A

Monocular Microscope

Eyepiece: 12.5X
Objective: 16X
Illumination: Concave-plan reflector, Dia 40mm
Working Stage: 100mmx90mm



L101

Monocular Microscope

Eyepiece: 5X,10X and 15X
Objective: 5X,10X and 45X
Total Magnification: 25X ~ 675x
Illumination: Concave-plan reflector, Dia 50mm
Coarse Adjustment Range: 50mm
Fine Adjustment Range: 1.8mm~2.2mm
Working Stage: Round,120mm Dia
Packing: Wooden case or foam carton



XSP-61

Monocular Microscope

Monocular 45° inclined, 360° rotatable
Eyepiece: WF10X
Objectives:4X,10X, 40X(S)
Total Magnification: 40X~400x
Illumination: Incandescent Lamp ,220V/20W(or 110V)
Coarse Adjustment Range: 22mm
Fine Adjustment Range: 1.3mm
Working Stage: 120mmx130mm
Condenser: N.A. 0.65 Abbe condenser with disc diaphragm



XSP-13A

Monocular Microscope

Eyepiece: 5X,10X and 12.5X
Objective: 10X, 40X and 100X
Total Magnification: 50X~1250x
Illumination: Concave-plan reflector, Dia 50mm
Coarse Adjustment Range: 50mm
Fine Adjustment Range: 1.8mm~2.2mm
Working Stage: 110mmx120mm with moving scale
N.A. 1.25 Abbe condenser with iris diaphragm and filter
Electrical Illumination: Optional
Packing: Wooden case



BM-100FL

Binocular Microscope

Sliding Binocular Head, 45° inclined,360° rotatable
Eyepiece: WF10X
Objectives:4X,10X,40X(S),100X(S)
Total Magnification: 40X~1000x
Illumination: Halogen Lamp,220V/20W(or 110V)
Separated coarse and fine adjustment
Working Stage: 110mm x 120mm
Condenser: N.A. 1.25 Abbe condenser with iris diaphragm



XSP-116L

Monocular Microscope

Monocular 30° inclined
Eyepiece: WF10X
Objectives:4X,10X,40X(S)
Stage: Plain stage with slide clips, size: 90mmx90mm
Condenser: N.A.0.65 condenser with disc diaphragm
Focusing: Coarse focusing adjustment
Illumination: Incandescent Lamp, 220V/20W(or 110V)



XSP-116FB
Monocular Microscope

Monocular 45° inclined, 360° rotatable
Eyepiece: WF10X
Objectives:4X,10X,40X(S)
Stage: Plain stage with slide clips,size: 90mmx90mm
Condenser: Single lens with disc diaphragm
Focusing: Coaxial fine and coarse focusing adjustment
Fine Focusing Scale Precision: 0.002mm
Illumination: Incandescent Lamp,220V/20W(or 110V)



XSP-116NL
Monocular Microscope

Monocular 45° inclined
Eyepiece: WF10X
Objectives: 4X,10X,40X(S)
Stage: Plain stage with slide clips,size: 90mmx90mm
Condenser: Single lens with disc diaphragm
Focusing: Coarse focusing adjustment
Illumination: Incandescent Lamp,
220V/20W(or 110V)



XSP-116B
Monocular Microscope

Monocular 45° inclined, 360° rotatable
Eyepiece: WF10X
Objectives: 4X, 10X, 40X(S)
Stage: Plain stage with slide clips,size: 90mmx90mm
Condenser: Single lens with disc diaphragm
Focusing: Coaxial fine and coarse focusing adjustment
Fine Focusing Scale Precision: 0.002mm
Illumination: Incandescent Lamp,
220V/20W(or 110V)



XSP-116F
Monocular Microscope

Monocular 45° inclined, 360° rotatable
Eyepiece: WF10X
Objectives: 4X, 10X, 40X(S)
Stage: Plain stage with slide clips,size: 90mmx90mm
Condenser: Single lens with disc diaphragm
Focusing: Coarse focusing adjustment
Illumination: Incandescent Lamp,
220V/20W(or 110V)



XSP-01
Monocular Microscope

Eyepiece: 10X and 12.5X
Objective: 4X,10X and 40X
Total Magnification: 40X~500X
Working Stage: 110mmx120mm with slide clips
Condenser: Disc diaphragm
Focusing: Separated coarse and fine adjustment
Coarse Adjustment Range: 50mm
Fine Adjustment Range: 1.8mm~2.2mm
Illumination: Concave-plan reflector,Dia 50mm
Eyepiece 16X optional
Packing: Foam carton



XSP-41
Monocular Microscope

Monocular 45° inclined, 360° rotatable
Eyepiece: WF10X
Objective: 4X,10X and 40X(S)
Illumination: Concave-plan reflector, Dia 40mm
Coarse Adjustment Range: 8mm
Condenser: N.A.0.65 condenser
with disc diaphragm
Working Stage: 90mmx90mm



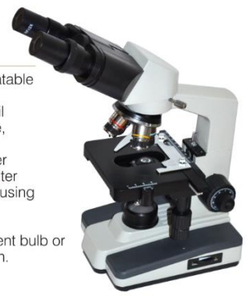
XSP-200D
Monocular Microscope

Monocular head, 45° inclined, 360° rotatable
Eyepiece: WF10X
Objective: 4X, 10X, 40X(S), 100X(S) oil
Stage: Double layer mechanical stage, 115X125mm
Condenser: N.A. 1.25 Abbe condenser with iris diaphragm and filter
Focusing: Coaxial coarse and fine focusing adjustment
Illumination: Halogen bulb, 6V/20W, AC220V/110V
Incandescent bulb or LED illumination for option.



XSP-200E
Binocular Microscope

Binocular head, 45° inclined, 360° rotatable
Eyepiece: WF10X
Objective: 4X, 10X, 40X(S), 100X(S) oil
Stage: Double layer mechanical stage, 115X125mm
Condenser: N.A. 1.25 Abbe condenser with iris diaphragm and filter
Focusing: Coaxial coarse and fine focusing adjustment
Illumination: Halogen bulb, 6V/20W, AC220V/110V Incandescent bulb or LED illumination for option.



XSP-42
Monocular Microscope

Monocular head, 45°inclined
Eyepiece: WF10X
Objective: 4X, 10X, 40X(S)
Stage: Plain stage with moving scale, 90X90mm
Condenser: 0.65 single lens condenser and disc diaphragm
Focusing: Coarse focusing adjustment
Illumination: LED illumination, both top and bottom light



XSP-42XT
Digital Microscope

The same microscope as XSP-42,
but added with digital eyepiece, and some
other accessories, like one box of prepare
slides, 4 plastic bottles, and one tweezer
In a plastic brief case



XSP-43
Monocular Microscope

Monocular head, 45°inclined
Eyepiece: WF10X
Objective: 4X, 10X, 40X(S)
Stage: Plain stage with clips, 90X90mm
Condenser: 0.65 single lens condenser and disc diaphragm
Focusing: Coarse focusing adjustment
Illumination: LED illumination



XSP-43XT
Digital Microscope

The same microscope as XSP-43,
but added with digital eyepiece,
and some other accessories, like
one box of prepared slides, 4 plastic
bottles, one tweezer and 2 batteries.
In a plastic brief case



XSP-44
Monocular Microscope

Monocular 45° inclined, 360° rotatable
Eyepiece: WF10X
Objective: 4X,10X and 40X(S)
Illumination: LED
Coarse Adjustment Range: 15mm
Condenser: N.A.0.65 condenser
with disc diaphragm
Working Stage: 90mmx90mm



XSP-44XT
Digital Microscope

The same microscope as XSP-44,
but added with digital eyepiece,
and some other accessories,
like one box of prepared slides,
4 plastic bottles, one tweezer and
2 batteries.In a plastic brief case



XSP-45
Monocular Microscope

Monocular 45° inclined, 360° rotatable
Eyepiece: WF10X
Objective: 4X,10X and 40X(S)
Illumination: Top and bottom LED light
Coarse Adjustment Range: 13mm
Condenser: N.A.0.65 condenser
with disc diaphragm
Working Stage: 90mmx90mm



XSP-45LCD
Digital Microscope

LED Display monitor
Camera: 2.0MP COMS Chip, Resolution 1600x1200
Display monitor: 3.6" TFT in focus display
Resolution 960x240
Memory: 32MB
USB Line:USB2.0 MINI
Exterior memory: SD Card Slot
Digital focal variation: 8X
Power: DC-5V, 1A
Microscope
Total Magnification: 40x ~ 400x
Eyepiece: WF10x LED Display monitor
Objectives: 4x 10x 40xs
Eyepieces Tube : Monocular 45°
Lnclined Tube Rotatable 360°
Lighting Syatem: Top and Bottom Light,
LED Electrical Illumination
Work distance: 27mm
Coarse movement distance: 13mm
Working area: 90mmx90mm with a mobile foot
Condenser: 0.65 condenser, pulling plate light bar



M-100FL
Monocular Microscope

Monocular head, 45°inclined, 360°rotatable
Eyepiece: WF10X
Objective: 4X, 10X, 40X(S)
Stage Size: 110X120mm
Condenser: 0.65 single lens condenser and disc diaphragm
Focus: Separated coarse and fine focusing mechanism
Illumination: Built-in electrical illuminator, tungsten bulb. Halogen, fluorescent bulbs or LED illumination for option.



PH-20
Monocular Microscope

Monocular head, 45°inclined, 360°rotatable
Eyepiece: WF10X, WF16X
Objective: 4X, 10X, 40X(S)
Round Stage: Diameter 90mm with clips
Condenser: 0.65 single lens condenser and disc diaphragm
Focusing: Separated coarse and fine focusing mechanism
Illumination: LED illumination system, light adjustable



PH-30
Monocular Microscope

Monocular head, 30° inclined, 360° rotatable
Eyepiece: WF10X
Objective: 4X, 10X, 40X(S)
Stage: Double layer mechanical stage, 105X95mm
Condenser: N.A. 1.25 Abbe condenser with iris diaphragm and filter
Focusing: Coaxial coarse and fine focusing adjustment
Illumination: LED illumination system, light adjustable



SME-F4
Monocular Microscope

Monocular head, 45°inclined, 360°rotatable
Eyepiece: WF10X
Objective: 4X, 10X, 40X(S), 100X(S) oil
Stage: Plain stage with moving scale, 120X125mm
Condenser: N.A. 1.25 Abbe condenser with iris diaphragm and filter
Focusing: Separated coarse and fine focusing adjustment
Illumination: Halogen bulb 6V/20W, AC220V/110V, light adjustable
Fluorescent bulb, AC220V/5W or AC110V/5W and LED illumination for option.



SME-F4D
Binocular Microscope

Compensation free binocular head,
30°inclined, 360°rotatable
Eyepiece: WF10X
Objective: 4X, 10X, 40X(S), 100X(S) oil
Stage: Plain stage with moving scale, 120X125mm
Condenser: N.A. 1.25 Abbe condenser with iris diaphragm and filter
Focusing: Separated coarse and fine focusing adjustment
Illumination: Halogen bulb 6V/20W, AC220V/110V, light adjustable
Fluorescent bulb, AC220V/5W or AC110V/5W and LED illumination for option.



SME-F6
Monocular Microscope

Monocular head, 45°inclined, 360°rotatable
Eyepiece: WF10X
Objective: 4X, 10X, 40X(S)
Stage: Plain stage with clips, 110X110mm
Condenser: 0.65 single lens condenser and disc diaphragm
Focusing: Coaxial coarse and fine focusing adjustment
Illumination: Incandescent bulb, AC220V/20W or AC110V/20W LED illumination for option.



SME-F6B
Monocular Microscope

Monocular head, 45°inclined, 360°rotatable
Eyepiece: WF10X
Objective: 4X, 10X, 40X(S)
Stage: Double layer mechanical stage, 110X126mm
Condenser: N.A. 1.25 Abbe condenser with iris diaphragm and filter
Focusing: Coaxial coarse and fine focusing adjustment
Illumination: Halogen bulb 6V/20W, AC220V/110V LED bulbs for option.



XSP-116BN
Binocular Microscope

Achromatic Objectives: 4X, 10X, 40X(spring)
Eyepiece: Wide Field Eyepiece: WF10X, (WF16X optional)
Viewing head: Binocular Head
Stage: Plain stage with moving scale, Stage size 90mmX90mm
Condenser: N.A.0.65 Condenser with disc diaphragm
Focusing: Coaxial Coarse and fine Adjustment
Power: AC Input 220V or 110V,DC ouput 6V
Illumination: LED lamp



XSP-300M
Monocular Microscope

Achromatic Objectives: 4X, 10X, 40X(S), 100X(S, Oil)
Eyepiece: Wide Field Eyepiece: WF10X, (WF16X optional)
Viewing head: Monocular Head
Stage: Double Layer Mechanical Stage Size 115X125mm
Focusing: Coaxial Coarse and Fine Adjustment, Focusing Range 30mm,Focusing Interval 0.002mm
Condenser: Abbe NA=1.25 with Iris Diaphragm&Filter
Illumination: LED(1W) Lamp 220V or 110V;(LED 3W lamp optional, Halogen bulb 6V/20W optional)



XSP-300B
Binocular Microscope

Achromatic Objectives: 4X, 10X, 40X(S), 100X(S, Oil)
Eyepiece: Wide Field Eyepiece: WF10X, (WF16X optional)
Viewing head: Binocular Head, 45° Inclined
Stage: Double Layer Mechanical Stage Size 115X125mm
Focusing: Coaxial Coarse and Fine Adjustment, Focusing Range 30mm,Focusing Interval 0.002mm
Condenser: Abbe NA=1.25 with Iris Diaphragm&Filter
Illumination: LED(1W) Lamp 220V or 110V;(LED 3W lamp optional, Halogen bulb 6V/20W optional)



XSP-13B
Monocular Microscope

Viewing head: Monocular Huygens Eyepieces: H10X,H16X
Achromatic Objectives: 5X, 10X, 40X
Stage: Plain Stage,120x120mm, with Specimen Holder
Condenser: N.A=1.25 Abbe condenser with Iris diaphragm & filter holder
Coarse adjustment range: 50mm
Fine adjustment range: 1.8-2.2mm
Illumination: Concave-plan reflector ϕ50mm and LED



SMM-200
Straight Tube Monocular Microscope

- 45mm Achromatic Objective: 4X,or 10X
- Plane-Scope Eyepiece: WF5X,or WF10X
- Total Magnification: 20X,or 40X,or 50X,or 100X
- Vertical Monocular Head
- Plain Stage with Paired Clips: 95X80mm
- Focusing by Pushing And Pulling the Tube
- The Plastic Prism Light Gathering System





YJ-2108 Binocular Microscope

Specification		Model YJ-2108
Optical System	UIS(Universal optical system)	●
Illumination	Epi-kohler illumination 6V20W,Halogen lamp 100-240V 50/60Hz	●
Focusing	Stage height adjustment mechanism Fine adjustment Scale:0.001mm per turn Coaxial coarse range 14mm	●
Nosepiece	Quadruple	●
Viewing Head	Binocular Head,Inclined at 30° Interpupillary Distance 48-75mm	●
Eyepiece	WF10X, F.N=18(Anti-mould)	
Obiectives	Infinite Plan-achromatic 4x, 10x, 40x,100x	●
Stage	Size:140x140mm, moving range 75x45mm	●
Condenser	Abbe Condenser, NA=1.25(when immersed in oil)	●

Note: ● Standard Outfit, ○ Optional



SME-F8M



SME-F8A



SME-F8B



SME-F8BH

Series Microscope

Specification		Model				
		SME-F8	SME-F8M	SME-F8A	SME-F8B	SME-F8BH
Viewing Head	Monocular Inclined at 45°,360°Rotatable	●	●	●		
	Sliding Binocular Head,Inclined at 45° (55mm-75mm)				●	
	Compensation Free Binocular Head,Inclined at 30°(55mm-75mm)					●
Eyepiece	WF10 X 18mm	●	●	●	●	●
Objective	Achromatic 4×、10×、40×(s)	●	●			
	Achromatic 4×、10×、40×(s)、100×(s)oil			●	●	●
Stage	Plain stage with slide clips Stage size:110mm×110mm	●	●			
	Mechanical stage Moving range:60mm×30mm			●	●	
	Double layer mechanical stage Stage size:110mm×126mm Moving range:70mm×30mm					●
Condenser	0.65 Condenser with disc diaphragm	●				
	0.65 Condenser with iris diaphragm		●			
	N.A.1.25 Abbe Condenser with iris diaphragm And filter			●	●	●
Focusing	Coaxial coarse & fine focusing adjustment Fine focusing scale value 0.002mm	●	●	●	●	●
Light Source	Incandescent lamp 220V/20W or 110V/20W	●	●	●		
	Halogen bulb 6V/20W,AC 220V/110V				●	●
Optional Accessory	Eyeppiece: WF16x,WF20x,P16x					
	Objective:20×、60×(s)					
	Compensation Free Binocular & Trinocular Head(48mm-75mm)					
	LED illumination					

Note: ● Standard Outfit, ○ Optional



XSP-170B



XSP-170BT

Biological Microscope XSP-170 Series

Specification		Model			
		XSP-170	XSP-170T	XSP-170B	XSP-170BT
Viewing Head	Compensation Free Binocular Head, Inclined at 30° (48mm -75mm)	●		●	
	Compensation Free Trinocular Head, Inclined at 30° (48mm -75mm)		●		●
Eyepiece	WF10 X 18mm	●	●		
	Wf10 X 22mm			●	●
Objective	Achromatic Objective: 4X, 10X, 40X(S), 100X(S) Oil	●	●		
	Infinity Achromatic Objective: 4X, 10X, 40X(S), 100X(S) Oil			●	●
Stage	Double layer mechanical stage	●	●	●	●
	Stage Size: 132mmx 140mm	●	●	●	●
	Moving Range: 70mmx 50mm	●	●	●	●
Condenser	N. A.1.25 Abbe condenser with iris diaphragm and filter	●	●	●	●
Focusing	Coaxial coarse & fine focusing adjustment, Fine focusing scale value 0.002mm Focusing range 30mm	●	●	●	●
Light Source	LED,brightness adjustable	●	●	●	●
Optional Accessory	Eyepiece: WF16x,WF20x,P16x				
	Achromatic Objective: 20X(S)、60X(S)				
	Plan objective: 4X,10X,20X(S),40X(S),60X(S),100X(S)Oil				
	Infinity plan objective: 4X,10X,20X(S),40X(S),60X(S),100X(S)Oil				
	Dual viewing head				
	Dark field and phase contrast attachment				
	1.3Mega、3.0Mega、5.0Mega、10.0Mega				
	COMS digital camera eyepiece				
	Photography attachment and CCD C-mount:0.5X、0.57X、0.75X				
	CCD Camera,colur1/3 High resolution 700 TV lines				

Note: ● Standard Outfit, ○ Optional



Biological Microscope XSP-116N Series

Model		XSP-116N				
Specification		Model				
		XSP-116N	XSP-116ND	XSP-116NDS	XSP-116NB	XSP-116NBS
Viewing Head	Monocular Inclined at 38 °	●				
	Monocular Inclined at 45 °, 360° Rotatable		●	●	●	●
Eyepiece	WF10X	●	●	●	●	●
Objective	Achromatic 4×、10×、40×(s)	●	●	●	●	●
Stage	Plain stage with slide clips	●				
	Stage size: 90mm X 90mm					
	Plain stage with slide clips		●	●	●	●
	Stage size: 95mm X 95mm					
Condenser	0.65 Condenser with disc diaphragm	●	●	●	●	●
Focusing	Coarse focusing adjustment	●	●		●	
	Coaxial coarse & fine focusing adjustment			●		●
Light Source	Transimitted Light LED, 110V/220V		●	●		
	Incident and transmitted Light LED, 110V/220V	●			●	●
Optional Accessory	Eyepiece: WF16×、WF20×、P16×					
	Objective: 20×、60×(s)					

Note: ● Standard Outfit, ○ Optional



Biological Microscope XSP-179 Series

Model		XSP-179				
Specification		Model				
		XSP-179	XSP-179A	XSP-179B	XSP-179C	XSP-179T
Viewing Head	Monocular head,inclined at 45 °, 360° rotatable	●	●	●		
	Compensation free binocular head,inclined at 30°(48mm - 75mm)				●	
	Compensation free tinocular head,inclined at 30°(48mm - 75mm)					●
Eyepiece	WF10X/18mm	●	●	●	●	●
Objective	Achromatic objective: 4×、10×、40×(s)	●	●			
	Achromatic objective: 4×、10×、40×(s)、100×(s)Oil			●	●	●
Stage	Plain stage with slide clips Stage Size: 120mm X 125mm	●	●			
	Double layer mechanical stage Stage Size: 135mm X 135mm Moving Range: 70mm X 50mm			●	●	●
Condenser	0.65 Condenser with disc diaphragm	●				
	0.65 Condenser with iris diaphragm		●			
	N.A.1.25 Abbe condenser with iris diaphragm and filter holder			●	●	●
Focusing	Separated coarse & fine focusing adjustment	●	●	●	●	●
Light Source	LED,brightness adjustable	●	●	●	●	●
Optional Accessory	Eyepiece: WF16×、WF20×、P16×					
	Achromatic objective: 20× (s) 、60×(s)					
	Reflector、Dual viewing head					

Note: ● Standard Outfit, ○ Optional



Biological Microscope XSP-30 Series

Specification		Model		
		XSP-30M	XSP-30B	XSP-30T
Optical System	Finite Optical System	●	●	●
Viewing Head	Monocular Head, Inclined at 30°， 360° Rotatable	●		
	Seidentopf Binocular Viewing Head,Inclined at 30°， 360° Rotatable		●	
	Seidentopf Trinocular Head，Inclined at 30°， 360° Rotatable			●
Eyepiece	Wide Field Eyepiece WF10X/18mm	●	●	●
	Wide Field Eyepiece WF16X/13mm	○	○	○
	Wide Field Eyepiece WF20X/11mm	○	○	○
Objective	Finite 195 Achromatic Objectives 4X 10X 40Xs 100Xs(oil)	●	●	●
	Finite Plan Achromatic CF Objectives 4X 10X 40Xs 100Xs(oil)	○	○	○
Nosepiece	Quadruple Nosepiece	●	●	●
Condenser	Abbe Condenser NA1.25 with Diaphragm and Filter	●	●	●
Focusing System	Coaxial Coarse and Fine Adjustment, Fine Division 0.002mm, Coarse Stroke 36mm	●	●	●
Stage	Double Layer Mechanical Stage 110x125mm	●	●	●
Illumination	3W LED Adjustable	●	●	●

Note: ● Standard ○ Optional



DM-107T Digital Microscope

Features:

- Integrated digital microscope, resolution 1280×1024（1.3M pixel）
- USB2.0 output, plug and unplug freely
- Support WINDOWS 2000/XP/VISTA 7 system,
- Economic features, widely used in academic demonstration and health system

Model				DM-107T
Viewing Head	Sliding Binocular Head, Inclined at 45°, Interpupilary 55-75mm			●
	Camera System	Valid Pixel	1280×1024 (1.3M Pixel)	●
		Output Mode	USB2.0	●
		Operation System	WINDOWS 2000 / XP/ VISTA/7	●
		Software	ScopeImage 9.0	●
		Range of Viewing Field	>75%	●
Eyepiece	Wf10×/ 18			●
	P16×/ 11			○
Nosepiece	Toward Quadruple Nosepiece			●
Objective	Achromatic Objective 4×、10×、40×、100×			●
Stage	Double Layers Mechanical Stage 140×140mm/ 75×40mm			●
Condenser	Abbe NA1.20 with Iris Diaphragm & Fliter			●
Focusing	Coaxial Coarse & Fine Adjustment System, Range 28mm, Fine Division 0.004mm			●
Illumination	Halogen Lamp 6V/20W，Brightness Adjustable			●

Note: ● Standard Outfit, ○ Optional



YJN-117M Biological Microscope

Description:

- New machining facility and advanced alignment technology
- Complete functions and outfit of binocular microscope
- Comfortable operation with updated and ergonomic design

Model		YJN-117M
Viewing Head	Compensation Free Binocular Head, Inclined at 30°, Interpupilary Distance 48-75mm	●
	Compensation Free Trinocular Head, Inclined at 30°, Interpupilary Distance 55-75mm	○
Eyepiece	WF10×/18	●
	P16×/11	○
Objective	Achromatic Objective 4×、10×、40×、100×	●
Nosepiece	Backward Quadruple Nosepiece	●
Stage	Double Layer Mechanical Stage 132×142mm/ 75×40mm	●
Focusing	Coaxial Coarse & Fine Adjustment, Moving Range 24mm, Fine Division 0.004mm	●
Condenser	Abbe NA 1.20 with Iris Diaphram & Filter	●
	Abbe NA 1.25 with Iris Diaphram & Filter	○
Illumination	S-LED, Brightness Adjustable	●
	Halogen Lamp 6V/ 20W, Brightness Adjustable	○
Phase Contrast Kit		○
Dark Field Attachment		○
Polarization Attachment		○

Note: ● Standard Outfit, ○ Optional



DM-117M Digital Microscope

Features:

- Integrated digital microscope, resolution 1280×1024（1.3M pixel）
- USB2.0 output, plug and unplug freely
- Support WINDOWS 2000/XP/VISTA/7 system,
- Economic features, widely used in academic demonstration and health system

Model			DM-117M
Viewing Head	Compensation Free Binocular Head, Inclined at 30°, Interpupilary Distance 48-75mm		●
	Camera System	Valid Pixel	1280×1024 (1.3M Pixel) ●
		Output Mode	USB2.0 ●
		Operation System	WINDOWS 2000 / XP/ VISTA/7 ●
		Software	ScopeImage 9.0 ●
		Range of Viewing Field	90% ●
Eyepiece	Wf10×/ 18		●
	P16×/ 11		○
Nosepiece	Backward Quadruple Nosepiece		●
Objective	Achromatic Objective 4×10×、40×、100×		●
Stage	Double Layers Mechanical Stage 132×142mm/ 75×40mm		●
Condenser	Abbe NA1.20 with Iris Diaphragm & Fliter		●
Focusing	Coaxial Coarse & Fine Adjustment System, Range 24mm, Fine Division 0.004mm		●
Illumination	LED 3W，Brightness Adjustable		●
	Halogen Lamp 6V/ 20W，Brightness Adjustable		○
Phase Contrast Kit			○
Dark-Field Attachment			○
Polarization Attachment			○

Note: ● Standard Outfit, ○ Optional



YJ-608



YJ-608A

Multi- Head Microscope

Features:

This series microscipe is designed for several people to observe one specimen together at the same time. It has infinity imaging system, high light illumination system and provide sharp & clear image. Particularly, it is suitable for discussion application in Clinic, Research and Teaching.

Specificaon		Model YJ-608	YJ-608A
Viewing Head	Compensation Free Binocular Head,Inclined at 30°, 3-Teaching Binocular Heads(55mm-75mm)	●	
	Compensation Free Binocular Head,Inclined at 30°, 4-Teaching binocular heads(55mm-75mm)		●
Eyepiece	WF10×/22mm	●	●
Objective	Infinity Achromatic Objective; 4×10×40×(s)100×(s)Oil	●	●
Stage	Double layer mechanical stage	●	●
	Stage Sixe:180mm×150mm	●	●
	Moving Range:75mm×50mm	●	●
Condenser	N.A.1.25 Abbe condenser with iris diaphragm and filter	●	●
Focusing	Coaxial coarse & fine focusing adjustment Fine division 0.002mm	●	●
Light Source	Halogen Bulb 12V30W. AC85V-230V Adjustable brightness	●	●
Illuminator	High-light Kohler illumination	●	●
Optional Accessory	Eyepiece: WF16×、WF20×、 Infinity Plan Objectives: 20×、60×(s)、 INFINITY Plan Achromatic Objectives:4×10× 20× 40×(s)60×(s)100×(s)Oil		



YJN-180M Biological Microscope

Features:

- Nice shape, excellent optical system and lexible outfit make you enjoy the microscope.
- It is an ideal instrument for biology, bacteriology, immunology, pharmacology and so on.

Model		YJN-180M
Viewing Head	Compensation Free Binocular Head, Inclined at 30°, 360° Rotatable	●
	Compensation Free Trinocular Head, Inclined at 30°, 360° Rotatable	○
Eyepiece	Wide Field Eyepiece EW10×/ 20	●
	Wide Field Eyepiece WF16×/ 11	○
Objective	Semi-plan Achromatic Objective 4×, 10×, 40×, 100×	●
	Plan Achromatic Objective 4×, 10×, 20×, 40×, 60×, 100×	○
	Infinite Plan Achromatic Objective 4×, 10×, 20×, 40×, 60×, 100×	○
Nosepiece	Backward Quadruple Nosepiece	●
	Quintuple Nosepiece	○
Stage	Double Layers Mechanical Stage 140×140mm/ 75×50mm	●
Condenser	NA 1.25 Abbe Condenser with Iris Diaphragm and Filter	●
Illumination	S-LED Illumination, Brightness Adjustable	●
	Halogen Lamp 6V/ 20W, Brightness Adjustable	○
	Kohler Illumination	○
Photo Attachment		○
Video Attachment	C Mount 1× & 0.5×	○
Filter	Blue Filter	○
	Green Filter	●
Polarization Set	Simple Polarization Set	○
Phase Contrast Kit	Simple Phase Contrast Kit	○
	Sliding Phase Contrast Kit	○
	Turret Phase Contrast Kit	○
Dark Field Attachment	Dark Field Condenser (Dry) NA 0.9 Dark Field Condenser (Oil) NA 1.25-1.36	○
Epi-fluorescent Attachment		○
Pointer	Green LED Pointer System	○

Note: ● Standard Outfit, ○ Optional



LCD Digital Microscope NLCD-307B

Description:

This LCD digital microscope is a brand new system with 8 inch TFT touching screen, friendly man-machine interface, powerful processing function, multiple peripheral interfaces, and comfortable mechanical design; it become a new generation microscope and easy to operate.
It is your good assistant in teaching, research and electronic checking!

Model		NLCD-307B
Digital part	3.0 Mega Pixels CMOS Chip	●
	Support Wifi and Bluetooth	●
Viewing Head	Compensation Free Binocular Head, 30° Inclined, Interpupillary 52-75mm	●
Eyepiece	Wide Field Eyepiece WF10X/18	●
Objective	Infinite Semi-Plan Achromatic Objective 4X、10X、40X、100X	●
Nosepiece	Quadruple Nosepiece	●
Stage	Double Layer Mechanical Stage 140X140/75X50	●
Condenser	Sliding-in Centerable Condenser NA1.25	●
Illumination	6V/20W Halogen Lamp Illumination, Adjustable Brightness	○
	LED Illumination, Adjustable Brightness	●
LCD Screen	8 Inch TFT Touching Screen	●
Output	USB2.0、Mini USB、HDMI	●
OS	Android 4.2.2	●
Software	TouchScope	●
SD Card	Support SD Card	○
Mouse		○

Note: ● Standard Outfit, ○ Optional



XSZ-N207

Binocular Microscope

Compensation free binocular head,30° inclined,360° rotatable,
Eyepiece: WF10X,P16X
Objectives:4X,10X,40X(S),100X(S) oil
Double layer mechanical stage 140x140mm
Moving range: 75x50mm
N.A. 1.25 Abbe condenser with
iris diaphragm and filter
Coaxial coarse and fine focusing adjustment,precision:0.002mm
S-LED illumination, brightness adjustable, with plano-concave mirror
Halogen Lamp: 6V/20W,110V/220V optional
Best seller



YJ-150 YJ-150T YJ-150AT YJ-150A

YJ-150 Series Biological Microscope

Specification		Model			
		YJ-150	YJ-150T	YJ-150A	YJ-150AT
Viewing Head	Sliding Binocular Head.Inclined at 4 5 ° (52mm -74mm)	●			
	Compensation Free Binocular Head . Inclined at 30 ° (55mm -75mm)			●	
	Sliding Trinocular Head.Inclined at 45 ° (52mm -74mm)		●		
	Compensation Free Trinocular Head . Inclinedat30 ° (55mm -75mm)				●
Eyepiece	WF10X	●	●	●	●
Objective	Achromatic objective: 4X,10X,40X (S),100X(S)Oil	●	●	●	●
Stage	Double layer mechanical stage	●	●	●	●
	Stage size:180x150mm	●	●	●	●
	Moving range :75x50mm	●	●	●	●
Condenser	N. A.1.25 Abbe condenser with iris diaphragm & filter	●	●	●	●
Focusing	Coaxial coarse & fine focusing adjustment with rack and pinion mechanism Fine focusing scale value 0.002mm	●	●	●	●
Collector	High brightness Kohler illumination	●	●	●	●
Light Source	Halogen tungsten bulb12V/20W.AC85V- 230V	●	●	●	●
	Adjustable brightness				
Optional Accessory	1. Eyepieces: WF16X,WF20X,P16X 2. CMOS electronic eyepiece 1.3 Mega pixels 3. Plan-Achromatic objectives: 4X,10X,20X(S),40X(S),60X(S),100X(S)Oil 4. Semi-plan objectives: 4X,10X,20X(S),40X(S),60X(S),100X(S)Oil 5. Infinity plan objectives: X,10X,20X(S),40X(S),60X(S),100X(S)Oil 6. Phase contrast attachment 7. Photo and CCD atachment				

Note: ● Standard Outfit, ○ Optional



YJ20B



YJ20T

YJ20 Series Microscope

Features:

YJ20 series microscope has an advanced design, stable ,safety and efficient. which makes the operators to use the microscope more simple.
This microscope can also be used with many accessories to realize bright field, simple polarization, dark field, and phase contrast.
This microscope can be used in a variety of biological applications,such as teaching and laboratory.

Model		YJ20B	YJ20T
Optical system	Infinity achromatic optical system	●	●
Observation tube	Binocular head , 30°inclined, 54～75mm interpupillary distnace	●	
	Trinocular head,30°inclined, (with 0/100 or 20/80 light splits)		●
Eyepiece	High eyepoint widefield plan eyepiece PL10X/18mm,with ±5 degrees diopter control	●	●
	High eyepoint widefield plan eyepiece PL10X/20mm,with ±5 degrees diopter control	○	○
Objective	Infinity plan achromatic objective 4X、10X、40XS、100XSO	●	●
	Infinity plan achromatic objective 2X、20X、60X	○	○
Nosepiece	Backward quadruple nosepiece	●	●
	Backward quintuple nosepiece	○	○
Focusing adjustmnet	Coaxial coarse and fine focusing adjustment,with limited and tension adjustment. coarse adjustment range: 25mm，fine adjustment precision：0.002mm.	●	●
Stage	Coaxial mechanical stage in140X132mm size and 76×50mm travel range.	●	●
Condenser	Koehler N.A.1.25 condenser(with socket for phase contrast and dark field sliders)	●	●
Illumination	Main supply 100V-240V, 3 watt LED lamp with intensity control （fixed center）	●	●
	Main supply 100V-240V, philips 6V/20W halogen lamp with intensity control(fixed center)	○	○
Photography adapter	3.2x photo eyepiece ,photo tube （with PK mount）		●
Vedio adapter	0.35X CTV	○	○
	0.5X CTV	○	○
	1.0X CTV	○	○
Other options	Phase contrast sliders for condenser （use with phase contrast objective）	○	○
	Dark field slider for condenser	○	○
	Simple polarization (with analyser and polarizer)	○	○
Note: ● Standard Outfit, ○ Optional		○	○



YJ30 Series Binocular Microscope

Features:

- Infinity color corrected optical system with high quality micro-technique presents super excellent micro-image at any observation.
- Wide-field high eye-point eyepieces and plan achromatic objectives make the effect of fluorescence observation more perfect. Anti-fungus optial system
- Outstanding appearance design and ergonomics structure design, long time use without feeling tired.
- With the design of security lock and safe limits, it is much more secure, stable. and can be kept for long time.
- Various microscopic examinations can be fulfilled, such as bright-field, dark-field, phase contrast, fluorescence, simple polarizing and so on

Model		YJ30
Optical system	Infinity corrected achromatic optical system	●
Eyepiece	PL10X/20T High eye-point wide-field plan eyepiece, diopter control+/-5 adjustable	●
	PL10X/22T High eye-point wide-field plan eyepiece, diopter control+/-5 adjustable	○
0bjective	Infinity plan achromatic objective 4X、10X、20X、40X、100X	●
	Infinity phase contrast objective 10X、20X、40X、100X	○
	Infinity semi-apochromatic fluorescent objective 4X、10X、20X、40X、100X	○
Viewing head	30°gemel binocular viewing head with 360° rotatable eyepiece tube, interpupillary adjustable distance: 50-75mm	●
	30°gemel trinocular viewing head with 360° rotatable eyepiece tube, interpupillary adjustable distance: 50-75mm, fixed spectroscopical ratio R:T=80%: 20%	○
	30°gemel trinocular viewing head(dedicated for fluorescence) with 360° rotatable eyepiece tube, interpupillary adjustable distance: 50-75mm, fixed spectroscopical ratio R:T= 50%:50%	○
	30°gemel digital viewing head(with 3.0/5.0 mega pixels)	○
Nosepiece	Reversed quadruple nosepiece	○
	Reversed quintuple nosepiece	●
Stage	150x140mm mechanical stage, moving range: 76x50mm, precision: 0.1mm, with damping clips	●
Condenser	N.A.1.25 Koehler illuminator condenser(with socket for phase contrast and dark-field accessories)	●
Focus adjustment	Integrated all-metal high-pressure die-casting (HPDC) body, precision transmission mechanism with pinion and rack. Coarse focusing scope: 30mm, with tightness adjustment and place limit set, fine precision: 0.002mm	●
LED fluorescent reflected illumination	Uv2 ultraviolet long-pass type LED module, with intensity adjusting knob, and switch knob for bright field and fluorescence, central wavelength: 365mm	○
	B4 LED fluorescence module dedicated for TB, with with intensity adjusting knob, and switch knob for bright field and fluorescence, central wavelength: 455mm	○
	B1 band-pass type fluorescence module, with intensity adjusting knob, and switch knob for bright field and fluorescence, central wavelength:470mm	○
	G1 band-pass type LED fluorescence module, with intensity adjusting knob, and switch knob for bright field and fluorescence, central wavelength: 560mm	○
	Other various LED module for option, which can be customized or according to the needs of clinical diagnosis.	○
Mercury reflected illumination	Mercury reflected fluorescent illuminator, 100W mercury lamp house, 100W DC mercury bulb(OSRAM/domestic)	○
Transmitted illumination	100V-240V_AC50/60Hz wide range voltage, single high brightness 3W LED(predetermine filament center), intensity continuously adjustable	●
	100V-240V_AC50/60Hz wide range voltage, Philips 6V/30W halogen bulbs (predetermined filament center), intensity continuously adjustable	○
External battery supply	Power supply for at least 8 hours, rechargeable	○
Camera accessory	1xCTV/0.5xCTV/0.35xCTV、3.2x photo ocular 、photo tube(with PK mount or MD mount), C-mount and relay lens	○
Other optional	Dark-field accessory, phase contrast accessory, polarizer/analyzer	○
Note: ● Standard Outfit, ○ Optional		



YJ5B



YJ5M



YJ5T



YJ5D

YJ5 Series

Features:

- The personal belonging of young scientists E5 series biological microscope with elaborate appearance and reliable quality, is beautiful and practical. Its easy operation and clear image inspire students' imagination and interesting of microscopy world, is helpful to explore the mystery of life science. New generation of scientists are born fromhere.
- Compact and solid, innovative frame High rigid but small as E5 series is, specially designed for students. The frame with hollow design is lightweight but stable, easy to carry. Pure white body with blue on the both sides, is fresh and vivid.
- Ergonomics design According to different interpupillary distances and eyesights of different people, the spacing of binocular tubes can be adjustable from 50mm to 75mm and the left tube with the focusing device, diopter is ±5 adjustable.

Model		YJ5M	YJ5B	YJ5T	YJ5D
Optical system	Infinite color corrected optical system	●	●	●	●
Eyepiece Objective	30° inclined monocular head	●			
	30° inclined binocular head, interpupillary distance: 50-75mm, ±5 diopter adjustable		●		
	30° inclined trinocular head, splitting ratio R:T=80:20, interpupillary distance: 50-75mm, ±5 diopter adjustable			●	
	30° inclined digital viewing head, built-in 3.0 mega pixels CMOS, USB output; interpupillary distance: 50-75mm, ±5 diopter adjustable				●
Eyepiece	Wide field plan eyepiece PL10X/18mm without reticle;	●	●	●	●
	Wide field plan eyepiece PL10X/18mm with reticle;	○	○	○	○
	Wide field plan eyepiece PL10X/18mm with reticle and pointer	○	○	○	○
Objective	Achromatic objective(4X, 10X, 40X, 100X)	●	●	●	●
	Plan achromatic objective(4X, 10X, 40X, 100X)	○	○	○	○
Nosepiece	Quadruple nosepiece	●	●	●	●
Frame	Coaxial coarse and fine adjustment, with coarse adjustment stop and tightness adjustment, range: 25mm, precision: 0.002mm.3W LED, center presetting, intensity adjustable, external wide voltage AC adapter, 100V-240V_AC50/60Hz input, DC7.5V 2A output.	○	○	○	○
	Coaxial coarse and fine adjustment, with coarse adjustment stop and tightness adjustment, range: 25mm, precision: 0.002mm.3W LED, center presetting, intensity adjustable, external wide voltage AC adapter, 100V-240V_AC50/60Hz input, DC6V 2A output.	○	○	○	○
	Coaxial coarse and fine adjustment, with coarse adjustment stop and tightness adjustment, range: 25mm, precision: 0.002mm.3W LED, center presetting, intensity adjustable, internal switch 100V-240V_AC50/60Hz	●	●	●	●
	Coaxial coarse and fine adjustment, with coarse adjustment stop and tightness adjustment, range: 25mm, precision: 0.002mm.3W LED, center presetting, intensity adjustable, internal 4 pieces rechargeable batteries, external wide voltage battery charger, 100V-240V_AC50/60Hz input, DC6V 1A output.	○	○	○	○
Stage	132mmX140mm double layer mechanical stage, moving range: 50mmX76mm, precision: 0.1mm.	●	●	●	●
Condenser	N.A.1.25 Abbe condenser with iris diaphragm	●	●	●	●
Others	Filters for transmitted light: blue/yellow/green	○	○	○	○
	Camera accessories: 0.35X/0.5X/1X focusing C-mount	○	○	○	○

Note: ● Standard Outfit, ○ Optional



YJ-B1



YJ-B1D

YJ-B1 Series

Features:

- A new generation of infinity color corrected optical systems with wild-field high eye-point eyepieces and plan achromatic objectives, presents you sharp and bright micro-images.
- Integrated T-shaped body with firm structure and ergonomic design makes comfortable operation.
- Different kinds of accessories, more functions, achieve more methods of observation and suit for all kinds of detections orexperiments.
- New professional fluorescence disc filter system with high-quality displays excellent performance.
- Intelligent Chinese fluorescence image processing software and digital image processing software, meets any request of the most professional picture processing.

Model		YJ-B1	YJ-B1D
Optical system	Infinity color corrected optical system	●	●
Eyepiece	Wild-field high eye-point plan eyepiece:PL10X/22mm (with reticle for optional), PL15X/16mm	●	●
Objective	Infinity plan achromatic objectives 4x, 10x, 20x, 40xS,100xSO	●	●
	Infinity plan phase contrast objectives 10x, 20x, 40x, 100x	○	○
	Plan Semi-apochromatic fluorescent objectives 4x, 10x, 20x, 40xS, 100xSO	○	○
Viewing head	30°inclined gemel binocular head, 360°rotatable, interpupillary distance range:54-75mm,	●	
	diopter adjusting range: ±5 diopter either side.	○	
	30°inclined gemel trinocular head, splitting ratio for binocular : trinocular = 50:50,interpupillary distance range:54-75mm, diopter adjusting range: ±5 diopter either side.	○	
	30°inclined gemel fluorescent trinocular head, splitting ratio for binocular : trinocular = 100: 0 or 0:100,interpupillary distance range:54-75mm,diopter adjusting range:±5 diopter either side	○	
	Efficient infinity gemel binocular head, 30°-60° adjustable elevation, 360°rotatable,interpupillary distance range: 54-75mm, diopter adjusting range: ±5 diopter either side.	○	
	30°inclined digital gemel binocular head, interpupillary distance range:54-75mm, diopter adjusting range: ±5 diopter either side, internal 2/3'', 1.4 million pixels CCD camera,USB2.0 output		●
Nosepiece	Revolving quintuple nosepiece	●	●
	Revolving sextuple nosepiece	○	○
Stage	175x145mm double layer mechanical stage, with X,Y moving hand wheel in right hand, moving range 76x50mm, precision: 0.1mm, damped specimen retainer	●	●
Body	Coaxial focus system with upper limit and tension adjustment; coarse adjustment range: 25mm, fine adjustment precision:0.002mm;90-240V built-in wideband voltage transformer	●	●
Reflection fluorescence illumination system	XYRFLP reflection fluorescent Koehler illumination with alterable field diaphragm and aperture diaphragm (all center adjustable)	○	○
	XYLH100HG mercury lamp housing with viewfinder; the center and the focal length of the viewfinder or filament can be adjusted	○	○
	U2-RFLT100 digital power control box of mercury lamp, voltage 90 ~ 245VAC	○	○
	Imported OSRAM 100W DC mercury bulb, mercury bulb centered to objective, disc fluorescence filter: UV/V/B/G, 30ND25-RFLP attenuation plate	○	○
Transmission illumination system	6V30W halogen bulb, pre-centered, intensity adjustable; telecentric Koehler illumination with alterable field diaphragm	●	●
	N.A.1.2/0.22 swing-out type achromatic condenser; with alterable aperture diaphragm; the center of condenser can be adjusted by rack and pinion.	○	○
	Φ45mm filter (yellow/green/blue/neutral)	○	○
Condenser	N.A.1.2/0.22 swing-out type achromatic condenser with marked iris diaphragm	●	●
	NA1.25 quintuple disc contrast condenser	○	○
CCD Adapter	2/3x CTV, 1/2x CTV, 1/3x CTV	○	

Note: ● Standard Outfit, ○ Optional



T series

Multifunctional Digital LCD Microscope

(Colors Optional: Blue, Green, Red & Black)

1.Built in 12 Mega digital professional camera and integrated snapshot, video and storage no need to connect to other external equipments.
2.9 Inches HD LCD screen and easy to share the clear microscopic views for many people
3.High-capacity storage to record the wonderful images
4.1080P/30fps HD video and HDMI HD
5.Four colors for your choice, Black, Red, Green and Blue.

Model / Specifications	TS0	TS1-	TS2-	TS3-	TS1	TS2	TS2+	TS3	TS4
LCD Screen	9 Inches HD	9 Inches HD	9 Inches HD	9 Inches HD	9 Inches HD	9 Inches HD	9 Inches HD	9 Inches HD	9 Inches HD
LCD Resolution	1280*800	1280*800	1280*800	1280*800	1280*800	1280*800	1280*800	1280*800	1280*800
Image Resolution	NO	4M	4M	4M	5M	5M	5M	12M	12M
Video Resolution	NO	720P/30fps	720P/30fps	720P/30fps	720P/30fps	720P/30fps	720P/30fps	10800P/30fps	10800P/30fps
Photo/Video Playback	NO	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Data Output	NO	USB	UP HDMI/ USB	HDMI(Double) /USB/VGA	USB	UP HDMI/USB	DOWN HDMI /USB/VGA	HDMI(Double) /USB/VGA	HDMI(Double) /USB/VGA
External Equipments	NO	PC	PC/TC /Projector	PC/TC/Monitor /Projector	PC	PC/TV /Projector	PC/TV/Monitor /Projector	PC/TV/Monitor /Projector	PC/TV/Monitor /Projector
Measurement	NO	Crosshair	Crosshair	Crosshair	Crosshair	Crosshair	Crosshair	Crosshair	Crosshair
Positioning	NO	Crosshair /Arrow pointer	Crosshair /Arrow pointer	Crosshair /Arrow pointer	Crosshair /Arrow pointer	Crosshair /Arrow pointer	Crosshair /Arrow pointer	Crosshair /Arrow pointer	Crosshair /Arrow pointer
Coordinate Colors	NO	Black/White/ Red/Blue /Green	Black/White/ Red/Blue /Green	Black/White/ Red/Blue /Green	Black/White/ Red/Blue /Green	Black/White/ Red/Blue /Green	Black/White/ Red/Blue /Green	Black/White/ Red/Blue /Green	Black/White/ Red/Blue /Green
Application	Bioligical Microscope	Bioligical Microscope	Bioligical Microscope	Bioligical+ Stereo Microscope	Bioligical+ Stereo Microscope	Bioligical Microscope	Bioligical Microscope	Bioligical+ Stereo Microscope	Biological+Stereo Metallurgical Microscope
Biological Objective Lens	4*/10* /20*/40*	4*/10* /20*/40*	4*/10* /20*/40*	4*/10* /20*/40*	4*/10* /40*/100*	4*/10* /40*/100*	4*/10* /40*/100*	4*/10* /40*/100*	4*/10* /40*/100*
Stereo Objective Lens	NO	NO	NO	1*/2*	No	No	No	1*/2*	1*/2*
Digital Zoom	NO	8x	8x	8x	8x	8x	8x	8x	8x
Total Magnifications	100x~1360x	100x~1360x	100x~1360x	25x~1360x	70x~2380x	70x~2380x	70x~2380x	20x~2380x	20x~2380x
Storage	NO	Sd Card	SD Card	SD Card	SD Card	SD Card	SD Card	SD Card	SD Card
Color Effects	Colored/Black& White/Negative	Colored/Black& White/Negative	Colored/Black& White/Negative	Colored/Black& White/Negative	Colored/Black& White/Negative	Colored/Black& White/Negative	Colored/Black& White/Negative	Colored/Black& White/Negative	Colored/Black& White/Negative
Focusing System	Coaxial Coarse/ Fine Focus System	Coaxial Coarse/ Fine Focus System	Coaxial Coarse/ Fine Focus System	Coaxial Coarse/ Fine Focus System	Coaxial Coarse/ Fine Focus System	Coaxial Coarse/ Fine Focus System	Coaxial Coarse/ Fine Focus System	Coaxial Coarse/ Fine Focus System	Coaxial Coarse/ Fine Focus System
Nosepiece	Quadruple	Quadruple	Quadruple	Quadruple	Quadruple	Quadruple	Quadruple	Quadruple	Quadruple
Stage	Ddouble Layers Mechanical Stage	Ddouble Layers Mechanical Stage	Ddouble Layers Mechanical Stage	Ddouble Layers Mechanical Stage	Ddouble Layers Mechanical Stage	Ddouble Layers Mechanical Stage	Ddouble Layers Mechanical Stage	Ddouble Layers Mechanical Stage	Ddouble Layers Mechanical Stage
Condenser	Sliding-in Condenser	Sliding-in Condenser	Sliding-in Condenser	Sliding-in Condenser	Sliding-in Condenser	Sliding-in Condenser	Sliding-in Condenser	Sliding-in Condenser	Sliding-in Condenser
Led Illumination	Transmitted Light	Transmitted Light	Transmitted Light	Transmitted Light	Transmitted Light	Transmitted Light	Transmitted Light	Transmitted Light	Transmitted Light
Input voltage	12V~19V	12V~19V	12V~19V	12V~19V	12V~19V	12V~19V	12V~19V	12V~19V	12V~19V



YJ-403 Series
Inverted Biological Microscope

YJ-403 Series

	Specification		YJ-403	YJ-403T	YJ-403A	YJ-403AT
Viewing head	Compensation free binocular head.Inclined at 45° (50mm-75mm)		●		●	
	Compensation free trinocular head.Inclined at 45° (50mm-75mm)			●		●
Eyepiece	WF10X/ 20mm		●	●		
	WF10X/ 22mm				●	●
	WF10X/18mm with cross graduation of 0.1mm scale		○	○	○	○
Objective	Long working distance plan-objective	LWDPL4X/0.1W.D.25mm	●	●		
		LWDPL10X/0.25 phase contrast W.D.11mm				
		LWDPL20X/0.4 phase contrast W.D.8mm				
		LWDPL40X/0.6W.D. 3.8mm				
	Infinity plan-objective	LWDPL4X/0.1W.D .25mm			●	●
		LWDPL10X/0.25 phase contrast W.D.12mm				
		LWDPL20X/0.4 phase contrast W.D.10mm				
		LWDPL40X/0.6W.D .7mm				
	Long working distance objective	LWDPL10X	○	○	○	○
		LWDPL20X	●	●	●	●
	Long working distance phase contrast objective	LWDPL40X	○	○	○	○
Stage	Double layer mechanical stage		●	●	●	●
	Stage size: 242mmx 172mm					
	Central stage: Φ110mm					
	Moving range: 75mm×50mm					
Condenser	N.A0.3 Abbe condenser W.D.75mm		●	●	●	●
Focusing	Coaxial coarse & fine focusing adjustment with rack and pinion mechanism Fine focusing scale value 0.002mm		●	●	●	●
Phase Contrast Sliding Plate	Center of phase contrast ring plate adjustable		●	●	●	●
Centering Telescope	Centering telescope		●	●	●	●
Filter	Blue,green,yellow and froster glass		●	●	●	●
Light Source	Halogen bulb 12V/30W		●	●	●	●
	Adjustable brightness		●	●	●	●
Fluorescence Attachment	B.G wave band,220V(110V)/100W mercury lamp		○	○	○	○
Photograghy Attachment	Photography connecting tube,adapter with MD or PK mount ,4X photography eyepiece		○	○	○	○
Electron Eyepiece	1.3 or 3.0 Mega pixels CMOS electronic eyepiece		○	○	○	○

● "standard outfit. Mark:" ○ "optional parts.



IBM-100
Inverted Biological Microscope

Features:

- Excellent Optical Function with Infinitive Optical System.
- Innovative Stand structure, Sharp Image Display, Convenient and Special for Viewing Incubating Cell Tissue.

Model			IBM-100
Viewing Head	Seidentopf trinocular head inclined at 30°, Interpupillary 48-75mm		●
Eyepiece	High-point , extra wide field eyepiece EW10×/ 22		●
Objective	LWD Infinite Plan Objective	4×/ 0.1, WD 17.3mm	●
		10×/ 0.25, WD 10mm	○
		20×/ 0.4, WD 5.1mm	○
		40×/ 0.6, WD 2.1mm	●
	Infinite Plan Phase Objective	PH10×/ 0.25, WD 10 mm	●
		PH20×/ 0.4, WD 5.1mm	●
		PH40×/ 0.65, WD 2.1mm	○
Nosepiece	Quintuple Nosepiece		●
Condenser	ELWD Condenser NA 0.3, LWD 72mm (Without Condenser 150mm)		●
Centering	Centering Telescope (Φ30MM)		○
Phase Annulus	10×-20×、40×Phase Annulus Plate Adjustable		●
	10×-20×、40×Phase Annulus Plate Adjustable		○
Stage	Plain Stage 160×250mm		●
	Glass Insert		●
	Attachable Mechanical Stage, X-Y Coaxial Control，Moving Range 120×78mm		○
	Auxiliary Stage 70×180mm		●
	Terasaki Holder		○
	Φ35mm Petri Dish Holder		○
	Φ54mm Slide Glass Holder		○
Focusing	Coaxial Coarse and Fine Adjustment, Vertical Objective Movement Coarse Stroke 37.7mm per Rotation, Fine Stroke 0.2mm per Rotation		●
Illumination	Halogen Lamp 6V/ 30W		●
	LED		○
Filter	Diameter 45mm, Blue、Green and Ground Glass		●
Photo Attachment			○
Video Adapter	Video Adapter with C Mount		○

Note: ● Standard Outfit, ○ Optional



IBM-I41
Inverted Biological Microscope

With the core concept of energy conservation and environmental protection, IBM-I41 is more intelligent and longer lifetime.Specially designed for cell tissue culture, IBM-I41 with high contrast and resolution, highlighting the outline and internal structure of cells, meets the needs of basic laboratory research.

Model		IBM-141
Optical System	Infinity color corrected optical system	●
Viewing Head	45° inclined trinocular head, 360° rotatable, inter-pupillary range: 50-75mm, fixed splitting ratio=5:5	●
Eyepiece	High eye-point wide field plan eyepiece PL10X/22mm, with adjustable diopter, micrometer attachable	●
	High eye-point wide field plan eyepiece PL15X/16mm, with adjustable diopter	○
Objective	Infinity plan achromatic objectives 4X/10X/20X/40X/60X	●
	Infinity plan phase contrast objectives 4X/10X/20X/40X	○
	Infinity plan fluorescent objectives 4X/10X/20X/40X/60X	○
	Infinity plan phase contrast and fluorescent objectives 20X/40X	○
Nosepiece	Quintuple nosepiece	●
Frame	Biological frame with coaxial focus system, coarse range: 9mm (6.5mm up and 2.5 down), fine precision: 0.002mm. With upper limit and tension adjustment.	○
	External wide voltage transformer, 100V-240V input and 12V5A output; 5W LED with light indicator, intensity adjustable. With infrared induction.	●
Stage	215mm X 250mm fixed stage; mechanical stage attachable, moving range: 120mm X 80mm; extension plate; slide holder;	●
	Petri dish holder; Teraseki holder; metal plate; glass plate.	●
Condenser	NA0.3 long working distance condenser, demountable.	●
Camera adapter	0.35X, 0.5X, 0.65X, 1X C-mount adapter	○
Others	Color temperature change filter, green interference filter, infrared eliminate filter, phase contrast kit and attenuation filter ND25/ND50	○

XT-2A
Stereo Microscope

Binocular Stereo Microscope,
Eyepiece: WF10X
Objective: 2X
Coarse Focusing Range: 40mm
Working Distance: 70mm



XT-2B
Stereo Microscope

Binocular Stereo Microscope,
Eyepiece: WF10X
Objective: 4X
Coarse Focusing Range: 40mm
Working Distance: 60mm



XT-3A
Stereo Microscope

Binocular Stereo Microscope
Binocular head, 45oinclined
Eyepiece: WF10X
Objective: 2X,4X
Coarse Focusing Range: 40mm
Working Distance: 57mm
Optional: 360° rotatable.



XT-3B
Stereo Microscope

Binocular Stereo Microscope
Binocular head, 45oinclined
Eyepiece: WF10X
Objective: 2X,4X
Illumination: Top light, halogen lamp
Coarse Focusing Range: 40mm
Working Distance: 57mm
Optional: 360° rotatable.



XT-3C
Stereo Microscope

Binocular Stereo Microscope
Binocular head, 45o inclined
Eyepiece: WF10X
Objective: 2X,4X
Illumination: Incident and transmitted, halogen lamp
Coarse Focusing Range: 40mm
Working Distance: 57mm
Optional: 360° rotatable.



XT-3D
Stereo Microscope

Binocular Stereo Microscope,
45o inclined,360o rotatable,
Eyepiece: WF10X
Objective: 2X/4X
Focus Range: 40mm
Illumination: Incident and transmitted



LTX-112B
Stereo Microscope

Binocular Stereo Microscope,
45o inclined, 360o rotatable,
High Point Wide Field Eyepiece: HWF10X
Long Working Distance Objective: 2X/4X
Illumination: Incident and transmitted, brightness adjustable
Optional:
Eyepiece: HWF15X,HWF20X
Objective 1X,3X



XTD-206
Stereo Microscope

Binocular 45o inclined,360o rotatable,
Eyepiece: WF10X
LED illumination
Objectives: 2X,4X



ST-2A/2B
Stereo Microscope

Binocular Stereo Microscope
Binocular head, 45°inclined
Eyepiece: WF10X
Objective: 4X
Coarse Focusing Range: 40mm
Working Distance: 60mm
Optional:
Objective: 1X, 2X, 3X
ST-2A Without Illumination
ST-2B With Illumination:
Incident light, halogen lamp



ST-2C
Stereo Microscope

Binocular Stereo Microscope
Binocular head, 45°inclined
Eyepiece: WF10X
Objective: 4X
Illumination: Incident and transmitted light, halogen lamp
Coarse Focusing Range: 40mm
Working Distance: 60mm
Optional:
Objective: 1X, 2X, 3X



Dissection Microscope XSJ-3

Eyepiece: 10X
Total magnification: 10X
Illumination: Reflector
Working Stage:
70mm X 60mm



Dissection Microscope XSJ-1

Eyepiece: 10X
Objective: 2X
Total magnification: 20X
Illumination: Reflector
Working Stage:
70mm X 60mm
4X objective optional.
20X eyepiece optional.





ST6013-B4
Base: B4 Arm Style Flat Base



ST6013-B6
Base: B6 Column Oblique Flat Base



ST6013-B7
Base: B7 Arm Oblique Flat Base



ST6013-B8L
Base: B8l Column Led Light Base



ST6013-B9L
Base: B9l Vertical Arm Led Light Base



ST6013-J1
Base: J1 Column Fan Base



ST6013-J2
Base: J2 Arm-in Fan Base

St6013 Series Stereo Microscopes

St6013 series stereo microscopes, have good image, high resolution, large depth of field, wide field of view, long working distance, easy to operate and comfortable, with quality optics and durable operating mechanism. New design shows the good resolution and true color images, to meet the modern biomedical research, modern electronic industry and other technology industries.

Characteristics:

- Optical system coated with special coating, to form the field of view clear and images bright and flat
- Stereo lens combinations 2X/4X, 1X/2X, 1X/3X for selection
- Standard magnification 20X/40X, and other optional auxiliary lens, the magnification range: 5X~160X
- Standard working distance of 100mm, creating enough space for use
- 10X wide field eyepieces, FOV 20mm, high eye point design, more suitable for research and observation
- Observation Head 45 deg; inclined binocular diopter adjustable, easy to operate and comfortable
- Vertical hand wheel high repetition accuracy focusing
- Best eye point height, to ensure different vision users get a clear image

Technical Data Sheet

Magnification	Standard configuration : 20X/40X, with optional eyepieces and auxiliary objectives expandable 5X~ 160X, vertical shift
Objective	2X / 4X, (1X / 2X, 1X / 3X optional)
Eyepiece	High eye point wide field eyepiece WF10X/20mm
	High eye point wide field eyepiece WF15X/15mm (optional)
	High eye point wide field eyepiece WF20X/10mm (optional)
Observation head	Binocular head , 45° inclined 360° rotatable , interpupillary distance 54~76mm, bilateral diopter adjustment (±5 diopters)
Working distance	Standard configuration : 100mm (effective distance) with optional auxiliary lens extended to 30mm-165mm
Auxiliary lens	0.5X/165mm, 1.5X/45mm, 2X/30mm (optional)
Focus brackets	Focusing hand wheel adjustable elastic , lifting range 50mm
Stand and Illumination	As above pictures

Note: ● Standard Outfit, ○ Optional



ZSM-7045

Zoom Stereo Microscope

- High quality optical system, and optical components coated with special coating created a high-quality optical system.
- Standard magnification 7X～45X. Use optional auxiliary lens, the magnification can be 3.5X～180X.
- Long working distance to create enough space.
- Ergonomic design, feel less fatigue after long time use.

Model	ZSM-7045
Eyepiece	Wide field high eyepiont eyepiece WF10X/20mm（can mount micrometer）
Viewing Head	ZSM7045：Binocular head, 45° inclined, 360°rotatable, zoom objective 0.7X-4.5X, working distance 100mm. inter-pupillary range 54~76mm, both tube diopter adjustable（±5）
Auxiliary Lens	0.5X/165mm. 0.75X/105mm. 1.5X/45mm. 2X/30mm,all optional
Stand	ZSMST2 pillar type transmission stand, top & bottom halogen illuminator 12V15W (brightness adjustment).
	ZSMST3 pillar type transmission stand, top illuminator with 12V15W halogen bulb, brightness adjustment.bottom illuminator with 7W fluorescent light, fixed brightness (optional)
Other light source	Ring light/LED/Fiber,all optional



ZSM-405

Zoom Stereo Microscope

- High quality, high function and excellent cost performance.
- Best choice with ergonomic design, sharp image display and wide viewing field.
- Providing a wide viewing field of Φ20mm with zoom ratio of 1:4.5. Ideal instrument in academic, medical and industrial fields.

Model			ZSM-405
Viewing Head	Binocular head, inclined at 45°		●
	Binocular head, inclined at 60°		○
	Trinocular head, inclined at 45°		○
Eyepiece	Wide field eyepiece 10×/ Φ20		●
	15×/ 16		○
	20×/ 12		○
	10× Eyepiece with cross hair		○
Objective	Zoom objective	0.7×~3×	○
		1×~4.5×	●
	Auxiliary objective	2×、0.75X、0.63X、0.5X	○
Zoom Ratio	1:4.3		○
	1:4.5		●
Working Distance	97mm		●
Illumination	LED Reflection illumination		●
	LED Transmission illumination		●
Photo Attachment			
Video Attachment			

Note: ● Standard Outfit, ○ Optional



ZSM-800 Series

Zoom Stereo Microscope

- Excellent Image Quality & Optical Performance with Infinity Parallel Optical System.
- Comfortable Operation with Ergonomic Design Principle.
- With LED light for both incident and transmitted illumination, Providing even illumination and life expectancy can reach 6000 hours.
- A Wide Range of Accessories to be Equipped with the Microscope for Multi-purposelt is an Outstanding Assistant in Industrial, Medical and Scientific Research Areas.

Model		ZSM-806	ZSM-808	ZSM-810
Drawing Tube	Binocular Head, 20° Inclined, Interpupillary distance 55-75mm	●	●	●
	Tilting Binocular Head, 0°-35° Inclination	○	○	○
	Photo Attachment(one photo tube)	○	○	○
	Photo Attachment(two photo tube)	○	○	○
Eyepiece	EW10×/22	●	●	●
	WF15×/16	○	○	○
	WF20×/12	○	○	○
Zoom Objective	0.8×-5×	●	○	○
	0.8×-6.4×	○	●	○
	0.8×-8×	○	○	●
Objective	Plan Achromatic Objective 1×	●	●	●
	Plan Apochromatic Objective 0.5×	○	○	○
	Plan Achromatic Objective 2×	○	○	○
	Achromatic Objective 0.3×	○	○	○
Zoom Ratio	1: 6	●	○	○
	1: 8	○	●	○
	1: 10	○	○	●
Working Distance	78mm	●	●	●
Focusing	Focusing Range 105mm	●	●	●
Illumination	Transmission or Reflection LED Illumination, Brightness Adjustable	●	●	●
	Coaxial Illumination	○	○	○
Fluorescent Attachment		○	○	○
Dark Field Attachment		○	○	○
Photo/ Video Attachment		○	○	○
Simple Polarization Set		○	○	○
Iris Diaphragm		○	○	○
Mechanical Stage		○	○	○
Temperature Stage		○	○	○
Universal Table Stand		○	○	○
D Stand		○	○	○
Coaxial Coarse & Fine Focusing Unit		○	○	●

Note: ● Standard Outfit, ○ Optional



ZSM-800LCD Series

LCD Digital Zoom Stero Microscope

- ZSM-800LCD series are new generation microscope with micro computer which drives the operation system WinCE5.0 and display system.
- It supports 100M Ethernet network and Wi-Fi wireless net, can communicate with PC.
- 8.4 inch TFT touching screen, friendly man-machine interface, multiple peripheral interfaces and powerful processing function, make it very easy to operate. It can be widely used in various optical micro fields, such as teaching, researching, electronic checking and so on.

Model		ZSM-806LCD	ZSM-808LCD	ZSM-810LCD
Viewing Head	Binocular head, 20°inclined, interpupillary 55-75mm	●	●	●
	Tilting binocular head, 0°-35° inclined, interpupillary 55-75mm	○	○	○
Eyepiece	EW10×/Φ22	●	●	●
	WF15×/Φ16	○	○	○
	WF20×/Φ12	○	○	○
Zoom Objective	0.8×~5×	●	○	○
	0.8×~6.4×	○	●	○
	0.8×~8×	○	○	●
Objective	Plan Apochromatic objective 0.5×	○	○	○
	Plan Achromatic objective 1×	●	●	●
	Plan Achromatic objective 2×	○	○	○
	Achromatic objective 0.3×	○	○	○
	Achromatic objective 0.5×	○	○	○
Zoom Ratio	1: 6	●	○	○
	1: 8	○	●	○
	1: 10	○	○	●
Working Distance	78mm	●	●	●
Focusing	Focusing range 105mm	●	●	●
Illumination	Transmission or reflection LED illumination, brightness adjustable	●	●	●
Digital Part	5.0 Mega pixels CMOS chip	●	●	●
	Wifi and Bluetooth	●	●	●
Output	USB2.0、Mini USB、HDMI	●	●	●
Operating System	Android 4.2.2	●	●	●
Software	TouchScope (For microscope) NMS client (For PC)	●	●	●
SD Card	Expandable to max 2GB Kinston SD card	○	○	○
Mouse		●	●	●
Optional	Coaxial illumination	○	○	○
	Epi-fluorescent attachment	○	○	○
	Dark field attachment	○	○	○
	Simple polarization set	○	○	○
	Iris diaphragm	○	○	○
	Photography & video attachment	○	○	○
	Coaxial coarse & fine focusing unit	○	○	○

Note: ● Standard Outfit, ○ Optional



ZSM-606

Zoom Stereo Microscope

- With high quality optical components, it provides sharp and striking contrast image and ensures flat image at big depth of field. Ease the tiredness with ergonomic design.
- With LED light for both incident and transmitted illumination, it provides even illumination and life expectancy can reach 6000 hours.
- With complete eyepieces, objectives and accessories, it is an ideal instrument for industry assembling, inspection and teaching field.

Model		ZSM-606
Viewing Head	Binocular Viewing Head, Inclined at 45°	●
	Trinocular Viewing Head, Inclined at 45°	○
Eyepiece	Extra wide field eyepiece EW10×/22	●
	WF15×	○
	WF20×	○
Zoom Objective	0.8×~5×	●
Zoom Ratio	6.3:1	●
Working Distance	115mm	●
Interpupillary Distance	55-75mm	●
Auxiliary objective	0.5×	○
	2×	○
Glass Insert	Diameter 100mm	●
Illumination	Incident Illumination 100V-240V/ LED	●
	Transmitted Illumination 100V-240V/ LED	●
Photo Attachment		○
Video Attachment		○

Note: ● Standard Outfit, ○ Optional



ZSM6745-B9L

Detail:

ZSM6745 zoom stereo microscope provides high-quality, durable and reliable optical system and operating mechanism. New design shows the best resolution and true color images, to meet the modern biomedical research, modern electronics industry online testing and other technology.

Technical Data Sheet

Eyepiece	High eye point wide field eyepiece ±5 diopters adjustable	WF10X/22mm	●
		WF15X/15mm	○
		WF20X/10mm	○
		WF25X/9mm	○
		WF30X/8mm	○
		Mounted micrometer	○
Observation head	Binocular head. 45° inclined: 360° rotatable ; 0.67X~4.5X continuous zoom lens. Long working distance 105mm. Interpupillary distance adjustment range 54-75mm.		●
Auxiliary lens	0.5X/165mm. 2X/30mm.		○
Focus brackets	A1 focus frame, focusing hand wheel adjustable and elastic, lifting range 50mm.		●
Base	B9L vertical arm and LED light base		●
Other external sources	Ring light		○
	LED light		○
	Fiber optic lighting		○

Note: ● Standard Outfit, ○ Optional



ZSM8050 Series Zoom Stereo Microscope

Characteristics:

ZSM8050 series zoom stereo microscope, provides high-quality, durable and reliable optical system and operating mechanism. New design show the best resolution and true color images, to meet the modern biomedical research, modern electronic industry online testing and other technology industries which have high-precision requirements

Technical Data Sheet

Head	Binocular stereoscope body , inclined 45 °	●
Adjustable diopter eyepiece	Wide Field Eyepiece EW10 × / / Φ22	●
	Wf15× / Φ16	○
	Wf20× / Φ12	○
	Wf30×	○
Zoom lens	0.8×~5×	●
Zoom ratio	6.3:1	●
Working Distance	115mm	●
IPD	52-75mm	●
Auxiliary lens	0.5×	○
	0.7×	○
	2×	○
Stage into the circular plate	125mm diameter transparent glass plate	●
	white plate	○
Illumination system	no light	○
	reflected light 100V-240V/LED	●
	transmitted light illumination 100V-240V/LED	●
Photography accessories		○

Note: ● Standard Outfit, ○ Optional configuration



ZSM102LCD
LCD Display Zoom Stereo Microscope

Features:

- LCD display with special connector can be used for biological microscope and stereo microscope,after installing, can observe the slides and objects easily, especially for industrial parts' checking, can reduce the visual fatigue and improve checking efficiency.

TECHNICAL SPECIFICATION:
CCD Technical Data:

- Device Dimension: 1/3"
- Horizontal Resolution: 700TVline
- Pixels: 976(H)X582(V)

LCD Technical Data

- Display Dimension: 800X600
- Colors: 16,777,216,full color
- Highest Mode: 1024X768@75Hz
- Color System: PAL/NTSC4. 43/NTSC3.58/SECAM

Microscope Specification:

- Eyepiece: WF10X/22mm(Optional: WF15X,WF20X)
- Objective: 0.7X-4.5X
- Viewing Head: Trinocular head, 45°inclined,360°rotatable
- Total Magnification: 7X-45X
- Working Distance: 100mm
- Base Size: 290X245X60mm, with spring clips
- Focusing Range: Rack and pinion focusing, with mechanism for adjusting focusing torque.
- Focusing range: 85mm
- Standing Method: Arm, height 280mm (Optional: Pole, height 280mm, moving range:130mm)
- Illumination: Top and bottom 3.5V/1W LED light, light adjustable separately





YJ-403J Series Inverted Metallurgical Microscope

Specification

			Model			
			YJ-403J	YJ-403JT	YJ-403JA	YJ-403JAT
Viewing head	Compensation Free Binocular Head. Inclined at 45 ° (50mm -75mm)		●		●	
	Compensation Free Trinocular Head. Inclined at 45 ° (50mm -75mm)			●		●
Eyepiece	WF10X/20mm		●	●		
	WF10X/ 22mm				●	●
	With reticule 0.1mm		●	●	●	●
Nosepiece	Quadruple nosepiece				●	●
	Quintuple nosepiece		●	●		
Objective	195 metallurgical objectives	4X/0.1W.D .25mm	●	●		
		10X/ 0.25W.D .11mm				
		20X/0.4W.D .9mm				
		40X/0.6W.D. 3.8mm				
	Infinity metallurgical objectives	4X/0.1W.D .25mm			●	●
		10X/ 0.25W.D .12mm				
		20X/0.4W.D .10mm				
		40X/0.6W.D. 7.1mm				
	50X/0.75W.D. 1.9mm 80 (S)X/0.9W.D. 0.9mm		○	○	○	○
Stage	Double layer mechanical stage		●	●	●	●
	Stage size: 242mm×172mm					
	Central stage: Φ110mm					
	Moving range: 75mm×50mm					
Focusing	Coaxial coarse & fine focusing adjustment with rack and pinion mechanism Fine focusing scale value 0.002mm		●	●	●	●
Illumination	Epi-Kohler illumination. With aperture iris diaphragm and field iris diaphragm. 12V/30W.AC85V-230V Adjustable brightness		●	●	●	●
Filter	Blue, green, yellow		●	●	●	●
Polarizing outfit	Analyzer rotatable 360 ° ,polarizer & Analyzer can be slided slided in / out of the optical path		●	●	●	●
Checking tool	0.01mm micrometer		●	●	●	●
Optional Accessory	1.3、2.0、3.0、5.0 Mega pixels CMOS electronic eyepiece					
	Photography attachmrnt					



YJ-158J

Metallurgical Microscope

XJP-158J Metallurgical microscope is developed and aimed at the semiconductor industry, wafer manufacturing, electronic information industry, metallurgical industry, Used as an advanced Metallurgical microscope, the user can experience its super performance when using. It can be widely used to identify and analyze Semiconductor, FPD, circuit encapsulation, circuit substrate, material, casting/metal/ceramic parts, precision moulds. This instrument adopts both reflecting and transmitted illumination. Bright & Dark field, DIC and Polarizing observation can proceed under reflecting illumination, and the Bright field observation is done under transmitted light. High quality and reliable optical system brings much clearer and sharper image. The design meets with the ergonomics needs and makes you feel comfortable and relaxed in doing your job.

Characteristics and description

1. Adopt UIS High-resolution, long working distance, and infinity light path correcting system objective imaging technology
2. Extending the multiplexing technology of objective, compatible infinity objective with all the observation methods, including bright & dark field observation, polarization and DIC also provide with high clear and sharp image in each observation method.
3. Aspherical surface Kohler illumination, increasing the viewing brightness.
4. Wf10×(φ25)Super wide viewing field eyepiece, long working distance metallurgical objective with bright and dark field
5. The Nosepiece can be equipped with detachable DIC differential interference device.

Model	YJ-158J
Viewing Head	Compensation Free Trinocular Head, Inclined 30° (50mm-75mm)
Eyepiece	WF10×/25mm
	WF10×/20mm,crosshair with reticule 0.1mm
Objective	Long working distance bright and dark field Infinite Plan objectives: 5×/0.1B.D/W.D.29.4mm 10×/0.25B.D/W.D.16mm 20×/0.40B.D/W.D.10.6mm 40×/0.60B.D/W.D.5.4mm
Nosepiece	With DIC Jack Quadruple Nosepiece
Stage	Double layer mechanical stage
	Stage Size: 189mm×160mm
	Moving Range:80mm×50mm
Filter	Flashboard type filters(green,blue,neutral)
Condenser	N.A.1.25 Abbe Condenser with iris diaphragm and filter
Focusing	Coaxial coarse &fine focusing adjustment with rack and pinion mechanism.Fine focusing scale value 0.002mm
Polarizing Device	Analyzer rotatable 360,°Polarizer&Analyzer can be moved in/out of the optical path
Light Source	Transmitted Illumination: Halogen Bulb 12V/50W,AC85V-230V, Brightness Adjustable
	Epi-illumination:With aperture iris diaphragm and field iris diaphragm, halogen Bulb 12V/50W,AC85V-230V, Brightness Adjustable
Polarizing Device	Analyzer 360°rotatable,both Polarizer and Analyzer can be moved out of the light path
Checking Tool	0.01mm Micrometer
Optional Accessory	Two-dimensional measurement software
	Professional metallurgical image analysis software
	Epi-illumination:Halogen Bulb 12V/100W,AC85V-230V, Brightness Adjustable
	Long working distance bright & dark field Infinite Planobjectives: 50×/0.55B.D/W.D.5.1mm、80×/0.75B.D/W.D.4mm、100×/0.80B.D/W.D.3mm
	Micrometer eyepiece
	1.3Mega、2.0 Mega、3.0 Mega,5.0 Mega pixels CMOS Digital camera eyepieces
	Photography attachmentand CCD Adapter 0.5×、0.57×、0.75×
	DIC (10×、20×、40×、100×)
	Planishing tool
	CCD Camera,colour 1/3″ High resolution 520 TV lines



YJ-501



YJ-501T



YJ-146



YJ-148T

YJ-501 Series Polarizing Microscope

Specification		Model				
		YJ-501	YJ-501T	YJ-148	YJ-146	YJ-148T
Viewing head	Sliding Binocular Head. Inclined at 45 ° (52mm -74mm)	●				
	Sliding Trinocular Head. Inclined at 45 ° (52mm -74mm)		●			
	Sliding Binocular Head, Inclined at 45°			●		
	Compensation Free Trinocular Head, Inclined at 30°				●	
	Sliding Trinocular Head, Inclined at 45°					●
Eyepiece	WF10X/18mm	●	●			
	WF10X gridding eyepiece	●	●	●	●	●
	WF10X with reticule	●	●	●	●	●
	WF10X22mm	○	○	●	●	●
Objective	Achromatic objective: 4X,10X, 25X, 40X(S), 63X(S)	●	●	●		
	Infinite plan Achromatic objective: 4X,10X, 20X, 40X(S), 63X(S), 100X(S)oil	○	○		●	●
Stage	Round revolving stage	●	●	●	●	●
	Stage dia: Φ160mm					
	Rotatable: 360 °					
Condenser	Swing type N.A1.25 Abbe condenser with iris diaphragm & filter	●	●	●	●	●
Focusing	Coaxial coarse & fine focusing adjustment with rack and pinion mechanism. Fine focusing scale Value 0.002mm	●	●	●	●	●
Collector	High brightness light collector	●	●	●	●	●
Light source	Halogen bulb 6V/30W.AC 85V-230V	●	●	●	●	●
	Adjustable brightness					
Optional Accessory	Eyepieces: WF16X,WF20X,P16X	○	○	○	○	○
	1.3Mega、3.0Mega Pixels CMOS Digital camera eyepiece		○		○	○

Mark" ● "standard outfit. Mark:" ○ "optional parts.



YJ-148PL



YJ-148PLT

YJ-148 Series Polarizing Microscope

Specification		Model	
		YJ-148PL	YJ-148PLT
Viewing Head	Compensation Free Binocular Head Inclined at 30°(50mm~75mm)	●	
	Compensation Free Trinocular Head Inclined at 30°(50mm~75mm)		●
Eyepiece	WF10×/20mm	●	●
	WF10×Gridding Eyepiece	●	●
	Wf10×eyepiece with reticule	●	●
	WF10×/22mm	○	○
Nosepiece	Quintuple Nosepiece with centering adjustable	●	●
Objective	Stress-free Infinity Plan Achromatic Objective:4×,10×,25×,40×(s),63×(s)	●	●
Stage	Rotary Stage	●	●
	Stage Size: Φ172mm		
	Moving Range: 360°		
Condenser	Swing type N.A.1.25 Abbe condenser with iris diaphragm	●	●
Testing Piece	Gypsum 1λ testing piece	●	●
	Mica 1/4 λ testing piece	●	●
	Quartz wedge testing piece	●	●
Focusing	Coaxial coarse & fine focusing adjustment. With rack and pinion	●	●
Illuminator	High brightness fixed illumination	●	●
Light Source	Halogen Bulb 6V/30W.AC85V230V	●	●
	Adjustable Brightness		
Checking Tool	0.01mm micrometer	○	○
Optional Accessory	Eyepiece: WF16×、WF20×、P16×	○	○
	1.3Mega、2.0Mega、3.0Mega、		
	5.0Mega Pixels CMOS Digital camera eyepiece		
	Stress-free objestive:100×(s)Oil		
	Photography attachment and CCD Adapter 0.5×、×0.57×、0.75×		

Note: ● Standard Outfit, ○ Optional



YJ-800M Polarizing Microscope

Features:

- Supply high quality and contrast image with special strain free objective.
- Single polarization, orthogonal polarization and conoscopic observation.
- Transmitted light and reflected light, 24V/100W long life halogen lamp.
- Stage with 45° located, attachable mechanical stage with large moving range, high efficiency no interference when turning objectives.
- Professional polarizing microscope for geology, petroleum, chemicals, polymer, and LED field.

Model		YJ-800M
Optical System	Infinite optical system	●
Viewing Head	Seidentopf trinocular head inclined at 30°, Interpupillary 48-75mm	●
Eyepiece	Plan eyepiece EW10X/22	●
	Plan eyepiece with scale of crosshair, Plan eyepiece with cross, Plan eyepiece with gridding	●
Strain-Free Plan Achromatic Objective	4X/0.10/∞/- WD 17.3mm	●
	10X/0.25/∞/0.17 WD 10.0mm	●
	20X/0.40/∞/0.17 WD 5.10mm	○
	40X/0.65/∞/0.17 WD 0.54mm	●
	100X/1.25/∞/0.17 WD 0.13mm	●
Nosepiece	Backward quintuple nosepiece, center adjustable	●
Analyzer	360° dial rotation minimum scale reading:0.1°(Vernier scale)	●
Conoscopic observation attachment	Switch between orthoscopic and conoscopic observation, Bertrand lens position adjustable	●
Optical Compensator	1λ plate, 1/4λ plate and quartz wedge plate	●
Polarizing Rotatable Stage	Diameter Φ170mm, Center adjustable, 360° scale, Minimum division 1°, Minimum reading 6 by means of vernier scale, 45° Click stop knob	●
Attachable Stage	Moving range 30mmX40mm	○
Condenser	Strain-free swing condenser NA0.9/0.25	●
Focusing	Coaxial coarse & fine adjustment, Range 32mm, Fine division 0.001mm, Coarse stroke 37.7mm per rotation, Fine stroke 0.1mm per rotation	●
Polarizer	360°rotatable 0°position adjustable	●
Illumination	24V/100W Halogen lamp, Brightness adjustable	●
Filter	Blue filter Φ45mm	●
	ND6 Neutral density filter Φ45mm	○
	ND25 Neutral density filter Φ45mm	○
Attachment	Video attachment	○
	0.01mm Micrometer	○

Note: ● Standard Outfit, ○ Optional



YJ-800RF/TRF Polarizing Microscope

Features:

- Supply high quality and contrast image with special strain free objective.
- Single polarization, orthogonal polarization and conoscopic observation.
- Transmitted light and reflected light, 24V/100W long life halogen lamp.
- Stage with 45° located, attachable mechanical stage with large moving range, high efficiency and no interference when turning objectives.

Model		YJ-800RF	YJ-800TRF
Optical System	Infinite optical system	●	●
Viewing Head	Seidentopf trinocular head inclined at 30°, Interpupillary 48-75mm	●	●
Eyepiece	Plan eyepiece EW10X/22	●	●
	Plan eyepiece with scale of crosshair, Plan eyepiece with cross, Plan eyepiece with gridding	●	●
Strain-Free Plan Achromatic Objective	5X/0.12/∞/- WD 15.5mm	●	●
	10X/0.25/∞/- WD 10.0mm	●	●
	20X/0.4/∞/0 WD 5.8mm	●	●
	50X/0.75/∞/0 WD 0.32mm	●	●
	100X/0.8/∞/0 WD 2mm	●	●
	40X/0.65/∞/0.17 WD 0.54mm		●
	100X/1.25/∞/0.17 WD 0.13mm		●
Nosepiece	Backward quintuple nosepiece, Center adjustable	●	●
Analyzer	360° dial rotation Minimum scale reading: 0.1°(Vernier scale)	●	●
Conoscopic observation attachment	Switch between orthoscopic and conoscopic observation, Bertrand lens position adjustable	●	●
Optical Compensator	1λ plate, 1/4λ plate and quartz wedge plate	●	●
Polarizing Rotatable Stage	Diameter Φ170mm, Center adjustable, 360° scale, Minimum divison 1°, Minimum reading 6 by means of vernier scale ,45° Click stop knob	●	●
Attachable Stage	Moving range 30mmX40mm	○	○
Condenser	Strain-free swing condenser NA0.9/0.25		●
Focusing	Coaxial coarse & fine adjustment, Range 32mm, Fine division 0.001mm, Coarse stroke 37.7mm per rotation, Fine stroke 0.1mm per rotation	●	●
Polarizer	Transmitted: 360° Rotatable and 0° position adjustable		●
	Reflected: Fixed	●	●
Illumination	Reflected light: 24V/100W Halogen lamp, Brightness adjustable	●	●
	Transmitted light: 24V/100W Halogen lamp, Brightness adjustable		●
Filter	Blue filter Φ45mm		●
	ND6 Neutral density filter Φ45mm		○
	Nd25 Neutral density filter Φ45mm		○
	Blue filter Φ25mm	○	○
	ND6 Neutral density filter Φ25mm	○	○
	ND25 Neutral density filter Φ25mm	○	○
Attachment	Video attachment	○	○
	0.01mm Micrometer	○	○

Note: ● Standard Outfit, ○ Optional



YJ-606
Fluorescent Microscope

YJ-606 is biological microscope with Epi-fluorescence device. Epi-fluorescence widely used in biology, medicine, immunology, oncology, genetics, material science and other fields. Conventional configuration has 5 wave bands, and B,G,BV,V,U can be switched, and meanwhile, the conventional transmission observation can be proceeded. High-quality optical system and fluorescent attachment make you observe the satisfactory fluorescent effect. It is your best choice because of its humanized configuration design, convenient operation system and novel appearance.

Model	YJ-606
Viewing Head	Compensation free binocular head inclined at 30°(50mm-75mm)
Eyepiece	WF10×/22mm
Objective	Infinite apochromatic fluorescent objectives: 4×/N.A.0.15、10×/N.A.0.35、20×/N.A.0.6、40×(S)/N.A.0.75
Nosepiece	Sextuple nosepiece
Stage	Double layer mechanical stage
	Stage Size: 180mm×160mm
	Moving Range: 80mm×50mm
Condenser	N.A.1.25 Abbe condenser with iris diaphragm and filters
Focusing	Coaxial coarse & fine focusing adjustment with rack and pinion mechanism.Fine focusing scale value 0.002mm
Light Source	Transmission illumination: Halogen bulb 12V/30W, brightness adjustable
	Epi-fluorescent illumination: 220V(110V). Ultra-high pressure mercury Lamp100W/DC.Digital display mercury lamp constant power
Fluorescent Box	G、B、BV、V、U Wave Band
Optional Accessory	Eyepiece: WF16×/17mm、WF20×/12.5mm
	1.3Mega、2.0 Mega、3.0 Mega、5.0 Mega pixels CMOS digital camera eyepiece
	Infinite plan objectives: 4×, 10×, 20×, 40×(s), 60×(s), 100×(s)oil
	Infinite fluorescent objectives:100×(dry)/N.A.0.9
	Y wave band fluorescent box
	Light Source: Halogen bulb 12V/50W,12V/100W
	Photography attachment and CCD adapter 0.5×、0.57×、0.75×



YJ-403Y
Inverted Fluorescent Microscope

YJ-403Y inverted fluorescent microscope is composed of inverted microscope and Epi-fluorescent microscope. The inverted microscope has the feature to observe the specimen in Culture flask and Petri dish. Epi-fluorescent device applies to the fluorescent microscopy. It is equipped with long working distance plan achromatic objectives, wide field eyepiece, binocular observation head, phase contrast kit and phase contrast objectives. The transparent alive objects can be observed without being dyed. Epi-fluorescent microscope adopts Epi-illumination excitation to make fluorescent image clear. Long working distance condenser can contain higher culture dish and specimen. This equipment is specially suitable for micro research of living cells & university, medical treatment, epidemic prevention department and farming & stock raising,etc.

Model	YJ-403Y
Viewing Head	Compensation free binocular head inclined at 30°(50mm-75mm)
Eyepiece	WF10×/22mm
Objective	Long working distance plan achromatic objectives: 4×、10×(phase contrast)、20×(phase contrast)、40×(s)
Stage	Double layer mechanical stage
	Stage size: 242mm×172mm central stage: Φ110mm
	Moving range: 75mm×40mm
Filter	N.A.0.3 Abbe condenser with iris diaphragm, Working distance:75mm
Focusing	Coaxial coarse & fine focusing adjustment with rack and pinion mechanism.Fine focusing scale value 0.002mm
Light Source	Transmission illumination: Halogen bulb 12V/30W, brightness adjustable
	Epi-fluorescent illumination: 220V(110V). Ultra-high pressure mercury Lamp100W/DC.Digital display mercury lamp constant power
Fluorescent Attachment	B、G wave band
Optional Accessory	1.3Mega、2.0 Mega、3.0 Mega、5.0 Mega、pixels CMOS digital camera eyepiece
	Objective:40× phase contrast
	U、V wave band
	Photography attachment and CCD adapter 0.5×、0.57×、0.75×



YJ-800F(LED)



YJ-300F(LED)

YJ-800F(LED)/YJ-300F(LED) Fluroscent Microscope

Features:

- Excellent fluroscent image with infinitive optical system.
- LED illumination with 50,000 hours life expectancy.
- No need for cooling system and protection device due to LED cold light source.
- 465-475nm excited wavelength with high snr.
- Convenient to use, no need warm-up.
- More fluorescent filters are available for different applications.

Model					YJ-800F(LED)	YJ-300F(LED)
Optical System	Infinite optical system				●	●
Viewing Head	Compensation free binocular head inclined at 30°, interpupillary 48-75mm					●
	Compensation free trinocular head inclined at 30°, interpupillary 48-75mm				●	
Eyepiece	Extra wide field eyepiece EW10X/22				●	
	WF10X/18					●
Nosepiece	Backward quintuple nosepiece				●	
	Backward quadruple nosepiece					●
Infinite Objective	Semi-plan Achromatic Objective	4X				●
		10X				●
		20X				○
		40X				●
		100X				●
	Plan Achromatic Objective	4X			●	○
		10X			●	○
		20X			○	○
		40X			●	○
		100X			●	○
	Fluorescent Objective	4X, 10X, 20X, 40X, 100X			○	○
Condenser	Swing condenser NA 0.9/0.25				●	
	Condenser NA 1.25					●
Focusing	Coaxial coarse & fine adjustment, Fine division 0.001mm				●	
	Coaxial coarse & fine adjustment, Fine division 0.002mm					●
Stage	Double layer mechanical stage185X142/75X55				●	
	Double layer mechanical stage140X140/75X50					●
Photo Attachment					○	○
Video Adapter					○	○
Illumination	S-LED Illumination					●
	Halogen lamp 6V/20W					○
	Halogen lamp 6V/30W				●	
Reflected Light Source		Excitation	Dichroic Mirror	Barrier Filter		
	Blue Excitation	Bp460~490	Dm505	Ba515	●	●
	Green Excitation	Bp510~550	Dm570	Ba590	○	○
Lamp	3W LED (465-475nm)				●	●
	3W LED (525-530nm)				○	○
Immersion Oil	Fluorescent free oil				●	●

Note: ● Standard Outfit, ○ Optional



YJ-405

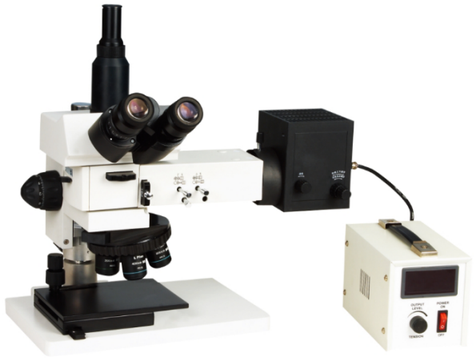
Industrial Microscope

YJ-405 industrial microscope is equipped with a large moving range mechanical stage, Epi-illuminator, long working distance bright and dark field, infinite Plan objectives, wide field eyepiece with clear images and good contrast. It is developed and aimed at the semiconductor industry, wafer manufacturing, electronic information industry, metallurgical industry, and used as high grade industrial microscope. Bright & Dark field observation, EPI-polarizing and DIC observation can be proceeded. It is widely used in factories, research institution and college and universities to identify and analyze wafer,FPD, circuit substrate, and precision moulds.

Characteristics and description

1. Adopt UIS High-resolution, Long working distance, and infinity light path correcting system objective imaging technology
2. Extending the multiplexing technology of objective, compatible infinity objective with all the observation methods. including bright & dark field observation, polarization and also provide with high clear and sharp image in each observation method.
3. Aspherical surface Kohler illumination, increasing the viewing brightness.
4. WF10 X(φ25) super wide field Eyepiece, long working distance metallurgical objective with bright and dark field
5. The Nosepiece can be equipped with detachable DIC differential interference device.

Model	YJ-405
Viewing Head	Compensation Free Trinocular Head, Inclined 30°(50mm-75mm)
Eyepiece	WF10×/25mm
	WF10×/20mm,crosshair with reticule 0.1mm
Nosepiece	Quintuple Nosepiece with DIC Jack
Objective	Long working distance bright and dark field Infinite Plan objectives: 5 ×/0.1B.D/W.D.29.4mm 10×/0.25B.D/W.D.16mm 20×/0.40B.D/W.D.10.6mm 40×/0.60B.D/W.D.5.4mm
Stage	Double layer mechanical stage
	Stage Size: 350mm×310mm
	Moving Range:250mm×250mm
Filter	Flashboard type filters(green,blue,neutral)
Focusing	Coaxial coarse & fine focusing adjustment With rack and pinion mechanism. Fine focusing scale value 0.002mm
Light Source	Epi-illumination:With aperture iris diaphragm and field iris Diaphragm, Halogen Bulb 12V/100W, AC85V-230V, Brightness Adjustable
Polarizing Device	Analyzer 360° rotatable. Polarizer & Analyzer can be moved in/out of the optical path
Checking Tool	0.01mm Micrometer
Optional Accessory	Eyepiece: WF15×/17mm、WF20×/12.5mm
	1.3Mega、2.0 Mega、3.0 Mega、5.0 Mega pixels CMOS Digital camera eyepiece
	Long working distance bright and dark field Infinite Plan objectives: 50×/0.55B.D/W.D.5.1mm、80×/0.75B.D/W.D.4mm、100×/0.80B.D/W.D.3mm
	Two-dimensional measurement software
	Professional metallurgical image analysis software
	DIC（10×、20×、40×、100×）
	Photography attachment and CCD Adapter 0.5×、0.57×、0.75×
	Planish tool
	CCD Camera,colour 1/3″ High resolution 520 TV lines



YJ-607

Industrial Microscope

YJ-607 Industrial Metallurgical microscope is developed and aimed at the semiconductor industry, wafer manufacturing, electronic information industry, metallurgical industry. Used as an advanced Metallurgical microscope, the user can experience its super performance when using it.It can be widely used to identify and analyze Semiconductor, FPD, Circuit encapsulation, circuit substrate, Material, Casting/Metal/Ceramic parts, Precision moulds and observe thicker specimen. High quality and reliable optical system brings much clearer and contrast image. The design meets with the ergonomics needs and makes you feel comfortable and relaxed in doing your job.

Characteristics and description

1. UIS infinite-optical system.
2. Adopt long-life halogen light source with much higher light efficiency.
3. Bright and dark field, Polarization and differential interference function.
4. The aspherical Kohler illumination, increasing the brightness of observation.
5. WF10×(φ25)Super wide viewing field eyepiece, long working distance metallurgical objective with bright and dark field
6. The Quintuple Nosepiece can be equipped with detachable DIC differential interference device.

DIC: Nomarski differential interference contrast observation is deemed to be the essential means to checkout the materials, semiconductor and metal structure now.

Model	YJ-607
Viewing Head	Compensation Free Trinocular Head, Inclined 30° (50mm-75mm)
Eyepiece	WF10×/25mm
	WF10×/20mm,crosshair with reticule 0.1mm
Objective	Long working distance bright and dark field Infinite Plan objectives: 5×/0.1B.D/W.D.29.4mm 10×/0.25B.D/W.D.16mm 20×/0.40B.D/W.D.10.6mm 40×/0.60B.D/W.D.5.4mm
Nosepiece	Quintuple Nosepiece with DIC Jack
Stage	Double layer mechanical stage
	Stage Size: 190mm×140mm
	Moving Range:50mm×40mm
Filter	Flashboard type filters(green,blue,neutral)
Focusing	Coaxial coarse &fine focusing adjustment With rack and pinion mechanism Fine focusing scale value 0.002mm
Light Source	With aperture iris diaphragm and field iris diaphragm, halogen Bulb 12V/50W, AC85V-230 Brightness Adjustable
Polarizing Device	Analyzer rotatable 360,°Polarizer&Analyzer can be moved in/out of the optical path
Checking Tool	0.01mm Micrometer
Optional Accessory	Two-dimensional measurement software
	Professional metallurgical image analysis software
	Halogen Bulb 12V/100W
	Micrometer eyepiece
	1.3Mega、2.0 Mega、3.0 Mega、5.0 Mega pixels CMOS Digital camera eyepieces
	Long working distance bright & dark field Infinite Plan objectives: 50×/0.55B.D/W.D.5.1mm、80×/0.75B.D/W.D.4mm、100×/0.80B.D/W.D.3mm
	Precision Stage:X-Y moving range 25mm×25mm,Moving Precision<5um,Digital hand wheel Min.Value:0.1um,360°Rotatable disc
	Photography attachment and CCD Adapter 0.5×、0.57×、0.75×
	DIC (10×、20×、40×、100×)
	Planishing tool
	CCD Camera,colour 1/3″ High resolution 520 TV lines



IMM-100 Inverted Metallurgical Microscope

Features:

Infinite Optical System Providing Excellent Optical Functions. With the stable stand structure、advanced stage design and comfortable operation, it is widely used in institute and laboratory to observe and identify the structure of various metal and alloy.

Model		IMM-100
Viewing Head	Trinocular head inclined at 30°, interpupillary distance 48-75mm	●
Eyepiece	High-point , extra wide field eyepiece EW10×/ 20	●
Infinite Plan Achromatic Objective	4×/ 0.1	●
	5×/ 0.12	○
	10×/ 0.25	●
	20×/ 0.40	●
	40×/ 0.60	●
	50×/ 0.75	○
	100×/ 0.80	○
Nosepiece	Quintuple nosepiece	●
Stage	Plain stage	●
	Attachable mechanical stage, X-Y coaxial control, moving range 120×78mm	○
	Double layer mechanical stage 226×178mm,Moving range 50×50mm	○
	Auxiliary stage	○
Focusing	Coaxial coarse & fine adjustment, Vertical objective movement, Coarse stroke 37.7mm per rotation, Fine stroke 0.2mm per rotation	●
Kohler Illumination	Halogen lamp 6V/ 30W	●
Filter	Blue, Yellow, Green and Ground Glass	●
Polarization Attachment		●
Photo Attachment		○
Video Adapter	Video adapter with C mount	○

Note: ● Standard Outfit, ○ Optional



2006B2 Inverted Metallurgical Microscope

- 45mm DIN Achromatic Objective: 10X,100X(S,Oil)
- Metallurgical Plan-scope Achromatic Objective: 40X(S)
- Wide Field Plane-Scope Eyepiece: WF10X,WF12.5X(optional):
- Wide Field Plane-Scope Eyepiece with 0.1mm Cross Micrometer: WF10X
- Micro-ruler: 0.01mm/scale
- Total Magnification: 100X-1250X
- Articulated Free Binocular Head,Interpupillary Distance: 55-75mm,45° Inclined
- Double Layer Mechanical Stage(200X180mm)with Two Plates(Ø10 and Ø20mm);
- Moving Range X-Y: 70X50mm
- Coaxial Coarse and Fine Focusing Adjustable Mechanism with Rack and Pinion, with Tension Adjustment and Stage Height Limited Knob;
- Focusing Range: 25mm;Precision:0.002mm
- Built-in Adjustable Brightness Halogen Lamp 6V/20W and Kohlar Illumination System with Blue,Green,Yellow and Ground Glass Filters



YJM-800RF/TRF



YJM-820RF/TRF

YJM-800/820 Series Metallurgical Microscope

Features:

- Laboratory metallurgical microscope, including bright field, dark field and polarization observation system.
- Powerful transmitted and reflected system with Kohler illumination.
- Ideal instrument for industry inspection and science research.

Model		YJM-800RF	YJM-800TRF	YJM-820RF	YJM-820TRF
Optical System	Infinite optical system	●	●	●	●
Eyepiece	Extral wide field eyepiece EW10×/22	●	●	●	●
Infinite plan Achromatic Objective	5×/ 0.12/ / - (BF)	●	●		
	10×/ 0.25/ / - (BF/DF)	●	●	●	●
	20×/ 0.4/ / 0 (BF/DF)	●	●	●	●
	50×/ 0.75/ / 0 (BF)	●	●		
	100×/ 0.8/ / 0 (BF)	●	●		
	40×/ 0.65/ / 0.17		●		●
	100×/ 1.25/ / 0.17		●		●
	5×/ 0.12/ / - (BF/DF)	○	○	●	●
	40×/ 0.6/ / 0 (BF/DF)	○	○	○	○
	50×/ 0.75/ / 0 (BF/DF)	○	○	●	●
	100×/ 0.8/ / 0 (BF/DF)	○	○	●	●
DIC	20×, 100×			○	○
Maximum Sample Height	30mm		●		●
	50mm	●		●	
Viewing Head	Siedentopf trinocular viewing head, inclined at 30°, interpupillarty distance 48mm-75mm	●	●	●	●
Incident light	24V/100W Halogen light, lightness adjustable	●	●	●	●
	Kohler illumination and aspherical condenser	●	●	●	●
	Polarizer and analyzer	○	○	○	○
	An integrate device for polarizer and analyzer	○	○	○	○
	Blue,Green,Yellow Filters and Ground Glass	●	●	●	●
Transmitted light	Swing-out condenser NA0.9/ 0.25		●		●
	24V/ 100W Halogen light and aspherical condenser		●		●
	Blue filter		●		●
Filter	ND25、ND6	○	○	○	○
Focusing	Coaxial coarse and fine adjustment, fine division 1um	●	●	●	●
Nosepiece	Backward quintuple nosepiece	●	●	●	●
Stage	Non-porous double layer mechanical stage 186X138mm/74mmX50mm	●		●	
	Double layer mechanical stage 186×138mm/ 74mm×50mm		●		●
	Glass specimen preparation plate	○	○	○	○
	Specimen preparation plate		●		●
	Slide glass		●		●
Specimen Presser		○	○	○	○
Photo Attachment		○	○	○	○
Video Attachment	C Mount 1×, 0.5×	○	○	○	○

Note: ● Standard Outfit, ○ Optional



USB Digital Microscope

Focus Range: Manual focus from 10mm to 500mm
Frame Rate: Max 30f/s under 600 Lux Brightness
Video format: AVI
Photo format: JPEG or BMP
Light source: 8 LED (adjustable by control wheel)
PC interface: USB2.0
Power source: 5V DC from USB port

Art No: MIX01

Image sensor: 1.3 Mega Pixels
Still capture resolution:
1600x1200 (2M), 1280x1024, 1024x960, 1024x768, 800x600, 640x480, 352x288, 320x240, 160x120
Video capture resolution:
1600x1200 (2M), 1280x1024, 1024x960, 1024x768, 800x600, 640x480, 352x288, 320x240, 160x120
Magnification Ratio: 20x and 200x

Art No: MIX02

Image sensor: 2 Mega Pixels (interpolated to 5M)
Still capture resolution:
2560x2048 (5M), 2000x1600, 1600x1280 (2M), 1280x1024, 1024x960, 1024x768, 800x600, 640x480, 352x288, 320x240, 160x120
Video capture resolution:
2560x2048 (5M), 2000x1600, 1600x1280 (2M), 1280x1024, 1024x960, 1024x768, 800x600, 640x480, 352x288, 320x240, 160x120
Magnification Ratio: 20x and 200x

Art No: MIX04

Image sensor: 1.3 Mega Pixels (interpolated to 2M)
Still capture resolution:
1600x1200, 1280x960, 1024x768, 800x600, 640x480, 352x288, 320x240, 160x120
Video capture resolution:
1600x1200, 1280x960, 1024x768, 800x600, 640x480, 352x288, 320x240, 160x120
Magnification Ratio: 20x and 400x



Electronic Eyepiece

Art No: ACM35

0.35MP Electronic Eyepiece for Microscope
Image Sensor: CMOS
Valid Pixel: 620 X 580
Output Interface: Video(RCA)

Art No: ACM10

0.10MP Electronic Eyepiece for Microscope
Image Sensor: CMOS
Valid Pixel: 352 X 288
Output Interface: USB



MDC2000
Multi-Purpose LCD Microscope Camera with Relay Lens

1600*1200 active pixels
3.6 inch TFT LCD screen
Built-in relay lens
Software CD for USB mode
SD card slot, TV port, USB port
Capture mode:picture, video
Max. picture size:12MP
Device size:100*110*105mm
CE, FCC, RoHS approved



MEM1300
Electronic Eyepiece

1.30MP Electronic Eyepiece forMicroscope
Image Sensor: 1/3" 1.3MP CMOS
Valid Pixel: 1280X1024
USB Port: USB2.0
O/P Compatibility: Win7/10, Vista



MVV5000
Electronic Eyepiece

5.0MP Electronic Eyepiece for Microscope
Image Sensor: 1/2.5" 5.0MP CMOS
Valid Pixel: 2592 X 1944
USB Port: USB2.0
O/P Compatibility: Win7/10, Vista

MVV3000
Electronic Eyepiece

3.0MP Electronic Eyepiece for Microscope
Image Sensor: 1/2" 3.0MP CMOS
Valid Pixel: 2048 X 1536
USB Port: USB2.0
O/P Compatibility: Win7/10, Vista



MSR300
Electronic Eyepiece

0.30MP Electronic Eyepiece for Microscope
Image Sensor: 1/4" 0.30MP CMOS
Valid Pixel: 640 X 480
USB Port: USB2.0
O/P Compatibility: Win7/10, Vista

UM038
Portable LCD Video Microscope

Specifications:

- Image Sensor: 5 Mega Pixels (true resolution)
- LCD Panel: 3.5 inches
- Still Capture Resolution: 12M, 9M, 5M, 3M, 1.3M, VGA
- Video Capture Resolution: 12M, 9M, 5M, 3M, 1.3M, VGA
- Focus Range: Manual focus from 10mm to 50mm
- Frame Rate: Max 30f/s under 600 Lus Brightness
- Magnification Ratio: Up to 1000x
- TV Output: Available (to any monitor with TV in)
- Card Slot: Support Micro SD Card slot up to 32GB SDHC
- Light Source: 8 LED (adjustable by control wheel)
- Battery: Rechargeable lithium battery (recharged by adaptor or USB)
- Measurement: By software (Portable Caputure with OSD language: English, German, Spanish, French, Russian)
- Bundle Software: Portable Capture with measurement
- Product Size: L149 x W104 x H227 mm
- Weight: 1100g
- Certificates: With CE, FCC approval, RoHS compliance





Art No: DCM400R95

- Sensor Type: The Back-illuminated sCMOS
- Sensor Size: 2"
- Sensor Model: G400 BSI
- Color/Monochrome: Monochrome
- Image Resolution: 2048x2048
- Pixel Size: 11μmx11μm
- Quantum Efficiency: 95%@580nm
- Readout Noise: <4.5e-
- Full Well Capacity: 90,000e-
- Dynamic Range: 86dB
- Shutter Type: Rolling Shutter
- Exposure Mode: Manual
- Exposure Time: 0.02ms-10s
- Scan Mode: Progressive
- Bit Depth: 16bit
- Cooling: Peltier Class II(-10℃)
- Parameter Settings: White Balance,Gain,Noise Reduction,Gamma,Exposure Time,WDR,etc
- Frame Rate: 24fps (2048x2048)
- Data Transfer: USB3.0
- Data Cable: 1.8 meters USB3.0 cable
- PC Software: Mosaic LabVIEW/Matlab/Micromanager
- Compatible System: Window/Linux/Mac
- Optical Interface: M42-T mount/C mount
- Data Interface: USB3.0/5Gb/s
- Power Interface: 12V/8A power supply
- Operating Temperature: 0-60℃
- Operating Humidity: 10%-85%



Art No: DCM-500R

- Resolution: 5MP
- Imaige sensor: Sony ICX 282AQ
- CCD Scan Mode: Interline scanning
- Shutter: Electronic shutter
- CCD size: 2/3"
- Pixel size: 3.4umx3.4um
- G sensitivity: 280mV
- Resolution: 2580Hx1944V
- Filter: Color
- Optical port: standard C-mount
- Frame speed: 3fps(2568x1912) 12fps(1280x952) 15fps(636x472)
- Low-speed readout: Yes
- Bit Depth: 12bit
- Exposure control: Auto/Manual
- Exposure time: 1ms-20min
- Angle light control: Yes
- White balance: Auto/Manual
- Parameter Controlling: Image size, Bright, Gain, Exposure
- Data Interface: USB 2.0/480Mb/s
- USB Cable: 1.8 meter
- Operational Temperatrue: 0-60℃
- Humidity: 45-85%
- Storage temperature: -20-70℃
- Cooling temperature: Peltier class I(-30℃ from ambient)
- Package list: Camera(with C-mount), 1.8m USB Cable, Power transformer,CD(indudes measurement software, manual, driver and SDK)



Electronic Eyepiece TP Series

Art No.: TP5100	5.1M Pixels
Art No.: TP3000	3.0M Pixels
Art No.: TP2000	2.0M Pixels
Art No.: TP1300	1.3M Pixels
Art No.: TP0350	0.35M Pixels

- Microscope eyepiece camera with 23.2 diameter and compact size;
- Easy to extend to C or CS- Mount camera with high quality lens(optional);
- High-quality camera with Aptina CMOS sensor;
- Auto white balance and auto-exposure; Brightness, contrast, chroma, and saturation can be adjusted;
- High-speed USB2.0 interface and high frame rate video display keep the screen smooth without interruption;
- With advanced video & image processing application;



Electronic Eyepiece TPP Series

Art No.: TPP14000	14.0M Pixels
Art No.: TPP10000	10.0M Pixels
Art No.: TPP9000	9.0M Pixels
Art No.: TPP8000	8.0M Pixels
Art No.: TPP5100	5.1M Pixels
Art No.: TPP3100	3.1M Pixels
Art No.: TPP2000	2.0M Pixels
Art No.: TPP1300	1.3M Pixels
Art No.: TPP0350	0.35M Pixels

- Standard C-Mount camera with Aptina CMOS sensor;
- With hardware resolution among 0.35M to 14M;
- Integrated zinc aluminum alloy housing;
- USB2.0 interface ensuring high speed data transmission;
- Ultra-Fine color engine with perfect color reproduction capability;
- With advanced video & image processing application ToupView;
- Providing Windows/Linux/OSX multiple platform SDK;



Microscope Adapter Adjustable



Microscope Adapter Fixed

- With 0.37X,0.50X,0.75X Magnification
- 23.2 and 30.75mm Tube Size

Art No.	Field Size(mm)	Compatible Sensor
Adjustable Microscope Adapter		
MAA037	18X0.37=6.7	1/4"~1/3"
MAA050	18X0.50=9	1/2"~2/3"
MAA075	18X0.75=12	1/1.8"~1"
Fixed Microscope Adapter		
MAF037	18X0.37=6.7	1/4"~1/3"
MAF050	18X0.50=9	1/2"~2/3"
MAA075	18X0.75=12	1/1.8"~1"



Microscope Objectives
Art No.: MIC001

Set of 4pcs, 4x,10x,40x and 100x
Conjugate Distance 195mm



Microscope Objectives
Art No.: MIC002

Set of 4pcs, 4x,10x,40x and 100x
Conjugate Distance 195mm



Microscope Objectives
Art No.: MIC003

Set of 4pcs, 4x,10x,40x and 100x
Conjugate Distance 195mm



Microscope Objectives
Art No.: MIC004

Set of 4pcs, 4x,10x,40x and 100x
Conjugate Distance 185mm

Wooden Slide Box

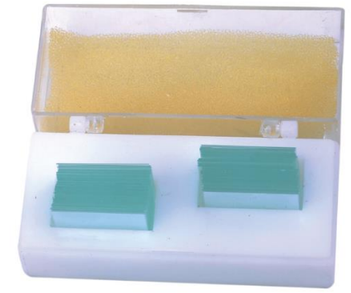
1) **WSB100,** Wooden Slide Box, 100 Slide Capacity
2) **WSB050,** Wooden Slide Box, 50 Slide Capacity
3) **WSB025,** Wooden Slide Box, 25 Slide Capacity
4) **WSB015,** Wooden Slide Box, 15 Slide Capacity





Microscope Slide 1" x 3"

1) **MS7101,** Plain Slide,Ground Edges
2) **MS7102,** Plain Slide,Unground Edges
3) **MS7103,** Single Concave Slide,Ground Edges
4) **MS7104,** Double Concave Slide,Ground Edges
5) **MS7105,** Single Frosted End on One Side,Ground Edges
6) **MS7106,** Frosted Both Ends on One Side,Ground Edges
7) **MS7107,** Double Frosted Sides at One End,Ground Edges
8) **MS7108,** Frosted Both Ends on Both Sides,Grounded Edges



Microscope Cover Slips, NR..1.0

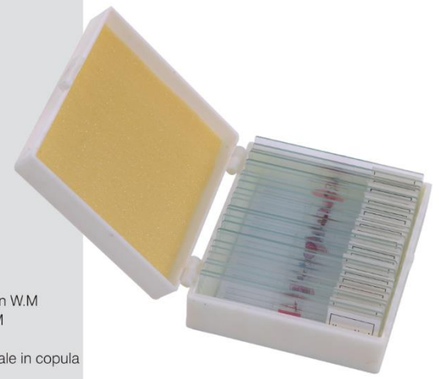
1) **MCS18x18OZ,** Glass Cover Slips, 18x18mm,1 oz
2) **MCS22x22OZ,** Glass Cover Slips, 22x22mm,1 oz
3) **MCS18x18,** Glass Cover Slips, 18x18mm, pk/100
4) **MCS20x20,** Glass Cover Slips, 20x20mm, pk/100
5) **MCS22x22,** Glass Cover Slips, 22x22mm, pk/100
6) **MCS24x24,** Glass Cover Slips, 24x24mm, pk/100
7) **MCS22x32,** Glass Cover Slips, 22x32mm, pk/100
8) **MCS24x32,** Glass Cover Slips, 24x32mm, pk/100
9) **MCS22x40,** Glass Cover Slips, 22x40mm, pk/100
10) **MCS24x40,** Glass Cover Slips, 24x40mm, pk/100
11) **MCS24x50,** Glass Cover Slips, 24x50mm, pk/100
12) **MCS24x60,** Glass Cover Slips, 24x60mm, pk/100

4200	Plant root tip,L.S.(corn)
4201	Wheat root tip L.S
4202	Young root tip C.S(broad bean)
4203	Cabbage L.S(Hydrilla Verticillata)
4205	Pumpkin stem L.S
4206	Monocotyledon stem C.S
4207	Dicotyledon stem C.S(Sunflower)
4208	Woody dicotyledon stem C.S
S4208	Privet leaf C.S
4210	Broad bean leaf epidermis W.M
4211	Penicillium W.M
4212	Actinomyces Sec
4213	Chlamydomonas W.M
4214	Bacteria three types Smear
4215	Yeasts W.M
4217	Hydra L.S
4218	Earthworm C.S
4219	Onion root tip mitosis Sec
4220	Animal mitosis Sec(Ascarid egg)
4221	Frog cleavage stage,Sec.
4222	Frog blastula stage,Sec.
4223	Frog gastrula late stage,Sec.
4224	Drosophila salivary gland chromosomes W.M
4225	Pine leaf C.S
4226	Plasmodesma,Sec.
4227	Spirogyra conjugation W.M
4228	Frog egg one cell,Sec.
4229	Frog egg two cell,Sec.
4230	Frog early gastrula,Sec.
4231	Lichens,Sec.
4232	Moss archegonial L.S
4233	Moss antheridium L.S
4234	Moss protonema W.M
4235	Fern leaf Sec
4236	Fern prothalium W.M
4237	Fern young sporophyte W.M
4238	Pollen germination W.M
4239	Lily ovary Sec.
4240	Lily anther Sec.
4241	Herba Capsellae young embryo Sec
4242	Herba Capsellae mature embryo Sec

4243	Winter jasmine Leaf W.M
4251	Simple squamous epithelium W.M
4252	Stratified squamous epithelium Sec
4253	Human hair follicle Sec
4254	Human sweat glands Sec
4255	Dense connective tissue(Tendon L.S)
4256	Laxity connective tissue
4257	Human blood smear
4258	Skeletal muscle L.S & C.S
4259	Smooth muscle separated W.M
4260	Cardiac muscle L.S
4261	Motor neuron W.M
4262	Spinal cord C.S
4263	Motor nerve ending W.M
4264	Stomach wall Sec
4265	Kidney L.S
4266	Artery & vein vascular C.S
4267	Small intestine Sec
4268	Ciliation epithelium Sec
4269	Lymph node Sec
4270	Lung vascular injection Sec
4271	Kidney vascular injection Sec
4274	Spermary Sec
4275	Ovary Sec
4276	Sperm smear
4301	Volvox W.M
4302	Aspergillus W.M
4303	Mushroom Sec
4304	Corn seed L.S
4306	Paramecium conjugation generation W.M
4307	Paramecium fission generation W.M
4312	Taenia solium cysticerus W.M
4313	Schistosoma W.M.of male and female in copula
4314	Tapeworm mature proglottid W.M
4315	Schistosoma male W.M
4316	Schistosoma female W.M
4320	Male & female Ascarid C.S
4322	Honey bee third pair of legs W.M
4323	Honey bee mouth parts W.M
4324	Housefly mouth parts W.M
4234	Butterfly mouth parts W.M
4325	

4326	Home mosquito female mouth parts W.M
4328	Locust mouth parts W.M
4330	Hydra budding, W.M
4331	Letter"e", W.M
4332	Epidermal cell of onion W.M
4333	Spirogyra W.M
4334	Mouth epithelium W.M
4335	Ascarid egg W.M
4336	Rhizopus nigricans W.M
4337	Normal chromosome W.M
4338	Locust spermary,showing meiosis W.M

Prepared Microscope Slide







Plastic Slide Box

1) **PSB100,** Plastic Slide Box, 100 Slide Capacity
2) **PSB050,** Plastic Slide Box, 50 Slide Capacity
3) **PSB025,** Plastic Slide Box, 25 Slide Capacity
4) **PSB015,** Plastic Slide Box, 15 Slide Capacity
5) **PSB010,** Plastic Slide Box, 10 Slide Capacity
6) **PSB006,** Plastic Slide Box, 6 Slide Capacity
7) **PSB005,** Plastic Slide Box, 5 Slide Capacity
5) **PSB003,** Plastic Slide Box, 3 Slide Capacity
6) **PSB002,** Plastic Slide Box, 2 Slide Capacity
7) **PSB001,** Plastic Slide Box, 1 Slide Capacity
Color: Orange, White, Yellow, Blue and Green available.



Bare Handed Microtome

MCT01, Packaged in Foam Card Box with a Utility Knife

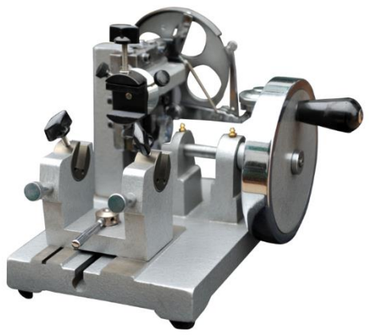


Bare Handed Microtome

MCT02, Packaged in Wooden Box, with a Razor Knife

MCT03
Rotary Microtome

Mainly used in for slicing animal and plant tissue .
Adopting high precision lead screw and guide rail to ensure accurate section, it has advantages of easy operation, stable performance, favorite price and wide application.
Technical Data:
- Section thickness: 1 – 25μm
- Minimum setting value: 1μm
- Maximum section size: 35 x 25mm
- Horizontal specimen stroke: 35mm
- Vertical specimen stroke: 46mm
- Dimensions: 300 x 280 x 280mm
- Net Weight: 22.5kg



MCT04
Rotary Microtome

Rotary Microtome improved in appearance and precision on the basis of microtome model MCT03.
LCD show section counting,alarm system , Smooth-running hand wheel, Compact, ergonomic design
Technical Data:
- Section thickness: 1 - 25μm
- Minimum setting value: 1μm
- Maximum section size: 35 x 25mm
- Horizontal specimen stroke : 35mm
- Vertical specimen stroke : 46mm
- Dimensions: 335×350×300mm
- Net Weight: 26.5kg



Colper Laboratory Equipment



Pocket Size pH Meter

PH-03(I)
Measuring Range: 0.00-14.00pH
Resolution: 0.01pH
Accuracy: ±0.1pH
Working Temperature: 0°C~50°C
Automatic Temperature Compensation: 0°C~50°C



Waterproof Pen-type pH Meter

PH-03(II)
Measuring Range: 0.00-14.00pH
Resolution: 0.01pH
Accuracy: ±0.1pH
Working Temperature: 0°C~50°C
Automatic Temperature Compensation: 0°C~50°C



Pocket Size pH Meter

PH-009(I)
Measuring Range: 0.0～14.0pH
Resolution: 0.1pH
Accuracy: ±0.2pH
Operating Temperature: 0°C~50°C



Pocket Size pH Meter

PH-009(I)A
Measuring Range: 0.0～14.0pH
Resolution: 0.1pH
Accuracy: ±0.1pH
Working Temperature: 0°C~50°C
Automatic Temperature Compensation: 0°C~50°C



Pocket Size pH Meter

PH-009(II)
Measuring Range: 0.00-14.00pH
Resolution:0.01pH
Accuracy: ±0.1pH
Working Temperature: 0°C~50°C
Automatic Temperature Compensation: 0°C~50°C



Pen-Type pH Meter

PH-009(II)B
Measuring Range: 0.00 ～ 14.00pH
Resolution:0.01pH
Accuracy:±0.1pH
Temperature Compensation: 0℃ ～50℃
Operating Temperature: 0℃ ～50℃
With backlight



pH Meter With Temperature

PH-009(III)
Measuring Range: 0.00-14.00pH, 0°C~50°C
Resolution: 0.01pH, 0.1°C
Accuracy: ±0.1pH, 1°C
Working Temperature: 0°C~50°C
Automatic Temperature Compensation: 0°C~50°C



Waterproof Handy pH Meter

PH-096
Measuring Range: 0.00-14.00pH
Resolution: 0.01pH
Accuracy: ±0.01pH
Working Temperature: 0°C~50°C
Automatic Temperature Compensation: 0°C~50°C



Economical pH Meter

PH-98102
Measuring Range: 0.00-14.00pH
Resolution: 0.01pH
Accuracy: ±0.2Ph,and ±0.1pH at 20°C
Working Temperature: 0°C~50°C



Pen-Type pH Meter

PH-98103
Measuring Range: 0.00-14.00pH
Resolution: 0.01pH
Accuracy: ±0.2Ph, and ±0.1pH at 20℃
Working Temperature: 0℃~50℃



Pen-Type Automatic Calibration pH Meter

Art No:PH-618
Measuring Range: 0.00 ~ 14.00PH,
Temperature 0℃ ~ 50℃ (32℉ ~ 122℉)
Resolution: 0.01pH/ 0.1℃/ 0.2℉
Accuracy: ±0.03pH/ ±0.5℃/ ±0.1℉
Temperature Compensation: 0℃ ~ 50℃
Operating Temperature: 0℃ ~ 50℃
Calibration Method: Two point automatic calibration
(Electrode changeable)
Automatic turnoff in 4 minutes
Waterproof Grade: IP65



Waterproof Pen-Type pH Meter

Art No:PH-037
Measuring Range: 0.00 ~ 14.00pH
Resolution: 0.01pH
Accuracy: ±0.1pH
Temperature Compensation: 0℃ ~ 50℃
Operating Temperature: 0℃ ~ 50℃



Champ pH/ Temperature Tester

Art No:PH-081
Measuring Range: 0.00 ~ 14.00PH,
Temperature 0℃ ~ 55℃
Resolution: 0.01pH/ 0.1℃
Accuracy: ±0.1pH/ ±1.0℃
Temperature Compensation: 0℃ ~ 50℃
Operating Temperature: 0℃ ~ 50℃



Fertility and pH meter

PH-100



Moisture Meter

PH-101



pH Meter

PH-102



Moisture Meter

PH-103



Two-Way Meter

PH-104
Moisture and pH meter



Three-Way Meter

PH-105
Moisture,Light and pH meter



Two-Way Meter

PH-106
Moisture and pH meter

Pen Type Ph Meter PH-10 Series



Features:
1. With temperature probe and automatic temperature compensation
2. 1 to 3 points push-button calibration with auto buffer recognition (USA and NIST standards).
3. Auto-hold function freezes stable reading for easy viewing and recording.
4. System menu, the pH buffer standard, number of calibration points, Manual data lock,
5. Replaceable electrode module reduces maintenance and replacement cost.
6. Waterproof feature to ensure complete protection in harsh environments.

Technical Specificaions:

Model No.	PH-100	PH-10	PH-100W	PH-10W
Range	0.00-14.00pH/0-50℃/32-122F			
Accuracy	±0.02pH/1℃/2F	±0.1pH/1℃/2F	±0.01pH/1℃/2F	±0.1pH/1℃/2F
Resolution	0.01pH/0.1℃/1F	0.1pH/0.1℃/2F	0.01pH/0.1℃/1F	0.1pH/0.1℃/2F
Calibration Points	3 points			
Calibration Solutions	USA (pH4.01/7.00/10.01) OR NIST (pH4.01/6.86/9.18)			
Temperature Compensation	0-50℃ 32-122F			
Hold Function	Automatic			
Temperature Display	Display			
Date Lock	Manual locking			
Sensor Type	Internal		External	
Working Condition	0-50℃ 32-122F			
Power supply type	LR44 batteries 4			



Economical Rugged PH/ORP Meter Art No.: PH1300K

This PH/ORP meter has the latest high performance electronics ensuring the stable and accurate readings.
Characteristics:
1. Waterproof
2. Fully Shockproof
3. Hold Function
4. Automatic Temperature Compensation
5. Automatic Power Off
6. Large LCD Display

Technical Specificaions:

Mode	PH	Voltage(mV)	Temperature
Range	0-14pH	-899.9~899.9	0-60℃/32-140F
Resolution	0.01pH	0.1mV	0.1℃ (0.1F)
Accuracy	±0.02pH	±1mV	±0.5℃(±0.9F)
Responding Time	20s	20s	30s
Calibration Points	Up to 5 points		
Temperature Compensation	Auto (ATC) 0-60℃ or 32-140℉		
Sensor Type	Plastic Electrode		
Working Condition	0-50℃ 32-122F		
Power supply type	2xAAA Batteries		



Economical Rugged DO Meter Art No.: DO1500K

This DO meter has the latest high performance electronics ensuring the stable and accurate readings.
Characteristics:
1. Waterproof
2. Fully Shockproof
3. Hold Function
4. Automatic Temperature Compensation
5. Automatic Power Off
6. Large LCD Display

Technical Specificaions:

Resolution	0.1	0.01	0.1℃(0.1° F)
Accuracy	±1.5%FS	±1.5%FS	±0.5℃(±0.9F)
Responding Time	1 min		
Calibration Points	At most 2 points		
Temperature Compensation	Auto (ATC) 0-50℃ or 32-122℉		
Sensor Type	Plastic Electrode		
Working Condition	0-50℃ 32-140℉		
Power supply type	2xAAA Batteries		



Portable pH Meter

Art No:PH-3012
Measuring Range: 0.00 ～ 14.00pH
Resolution: 0.01pH
Accuracy: ±0.1pH
Temperature Compensation: 0℃ ～ 50℃
Operating Temperature: 0℃ ～ 50℃
In a plastic brief case



Microcomputer Digital pH Meter

Art No:PHS-3C
Measuring Range: 0.00 ～ 14.00PH,
mV: ±1999mV, Temperature: 0℃ ～ 100℃
Resolution: pH: 0.01pH, temperature: ±1℃
Accuracy: ±0.01pH/ ±1.0℃
Temperature Compensation: 0℃ ～ 100℃
(Manual compensation)
Electrode: E201-C plastic composite electrode
Operating Temperature: 0℃ ～ 40℃ and relative humidity＜85%



Desktop pH Meter

Art No:PHS-25HZ
Functions: pH / mV
Measuring Range: (0.00～14.00) pH (0～±1999) mV
Resolution: 0.01pH/ 1mV
Accuracy: ±0.05pH and ±10mV
Temperature Compensation: (0 ～ 60) ℃
Stability: ± 0.01 pH/ 12h
Ambient Temperature: (5 ～ 45) ℃
Relative Humidity: ≤ 85% RH
Operating Temperature: (0 to 60) ° C



Desktop pH Meter

Art No:PHS-3C-HZ
Functions: pH / mV
Measuring range: (0.00～14.00) pH (0～± 1999) mV
Resolution: 0.01pH/ 1mV
Accuracy: ±0.01pH and ±1%FS
Temperature Compensation: (0 ～ 60) ℃
Stability: ± 0.01 pH/ 12h
Ambient Temperature: (5 ～ 45) ℃
Relative Humidity: ≤ 85% RH
Operating Temperature: (0 to 60) ℃



Microcomputer Digital pH Meter

Art No:PHS-3CW-HZ
Measuring Range: 0.00 ～ 14.00PH,
mV: ±1999mV, Temperature: 0℃ ～ 100℃
Resolution: pH: 0.01pH/ 0.1pH, temperature: ±1℃
Accuracy: ±0.01pH/ ±1.0℃
Temperature Compensation: 0℃ ～ 100℃
(Manual compensation)
Electrode: E201-C plastic composite electrode
Operating Temperature: 0℃ ～ 40℃ and relative humidity＜85%
Has the function of data storage.



Microcomputer Precision Conductometer

Art No:DDS-307-HZ
Measurement Range of Conductivity: (0 ～ 199.9)μ s/cm; (200～ 1999)μ s/cm;
(2 ～ 19.99) ms/cm; (20 ～ 199.9) ms/cm;
Resolution: 0.1/1μ s/cm; 0.01/0.1ms/cm;
Accuracy: ± 1.0% FS
Optional Electrode Constant: 0.1, 1, 10
Temperature Compensation Range: 0 ～ 50 ℃
(manual / automatic) Temperature Coefficient: 2.0%/ ℃
Data Storage: 50 groups
Storage Content : number, measurement,
units of measurement and the temperature value
Working Conditions: 5 ～ 35 ℃ in the relative humidity< 85%



DDS-307 Benchtop Conductivity Meter

Specifications:
Conductivity Range: 0.001～2x10⁵uS/cm

- Accuracy: ±1% of Full Scale
- Temperature Range: 0-35℃
- Power Requirements: DC 9V
- Dimension: 210x205x80mm

Operating Conditions:

- Ambient Temperature: 5～40℃
- Relative Humidity: <85%
- No disturbance of magnetic field or distinct tremble around instrument

Scale	Range	Electrode
2uS/cm	0.001～2uS/cm	DJS-1C Lucency
20uS/cm	0.01～20uS/cm	DJS-1C Lucency
200uS/cm	0.1～200uS/cm	DJS-1C Platinum Black
2mS/cm	0.001～2mS/cm	DJS-1C Platinum Black
20mS/cm	0.01～20mS/cm	DJS-1C Platinum Black
200mS/cm	0.1～200mS/cm	DJS-10C Platinum Black



Desktop pH Meter

Art No: PHS-3C-EN
Functions:
1.Large screen, LCD display,dual parameter
2.Automatic buffer recognition and two-point calibration
3.It has the function of manual temperature compensation.
4.It is equipped with E-201-C pH combined electrode.
Specifications:
1.Measuring range:
pH：(0.00～14.00)pH
mV：(-1999～1999)mV； mV(automatic± polarity display)
2.Resolution:
pH：0.01pH
mV：1mV
3.Accuracy:
pH：±0.01pH±1 bit
mV：±0.1%（FS）
4.Input impedance＞=1×10¹² Ω
5.Stability:（±0.01pH±1bit）/3h
6.Temperature compensation range:
Manual(0.0～60.0)℃



Desktop Conductivity Meter

Art No: DDS-307A
Functions:
1.Large screen and LCD segmented display
2.It functions as automatic and manual temperature compensation.
3.If matched with the titanium alloy sensor of 0.01cm-1 and sealed measuring reservoir, it can test high purity water.
4.It is equipped with DJS-1C conductancesensor (platinum black) and T-818-B-6 temperature sensor.
Specifications:
1.Measuring range:
Conductivity: 0.00μS/cm～100μS/cm
TDS：0～1000 mg/L
Temperature: 0.0～60.0 ℃
2.Accuracy:
Conductivity: ±0.5%FS
TDS：±1.0%FS)
Temperature: ±0.3℃±1 bit
3.Stability:（±0.33%FS±1 digital）/3h
4.Temperature compensation range:
Manual/Automatic (0.0～40.0)） ℃
5.Temperature compensation coefficient: 2%



Portable Dissolved Oxygen Meter

Art No: JPB-607A
Functions:
1.3 1/2 LCD display(blue backlight selectable)
2.Automatic temperature compensation and quick response
3.It supports zero oxygen and full scale calibration
4.It is portable for easy use.
5.It is equipped with DO-958-S dissolved oxygen sensor.
Specifications:
1.Measuring range
Dissolved oxygen: (0.0～20.0)mg/L
Temperature: (0.0～40.0)°C
2.Accuracy:
Dissolved oxygen: ±0.30 mg/L
Temperature:±0.5°C±1 digit
3.Residual current＜=0.10 mg/L
4.Response time＜=45s(90%respond at 20°C)
5.Stability:(±0.10mg/L)/3h
6.Salinity calibration range: (0.0～35.0)g/L
7.Temperature compensation range:
Automatic(0.0～40.0)°C



Portable pH Meter

Art No: PHB-4
Functions:
1.LCD backlight display
2.Simultaneous display of pH value, temperature or mV（ORP）
3.It has manual temperature compensation function and supports two-point calibration.
4.Novel appearance, portable and easy operation
5.It is equipped with E-201-C pH combined electrode.
Specifications:
1.Measuring range
pH:(0.00～14.00)pH
mV:(-1400～1400)mV
2.Resolution
pH:0.01pH
mV:1mV
3.Accuracy
pH:±0.03pH±1bit
mV:±0.2%FS
4.Input impedance＞=3×10 Ω
5.Stability:（±0.03pH± byte）/3h
6.Range of temperature compensation:
manual (0.0～60.0)℃



PH-016 Bench ph Meter		
Model	PH-016	
Measuring range	PH	0.00~14.00PH
	mV	0~±1999mV
	Temp	0~100℃
Accuracy	PH	±0.01pH
	mV	±0.1%F・S±1digit
	Temp	±0.4℃
Resolution	PH	0.01pH
	mV	1mV
	Temp	0.1℃
Environment	Temperature:0℃~50℃ Humidity: ≤95%	
Display	4-digital LCD	
Power Supply	AC110V or AC 220V 50/60Hz	
Input Impedance	1012 Ohm	
Dimensions	240mmx185mmx100mm	
Weight	660g	



PH-016A Bench ph Meter	
Model	PH-016A
Range	0.00~14.00pH
Accuracy	±0.05PH
Resolution	0.01PH
Input Impedance	1012 Ohm
Calibration	Manual 2 point, through trimmer
Environment	Temperature: 0℃~50℃ Humidity: ≤95%
Power Supply	AC 220V, DC6V
Dimensions	240mmx158mmx100mm



PH-013M Portable pH/mV/Temperature Meter		
Model	PH-013M	
Measuring range	PH	0.00~14.00PH
	mV	0~±1999mV
	℃	0~100℃
Resolution	PH	0.01PH
	mV	1mV
	℃	0.1℃
Accuracy	PH	±0.01pH
	mV	±0.1% F・S±1digit
	℃	±0.4℃
Display	4-digital LCD	
Power Supply	1x9V	
Environment	Temperature: 0℃~50℃ Humidity: ≤95%	
Input Impedance	1012 Ohm	



Desktop PH Meter

Art No: PHS-25
Functions: pH / mV
Measuring range: (0.00 ~ 14.00) pH/(0 ~ ± 1999) mV
Resolution: 0.01pH / 1mV
Accuracy: ±0.05pH and ±10mV
Temperature Compensation: (0 ~ 99) ℃, manual



Digital PH Meter YKP61 Series

Product Description:
With large screen LCD display, Blue back light Controllable,and elaborate appearance design, easy to carry.

Features:
I. With intelligent functions of time display, fully automatic calibration, automatic power off, power-off protection, automatic calibration, automatic or manual temperature compensation, automatic diagnosis and etc.
II. Undervoltage prompt and automatic power off can extend battery life.
III. Optional 5 kinds of PH buffer solution can make 1-3 points automatic calibration.
IV. Can test PH value for ultrapure water, pure water and boiled water by adjusting equipotential point and special electrode.
V. Ability to store test result, cancel, view and print. Can store 1000 sets of data.
VI. With waterproof portable suitcase and folding holder, the level of protection for outer layer is IP67.
VII. Automatic identification of 12 kinds of PH standard buffer solution. There are USA, NIST and CH series of standard buffer solution for option. Custom solution calibration.
VIII. Automatic identification of 8 kinds of conductivity standard solution. There are USA and CH series of standard solution for option. Custom solution calibration.

Technical Specificaions:

Model No.		YKP613	YKP612	YKP611
Category	Description	Basic features and specifications		
PH	Measuring range	(-2.00~19.99)pH	/	(-2.00~19.99)pH
	Resolution	0.1/0.01 pH	/	0.1/0.01 pH
	Accuracy	Meter:±0.01pH; Overall: ±0.02pH	/	Meter:±0.01pH;Overall: ±0.02pH
	Input impendance	⩾1×1012 Ω	/	⩾1×1012 Ω
	Stability	±0.01 pH/3h	/	±0.01 pH/3h
	Temp. compensation range	(0~100)℃(automatic)	/	(0~100)℃(automatic)
ORP	Measuring range (mV/ORP/EH)	-1999mV ~ 0 ~ 1999mV		-1999mV ~ 0 ~ 1999mV
	Resolution	1mV		1mV
	Accuracy	±0.1% FS		±0.1% FS
Conductivity	Measuring range	Conductivity: (0.00~19.99) μS/cm(20.0~199.9) μS/cm(200~1999) μS/cm(2.00~19.99)mS/cm (20.0~199.9)mS/cm TDS:(0 ~ 100)g/L Salinity: (0~100)ppt Resistivity: (0~100)MΩ · cm	Conductivity: (0.00~19.99) μS/cm(20.0~199.9) μS/cm(200~1999) μS/cm(2.00~19.99)mS/cm (20.0~199.9)mS/cm TDS: (0~100)g/L Salinity: (0~100)ppt Resistivity: (0~100)MΩ · cm	/
	Resolution	0.01/0.1/1μS/cm 0.01/0.1 mS/cm	0.01/0.1/1μS/cm 0.01/0.1 mS/cm	/
	Accuracy	±1.0% FS, Overall:±1.5% FS	0.01/0.1/1μS/cm 0.01/0.1 mS/cm	/
	Temp. compensation range	(0 ~ 50)℃(manual)	(0 ~ 50)℃(manual)	/
	Electrode constant	0.1 / 1 / 10 cm-1	0.1 / 1 / 10 cm-1	/
Other Technical Parameters	Data storage	1000 groups		
	Power	Two AA batteries (1.5V x2)		
	Size and weight	(360×270×76)mm/1.6Kg		
Working Condition	Environment temperature	5~35℃（0.01grade）		
	Environmental humidity	≤85%	/	/
	IP rating	Ip57 Dustproof and waterproof	/	/



Desktop PH Meter
PHS-3C-YK

Product Description:
I.Instrument level:0.01(level)
II.pH:(-2.00~18.00)pH
III.Low price, incredible value
IV.Simple,effecttive.

Features:
- LED digital display
- Manual temperature compensation
- 1~2 point automatic calibration

Technical parameters

MODEL		PHS-3C-YK
PH	Range	0~14.00pH
	Resolution	0.01 pH
	Accuracy	±0.01pH±1digit
	Input resistance	≥1×10^{12} Ω
	Stability	±0.01 pH±1digit/3h
	Temperature compensation	(0~60)℃, manual
mV	Range	-1999mV~0~1999mV
	Resolution	1mV
	Accuracy	±1mV±1digit
Temperature	Range	no
	Resolution	no
	Accuracy	no
Dimension and weight		(300×200×90)mm / 1.3kg



Art No.: PHS-3E-YK

Product Description:
PH Meter PHS-3E-YK Can test or show pH, temperature or mV, temperature, adopts two-point calibration.

Features:
I. Large LCD with blue background can display both pH and temperature value at the same time.
II. There is manual and automatic tempearture compensation, which can be chosen. It needs to be equiped a temperature electrode if user wants automatic tempearture compensation.
III. Two point automatic calibration.

Technical parameters

MODEL		PHS-3E-YK
PH	Range	0~14.00pH
	Resolution	0.1/0.01 pH
	Accuracy	±0.01pH±1digit
	Input resistance	≥1×10^{12}Ω
	Stability	±0.01 pH±1digit/3h
	Temperature compensation	(0~100)℃, manual
mV	Range	-1999mV~0~1999mV
	Resolution	1mV
	Accuracy	±1mV±1digit
Temperature	Range	(0~99.9)℃
	Resolution	0.1℃
	Accuracy	±0. 3℃±1digit
Dimension and weight		(300×200×90)mm / 1.5kg



Hand-Held Refractometer

REF003
Measuring Range: 0-32% Brix

REF004
Measuring Range: 28-62% Brix

REF005
Measuring Range: 0-45% Brix

REF006
Measuring Range: 28-62% Brix

REF007
Measuring Range: 0-90% Brix

REF008
Measuring Range: 0-80% Brix,2 ranges:0-50% and 50%-80%

REF009
Measuring Range: 58-92% Brix

REF011
Measuring Range: 0-100% Sality

REF012
Measuring Range: 0-28% Sality

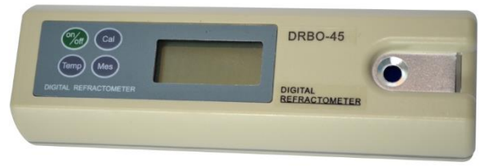
REF013
Measuring Ranges: 0-35% Brix/0-28% Sality

Digital Refractometer DRB/S Series

Art No:REF001

1. DRB series Digital Refractometer for Brix are developed for working with sugar related liquids (fruit juices、soft drinks、wine), help monitor and control sugar concentration in foods and beverages.
2. The DRS series are developed for measuring the concentration of ketchup, mayonnaise,pickle juice, salt water and brine. The DRS series proves themselves invaluable for agriculture, foodprocessing and wildlife management.

Features:
1. Temperature Measurement Range：0℃-40℃（32-104°F）
2. Precision of Measurement temperature：±1℃(2°F)
3. Measurement temperature Resolution：0.1℃
4. Operation Temperature：0-35℃（32-90°F）
5. Storage temperature：0-50℃（32-122°F）
6. Dimension：185×59×45mm
7. Weight：230g
8. Power Supply：1battery（9v）
9. Operating Time：More than 2000 times per battery
10. Automatic Temperature Compensation
11. Automatic Shut Off
12. Conversion between Centigrade and Fahrenheit Degree
13. Alarm of Low Voltage



Technical Specificaions:

Order No.	Scale	Range	Div.	Accur.
DRB0-45	Brix	0-45%	0.10%	±0. 2%
DRB0-45nD	Brix	0-45%	0.1%	±0. 2%
	Refractive Index	1.3330-1.4098	0.0001	±0.0003
DRB28-65	Brix	28-65%	0.10%	±0. 2%
DRB28-65nD	Brix	28-65%	0.1%	±0. 2%
	Refractive Index	1.3770-1.4535	0.0001	±0.0003
DRB58-92	Brix	58-92%	0.10%	±0. 2%
DRB58-92nD	Brix	58-92%	0.1%	±0. 2%
	Refractive Index	1.4370-1.5232	0.0001	±0.0003
DRBS-300	Brix	0-35%	0.1%	±0. 2%
	Salinity	0-28%	0.1%	±0. 2%
	Refractive Index	1.3330-1.3900	0.0001	±0.0003
DRS0-28	Salinity	0-28%	0.10%	±0. 2%
DRS0-28nD	Salinity	0-28%	0.1%	±0. 2%
	Refractive Index	1.3330-1.3900	0.0001	±0.0003
RS0-28	Brix	0-35%	0.1%	±0. 2%
	Salinity	0-28%	0.1%	±0. 2%
	Refractive Index	1.3330-1.3900	0.0001	±0.0003



Portable Digital Refractometer

Art No: REF002 series
Any Brix/ Salinity measuring ranges available upon request Multi scale measurement
Temperature Measurement Range: 0℃ ~ 40℃ (32℉ ~ 104℉)
Precision of Temperature Measurement: ±0.5℃/ ±1.0℉
Automatic Temperature Compensation
Automatic power off
Dual temp. conversion
Low voltage warning
Weight:200g
Dimension:135×65×40mm

Technical Specificaions:

Order No.	Scales	Ranges	Divisions	Accuracy
DBR35	BRIX / RI	0~35% / 1.3330~1.3900	0.1 / 0.0001	±0. 2 / ±0. 0003
DBR45		0~45% / 1.3330~1.4098		
DBR65		28~65% / 1.3770~1.4535		
DBR92		58~92% / 1.4370~1.5233		
DBR85		0~85% / 1.3330~1.5100		
DBR95		0~95% / 1.3330~1.5400		
DHN1	BRIX / BAUME / WATER(IHC2002) / RI	58~92% / 38~34 / 13~25 / 1. 4370~1. 5233	0.1 / 0. 1 / 0. 1 / 0. 0001	±0. 2 / ±0. 1 / ±0. 1 / ±0. 0003
DHN12	BRIX / BAUME / WATER(GB) / RI	58~92% / 38~34 / 17~27 / 1. 4370~1. 5233		
DSA1	SALINITY / RI	0~28% / 1. 3330~1. 3900	1 / 0. 0001	±0. 2 / ±0. 0003
DSA2	Sea water SG	0~100PPT / 1. 000~1. 070		



Digital Refractometer DR Series

Art NO: REF014

Portable instrument，DR series refractometer using linear CMOS sensor with high precision and great repeatability.

The shell of the product is made of high-performance waterproof material, also has the function of anti-falling and anti-knock. The product has low power consumption; one No.7 battery could measure more than 15000 times.

This product is small and portable with low price, it suitable for daily health care, food and beverage industry procurement, medical care, automotive and other industries.

great repeatability.

The shell of the product is made of high-performance waterproof material, also has the function of anti-falling and anti-knock. The product has low power consumption; one No.7 battery could measure more than 15000 times.

This product is small and portable with low price, it suitable for daily health care, food and beverage industry procurement, medical care, automotive and other industries.

Features:

Measure Time: 3S
Protection Class: Ip65
Environment Temperature: 0~50°C(32~144℉)
Sample Volume Needed: >0.2ml
Power Supply: 1×AAA battery
Dim/G.W: 58(W)×25(D)×121(H)mm, 90g(excluding battery)

Series	Order No.	Scale's Name	Scale's No.	Range	Resolution	Accuracy
Brix%	DR-101	Brix	S01	0.0--50.0%	0.10%	±0.2%
		Refractive Index°	S02	1.3330--1.4200nD	0.0001nD	±0.0003nD
	DR-102	Brix	S01	0.0--90.0%	0.10%	±0.2%
		Refractive Index°	S02	1.3330--1.5177nD	0.0001nD	±0.0003nD
	DR-103	Dextran	S01	0.0--10.6%	0.10%	±0.2%
		Refractive Index	S02	1.3330--1.4200nD	0.0001nD	±0.0003nD
	DR-104	Fructose	S01	0.0--68.9%	0.10%	±0.2%
		Refractive Index	S02	1.3330--1.5177nD	0.0001nD	±0.0003nD
	DR-105	Glucose	S01	0.0--59.9%	0.10%	±0.2%
		Refractive Index	S02	1.3330--1.5177nD	0.0001nD	±0.0003nD
	DR-106	Lactose	S01	0.0--16.5%	0.10%	±0.2%
		Refractive Index	S02	1.3330--1.4200nD	0.0001nD	±0.0003nD
	DR-107	Maltose	S01	0.0--15.6%	0.10%	±0.2%
		Refractive Index	S02	1.3330--1.4200nD	0.0001nD	±0.0003nD
Salinity	DR-201 (sodium chloride NaCl)	Salinity	S01	0.0--28.0%	0.10%	±0.2%
		Salinity	S02	0--280‰	1‰	±2‰
		Specific gravity	S03	1.000-1.217	0.001	±0.002
		Refractive Index	S04	1.3330--1.4200nD	0.0001nD	±0.0003nD
	DR-202 (sea water)	Salinity	S01	0--100‰	1‰	±2‰
		Chlorinity	S02	0--57‰	1‰	±2‰
		Specific gravity	S03	1.000-1.070	0.001	±0.002
		Refractive Index	S04	1.3330--1.4200nD	0.0001nD	±0.0003nD
Honey	DR-301	Brix	S01	0.0--90.0%	0.10%	±0.2%
		Water	S02	38.0%-5.0%	0.10%	±0.2%
		Be'	S03	33.0-48.0	0.1	±0.2%
		Refractive Index	S04	1.3330--1.5177nD	0.0001nD	±0.0003nD
Wine	DR-401	Brix%	S01	0.0-50.0%	0.10%	±0.2%
		%VOL ap	S02	0.0-22.0%	0.10%	±0.2%
		Oe	S03	0-150	1	±2%
		KMW	S04	0.0-25.0	0.1	±0.2



Digital Refractometer IR Series

Art NO: REF015

The handheld IR series digital refractometer has remarkable power efficiency,database and IP65 rated.

Specification		Order No.					
		IR200B	IR200B1	IR200B2	IR200B3	IR280B	IR280D
Measuring range	nD						1.3300-1.7000
	Brix	0.0-95.0%	0.0-35.0%	25.0-65.0%	55.0-95.0%	0.00-10.00%	0.0-95.0%
Resolution	nD						0.0001
	Brix	0.10%				0.01%	0.10%
Reproducibility	nD						±0.0002
	Brix	±0.2%				0.1%	±0.2%
Temperature range							5-90°C
Temperature resolution		0.1°C					
Interface						RF wireless module	
Display		Color LCD					
Database		100 groups data				1000 groups data	
Prism		Hard glass					
Voltage		AA alkaline battery x 2, Approx 15,000 measurements(using new batteries)					



Abbe Refractometer WAY-2W

Art No: REF017



Abbe Refractometer WAY-2WS

Art No: REF018



Abbe Refractometer 2WAJ

Art No: REF019

Model	WAY-2W	WAY-2WS	2WAJ
Refractive Index(nD) Range	1.300~1.700	1.300~1.700	1.300~1.700
Refractive Index (nD) Accuracy	±0.0003	±0.0003	±0.0002
Refractive Index (nD) Min.Div.	0.0005	0.0005	0.0005
Brix（%）Range	(0~95)%	(0~95)%	(0~95)%
Brix（%）Min.Div.	0.25%	0.25%	0.25%
Size（mm）	150x150x300	150x150x300	90x190x250
Weight（KG）	4.9	4.9	3



Abbe Digital Refractometer

Art No: REF020

Characteristics

Measurement of refractive index nD of transparent or translucent liquid and solid substances.
Measurement of the Brix of sugar solution.
Visual aim and LCD display
Automatic correction of the effect of temperature on the Brix.Printer interface for direct data print-out.

Specifications

Measurement range:
Refractive index nD: 1.3000-1.7000 Dissolved Solids Brix: 0-95%
Accuracy:
Refractive index nD: ⩽±0.0002，
Dissolved Solids Brix:⩽±0.1%
Temperature Range (Min. 0.1°C) : 0-50°C



PC Digital Refractometer
Art No.: REF021

It has more functions than a handheld refractometer and is more cost-effective than a desktop unit.

Special Features::
- Connect PC via USB interface
- Wide measurement range from 1.3300 – 1.5318 nD; 0-95% Brix
- High precision 0.1% Brix
- Automatic temperature compensation (ATC)
- Temperature display
- Alarm of low voltage
- Automatic shutoff
- Working temperature 5-35℃ (41-95℉)

Technical Specifications:

Art No.	REF021.01			REF021.02			REF021.03		
Type	Range	Res.	Accuracy	Range	Res.	Accuracy	Range	Res.	Accuracy
Brix	0-95.0%	0.10%	±0.1%	0-60.0%	0.10%	±0.1%	45.0-95.0%	0.10%	±0.1%
nD	1.3330-1.5318	0.0001	0.0002	1.3330-1.4419	0.0001	0.0002	1.4098-1.5318	0.0001	0.0002
Temperature	0-40 ℃	0. 1℃	±0.1%	0-40℃	0. 1℃	±0.1℃	0-40℃	0. 1℃	±1℃
	32-140° F	0. 1° F	±2° F	32-140° F	0. 1° F	±2° F	32-140° F	0. 1° F	±2° F
Salinity	-	-	-	0-28%	0.10%	±0.1%	-	-	-



Pocket Digital Refractometer
Art No.: REF022

It has more functions than a handheld refractometer and is more cost-effective than a desktop unit.

Special Features::
- Connect PC via USB interface
- Wide measurement range from 1.3300–1.5318 nD;0-95% Brix
- High precision 0.1% Brix
- Automatic temperature compensation (ATC)
- Temperature display
- Alarm of low voltage
- Automatic shutoff
- Working temperature 5-35℃ (41-95℉)

Technical Specifications:

Series	Order No.	Scale's Name	Range	Resolution	Accuracy
Sugar	REF022-101	Brix	0-60%	0.10%	±0.2%
		nD	1.3330-1.4420	0.0001	±0.0003
	REF022-102	Brix	40-95%	0.10%	±0.2%
		nD	1.4000-1.5320	0.0001	±0.0003
	REF022-103	Brix	0-95%	0.10%	±0.2%
		nD	1.3330-1.5320	0.0001	±0.0003
	REF022-104	Sucrose(Brix)	0-95%	0.10%	±0.2%
		nD	1.3330-1.5320	0.0001	±0.0003
		Dextran	0-10.60%	0.10%	±0.2%
		Fructose	0-68.90%	0.10%	±0.2%
		Glucose	0-59.90%	0.10%	±0.2%
		Lactose	0-16.50%	0.10%	±0.2%
		Maltose	0-15.60%	0.10%	±0.2%
Salt	REF022-201 (sodium chloride)	Salinity	0-28%	0.10%	±0.2%
		Salinity	0--280‰	1‰	±2‰
		Specific Gravity	1.000-1.217	0.001	±0.002
		nD	1.3330-1.3900	0.0001	±0.0003
	REF022-202 (sea water)	Salinity	0--100‰	1‰	±2‰
		Chlorinity	0--57‰	1‰	±2‰
		Specific Gravity	1.000-1.070	0.001	±0.002
		nD	1.3330-1.3530	0.0001	±0.0003



Pocket Digital Refractometer
Art No.: REF023

It features a fast readout and easy to use.

Special Features:
- Wide measurement range
- High precision
- Automatic temperature compensation (ATC)
- Alarm of low voltage
- Stainless steel sample plate

Technical Specifications:

Types	Order No.	Scale's Name	Range	Accuracy
Sugar	CDR-101	Brix	0-65%	±0.2%
	CDR-102	Brix	0-65%	±0.2%
		nD	1.3330-1.4535	±0.0003
	CDR-111	Brix	40-95%	±0.2%
	CDR-112	Brix	40-95%	±0.2%
		nD	1.3990-1.5320	±0.0003
	CDR-151	Brix	0-95%	±0.2%
	CDR-152	Brix	0-95%	±0.2%
		nD	1.3330-1.5320	±0.0003
	CDR-153	nD	1.3330-1.5320	±0.0003
Salt	CDR-201	Salinity	0-28%	±0.2%
	CDR202	Salinity	0-28%	±0.2%
		nD	1.3330-1.3900	±0.0003
	CDR203	Salinity	0-28%	±0.2%
		Salinity	0--280‰	±2‰
Clinical	CDR-301	Urine SP. G.	1.000-1.050	±0.002
	CDR302	Urine SP. G.	1.000-1.050	±0.002
		Serum P.	-0.1-12.0	±0.2
		nD	1.3330--1.3900	±0.0003
Wine	CDR-401	Brix	0.0-35.0%	±0.2%
		VOL ap	0.0-22.0%	±0.2%
		Oe	003-150	±2
		KMW	0.0-25.0	±0.2
Honey	CDR-601	Water	38% - 5%	±0.2%
		Be'	33 - 48	±0.4%
		nD	1.4400--1.5320	±0.0003
	CDR-602	Brix	60-92%	±0.2%
		Water	38% - 5%	±0.2%
		Be'	33 - 48	±0.4%
		nD	1.4400--1.5320	±0.0003



KLL-280 Series TDS / Conductivity Meter

Technical parameters

Model No.	KLL-288	KLL-289	KLL-282	KLL-283
Measuring Range	0~1999μS/cm	0~19.99mS/cm	0~1999ppm	0~19.99ppt
Accuracy	±2%F • S	±2%F • S	±2%F • S	±2%F • S
Resolution	1μS/cm	0.01mS/cm	1ppm	0.01ppt
Automatic Temperature Compensation	0℃~50℃			
Environment	Temperature:0℃~50℃;Humidity:≤95%			
Power Supply	4×1.5V(AG13)			



KLL-980 Series Conductivity / TDS Meter

This series meter has one-touch caliberation,hold function, low battery alert and LCD backlit functions.

Technical parameters

Model No.	KLL-988	KLL-989	KLL-982	KLL-983
Measuring Range	0~1999μS/cm	0~19.99mS/cm	0~1999mg/L (ppm)	0~19.99g/L (ppt)
Accuracy	±2%F • S	±2%F • S	±2%F • S	±2%F • S
Resolution	1μS/cm	0.01mS/cm	1mg/L(ppm)	0.01g/L(ppt)
Display	4-digit LCD with Backlit			
Automatic Temperature Compensation	0℃~50℃			
Environment	Temperature:0℃~50℃;Humidity:≤95%			



KLL-1390 Series Conductivity / TDS Meter

Technical parameters

Model No.	KL-1393	KL-1394
Measuring range	0~19.99g/L(ppt)	0~19.99mS/cm
Accuracy	±2%F • S	±2%F • S
Resolution	0.01g/L(ppt)	0.01mS/cm
Display	4-digit LCD	
Environment	Humidity: ≤95%	
Automatic Temperature Compensation	0℃~50℃	
Power Supply	2×3V(CR2032 Battery)	



Wood Moisture Meter

Art No: MD7820
Moisture measuring Range:
2%~40%，2%~50%, 2%~60%，2%~70%
Resolution: 0.5%
Temperature measuring Range: -10~60°C (14~140°F)
Accuracy: ±2°C (±4°F)
Resolution: 1°C (2°F)
Date hold function.
Low power symbol automatic indication.



Grain Moisture Meter

Art No:MD7822
Moisture Measurement Range: 2% ~30%
Maximum Error: ±(1%Rh+0.5)
Resolution: 0.5%
Temperature Measurement Range: -10℃~60℃
Ambient Temperature: -10℃~40℃
Ambient Humidity: 0 ~70%Rh



Wood Moisture Meter

Art No: GM610
Measuring Range:2~40%/50%/60%/70%
Resolution:0.5%
Temperature Range:-10~60℃
Humidity Range:20%RH~90%RH
Moisture Response Speed:<1s
Measuring Error:±1%
Display:LCD



Wood Moisture Meter

Art No: MD812
Digital large size LCD display
Measuring Range: 5%~40%
Accuracy: 1%
Date and value hold
Low power indication and
2 pins or 4 pins sensor for option



Wood Moisture Meter

Art No: MD912
Measuring Range: 2%~60%
Resolution: 0.5%
Date and value hold
Low power indication and
2 pins or 4 pins sensor for option



Paper Moisture Meter

Art No: MG916
It uses the microcomputer(CPU) technique to measure quickly and accurately.
Digital intelligent MCU paper moisture meter can work on 4 types of paper(carton, copperplate paper, writing paper, newsprint) through the spring contact.
Test Range: 2%~40%
Accuracy: 0.5%
Date hold function
Low power indication.



Moisture Analyzer DSH-A Series

Product Description:
This series with high resolution lattice LCD back light,and adopting high precision thermal sensor. Halogen heating drying,and short test time.

Features:
1.The supper high resolution back window matrix liquid crystal display(LCD),marking it easier to operate in the dark place, and the user will have more comfortable vision.
2.Touch-tone chain plate makes the operation easier.
3.The high precision heat insulation type sensor makes temperature for data acquisition reliable.
4.The use of halide torch for heating and curing makes warming more rapidly and test time shorter.
5.In the process of test ,the dry state can be directly confirmed to speculate the finish time.
6.It is equipped with automatic peeling function, can measure immediately and continuously, and also measure accurately through the zero drift correction.
7.Installed with RS232 interface inside, the products can be directly connected to computer and printers etc.
8.The halogen drying method moisture analyzer can test the free water content of chemical raw materials, grain,mineral, biological product, food, pharmaceutical raw materials, paper, textile raw materials, etc.

Technical Parameters:

Model.	DSH-10A	DSH-50A-5	DSH-50A-1	DSH-50A-10	DSH-100A-1	DSH-100A-2
Weighing Range(g)	10	50	50	50	100	100
Rcadability	10mg	5mg	1mg	10mg	1mg	1mg
Repeatability(3g samples)	0.5%	0.3%	0.2%	0.5%	0.3%	0.2%
Minimum Sample Amount	0.5					
Advised Sample Amount	3-10g					
Heat up time	1-99munutes, 1 munutes interval					
Temperatrue Program	Standard					
Terminal Control	Timing, Automatic					
Heating Temperature Range	50-180 degrees					
Showing Content	Moistrue%, Solid%, Weight, Time, Data, etc					
Pan Size	100mm					
Overall Dimension	265x160x150					
Heating Source	Halide Torch					

Halogen Moisture Analyzer YJ-100W Series

Model	YJ-105W	YJ-102W	YJ-100W
Range(g)	110	110	110
Readability(g)	0.005	0.002	0.001
Operating Temp. Range		5℃-35℃	
Display	LCD		
Calibration	External		
Pan size(mm)	Φ90		
Dimensions(WxLxH)	200x180x380		
Weight(Kg)	5.8		
Heat source	Halogen lamp		
Temp. sensor	PT-100		
Temp. range	40℃-199℃		
Temp. step	1℃		
Moisture range	0.00%-100%		
Moisture readability	0.01%		
Dry residual range	100.00%-0.00%		
Dry residual readability	0.01%		
ATRO	100%-999%		
ATRO	0%-999%		
Temperature setting	40℃-199℃ by 1℃ step		
Time setting	1-99min by 1 s step		
Autostop	0.1%-9.9% within 1 min		
Number of storage	15		
Heater	200V±15% 50Hz 115V±15% 400W		
Balance	External power supply Output: 9V Input: 200V±15% 50Hz		





Halogen Moisture Analyzer



Melting-Point Apparatus

Art No: WRS-1A
Measurement of melting point is one of the important methods of measurement of purity to be used in the production of medicines, dyestuffs, perfumes and other organic crystal substances.
Photoelectric test.
LED display.

Specifications:
Melting-point measurement range: room temperature -300° C
Minimum digital display: 0.1° C
Linear heating-up rate: 0.2/0.5/1/1.5/2/3/4/5 °C/min
Accuracy: 10% (< 200°C); 15% (200-300°C)
Power: 220V/50Hz



Viscometer

Art No: NDJ-5S
1. Measurement range: 10 mPa•s～100000mPa•s
2. Spindle: No.1～No. 4, total four spindles
3. Rotation speed: (6、12、30、60)r/min
4. Measuring accuracy: ±1% (F•S)
5. Power supply: AC 220 V±10%, 50 Hz±10 %(12V adapter)
6. Working environment: Ambient temp.: 5 ℃～35 ℃, Relative humidity: ≤ 80%

Portable Whiteness Meter WSB Series

Art NO: WSB01
WSB series digital display whiteness meter is mainly applied to white or almost white whiteness measurement on the surface of the object or powder.Can be accurately obtained consistent with the visual sensitivity of whiteness value. Paper opacity can be measured accurately.



Model	WSB01-1	WSB01-1Y
Measuring range	0～199.9	
Whiteness formula	Blu-ray whiteness WB=R457	Blu-ray whiteness WB=R457、Fluorescent whitening degree F
The light source	LED	
Measuring the aperture	℄15	
Resolution	0.1	
Zero drift	≤0.2/10min	
Drift value	≤0.3/3min	
Measurement repeatability	≤0.3	
The environment temperature	+5℃～+35℃	
Relative humidity	≤85%RH	
Power supply	AC/DC.	
Packaging	Portable aluminum alloy box	

Portable Digital Turbidity Meter WGZ01 Series

Art NO: WGZ01
Series of WGZ01 scatter light turbidity meter is used to measure suspended in water or in transparent liquid insoluble particulate matter produced by scattering,and the contents of suspended particles. Can be widely used in power plant, pure water plant, sewage treatment plant, waterworks beverage factory, the environmental protection department, industrial water, wine industry and pharmaceutical industry, epidemic prevention, hospitals and other departments of turbidity measurement.



Model	WGZ01-B	WGZ01-1B	WGZ01-200B
The measurement	90 ° scattered light		90 ° scattered light
Minimum value (NTU)	0.1		0.01/0.1
Measuring range (NTU)	0～200		0-20/0-200
Error value	±8%(±2.5%F.S)		
Heavy after sex	≤1%		
Zero drift	±1%F.S		

Digital Bench Turbidity Meter WGZ02 Series

Art NO: WGZ02
This precise turbidity meter using scattered light principle is generally used to adopt international standard solution.The instrument is suitable for use in water plant, water treatment plants, swimming pool,water recycling, food and beverage industry, etc.



Model	WGZ02-1S	WGZ02-1A	WGZ02-200	WGZ02-800
The measurement	90 ° scattered light			
Minimum shown (NTU)	0.01	0.1	0.01、0.1	0.01、0.1、1
Measuring van (NTU)	0～20	0～200	0～20、0～200	0～20、0～200、0-800
Error value	±2.5%F.S			
Repeatability	1.5%F.S			
Zero drift	±0.8%F.S			



Digital Sound Level Meter

DSM01
Measuring Range: 40～130dB
Accuracy: ±2dB
Frequency Range: 31.5Hz-8.5kHz
Linearity Range: 30dB
Auto Power Shut Off: √
Low Battery Indication: √
Max Hold Function: √
Digit & Resolution: 4 Digits & 0.1dB
Microphone:1/2 Inch Electret Condenser
Sampling Frequency: 2 times/sec
LCD Size: 30x50mm
Operating Temperature and Humidity:
0℃ to 40℃ (32 to 104℉) 0 to 70% RH.



Digital Sound Level Meter

DSM02
Frequency range:125Hz to 8KHz
Measuring range:35-130dB
Display:3 1/2 digits LCD display
Resolution:0.5dB
Sampling time:0.5 second
Time Waiting:FAST 125ms
SLOW 1 second
Measuring ranges:
Range 1:（30）32dB to 70 dB
Range 2:60dB to 100 dB
Range 3:90dB to 130 dB
Accuracy:±2dB(94dB@1kHz)
MAX hold: "MAX"
Operating environment:
Temperature: 0-40℃（32-104°F）
Relative humidity: ≤90%RH



Digital Sound Level Meter

DSM03
This unit is designed according to following standards:
----A. International electrician committee standard:
IEC PUB 651 TYPE2
----B. US national standard: ANSI S1.4 TYPE2
Measuring range: 30～130 dBA
Accuracy: ±1.5 dB
Digit & Resolution: 4 digits & 0.1 dB
Frequency response: 31.5Hz ～8.5KHz
Frequency weighting characteristic: A
Sampling rate: 2times/second
Microphone： 1/2 inch polarization capacitance microphone Max reading
Automatic backlight
Low battery indication
Automatic power off



Digital Luxmeter

Art No: LXM1010B
3 ½ digits 18mm LCD
Range: 1～50,000Lux
Accuracy:≤10,000Lux,±(4%rdg+0.5%f.s)
>10,000Lux, ±(5%rdg+10 digit)
Resolution: 1Lux
Repeatability: ± 2%
Temperature Characteristic: ± 0.1%/°C
Sampling Time: 0.5second
Photo detector: one silicon photo diode with fliter



Digital Luxmeter

Art No: LXM1010BS
3 ½ digits 18mm LCD
Range: 1～100,000Lux
Accuracy:≤10,000Lux,±(4%rdg+10 digit)
>10,000Lux, ±(5%rdg+10 digit)
Resolution: 1Lux
Repeatability: ± 2%
Temperature Characteristic: ± 0.1%/°C
Sampling Time: 0.5second
Photo detector: one silicon photo diode with fliter



Digital Luxmeter

Art No: LXM1020BS
3 ⅞ digits 18mm LCD
Range: 0.1～40,000Lux
Accuracy:≤10,000Lux,±(4%rdg+10digit)
>10,000Lux, ±(5%rdg+10digit)
Resolution: 0.1Lux
Repeatability: ± 2%
Temperature Characteristic: ± 0.1%/°C
Sampling Time: 0.5 second
Photo detector: one silicon photo diode with fliter



Digital Luxmeter

Art No: LXM1030
Measuring range:
0Lux～200,000Lux/0Fc～185,806Fc
Accuracy: ±3% rdg±0.5%f.s.(<10,000Lu
±4% rdg±10dgts.(>10,000Lux)
Digital Updates:2 times / s
Operating temperature and humidity:
0℃～ 40℃, 10%RH ～ 90%RH
After 5 minute auto power off
Backlight function



Digital Luxmeter

Art No: LXM1330B
3 ½ digits 18mm LCD
Range: 0.1～200,000Lux/0.01～20,000FC
Accuracy: ≤20,000Lux, ±(3%rdg+10digit)
>20,000Lux, ±(5%rdg+10digit)
Resolution: 0.1Lux
Repeatability: ±2%
Temperature Characteristic: ±0.1%/°C
Sampling Time: 0.5second
Date hold, peak hold
Display in Lux and FC switchable



Solar Power Meter

Art No: SM206
Selectable from two units: W/m2 and Btu
Range: 0.1-399.9 W/m2, 1-3999 W/m2, 0.1-399.9 Btu/（ft2-h）, 1-3999 Btu/（ft2-h）
Resolution: 0.1W/m2, 0.1 Btu/（ft2-h）
Error Range: ± 10W/m2 [±3 Btu/（ft2-h）] or ±5% of the measured value
Temperature Error: ±0.38W/m2 / ℃ [±0.12 Btu/（ft2-h）/℃] deviation at 25℃
Sampling Time: 0.5 second
Peak & data hold function



Photo Tachometer (Laser)

Art No: DT2234C
5 digits 18mm (0.6") LCD
Accuracy: ±(0.05%+1 digit) of reading
Sampling Time: 0.5sec (over 120RPM)
Memory: Max. value, Min. value, Last value
Measuring Range: 2.5～99,999RPM
Resolution: 0.1RPM From:(2.5～999.9RPM)
1RPM From:((over 1,000RPM)
Detecting Distance: 50～500mm
Time Base: 6MHz Quartz crystal
Time Base Accuracy: 10x10-6(0～50°C



Oxygen Meter

Art No.: OGM803
Measuring Range: 0～25%vol
Accuracy: ±0.1%
Resolution: 0.1%
Alarming Limit: Adjustable
Alarming Format: Sound,light and vibration



Carbon Dioxide Meter

Art No.: CDM806
Measuring Range: 0～10000ppm
Accuracy: ±3%FS
Resolution: 1ppm
Alarming Limit: Adjustable
Alarming Format: Sound,light and vibration



Clinometer

Art No:CLM01
Easily calculate the height of any tall object using this one-piece clinometer.
Simply aim,squeeze the trigger and view the angle of inclination and use some simple math and you have the height.



Geiger Counter

Art No:GGC-02
This instrument is used for detecting the existence of radiative particles and measuring the intensity of the rays. When it works, three kinds of its output units, sound, flasher and counter will act synchronously. It is very easy to operate.



Hand Tally Counter,4 Digits

Art No: HTC01



Art No.: MWL01 Art No.: MWL02 Art No.: MWL03 Art No.: MWL04

Measuring Wheel

Detailed information:
Measuring range: 0-99999.9m/ft
Wheel dia: 318mm
Product length: 1020mm
Folded length: 520mm



Digital Micrometer

Art No:DMM25
Measuring Range: 0-25mm
Accuracy: 0.001mm



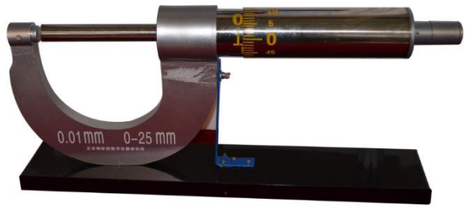
Micrometer

Art No:MM25-A
Measuring Range: 25mm
Resolution: 0.01mm



Micrometer

Art No:MM25-B
Measuring Range: 25mm
Resolution: 0.01mm
Best Quality



Micrometer Demonstrator

Art No: MM25-D
Its enlarged design can show students all details of how to use a micrometer



Vernier Caliper Demonstrator

Art No: VCD01
Its enlarged design can show students all details of how to use a vernier caliper



Vernier Caliper

Art No:VC150
Measuring Range: 150mm
Resolution: 0.02mm



Dial Vernier Caliper

Art No:VC-D150
Measuring Range: 150mm
Resolution: 0.02mm



Digital Caliper

Art No:DVC150
Measuring Range: 150mm(6")
Resolution: 0.01mm/0.005"
Made of hardened stainless steel



Digital Caliper

Art No: DVC150. 02
Measuring Range: 150mm(6")
Resolution: 0.01mm/0.005"
Made of hardened stainless steel



A B

Digital Caliper

Art No: DVC150.02
Measuring Range: 150mm(6")
Resolution: 0.1mm/0.01"
Made of carbon fiber composites



Vernier Caliper

Art No:VC150P
Measuring Range: 150mm
Resolution: 0.02mm
Made of metal, plastic coated



Precision Measuring Set

Art No:PMS01
Contains four high quality measuring instruments- a 0-25x0.01mm micrometer,a 90° knife edge square, a 150x0.05mm vernier caliper, and a 150mm steel ruler.



Precision Measuring Set

Art No:PMS02
Contains four high quality measuring instruments- a 0-25x0.01mm micrometer,a 90° knife edge square, a 150x0.05mm vernier caliper, and a 150mm steel ruler.



3 Meter Tape Measure

Art No:TM3M
This tape is marked in both English and metric. The bright yellow steel tape retracts with a simple push of a button.



Precision Measuring Set of Micrometers 3 in 1

Art No:PMS03
Micrometers: 0-25mm, 25-50mm and 50-75mm



Precision Measuring Set of Micrometers with Display 3 in 1

Art No:PMS04
Micrometers: 0-25mm,25-50mm and 50-75mm



Precision Measuring Set of Micrometers 4 in 1

Art No:PMS05
Micrometers: 0-25mm,25-50mm, 50-75mm and 75-100mm



Mechanical Stop Clock

Art No: STC01



Double Mechanical Stop Clock

Art No: STC02



Digital Stop Clock

Art No: STC03



Timer Clock

Art No: STC04



Double Mechanical Stop Watch

Art No: STC05



Double Mechanical Stop Clock

Art No.: STC06 Chess Clock



Double Mechanical Stop Clock

Art No.: STC07 Chess Clock



Mechanical Stopwatch

Art No:MSW01
Resolution: 1/10 second
Minutes: 15 minutes/cycle
Seconds: 30 second/cycle
Hours: 6H Pause: None



Mechanical Stopwatch

Art No:MSW02
Resolution: 1/5 second
Minutes: 30 minutes/cycle
Seconds: 60 second/cycle
Hours: 6H Pause: None



Mechanical Timer 60'

MTM01
Size: 7 X 7cm

MTM02
Size: 6 x 6cm



Sand Clock, 3 Minutes

Art No: MTM04
Size: Diameter 5 x 8 cm



Stopwatch

DSW01 DSW02



Stopwatch

DSW03 DSW04



Stopwatch

Art No:DSW005
1/100th second,
split time



Stopwatch

Art No:DSW006
1/100th second,
split time



Stopwatch

Art No:DSW007
1/100th second,
split time



Stopwatch

Art No:DSW008
1/100th second,
split time and
10 memories
Water Resist
Grade: 3 ATM



Stopwatch

Art No:DSW009
1/100th second,
split time
Water Resist
Grade: 3 ATM



Stopwatch

Art No:DSW010
1/100th second,
split time
Water Resist
Grade: 3 ATM



Stopwatch

Art No:DSW011
1/100th second,
split time



Stopwatch

Art No:DSW012
1/100th second,
split time
Water Resist
Grade: 3 ATM



Stopwatch

Art No:DSW013
1/100th second,
split time
Water Resist
Grade: 3 ATM



Stopwatch

Art No:DSW014
1/100th second,
split time
Water Resist
Grade: 3 ATM



Stopwatch

Art No:DSW015
1/100th second,
split time
Water Resist
Grade: None



Stopwatch

Art No:DSW016
1/100th second,
split time



Stopwatch

Art No:DSW017
1/1000th second,
split time and
100 memories
Water Resist
Grade: 3 ATM



Stopwatch

Art No:DSW018
1/100th second,
split time
Water Resist
Grade: 3 ATM



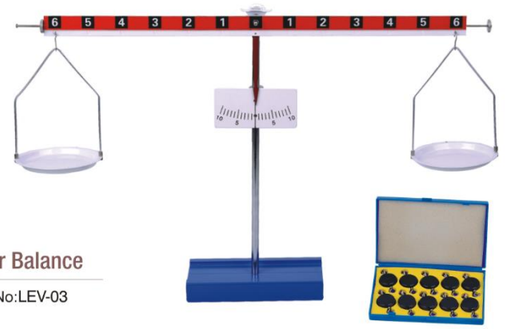
Lever Balance

Art No:LEV-01



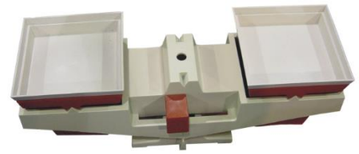
Lever Balance

Art No:LEV-02



Lever Balance

Art No:LEV-03



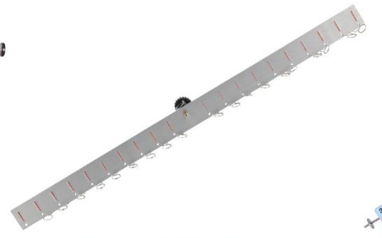
Lever Balance

Art No:LEV-06



Lever Balance

Art No:LEV-07
Made of wood



Lever with Hooks

Art No:LEV-09



Lever with Hooks

Art No:LEV-10



Lever Balance

Art No:LEV-08
Made of plastic, numbered



Lever Support and Knife Edge Lever Clamp

Art No:LEV-11



Kitchen Scale

Art No:KSC-01
Capacity: 1kg
Sensitivity: 5g



Kitchen Scale

Art No:KSC-02
Capacity: 2kg
Sensitivity: 10g



Kitchen Scale

Art No:KSC-03
Capacity: 3kg
Sensitivity: 25g



Kitchen Scale

Art No:KSC-04
Capacity: 5kg
Sensitivity: 40g



Kitchen Scale, Dual Scale

Art No:KSC-05
Capacity: 5kgs/11 lb
Sensitivity: 40g/0.1 lb



Table Balance

Art No:JPT-01
Capacity: 100g with weight
Divison: 0.1g



Table Balance

Art No:JPT-02
Capacity: 200g with weight
Divison: 0.2g



Table Balance

Art No:JPT-05
Capacity: 500g with weight
Divison: 0.5g



Table Balance

Art No:JPT-10
Capacity: 1000g with weight
Divison: 1g



Table Balance

Art No:JPT-20
Capacity: 2000g with weight
Divison: 2g



Quadruple Beam Balance

Art No:MB311
Capacity: 311g,sensitivity: 0.01g
With magnetic damping system
Pan size: diameter 150mm



Triple Beam Blance

Art No:MB2610
Double Beam Balance
Capacity: 2610g, sensitivity: 0.1g
Pan size: diameter 150mm



Double Beam Balance

Art No:MB2000
Double Beam Balance
Capacity: 2000g, sensitivity: 0.1g
With magnetic damping system
Pan size: Diameter 150mm



Kitchen Scale

Art No: SF-400A
1.Capacity: 500g Division: 0.1g
2.Capacity: 1000g Division: 0.1g
3.Capacity: 3000g Division: 0.5g
4.Capacity: 5000g Division: 1g
5.Capacity: 7000g Division: 1g
Unit: g/oz



Kitchen Scale

Art No: SF-400
1.Capacity: 500g Division: 0.1g
2.Capacity: 1000g Division: 0.1g
3.Capacity: 3000g Division: 1g
4.Capacity: 5000g Division: 1g
5.Capacity: 7000g Division: 1g
Unit: g/oz



Digital Pocket Scale

Art No: DPS500
Capacity: 500g
Division: 0.1g



Digital Bathroom Scale

Art No.: YJ-2003A
Capacity: 150kg/330lb
Division: 0.1kg/0.2lb
Diameter: 33cm
Thickness: 6mm



AT-150S



Weighing Scale with Height Gauge

Art No:ZT-120
Capacity: 120kgs
Weight Division: 0.5kg
Height Division: 0.5cm

Art No:ZT-160
Capacity: 160kgs
Weight Division: 0.5kg
Height Division: 0.5cm

ZT-120/ZT-160

Electronic Weighing Scale with Height Gauge

Art No:ZT-150S
Capacity: 150kgs



EBL1001 ~ EBL20001 Series



EBL1002 ~ EBL20002 Series

Electronic Balance (EBL1001 ~ EBL20001 Series)

Art No.	EBL1001	EBL2001	EBL4001	EBL5001	EBL10001	EBL12001	EBL20001
Capacity	100g	200g	400g	500g	1000g	1200g	2000g
Readability	100mg	100mg	100mg	100mg	100mg	100mg	100mg
Reproducibility	±0.2g	±0.2g	±0.2g	±0.2g	±0.2g	±0.2g	±0.2g
Pan Size	Diameter 110mm	Diameter 110mm	Diameter 110mm	Diameter 130mm	Diameter 130mm	Diameter 130mm	Diameter 130mm
Power Supply	220V or 110V	220V or 110V	220V or 110V	220V or 110V	220V or 110V	220V or 110V	220V or 110V

Electronic Balance (EBL1002 ~ EBL20002 Series)

Art No.	EBL1002	EBL2002	EBL3002	EBL5002	EBL6002	EBL10002	EBL20002
Capacity	100g	200g	300g	500g	600g	1000g	2000g
Readability	10mg	10mg	10mg	10mg	10mg	10mg	10mg
Reproducibility	±0.02g	±0.02g	±0.02g	±0.02g	±0.02g	±0.02g	±0.02g
Pan Size	Diameter 110mm	Diameter 110mm	Diameter 110mm	Diameter 130mm	Diameter 130mm	Diameter 130mm	Diameter 130mm
Power Supply	220V or 110V	220V or 110V	220V or 110V	220V or 110V	220V or 110V	220V or 110V	220V or 110V



EBL1001-G ~ EBL20001-G Series



EBL1003-G ~ EBL3003-G Series

Electronic Balance (EBL1001-G ~ EBL20001-G Series)

Art No.	EBL1001-G	EBL2001-G	EBL4001-G	EBL5001-G	EBL6001-G	EBL10001-G	EBL12001-G	EBL20001-G
Capacity	100g	200g	400g	500g	600g	1000g	1200g	2000g
Readability	100mg	100mg	100mg	100mg	100mg	100mg	100mg	100mg
Reproducibility	±0.1g	±0.1g	±0.1g	±0.1g	±0.1g	±0.1g	±0.1g	±0.1g
Pan Size	Diameter 110mm	Diameter 110mm	Diameter 110mm	Diameter 130mm	Diameter 130mm	Diameter 130mm	Diameter 130mm	Diameter 130mm
Power Supply	220V or 110V	220V or 110V	220V or 110V	220V or 110V	220V or 110V	220V or 110V	220V or 110V	220V or 110V

Electronic Balance (EBL1003-G ~ EBL3003-G Series)

Art No.	EBL1003-G	EBL2003-G	EBL3003-G
Capacity	100g	200g	300g
Readability	1mg	1mg	1mg
Reproducibility	±0.002g	±0.002g	±0.002g
Pan Size	Diameter 80mm	Diameter 80mm	Diameter 80mm
Power Supply	220V or 110V	220V or 110V	220V or 110V



EBL1002-G ~ EBL20002-G Series



HC-D-2001 ~ HC-D-20001 Series

Electronic Balance (EBL1002-G ~ EBL20002-G Series)

Art No.	EBL1002-G	EBL2002-G	EBL3002-G	EBL5002-G	EBL6002-G	EBL10002-G	EBL20002-G
Capacity	100g	200g	300g	500g	600g	1000g	2000g
Readability	10mg	10mg	10mg	10mg	10mg	10mg	10mg
Reproducibility	±0.02g	±0.02g	±0.02g	±0.02g	±0.02g	±0.02g	±0.02g
Pan Size	Diameter 110mm	Diameter 110mm	Diameter 110mm	Diameter 130mm	Diameter 130mm	Diameter 130mm	Diameter 130mm
Power Supply	220V or 110V	220V or 110V	220V or 110V	220V or 110V	220V or 110V	220V or 110V	220V or 110V

Electronic Balance HC-D Series 0 – 2000g

Art No.	HC-D-2001	HC-D-3001	HC-D-4001	HC-D-5001	HC-D-6001	HC-D-10001	HC-D-20001
Capacity	200g	300g	400g	500g	600g	1000g	2000g
Readability	0.1g						
Pan Size	Φ130mm						
Power Supply	220V/ 110V						



HC-C2-2001 ~ HC-C2-30001 Series



HC-C1-1003 ~ HC-C1-30002 Series

Electronic Balance HC-C2 Series 0 – 3000g

Art No.	HC-C2-2001	HC-C2-3001	HC-C2-4001	HC-C2-5001	HC-C2-6001	HC-C2-10001	HC-C2-20001	HC-C2-30001
Capacity	200g	300g	400g	500g	600g	1000g	2000g	3000g
Readability	0.1g							
Pan Size	Φ130mm							
Power Supply	220V/ 110V							
Output Interfacing	RS232C optional							

Electronic Balance HC-C1 Series 0 – 2000g

Art No.	HC-C1-1003	HC-C1-2003	HC-C1-2002	HC-C1-3002	HC-C1-5002	HC-C1-6002	HC-C1-10002	HC-C1-20002
Capacity	100g	200g	200g	300g	500g	600g	1000g	2000g
Readability	1mg	1mg	10mg	10mg	10mg	10mg	10mg	10mg
Pan Size	Φ130mm							
Power Supply	220V/ 110V							



JA-1103 ~ JA-5003 Series

Electronic Balance JA Series 0 – 510g

Art No.	JA-1103	JA-2103	JA-3003	JA-3103	JA-5003
Capacity	110g	210g	300g	310g	500
Readability	1mg				
Pan Size	Φ90mm				
Power Supply	220V/ 110V				
Output Interfacing	Rs232				



B-11001 ~ B-51001 Series

Electronic Balance B Series 0 – 5100g

Art No.	B-6101	B-11001	B-20001	B-21001	B-31001	B-51001
Capacity	610g	1100g	2000g	2100g	3100g	5100g
Readability	0.1g					
Pan Size	160×160mm					
Power Supply	220V/ 110V					
Output Interfacing	Rs232 optional					



TD-B-30001 ~ TD-B-50002 Series

Electronic Balance TD-B Series 0– 5000g

Art No.	TD-B-30001	TD-B-50001	TD-B-30002	TD-B-50002
Capacity	3000g	5000g	3000g	5000g
Readability	0.1g	0.1g	0.01g	0.01g
Pan Size	155X143mm			
Power Supply	battery operated			
Selectable Weighing Units	g, oz, ct			



FA-1004 ~ FA-2104 Series

Electronic Balance FA Series 0 – 210g

Art No.	FA-1004	FA-1104	FA-1204	FA-2004	FA-2104
Capacity	100g	110g	120g	200g	210g
Readability	0.1mg				
Pan Size	Φ80mm				
Power Supply	220V/ 110V				
Output Interfacing	Rs232				



C-1102 ~ C-21002 Series

Electronic Balance C Series 0 – 1100g

Art No.	C-2102	C-3102	C-5102	C-11002	C-21002
Capacity	210g	310g	510g	1100g	2100g
Readability	10mg				
Pan Size	Φ130mm				
Power Supply	220V/ 110V				
Output Interfacing	RS232 optional				



Red Green

YP-10001 ~ YP-50001 Series

Electronic Balance YP Series 0– 5000g

Art No.	YP-5001	YP-10001	YP-15001	YP-20001	YP-30001	YP-50001
Capacity	500g	1000g	1500g	2000g	3000g	5000g
Readability	0.1g					
Pan Size	145X205mm					
Power Supply	220V/110V					



Red

YP-1002 ~ YP-20002



Green

Electronic Balance YP Series 0 - 2000g

Model #	YP-1002	YP-2002	YP-3002	YP-5002	YP-6002	YP-10002	YP-20002
Capacity	0-100g	0-200g	0-300g	0-500g	0-600g	0-1000g	0-2000g
Readability	0.01g						
Repeatability	±0.02g						
Pan Size	143*192mm						
Output	110V/220-240V AC						



A



B

JN Series Magnetic Analytical Balance

Product Spec:
1. Electromagnetic Force Compensation Technology.
2. Aluminum Alloy die cast base and ss platter.
3. Super Bright LCD display with backlight. (touch screen size is 5 inch.)
4. RS232C Interface
5. Clear Glass Windshield as standard.
6. Over load protection, bubble level adjustment, under hook
7. Full capacity substraction
8. Multi weighing unit conversation g/mg/ct/oz.
9. Check weighing, parts counting, percentage weighing
10. Universal power adaptor supplied as standard
11. Cetificated calibration weight supplied as standard.

Internal calibration or external calibration for option.
Type B With Touch Screen

Technical Specifications:

Model #	JN1004	JN1204	JN1604	JN1804	JN2004	JN2104	JN2204	JN3004	JN3104
Capacity	0-100g	0-120g	0-160g	0-180g	0-200g	0-210g	0-220g	0-300g	0-310g
Accuracy Class	I								
Readability	0.1mg								
Linearity	±0.2mg								
Repeatability	±0.2mg								
Pan Size	Φ80mm								
Output Interface	RS232/USB								

Model #	JN1103	JN2103	JN3103	JN5103	JN6203	JN8003	JN10003
Capacity	0-110g	0-210g	0-310g	0-510g	0-620g	0-800g	0-1000g
Readability	1mg						
Linearity	±2mg						
Repeatability	±2mg						
Pan Size	Φ90mm						
Output Interface	Rs232						
Dimensions	**340mm x 215mm x350mm**						
Power Supply	**Universal Adaptor AC110-240V**						



HZT Series Electronic Balance

Characteristics:
1. LCD with backlight mode adjustable
2. Weighing stableness time adjustable
3. Support AC-DC
4. 14 units available: g,ct,lb,oz….
5. Optional Accessories: RS232 line,inner rechargeable DC battery, back display and extra display

Technical Specifications:

Model #	HZT1003	HZT2003	HZT3003	HZT2002	HZT3002	HZT5002	HZT6002	HZT10002	HZT20002	HZT10001	HZT20001	HZT30001	HZT50001	HZT60001
Capacity	0-100g	0-200g	0-300g	0-200g	0-300g	0-500g	0-600g	0-1000g	0-2000g	0-1000g	0-2000g	0-3000g	0-5000g	0-6000g
Readability	1mg			10mg						100mg				
Linearity	±2mg			±20mg						±200mg				
Repeatability	±2mg			±10mg						±100mg				
Pan size	Φ80mm			Φ133mm								168x168		
Dimensions	295x208x290mm			295mm x 208mm x88mm										
Power Supply	AC-DC													



HZF Series Electronic Balance

Characteristics:
1. More level adjustable function
2. Large LED display adjustable brightness
2. Weighing Stableness time adjustable
3. Support AC-DC
4. 14 units available: g,ct,lb,oz….
5. Optional Accessories: RS232 line,inner rechargeable DC battery, back display and extra display

Application Mode:
1. Percentage weighing function
2. With dynamic weighing function
3. Selectable weighing and count mode
4. High-low weighing function
5. Peak holding function
6. Accumulate function

Technical Specifications:

Model #	HZF1004	HZF2004	HZF3003A	HZF5003A	HZF1003	HZF2003	HZF3003
Capacity	0-100g	0-200g	0-300g	0-500g	0-100g	0-200g	0-300g
Readability	0.1mg		1mg				
Linearity	±0.2mg		±2mg				
Repeatability	±0.1mg		±1mg		±2mg		
Pan size	Φ80mm		Φ90mm	Φ108mm	Φ80mm		
Dimensions	295x208x290mm						
Power Supply	AC-DC						

Model #	HZF2002	HZF3002	HZF5002	HZF6002	HZF10002	HZF20002	HZF10001	HZF20001	HZF30001	HZF50001	HZF60001
Capacity	0-200g	0-300g	0-500g	0-600g	0-1000g	0-2000g	0-1000g	0-2000g	0-3000g	0-5000g	0-6000g
Readability	10mg						100mg				
Linearity	±20mg						±200mg				
Repeatability	±10mg						±100mg				
Pan size	Φ133mm								168x168		
Dimensions	295mm x 208mm x88mm										
Power Supply	AC-DC										



TD-A-2001 ~ TD-A-20002 Series



TD-D-20001 ~ TD-D50002 Series

Electronic Balance TD-A Series 0 – 2000g

Art No	TD-A-2001	TD-A-4001	TD-A-6001	TD-A-10001	TD-A-12001	TD-A-20001
Capacity	200g	400g	600g	1000g	1200g	2000g
Readability	0.1g					
Pan Size	Φ133mm					
Power Supply	battery operated					
Selectable Weighing Units	g, oz, ct					

Art No	TD-A-1002	TD-A-2002	TD-A-3002	TD-A-5002	TD-A-6002	TD-A-10002	TD-A-20002
Capacity	100g	200g	300g	500g	600g	1000g	2000g
Readability	10mg						
Pan Size	Φ133mm						
Power Supply	battery operated						
Selectable Weighing Units	g, oz, ct						

Electronic Balance TD-D Series 0 – 10000g

Art No	TD-D-20001	TD-D-30001	TD-D-50001	TD-D-60001	TD-D-100001	TD-D-2000/1G	TD-D-3000/1G
Capacity	2000g	3000g	5000g	6000g	10000g	2000g	3000g
Readability	0.1g	0.1g	0.1g	0.1g	0.1g	1g	1g
Pan Size	170X170mm						
Power Supply	220/110V						
Selectable Weighing Units	g, mg, oz, ct						
Output Interfacing:	RS232						
Display:	super bright LCD with back light						

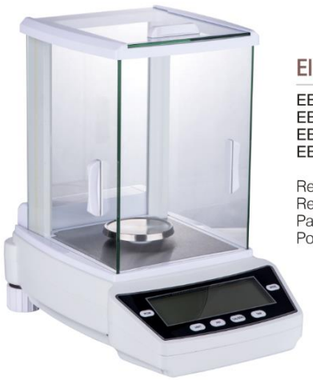
Art No	TD-D-5000/1G	TD-D-10000/1G	TD-D30002	TD-D40002	TD-D50002
Capacity	5000g	10000g	3000g	4000g	5000g
Readability	1g	1g	0.01g	0.01g	0.01g
Pan Size	170X170mm				
Power Supply	220/110V				
Selectable Weighing Units	g, mg, oz, ct				
Output Interfacing:	RS232				
Display:	super bright LCD with back light				



Electronic Balance

EBL1004 Capacity: 100g
EBL1104 Capacity: 110g
EBL1604 Capacity: 160g
EBL2004 Capacity: 200g
EBL2104 Capacity: 210g
EBL2204 Capacity: 220g

Readability: 0.1mg
Reproducibility: ±0.2mg
Linearity Error: ±0.5mg
Pan Size: Diameter 80mm
Power Supply: 220V or 110V



Electronic Balance

EBL1003 Capacity: 100g
EBL2003 Capacity: 200g
EBL3003 Capacity: 300g
EBL5003 Capacity: 500g

Readability: 1mg
Reproducibility: ±2mg
Pan Size: Diameter 80mm
Power Supply: 220V or 110V



Electronic Balance YK-B Series

Product Description:
This series balances also equipped with standard RS232C data interface which can connect with micro - computer, printer and other devices. It can be widely used in various fields such as university, biological medicine, enterprise and public institution, quarantine inspection.

Features:
1. Electromagnetic balance sensor
2. External calibration weight.
3. Automatic Calibration System.
4. Whole taring
5. 4-level shockproof.
6. Counting function
7. Adopting large blue backlighting LCD screen (120*55 mm), which has complete display functions.
8. With the sensor technology of German STL software, supporting muti-point correction, the instrument has a more stable performance.
9. The windshield of all around antistatic coating can effectively shield the electrostatic interference and the vision is very clear.
10. The built-in RS232 standard interface can connect to the printer, computer, etc.
11. Unit switch: Carat, ounce and grams.
12. Power: 220V/50Hz

Technical parameters

Model No.	YK1004B	YK1204B	YK2004B	YK2204B
Weighing range	100g	120g	200g	220g
Readability	0.1mg			
Pan size	Φ8mm			
Output interface	RS232C			
Caliration	Externl			



Electronic Balance YK-C Series

Product Description:
This series balances also equipped with standard RS232C data interface which can connect with micro-computer, printer and other devices. It is the most important characteristics of a key internal automatic calibration function, more convenient to use.

Features:
Adopting large backlighting LCD screen, providing users gentler and clearer vision. The built-in RS232 standard interface can connect to the printer, computer directly. User-friendly design, neoteric structure, five-surface transparent glass windshield, new generation of electromagnetic gauge transducer reliably guarantees the high precision of the product. With many application programs, such as automatic fault detection, auto-calibration, and over-loading protection and so on. The application of digital integrated circuit board guarantees the precision of the products. The internal automatic calibration system, making it more convenient and easier to operate the balance and the performance is more stable and correct.

Technical parameters

Model No.	Weighing Range	Readability	Pan Size	Calibration
YK1004C	0~100g	0.1mg	Φ8mm	Internal
YK1204C	0~120g			
YK2004C	0~200g			
YK2204C	0~220g			
YK1003C	0~100g	1mg		
YK2003C	0~200g			



TP Series Electronic Balance

Characteristics:
1.Display mode adjustable
2.Weighing Stableness time adjustable
3.Support AC-DC
4.9 units available: g,ct,lb,oz….
5.Optional Accessories: RS232 line,inner rechargeable DC battery,and back display

Technical Specifications:

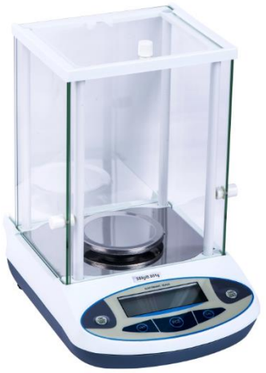
Model #	TP2002	TP3002	TP5002	Tp6002	TP10002	TP20002	TP12001	TP20001	TP30001	TP50001	TP60001
Capacity	0-200g	0-300g	0-500g	0-600g	0-1000g	0-2000g	0-1200g	0-2000g	0-3000g	0-5000g	0-6000g
Readability	10mg						100mg				
Linearity	±20mg						±200mg				
Repeatability	±10mg						±100mg				
Pan size	Φ128mm								145x160		
Dimensions	260mm x 175mm x60mm										
Power Supply	AC-DC										

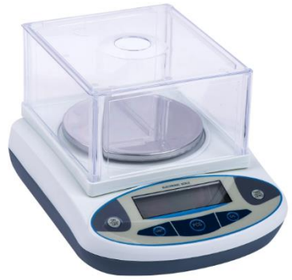


Electronic Balance BQ-E series

Electronic Balance BQ-E series

Model	Capacity	Readability	Repeatability	Linearity	Pan Size
BQ-E1002	0-100g	0.01g	0.01g	0.02g	Φ110mm
BQ-E2002	0-200g	0.01g	0.01g	0.02g	Φ110mm
BQ-E3002	0-300g	0.01g	0.01g	0.02g	Φ110mm
BQ-E5002	0-500g	0.01g	0.01g	0.02g	Φ130mm
BQ-E6002	0-600g	0.01g	0.01g	0.02g	Φ130mm
BQ-E10002	0-1000g	0.01g	0.02g	0.03g	Φ130mm
BQ-E20002	0-2000g	0.01g	0.02g	0.03g	Φ150mm
BQ-E1003	0-100g	0.001g	0.002g	0.003g	Φ90mm
BQ-E2003	0-200g	0.001g	0.002g	0.003g	Φ90mm
BQ-E3003	0-300g	0.001g	0.002g	0.003g	Φ90mm
BQ-E5003	0-500g	0.001g	0.002g	0.003g	Φ90mm





Electronic Balance BQ-B series

Electronic Balance BQ-B series

Model	Capacity	Readability	Repeatability	Linearity	Pan Size
BQ-B2001	0-200g	0.1g	0.1g	0.1g	Φ110mm
BQ-B5001	0-500g	0.1g	0.1g	0.1g	Φ130mm
BQ-B10001	0-1000g	0.1g	0.1g	0.1g	Φ130mm
BQ-B12001	0-1200g	0.1g	0.1g	0.1g	Φ130mm
BQ-B20001	0-2000g	0.1g	0.1g	0.1g	Φ150mm
BQ-B1002	0-100g	0.01g	0.01g	0.02g	Φ110mm
BQ-B2002	0-200g	0.01g	0.01g	0.02g	Φ110mm
BQ-B3002	0-300g	0.01g	0.01g	0.02g	Φ110mm
BQ-B5002	0-500g	0.01g	0.01g	0.02g	Φ130mm
BQ-B6002	0-600g	0.01g	0.01g	0.02g	Φ130mm
BQ-B10002	0-1000g	0.01g	0.02g	0.03g	Φ130mm
BQ-B20002	0-2000g	0.01g	0.02g	0.03g	Φ150mm
BQ-B30002	0-3000g	0.01g	0.02g	0.03g	Φ150mm
BQ-B50002	0-5000g	0.01g	0.02g	0.03g	Φ150mm
BQ-B1003	0-100g	0.001g	0.002g	0.003g	Φ90mm
BQ-B2003	0-200g	0.001g	0.002g	0.003g	Φ90mm
BQ-B3003	0-300g	0.001g	0.002g	0.003g	Φ90mm
BQ-B5003	0-500g	0.001g	0.002g	0.003g	Φ90mm



Electronic Balance BQ-B series

Model	Capacity	Readability	Repeatability	Linearity	Pan Size
BQ-B30001	0-3000g	0.1g	0.1g	0.1g	170X190mm
BQ-B50001	0-5000g	0.1g	0.1g	0.2g	170X190mm
BQ-B10K1	0-10000g	0.1g	0.1g	0.2g	170X190mm





Caliberation Weight Set
Art No.: CLBW01





1.Professional Series

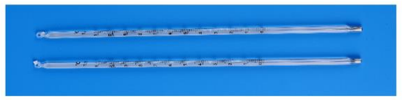
Class		E1	E2	F1
Material			Austenitic Stainless Steel	
Density			7.96kg/dm3	
Magnetic susceptibility			‹0.005	
Intensity of polarization		≤2.5	≤8	≤25
Form	1mg-500mg		Flat polygonal sheets	
	1g-20kg		Knob solid weight	
Packing	Individual		ABS Box /Aluminum box	
	Weight Set		Aluminum Box	

2. Economy Series

Class		F1	F2	M1
Material			Stainless Steel	
Density			7.9kg/dm3	
Magnetic susceptibility			‹0.05	
Intensity of polarization		≤25	≤80	≤250
Form	1mg-500mg		Flat polygonal sheets	
	1g-20kg		Knob solid weight	
Packing	Individual		ABS Box /Aluminum box	
	Weight Set		Aluminum Box	

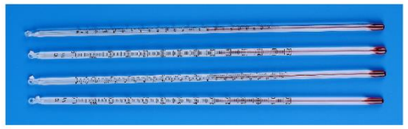
Technical Parameters

	1mg-500mg	1mg-100g	1mg-200g	1mg-500g	1mg-1kg	1mg-2kg	1mg-5kg	1mg-10kg	1mg-20kg
1mg	●	●	●	●	●	●	●	●	●
2mg	●●	●●	●●	●●	●●	●●	●●	●●	●●
5mg	●	●	●	●	●	●	●	●	●
10mg	●	●	●	●	●	●	●	●	●
20mg	●●	●●	●●	●●	●●	●●	●●	●●	●●
50mg	●	●	●	●	●	●	●	●	●
100mg	●	●	●	●	●	●	●	●	●
200mg	●●	●●	●●	●●	●●	●●	●●	●●	●●
500mg	●	●	●	●	●	●	●	●	●
1g		●	●	●	●	●	●	●	●
2g		●●	●●	●●	●●	●●	●●	●●	●●
5g		●	●	●	●	●	●	●	●
10g		●	●	●	●	●	●	●	●
20g		●●	●●	●●	●●	●●	●●	●●	●●
50g		●	●	●	●	●	●	●	●
100g		●	●	●	●	●	●	●	●
200g			●●	●●	●●	●●	●●	●●	●●
500g				●	●	●	●	●	●
1kg					●	●	●	●	●
2kg						●●	●●	●●	●●
5kg							●	●	●
10kg								●	●
20kg									●
Quantity	12	21	23	24	25	27	28	29	30



High Quality Mercury Thermometer

TH001
Student grade,permanent graduation with 1° increments.Each thermometer comes with an anti-roll triangle and is housed in a re-usable quality plastic storage.Mercury filling,white back, 30cm long..A great variety of temperature range available.



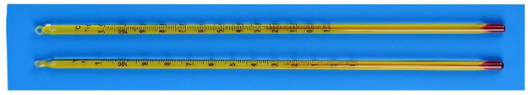
High Quality Red Liquid Thermometer

TH002
Student grade,permanent graduation with 1° increments.Each thermometer comes with an anti-roll triangle and is housed in a re-usable quality plastic storage.Red Liquid filling,white back, 30cm long..A great variety of temperature range available.



High Quality Mercury Thermometer

TH003
Student grade,permanent graduation with 1° increments.Each thermometer comes with an anti-roll triangle and is housed in a re-usable quality plastic storage.Mercury filling,yellow back, 30cm long..A great variety of temperature range available.



High Quality Red Liquid Thermometer

TH004
Student grade,permanent graduation with 1° increments.Each thermometer comes with an anti-roll triangle and is housed in a re-usable A great variety of temperature range available.quality plastic storage.Red Liquid filling,yellow back,30cm long.



Economy Mercury Thermometer

TH005
Economic thermometer,etched with 1° increments.Each thermometer is housed in a re-usable plastic storage. Mercury filling,yellow back,30cm long. A great variety of temperature range available..



Economy Red Liquid Thermometer

Th006
Economic thermometer,etched with 1° Increments.Each thermometer Is housed in a re-usable plastic storage. Red liquid filling,white back,30cm long.. A great variety of temperature range available.



Clinical Thermometer

1) **CTH002** Armpit Type,11.5 X 0.95cm
2) **CTH003** Armpit Type,12.5 X 1.15cm
3) **CTH004** Rectal Type
4) **CTH005** Oral Type

1715 Blood Sedimentation Tube

Capacity: 1ml
Length: 300mm
I.D.: 2. 5mm
Graduation: 0~200mm
Graduated Interval: 1mm



Light Liquid Hydrometer

HDM001
Range: 0.700~1.000

Heavy Liquid Hydrometer

HDM002
Range: 1.000~2.000



Dial Thermometer

MTH001
Diameter 1",
Stick Length: 5" with plastic tube
Temperature Range: 25-125℉





Dial Thermometer

MTH002
Diameter 30mm,
Stick Length: 5" with plastic tube
Temperature Range: 0~200℃



Dial Thermometer

MTH003
Diameter 65mm,Length 100mm
Range: -50~+50℃
Material: Aluminum



Dial Thermometer

MTH004
Size: 76x57x28mm
Range: -50~+50℃
Material: Plastic



Digital Thermometer

DTH001
Range: -50~300℃
Accuracy: ±1℃ between -20~120℃,otherwise ±2℃
Resolution: 0.1℃
Automatic power off after 45 minutes
Black color available



Digital Thermometer

DTH002
Range: -50 ~300℃ or -58~572℉
Accuracy: ±1℃/±2℉ between -20~120℃/-4~248℉, otherwise ±2℃/±4℉
Resolution: 0.1℃/0.1℉
Automatic power off after 45 minutes



Digital Thermometer

DTH003
Range: -50~300℃ or -58~572℉
Accuracy: ±1℃/±2℉
Resolution: 0.1℃/0.1℉
Automatic power off after 45 minutes



Digital Thermometer

DTH004
One display temperature, 4 key function: ON/OFF, MAX/MIN, C / F, HOLD
With the stainless steel probe protect case and the back clip
Auto power off
Temperature ranger: -50℃~300℃(-58℉~ 572℉)
Resolution: 0.1℃/0.1℉
Accuracy: +/-1.0℃/1.8℉within 0 ~ 100℃,
+/-2.0℃ other ranges.
70mm longth stainless steel probe



Digital Thermometer

DTH005
Range: -50~300℃ or -58~572℉
Accuracy: ±1℃/±2℉
Resolution: 0.1℃/0.1℉
Automatic power off after 10 minutes



Digital Food Thermometer

DTH006
Range: -50 ~ 300℃ (-58 ~ 572℉)
Graduation Division: 0.1℃/ 0.1℉
Length in total: 25cm



Digital Thermometer

DTH007
Range: -50 ~ 350℃ (-58 ~ 662℉)
Graduation Division: 0.1℃/ 0.1℉
Probe: 15cm long



Digital Thermometer

DTH008
Range: -50 ~ 300℃ (-58 ~ 572℉)
Graduation Division: 0.1℃/ 0.1℉
Probe: 15cm long and 180°rotatable



Digital Thermometer

DTH009
Range: -50 ~ 300℃ (-58 ~ 572℉)
Graduation Division: 0.1℃/ 0.1℉
Accuracy: ±1℃ (±1℉)
Probe: 15cm long



Digital Thermometer

DTH010
Range: -50 ~ 300℃ (-58 ~ 572℉)
Graduation Division: 0.1℃/ 0.1℉
Accuracy: ±1℃ (±1℉)
Probe: 13cm long
Water Proof



Digital Thermometer

DTH011
Range: -50 ~ 300℃ (-58 ~ 572℉)
Graduation Division: 0.1℃/ 0.1℉
Accuracy: ±1℃ (±1℉)
Probe: 13cm long



Digital Thermometer

DTH012
Range: -50 ~ 300℃ (-58 ~ 572℉)
Graduation Division: 0.1℃/ 0.1℉
Accuracy: ±1℃ (±1℉)
Probe: 15cm long
With hold function and Max/Min key to view the maximum/minimum.



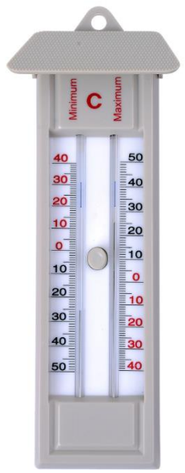
Infrared Thermometer

DTH013.01
Measuring Range: -50℃~500℃ (-58℉~932℉)
Resolution: 0.1℃ or 0.1℉ ℃/℉ Selection
DTH013.02
Measuring Range: -50℃~900℃ (-58℉~1652℉)
Resolution: 0.1℃ or 0.1℉ ℃/℉ Selection



Body Infrared Thermometer

DTH014
Measuring Range: 32℃~45℃
Accuarcy: ±0.2℃ (±0.36℉)
Measuring Distance: 5~15cm (2~5.9 in)



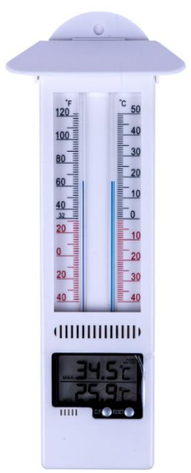
MMTH101
Size: 230 X 65mm



MMTH102
Size: 230 X 65mm



MMTH103
Size: 240 x 60mm



MMTH104, Digital
Size: 245x95x36mm



MMTH105, Digital
Size: 150x80x30mm

Maximum and Minimum Thermometer

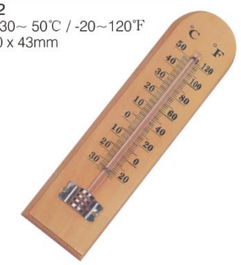
Wooden Thermometer

WTH001
Range: -30~ 50℃ / -20~120℉
Size: 200 x 43mm



Wooden Thermometer

WTH002
Range: -30~ 50℃ / -20~120℉
Size: 200 x 43mm



Wooden Thermometer

WTH003
Range: -40~ 50℃ / -40~120℉
Size: 200 x 43mm



Wooden Thermometer

WTH004
Range: -40~ 50℃ or -40~120℉
Size: 200 x 43mm



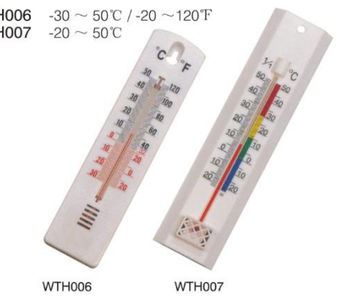
Plastic Wall Thermometer

WTH005
Range: -40 ~ 50℃ or -40 ~120℉
Size: 220 X 48mm



Plastic Wall Thermometer

WTH006 -30 ~ 50℃ / -20 ~120℉
WTH007 -20 ~ 50℃



WTH006 WTH007

Plastic Wall Thermometer

WTH008
Range: -30 ~ 50℃ / -20 ~120℉



Wet & Dry Thermometer

ZL001
Range: 0 ~ 50℃ / -20 ~120℉



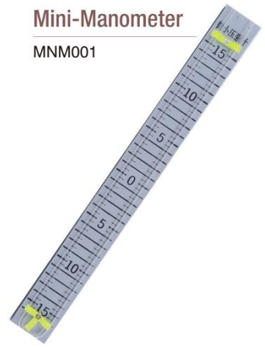
Wet & Dry Thermometer

ZL002
Range: -20 ~ 50℃



Mini-Manometer

MNM001



Clinical Thermometer

CTH001
Digital Clinical Thermometer
Colors: Green, Blue, Dark Blue, Pink, White



Clinical Thermometer

CTH001-B



Digital Thermometer and Hygrometer

HTH01
Measuring Range:
Indoor: -10~50℃ or 14~122℉
Outdoor: -50~70℃ or -58~158℉
Indoor Humidity: 20%~99%RH
Accuracy: ±1℃/±2℉, ±5%RH
Resolution: 0.1℃/0.1℉,1%RH
C/F Switch
Max/Min Temperature &
Humidity Records



Digital Thermometer, Hygrometer & Clock

HTH02
Measuring Range:-50~70℃ or -58~158℉,
10%~99%RH
Accuracy: ±1℃/±2℉, ±5%RH
Resolution: 0.1℃/0.1℉, 1%RH
C/F Switch
Max/Min Temperature Records
Date/Time Display



Big Display Digital Hygrometer, Thermometer and Clock HTC-1

HTH04
Indoor temperature,humidity and clock displays



Features:
- Large character LCD display, easy to read
- 2 temperature display modes: ℃/℉
- 2 time display modes: 12/24H
- Max/Min temperature and humidity memory function
- Hourly chime function
- Daily alarm function
- Calendar display function(Month and date)

Specifications:
- Temperature range: -50°C~+70°C (-58°F~+158°F)
- Temperature accuracy: ±1°C(1.8°F)
- Temperature resolution: 0.1°C(0.2°F)
- Humidity range: 10%~99% RH
- Humidity accuracy: ±5% RH
- Humidity resolution: 1% RH
- Power source: 1xAAA (1.5V) battery(Included)
- Material: ABS
- Dimensions: 105x97x23mm, (43/16"Hx37/8"Wx7/8"Thick)

Big Display Digital Hygrometer, Thermometer and Clock HTC-2

HTH004A
Indoor/outdoor Temperature, indoor humidity and clock displays simultaneously



Digital Indoor/Outdoor Hygrometer and Thermometer

HTH005
This temperature and humidity meter features large character LCD display. Displays time,humidity and temperature in Celsius or Fahrenheit.Includes stand and can be used as desk clock or room thermometer.

Specifications:
- Temperature range
  Indoor: -10°C~+50°C (14°F~+122°F)
  outdoor: -50°C~+70°C (-58°F~+158°F)
- Temperature accuracy: ±1°C (1.8°F)
- Temperature resolution: 0.1°C (0.2°F)
- Humidity range: 20%~99% RH
- Humidity accuracy: ±5% RH
- Humidity resolution: 1% RH
- Power source: 1*AAA (1.5V) battery (Included)
- Material: ABS



Digital Hygrometer and Thermometer

HTH006
This temperature and humidity meter features large character LCD display. Displays time, humidity and temperature in Celsius or Fahrenheit. Includes stand and can be used as desk clock or room thermometer.

Specifications:
- Temperature range: -50°C~+70°C (-58°F~+158°F)
- Temperature accuracy: ±1°C (1.8°F)
- Temperature resolution: 0.1°C (0.2°F)
- Humidity range: 10%~99% RH
- Humidity accuracy: ±5% RH
- Humidity resolution: 1% RH
- Power source: 1xAAA (1.5V) battery (Included)
- Material: ABS





Spring Scales, Transparent, Tubular

Art No:	Measuring Range	Readability
DY01001.01	10g/0.1N	0.2g/0.02N
DY01001.02	100g/1N	2g/0.02N
DY01001.03	200g/2N	4g/0.04N
DY01001.04	300g/3N	6g/0.06N
DY01001.05	500g/5N	10g/0.1N
DY01001.06	2000g/20N	40g/0.4N
DY01001.07	5000g/50N	100g/1N



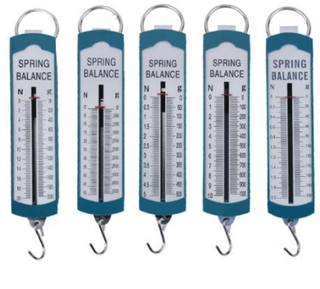
Spring Scales, Transparent, Tubular

Art No:	Measuring Range	Readability
DY01002.01	250g/2.5N	5g/0.05N
DY01002.02	500g/5N	10g/0.1N
DY01002.03	1000g/10N	20g/0.2N
DY01002.04	2000g/20N	40g/0.4N
DY01002.05	3000g/30N	60g/0.6N
DY01002.06	5000g/50N	100g/1N



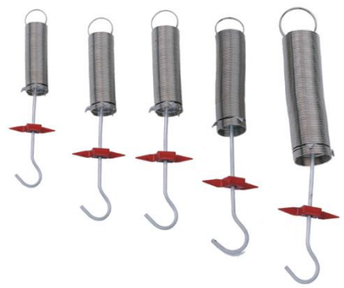
Spring Scales, Transparent, Tubular

Art No:	Measuring Range	Readability
DY01003.01	100g/1N	2g/0.02N
DY01003.02	250g/2.5N	5g/0.05N
DY01003.03	500g/5N	10g/0.1N
DY01003.04	1000g/10N	20g/0.2N
DY01003.05	2000g/20N	40g/0.4N
DY01003.06	3000g/30N	60g/0.6N
DY01003.07	5000g/50N	100g/1N
DY01003.08	10000g/100N	200g/2N



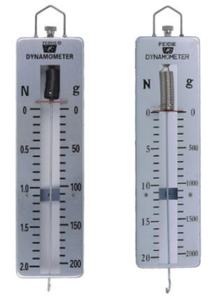
Spring Scales

Art No:	Measuring Range	Readability
DY01004.01	100g/1N	1g/0.01N
DY01004.02	250g/2.5N	2.5g/0.25N
DY01004.03	500g/5N	5g/0.5N
DY01004.04	1000g/10N	10g/0.1N
DY01004.05	2000g/20N	20g/0.2N
DY01004.06	5000g/50N	50g/0.5N



Spiral Spring Set of 5

Art No: DY01005
Range: 0.5N, 1N, 2N, 3N, 5N



Demonstration Spring Scales

Art No:	Measuring Range	Readability
DY01006.01	100g/1N	5g/0.05N
DY01006.02	200g/2N	10g/0.1N
DY01006.03	500g/5N	25g/0.25N
DY01006.04	1000g/10N	50g/0.5N
DY01006.05	2000g/20N	100g/1N



Dynamometer, Push & Pull

Art No: DY01007
Measuring Range: 10N
Readability: 0.2N



Dynamometer Circular in Pair

Art No:	Measuring Range	Readability
DY01008.01	5N	0.25N
DY01008.02	10N	0.5N



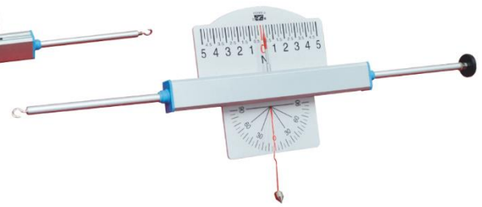
Single Pan Scale

Art No:DY01009



Double Sided Dynamometer

Art No: DY01010
Range: 5 - 0 - 5



Double Sided Dynamometer

Art No: DY01011
Range: 5 - 0 – 5, with plum



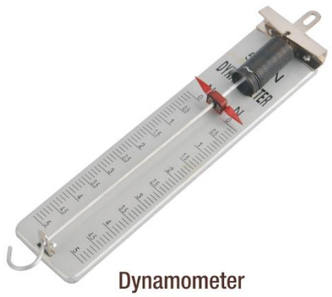
Dynamometer Circular

Art No: DY01012
Range: 5N



Spiral Spring Set of 5

Art No: DY01013
Max extension: 40cm
Max extension force: 1N, 4N, 9N, 15N, 20N



Dynamometer

Art No:	Measuring Range
DY01014.01	0.5N
DY01014.02	1N
DY01014.03	5N
DY01014.04	10N



Spring Spiral with Hook

Art No: DY01015
Range: 5N,
Diameter: 26mm
Overall Length: 215mm at ease



Spring Spiral, Push & Pull

Art No: DY01016
Diameter: 50mm
Overall Length: 100mm at ease



Hooked Weight Set, Aluminum

Art No: DY02001
Range: 10g-250g
10g, 20g, 30g,40g,50g,100g



Hooked Weight Set

Art No: DY02002
Range:10g-550g
10g, 20gx2, 50gx2, 200gx2



Slotted Weight Set

Art No:DY02003
Iron, chrome plated
200g×1,50g×2,20g×2,
10g×1 and 10g hook
Packed in plastic case.



Weight Set, Slotted

Art No.	Material	Range
DY02004.01	Iron, chrome plated	50g, 20gx9, 10g, 5gx2
DY02004.02	Iron, chrome plated	10gx10
DY02004.03	Iron, chrome plated	20gx10
DY02004.04	Iron, chrome plated	50gx10
DY02004.05	Iron, chrome plated	100gx10
DY02004.06	Iron, chrome plated	200g, 100gx2, 50gx4, 20gx2, 10gx2
DY02004.07	Brass	50g, 20gx9, 10g, 5gx2
DY02004.08	Brass	10gx10
DY02004.09	Brass	20gx10
DY02004.10	Brass	50gx10
DY02004.11	Brass	100gx10



Weight Set

Art No:DY02005
Range: 1g-210g
1g, 2gx2, 5g, 10g, 20gx2, 50g, 100g



Weight Set

Art No:DY02006
Weight Set,17-piece
Range: 10mg-100g



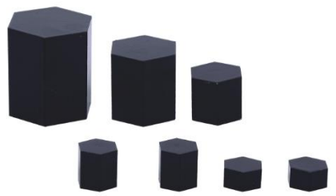
Precision Weight Set,Brass, Chrome Plated

Art No: DY02007
Range: 1g-1110g
1g, 2gx2, 5g, 10g, 20gx2, 50g,
100g, 200gx2, 500g



Deluxe Slotted Weight Set

Art No:DY02008.01
Deluxe Slotted Weight Set,Set of 8
10g, 20gx2, 50g, 100g, 200gx2, 500g
Art No:DY02008.02
Deluxe Slotted Weight Set,Set of 12
1g,2gx2,5g,10g, 20gx2,
50g, 100g, 200gx2, 500g



Weight Set

Art No: DY02009
Weight Set of 7
Range: 50g-2000g
50gx2, 100gx2, 200g,
500g, 1000g



Hooked Weight Set

Art No: DY02011
Range: 10gx10



Weights

Art No:DY02012
Weights, with 1 hook
Range: 200gx4



Weights

Art No:DY02013
Weights, with 2 hooks
Range: 50gx10



Weights

Art No:DY02014
Weights, with 1 hook
Range: 50gx10



Weights, Plastic, with Hook

Art No: DY02015
Range: 1g-55g
1gx10, 2gx10, 5gx5



Weights, with Hook

Art No: DY02016
Range: 50gx10



Weight Hanger

Art No:DY02017

	Material	Weight	Size
DY02017.01	Brass	50g	20.5x4.5cm dia
DY02017.02	Brass, Cr plated	50g	20.5x4.5cm dia
DY02017.03	Aluminum	50g	0.5x4.5cm dia



Hooked Weight Set

Art No: DY02018
Range: 10g ~1000g, brass & iron
10g, 20g x 2, 50g, 100g,
200g x 2, 500g, 1000g



Hooked Weight Set

Art No: DY02019
Range: 10g ~ 1000g, iron painted
10g, 20g x 2, 50g, 100g, 200g x 2, 500g, 1000g



Brass Weight Set

Art No: DY02020
Range: 1g~50g
1g,2g x2,5g,10g x2,20g,50g



Mass Cube Set

Art No: DY03001-1
Mass Cube Set,2cm
Cu, Fe, Zn, Al, Pb,and Wood
Art No:DY03001-2
Mass Cube Set,2.5cm
Cu, Fe, Zn, Al, Pb,and Wood



Mass Cube Set

Art No: DY03002
Br, Cu, Fe, Zn, Al, Acrylic
Plastic, Hard wood, Pb, Nylon.
Set of 10pcs
Size: 2.5x2.5x2.5cm



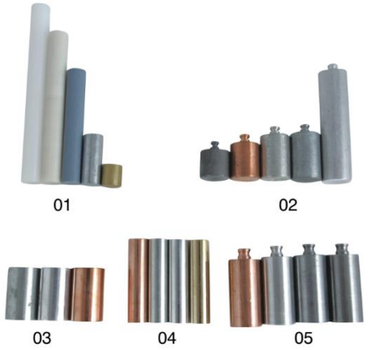
Mass Cube Set

Art No: DY03003
Br, Cu, Al, Fe, Zn, Pb
Size:2x2x2cm-6pcs
1x2x3cm-6pcs
1x1x1cm-6pcs



Mass Cube Set

Art No: DY03004
Br, Al, Pb, Fe. Set of 4pcs.
With hook.
Size: 3.2x3.2x3.2cm



Cylinder Sets

Art No:	Sizes	Material
DY03006.01	Same Weight, 19g	Al, Br, Nylon, PVC, PMP
DY03006.02	Same Weight, 58g	Al,Cu, Zn, Pb, Sn
DY03006.03	32x20mm dia	Al,Cu, Fe
DY03006.04	51x12.7mm	Al, Br, Cu, Fe
DY03006.05	47x20mm	Al, Br, Cu, Fe

Different sizes are available upon request



Balls

Art No:	Material & size
DY03007.01	Steel 3/4" dia
DY03007.02	Steel 1" dia
DY03007.03	Brass 3/4" dia
DY03007.04	Brass 1" dia
DY03007.05	Lead 3/4" dia
DY03007.06	Lead 1" dia
DY03007.07	Aluminium 3/4" dia
DY03007.08	Aluminium 1" dia
DY03007.09	Wooden 3/4" dia
DY03007.10	Wooden 1" dia
DY03007.11	Brass 8mm dia
DY03007.12	Brass 8mm dia, with hook
DY03007.13	Set of Fe, Br, Pb, Al & wooden balls, 3/4" dia
DY03007.14	Set of Fe, Br, Pb, Al & wooden balls, 1" dia



Cylinder Set

Art No:DY03005
Set of brass, Iron & aluminium cylinder.
Size: 32x20mm dia



Sinkable-Floatable Block Set

Art No: DY03008



Mass Cube Set

Art No: DY03009
Iron: 2x2x2cm, Brass: 2x2x2cm, Wood: 5x5x5cm
Aluminum: 2.5x2.5x2.5cm, 3x3x3cm



Single Pulley

Art No:DY04001
Single Pulley,Dia 70mm,ABS



Double Pulley in Tandem

Art No:DY04002
Double Pulley in Tandem,Dia 70mm,ABS



Triple Pulley in Tandem

Art No:DY04003
Triple Pulley in Tandem,Dia 70mm,ABS



Single Pulley

Art No:DY04004
Single Pulley,Dia 50mm,ABS



Double Pulley in Tandem

Art No:DY04005
Double Pulley in Tandem,
Dia 50mm,ABS



Triple Pulley in Tandem

Art No:DY04006
Triple Pulley in Tandem,
Dia 50mm,ABS



Double Pulley in Parallel

Art No: DY04007
Double Pulley in Parallel,
Dia 70mm,ABS



Triple Pulley in Parallel

Art No: DY04008
Triple Pulley in Parallel,
Dia 70mm,ABS



Quadruple Pulley in Parallel

Art No: DY04009
Dia 70mm,ABS



Double Pulley in Parallel

Art No: DY04010
Dia 50mm,ABS



Triple Pulley in Parallel

Art No: DY04011
Dia 50mm,ABS



Quadruple Pulley in Parallel

Art No: DY04012
Dia 50mm,ABS



Multi-Use Bench Pulley

Art No:DY04013
Diameter 50mm Pulley,Aluminum



Table Clamp Pulley

Art No: DY04014
Pulley Diameter 40mm,ABS



Pulley on Rod

Art No: DY04015
40mm Diameter
Overall Length:150mm



Table Clamp Pulley

Art No: DY04016
Pulley Diameter 50mm,ABS



Table Clamp Pulley

Art No.: DY04016.02
Pulley Diameter 40mm ABS
Art No.: DY04016.03
Pulley Diameter 50mm ABS



Table Clamp Pulley

Art No.: DY04016.04
Pulley Diameter 40mm Aluminum
Art No.: DY04016.05
Pulley Diameter 50mm Aluminum



Super Pulley

Art No: DY04017
Super Pulley, Diameter 50mm



Single Pulley with Clamp

Art No: DY04018



Wheel & Axle

Art No: DY05001
Dia: 130/60mm,Rod Length: 270mm



Wheel & Axle

Art No: DY05002
Dia: 35/50/65/105mm,
Rod Length: 120mm



Impeller

Art No: DY05003
To explain the principle of
steam & water turbine



Collision Balls

Art No: DY05005.01
Ball Size:Diameter 20mm
Frame Size:12×11×15. 5 cm



Collision Balls

Art No: DY05005.02
Ball Size:Diameter 20mm
Frame Size:11×10.5×14 cm



Collision Balls

Art No: DY05005.03
Ball Size:Diameter 25mm
Frame Size:24×23×14 cm



Collision Balls

Art No: DY05005.04
Ball Size: Diameter 11.5mm
Frame Size: 75 X 90 X 90MM



Collision Balls

Art No: DY05005.05
Ball Size: Diameter 16mm
Frame Size: 135 X 115 X 140MM



Collision Balls

Art No: DY05005.06
Ball Size: Diameter 20mm
Frame Size: 180 X 150 X 180MM



DY05006.02A DY05006.02B

Hall's Carriage

Art No: DY05006.02A
Art No: DY05006.02B



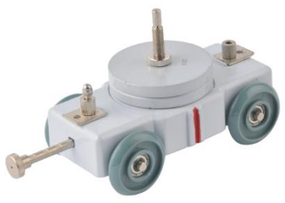
Electric Cart

Art No: DY05006.04



Dynamic Cart

Art No: DY05006.06



Dynamic Cart

Art No: DY05006.07



Dynamic Cart

Art No: DY05006.08



Force Table

Art No: DY05007.01
With 4 sets of weight, diameter 30cm



Force Table

Art No: DY05007.02
With 4 sets of weight, diameter 30cm,plastic table



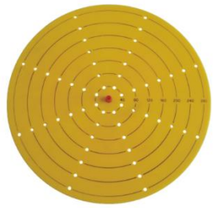
Force Table

Art No: DY05007.03
With 4 sets of weight, 40cm diameter



Force Table

Art No: DY05007.04
Force Table,Dia 40cm



Force Disc

Art No: DY05009



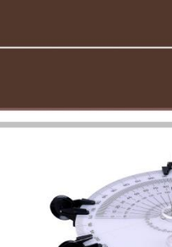
Plastic Megdeburg Hemispheres

Art No:DY05010A
This plastic hemispheres can withstand 180 pounds of force when pumped free of air, including 2 ABS hemispheres with plastic exhaust valve to fit pressure tubing. Diameter 12cm.



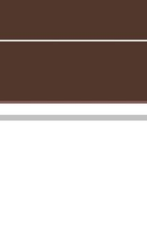
Metal Magdeburg Hemispheres

Art No:DY05010
Size: 7.25" x 4.5" x 4.25"



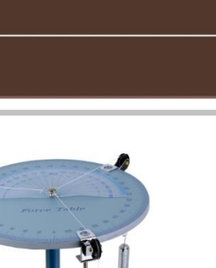
Maxwell's Wheel

Art No: DY05011
To demonstrate the theory about the conversion of potential energy and kinetic energy.



Demonstrator of Stability of Object

Art No: DY05012
For studying the stability of a body as a function of the position of its gravity center related to the base area.



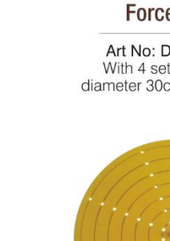
Pascall Ball

Art No: DY05013
To show that water pressure will transmit in all directions.



Action and Reaction Demonstrator

Art No: Dy05014
Battery Operated



Action and Reaction Demo.

Art No: DY05015-A
To verify Newton's law of motion



Action and Reaction Demo.

Art No: DY05015-B
To verify Newton's law of motion

Recoil Car

Art No: DY05016



Ballistic Car

Art No: DY05017
With remote control



Gravity Cart

Art No: DY05018



Magic Cone and Ramp

Art No: DY05020



Hook's Law Apparatus

Art No: DY05023



Model of Different Drive

Art No: DY05019
Model of Different Drive, Set of 8



Archemedes' Principle Apparatus

Art No: DY05024



Archemedes' Principle Apparatus

Art No: DY05025



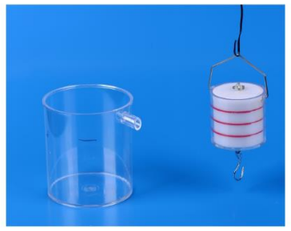
Archemedes' Principle Apparatus,Small

Art No: DY05026
(Bucket & Cylinder)



Overflow Can

Art No: DY05027
Material: Aluminium



Archimede's Law Apparatus,Large

Art No: DY05028



Spouting Cylinder

Art No: DY05029
To demonstrate the relationship between the pressure & depth of liquid.



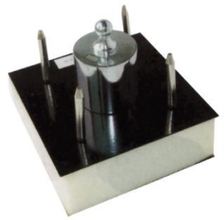
Demonstration of the Relationship between Liquid Pressure and Depth

Art No: DY05030



Pascal's Theory Apparatus

Art No:DY05031



Demonstration of Intensity of Pressure

Art No:DY05032
Demonstration of the relationship between area and pressure.
Weights not included.



Model of Water Pump

Art No:DY05033
To explain the construction and working principle of the pump



DY05034 DY05035

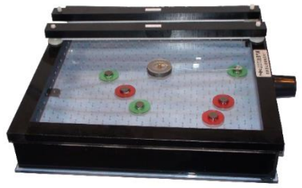
Water Pump Model

Art No: DY05034
Art No: DY05035



Microcosmic Explanation of Air Pressure

Art No: DY05036



Air Cushion Mechanics Demonstrator

Art No:DY05037



Deluxe Demonstrator of Air Cushion Mechanics

Art No:DY05038
2 Degrees of Movement
The air cushion technique consists of creating a layer between a moving object and a flat plane, in such a way as to practically eliminate friction.



Air Cushion Motion Demonstrator

Art No: DY05039



Air Buoyancy Force Demonstrator

ART NO: DY05040



Boyle's Law Apparatus

ART NO: DY05041



Liquid Pressure Demonstrator

Art No: DY05042
The glass tube is Φ 29.5mm x 210mm



Pendulum

Art No: DY06003.01



Simple Pendulum

Art No: DY06003.02



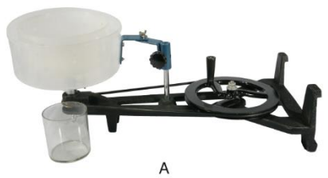
Centripetal Force Demonstrator

Art No: DY06004
Size: 26X10X17CM



Inertia Demonstration

Art No:DY06006.01



A B C

Centrifugal Rotating Device 3 in 1

Art No:DY06005



Inertia Demonstration

Art No: DY06006.02



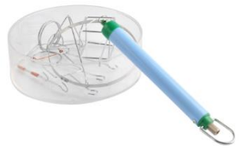
Inertia Demonstration

Art No:DY06006.03



Inertia Demonstration

Art No:DY06006.04



Surface Tension Demonstrator

ART NO: DY06007



Capillary Tubes

Art No:DY06008



Capillary Tubes

Art No:DY06008-A



Submarine Demonstrator

Art No: DY06009
To demonstrate the principle that how sub-marine floats & sinks.



Communicating Vessel

Art No: DY06010
Packaged in foam box



Water Turbine

Art No: DY06011



Petrol Engine Model

DY06012
SIZE: 17 X 12 X 28CM



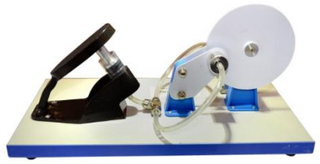
Diesel Engine Model

DY06013
SIZE: 17 X 12 X 28CM



Hydraulic Press Model

ART NO: DY06014
Made of plastic.



Auto Brake Demonstrator

ART NO: DY06015



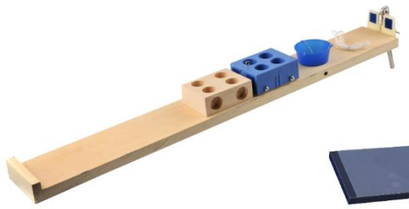
Balancing Bird

ART NO: DY07001



Roman Bridge

ART NO: DY07003



Inclined Plane and Trolley

Art No: DY08000



Newtonian 2nd Theory Demonstrator

Art No: DY08001



Friction Apparatus

Art No: DY08002
With 3-50g weights & a 100g spring scale.



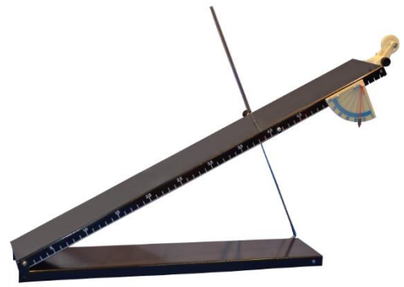
Friction on an Inclined Plane

Art No: DY08003.01
Best Seller



Balancing(Drinking)Bird

ART NO: DY07002



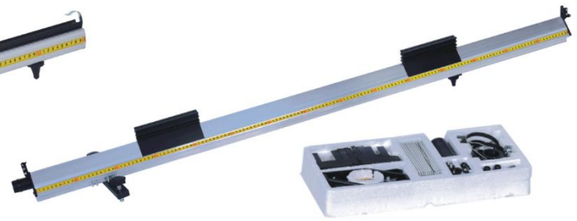
Friction on an Inclined Plane

Art No: DY08003.02



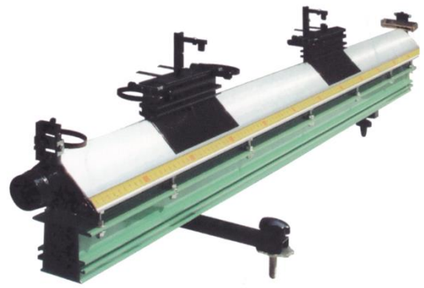
Skewed Slot Track

Art No: DY08004
To demonstrate the experiment of regular-speed linear movements & regular acceleration linear movements for qualitative & quantitative analysis.



Linear Air Track, with Accessories

Art No: DY08005.02 120cm
DY08005.03 150cm
DY08005.04 200cm



Deluxe Linear Air Track,

Art No: DY08006, with all accessories
DY08006.01 100cm
DY08006.02 120cm
DY08006.03 150cm
DY08006.04 200cm



Quiet Air Source

Art No: DY08007
Made of ABS
Size: 210mm Dia and 330mm High
Power: ⩾250W
Pressure: ⩾6KPa
Flow rate: ⩾35m³/h
Noise: <58dB



Quiet Air Source

Art No: DY08008.01
Made of Metal
Size: 210mm Dia and 370mm High
Power: ⩾250W Pressure: ⩾6KPa
Flow rate: ⩾35m³/h Noise: <58dB

Art No: DY08008.02
With Variable Output



Dynamic Trolley Track Apparatus

Art No: DY08009



Dynamic Trolley Track Apparatus

Art No: DY08010
With level



Dynamic Double Trolley Track Apparatus

Art No: DY08011



Free Fall Apparatus

Art No: DY08012.01
Free Fall Apparatus,160cm High

Art No: DY08012.02
Free Fall Apparatus,160cm High, with Timer





Free Fall Apparatus

Art No: DY08013.01
120cm High,

Art No: DY08013.02
120cm High,with Timer



Free Fall Tube

Art No: DY08014.01
Dia 42x1060mm,
Clear Palstic Tube

Art No: DY08014.02
With Pressure Gauge



Digital Timer

Art No: DY08015.01
Digital Timer,3 Digits
Used with air tracks, free falling apparatus and slot track.
Count range: 0-9999
Photoelectric jack: 2
Electromagnetic jack: 1



Digital Timer

Art No: DY08015.02
Digital Timer,4 Digits Used with air tracks, free falling apparatus and slot track.
Count range: 0-9999
Photoelectric jack: 2
Electromagnetic jack: 1



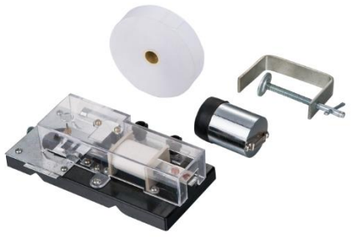
Digital Timer

Art No: DY08015.04
Digital Timer, 4 Digits Used with air tracks, free falling apparatus and slot track.
Count range: 0-999
Photoelectric jack: 2
Electromagnetic jack: 1



Digital Timer

Art No: DY08015.05
Smart Timer, 3 Digits
For free fall apparatus only.



Electromagnetic Dotting Timer

Art No: DY08016



Spark Timer

Art No: DY08017



Electric Spark Ticker Timer

Art No: DY08018



Loop-the-Loop Apparatus

Art No: DY08019.01
To demonstrate the circular motion of a body in a vertical plane.



Loop-the-Loop Apparatus

Art No: DY08019.02
To demonstrate the circular motion of a body in a vertical plane.



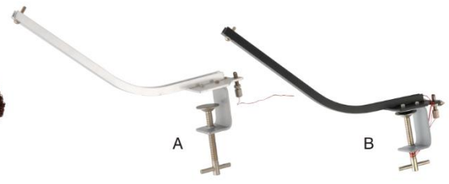
Loop-the-Loop Apparatus

Art No: DY08019.03
To demonstrate the circular motion of a body in a vertical plane.



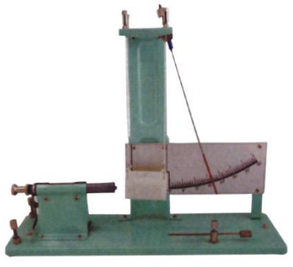
Loop-the-Loop Apparatus

Art No: DY08019.05



Collision in 2 Dimensions

ART NO: DY08020



Ballistic Pendulum

Art No: DY08021
To determine the velocity of bullet.



Dynamical System

ART NO: DY09000

Dynamical system is a multifunctional and open experimental platform, consists of herringbone base, multi-function rail (120 cm), dynamics system car, support bar, pulley, hooked weight, fence board, light blocking piece, collision spring, fasteners and etc. Use the dynamic system can complete many experiments related to dynamics. For instance, Explore the Rule of Uniform Variable Rectilinear Motion, Newton's Second Law, Theorem of Momentum, Theorem of Kinetic Energy and other mechanics important experiments.



Expert Data Logger

ART NO: DY09003

Screen: 10.1 Inch, Multi-point touch screen
Processor: Intel Atom Z670
CPU Clock Speed: 1.5G
Chipset: Intel Sm35
DDR: DDRII 2G
HDD: 32G SSD
Resolution: 1366*768
Graphics chip: Intel GMA 600
Wireless fuction: Support WIFI, Bluetooth
Data interface: 1 USB2.0 interface
Video interface: mini HDMI
Audio interface: Earphone jack, microphone interface
Other interface: Power interface, security slot
Card reader: Multi-Card Reader
Battery: 3600 mA
Operating system: Support Win8 *

12-bit resolution
30KHz collection frequency
800 data record per second
4 input ports (Rj45)
1 output port for back control (Rj45)



Easy Data Logger

Art No: Dy09001

12-bit resolution
30KHz collection frequency
800 data record per second
4 input ports (Rj45)
1 output port for back control (Rj45)
USB2.0 for connection to PC & Power supply
Size: 110×65×24 mm



Smart Data Logger

Art No: Dy09002

12-bit resolution
30KHz collection frequency
800 data record per second
LCD: 128×64Resolution,3 Inches
1800mAh rechargeable battery pack,150-day standby
USB2.0 for connection to PC&Power supply
4 input ports (Rj45)
1 output port for back control (Rj45)
Ram 4MB, support 150,000 data storage
Temperature Sensor Inside
Anti splash film button
Size: 166*116*43mm



Voltage Sensor

Art No: DY10001
Range: -25V ~+25V
Resolution: 0.01V
Accuracy: ±0.01V



Current Sensor

Art No: DY10002
Range: -3.0 A ~ +3.0A
Resolution: 0.001A
Accuracy: ±0.0015A



Micro Current Sensor

Art No: DY10003
Range: -10μA-10μA
Resolution: 0.005μA
Accuracy: ±0.1μA



Temperature Sensor

Art No: DY10004
Range: -50℃ ~ +150℃
Resolution: 0.05℃
Accuracy: ±0.5℃



Gas Pressure Sensor

Art No: DY10005
Range: 0 ~ 700Kpa
Resolution: 0.025Kpa
Accuracy: ±0.5 Kpa



Force Sensor

Art No: DY10006
Range: -50 ~ +50N
Resolution: 0.004N
Accuracy: ±0.05N



Motion Sensor

Art No: DY10007
Range: 20cm ~ 200cm
Resolution: 1mm
Accuracy: ±2%



Photogate

Art No: DY10008
Range: 1~ ∞S
Resolution: 0.01ms



Acceleration Sensor

Art No: DY10009
Range: ±6g
Resolution: 0.003g
Accuracy: ±0.01g



Light Sensor

Art No: DY10010
Double Range:
Range: 0 ~ 6000LUX/ 0 ~ 50000LUX
Resolution: 1.5LUX/ 12.5LUX
Accuracy: 1LUX



Magnetic Field Sensor

Art No: DY10011
Range: –64mT~+64mT
Resolution: 0.03mT
Accuracy: 0.03mT



Sound Sensor

Art No: DY10012
Double Range:
Range: 30~90dB / 80~110dB
Resolution: 0.015dB / 0.01dB
Frequence: 20Hz-20KHz



G-M Sensor

Art No: DY10013
Range: 0-40000c/min



Normal Open Sensor

Art No: DY10015
Range: 30V/1A



Normal Close Sensor

Art No: DY10016
Range: 30V/1A



Motion Sensor

Art No: DY10017
Range: 40cm~600cm
Resolution: 1mm



Current Sensor

Art No: DY10018
Range: —20mA~+20mA
Resolution: 0.01mA
Accuracy: ±0.1mA



Electric Charge Sensor

Art No: DY10019
Double Range
Range: 0~22nC/0~220nC
Resolution: 0.01nC/0.1nC
Accuracy: 2% / 2%



Quick Temperature Sensor

Art No: DY10020
Range: -25℃~100℃
Resolution: 0.03℃
Accuracy: ±0.5℃



Voltage Sensor

Art No: DY10021
Range: -60mV~60mV
Resolution: 0.03mV
Accuracy: ±0.5mV



Light Sensor

Art No: DY10022
Triple Range
Range: 0~600LUX/ 0~6000LUX
/0~50000LUX
Resolution: 0.15 LUX/ 1.5LUX/ 12 LUX
Accuracy: 1LUX/ 1LUX/ 1LUX



Thermal Radiation Sensor

Art No: DY10023
Range: -70 ~ 380℃
Resolution: 0.1℃
Accuracy: ±0.5℃



Relative Pressure Sensor

Art No: DY10024
Range: -20 ~ +20Kpa
Resolution: 0.01Kpa
Accuracy: ±0.1Kpa



Surface Temperature Sensor

Art No: DY10025
Range: -30.0 ~ 150.0℃
Resolution: 0.05℃
Accuracy: ±0.5℃



Electronic Compass Sensor

Art No: DY10026
Range: 0 ~ 360°
Resolution: 0.1°
Accuracy: ±1°



High Temperature Sensor

Art No: DY11001
Range: -200℃ ~+1200℃
Resolution: 0.5℃
Accuracy: ±1℃



pH Sensor

Art No: DY11002
Range: 0 ~ 14 pH
Resolution: 0.01 pH
Accuracy: ±0.1



Conductivity Sensor

Art No: DY11003
Range: 0 ~ 3000 μs/cm/
0~30000 μs/cm
Resolution: 0.7 μs/cm/ 8 μs/cm
Accuracy: ±1 μs/cm/ ±1 μs/cm



Dissolved Oxygen Sensor

Art No: DY11005
Range: 0 ~ 20mg/L
Resolution: ±0.01 mg/L
Accuracy: ±0.2mg/L



Co2 Sensor

Art No: DY11006
Range: 0 ~ 100000PPm
Resolution: 2ppm
Accuracy: (0~5000ppm) 3%
(5000~50000ppm) 4%
(50000~100000ppm) 6%



Humidity Sensor

Art No: DY11007
Range: 0 ~ 100%
Resolution: 1%
Accuracy: ±2%



Turbidity Sensor

Art No: DY11009
Range: 0 ~ 400NTU
Resolution: 01NTU



ECG Sensor

Art No: DY11010
Range: ±5mV
Resolution: 0.0025mV



Drop Counter Sensor

Art No: DY11012
Range: 0 ~ ∞C/ 0 ~ ∞mL
Resoluton: 1C/ 0.01mL
Accuracy: ±1C/ ±0.1mL



Big Power Mini Metal Kit 6 In 1

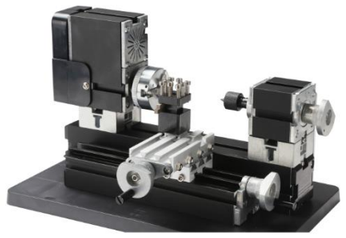
Art No: DY13001

Features:

1. Motor case and headstock are jointed. Maximum motor power is 144W by using more powerful motor. Some parts are electroplated to make the machine more beautiful and practical. The parts in the kit can be assembled into 6 kinds of machines with different function- jigsaw, wood-turning lathe, metal lathe, milling machine, drilling machine, sanding machine, only one kind of machine can be assembled each time.
2. Main parts: headstock, central block, jigsaw base, jigsaw casing, motor blade, gear, woodturning chisel base, cross slider, big slider, drilling lever, drilling table, jigsaw table, connection piece, tailstock, sanding paper panel, machine vice(all of the parts above are made of metal), drive belt cover, grinding wheel, wheel guard.

Technical parameters:

1.Motor speed :12,000rpm/min(optional choice 20,000rpm/min)
2.Input voltage/current/power:12VDC/5A/60W
Switching power input:AC110V-240V
3.Jigsaw working table size:90mm*90mm
4.Maximum working material diameter of metal lathe and woodturning lathe:50mm
5.Working material length of metal lathe and woodturning lathe:135mm
6.Center height of metal lathe:50mm
7. Slider travel: axis X 145, axis Y 32, axis Z 32.
8.Collets:1-6mm
9. Drilling working table size: 123*100mm
10. Maximum workpiece size clamped by vice:50mm
11. Maximum workpiece diameter clamped by three-jaw chuck:50mm
12. All of the machines are safe touch except milling machines. It requests to be used under parents or teachers instruction when the milling machine is being used by the kids. Working material thickness of jigsaw: hardwood 4mm, plywood 7mm, soft wood 18mm, aluminum 0.5mm, acrylic 2mm. It is a good tool for families and schools to do model airplane and other wood model crafts.



Big Power Mini Metal Lathe

Art No: DY13002

Features:

1. Motor case and headstock are jointed. Maximum motor power is 144W by using more powerful motor.
2. Main parts: headstock, tail stock, long machine bed, big slider, small slider, motor blade, gear, connection piece, drive belt cover. All of the parts are made of metal except drive belt cover.
3. Center height- 50mm, distance between centers-135mm, motor speed normally will drop to 2000rpm/min when it machines metal.
4. Lathe tool is made of high speed steel quality material and it can machine soft metal, nonferrous metal and precious metal. By using central block, diameter can be expanded to 50mm.

Technical parameters:

1.Motor speed :12,000rpm/min(optional choice 20,000rpm/min)
2.Input voltage/current/power:12VDC/5A/60W
3.Maximum working material diameter:100mm
4.Working material length:135mm
5. Working material: lignin plastic, soft metal(gold, silver, copper, aluminum etc.), acrylic, plastic etc.
6.With 0.02mm scale line ,the hand wheel increases the precision when processing.
7.Motor power :144W
8.Axis Z travel 145mm, Axis X travel 32mm
9.Accuracy of process: 0.05mm,
10.Working material: soft metal (gold, silver, copper, aluminum etc.)



Basic Machine Kit 6 In 1

Art No: DY13003

The parts in the kit can be assembled into 6 kinds of machines with different function- jigsaw, wood turning lathe, metal lathe, milling machine, drilling machine, sanding machine, only one kind of machine can be assembled each time.
1.Motor speed :20,000rpm/min(optional choice 12,000rpm/min)
2.Input voltage/current/power:12VDC/2A/24W
Switching power input:AC110V-240V
3.Jigsaw working table size:90mm*90mm
4.Maximum working material diameter of metal lathe and woodturning lathe:50mm
5.Working material length of metal lathe and woodturning lathe:135mm
6.Axis X travel：30
7. Collets:1-6mm
8 .Drilling working table size: 123*100mm
9. Maximum workpiece size clamped by machine vice:30mm
10. Maximum workpiece diameter clamped by three-jaw chuck:50mm
11. All of the machines are safe touch except milling machines. It requests to be used under parents or teachers instruction when the milling machine is being used by the kids. Working material thickness of jigsaw: hardwood 4mm, plywood 7mm, soft wood 18mm, aluminum 0.5mm, acrylic 2mm. It is a good tool for families and schools to do model airplane and other wood model crafts.



Big Power Mini Metal Kit With Bow Arm 10 In 1

Art No: DY13004

Features:

1.Motor case and headstock are jointed. Maximum motor power is 144W by using more powerful motor. Some parts are electroplated to make the machine more beautiful and practical. The parts in the kit can be assembled into 10 kinds of machines with different functions- bow-arm jigsaw, wood-turning lathe, metal lathe, beads machines, milling machine, drilling machine, sanding machine, hand-held machine, dividing machine, big wood-turning machine, only one kind of machine can be assembled each time.。
2.Main parts: headstock, central block, jigsaw base, jigsaw casing, motor blade, gear, woodturning chisel base, cross slider, big slider, drilling lever, drilling table, jigsaw table, connection piece, tailstock, sanding paper panel, dividing positioner, vice(all of the parts above are made of metal), drive belt cover, grinding wheel, wheel guard.

Technical parameters:

1.Motor speed :12,000rpm/min(optional choice 20,000rpm/min)
2.Input voltage/current/power:12VDC/5A/60W,
Switching power input: 110V—240V
3.Jigsaw working table size:90mm*90mm
4.Maximum working material diameter of metal lathe and woodturning lathe:50mm
5.Working material length of metal lathe and woodturning lathe:135mm
6.Center height of metal lathe:75mm
7. Slider travel: axis X 145, axis Y 32, axis Z 32
8.Collets:1-6mm
9. Drilling working table size: 123*100mm
10. Maximum workpiece size clamped by vice:50mm
11.Maximum workpiece diameter clamped by three-jaw chuck:50mm
12.Maximum bead's diameter:20mm
13.Maximum workpiece diameter by big wood turning machine： 130mm
14.Workpiece length by metal lathe and wood-turning machine :280mm
15. All of the machines are safe touch except milling machines. It requests to be used under parents or teachers instruction when the milling machine is being used by the kids. Working material thickness of jigsaw: hardwood 4mm, plywood 7mm, soft wood 18mm, aluminum 0.5mm, acrylic 2mm. It is a good tool for families and schools to do model airplane and other wood model crafts.
16. The outer package, called as storage box, is made of plastic , not foam. Inside of the storage box, there are 3 transparent food-grade plastic box containing machine parts and other 2 transparent food-grade plastic box containing screws. With the good package, it is much easier for the students to store the machine parts and it also increases the machines service life. （Remark: to put the certain parts in a certain place, we designed 6 locating slots in the storage box and each locating slots is completely covered by the locating block . Therefore, the machine parts will be well packed and easily taken out.）



Gasoline Engine Section Demo Model

Art No: DY13005

About The Product:

The device adopts the whole clearly-designed cross section of Toyota Corolla 2ZR-FE electronically-controlled gasoline engine to illustrate the engine's internal and external structures and functioning. It applies to the teaching of the gasoline engine's working principle and mechanic structure.

Features:

1. It adopts the cross section of the electronically-controlled gasoline engine to illustrate the engine's internal and external structures.
2. The different components on the frame are painted with different colors.
3. The gasoline engine will operate slowly driven by a three-phase gear reduction motor, demonstrating the working process of components in the gasoline engine.
4. The moveable shelf is made of high-intensity steel and the surface is paint-coated. Self-retention wheels are installed to ensure that it is flexible and convenient.

Basic Parameter:

1. Size: 800mm x 600mm x 1200mm (length x width x height)
2. Driving power supply: three phase four wire (three phase five wire 380V ± 10% 50Hz)
3. Three-phase gear reduction sense motor
   - Model: 5IK120GN-C
   - Rated voltage: AC 220V/380V 50Hz
   - Rated power: 120 W
   - Rated rotation speed: 50Hz 90/1400rpm 60Hz 90/1500rpm
   - Reduction ratio: 30
4. Operating temperature: -40℃ to +50℃

Equipment Model	Application Auto Model	Engine Parameter
DY13005.01	Toyota Corolla 2ZR-FE	Inline four-cylinder, Displacement: 1.8 L, maximum power: 100KW, Features:Dual VVT-i DOHC
DY13005.02	Toyota Vios 8A-FE	Inline four-cylinder, Displacement: 1.3 liters, maximum power: 63KW, Features: 16-valve DOHC
DY13005.03	Volkswagen Jetta 1.6L	Inline four-cylinder, displacement: 1.6 liters, maximum power: 70KW, features: two-valve single camshaft
DY13005.04	Volkswagen Santana AJR	Inline four-cylinder, Displacement: 1.8 liters, maximum power: 74 KW, features: 8-valve single overhead camshaft
DY13005.05	Volkswagen Passat 1.8T	Inline four-cylinder, Displacement: 1.8 liters, maximum power: 110KW, features: 5-valve DOHC, turbo
DY13005.06	Volkswagen TSI Magotan	Inline four-cylinder, Displacement: 1.4 liters, maximum power: 96KW, Features: 16-valve DOHC, direct injection, dual VVT technology, turbocharger
DY13005.07	Buick Regal 3.0L	V-type 6-cylinder, displacement: 3.0 liters, maximum power: 130KW, Features: 12- valve
DY13005.08	Honda Accord 2.4L	Inline four-cylinder, Displacement: 2.4 liters, maximum power: 125KW, Features: 16-valve DOHC, I-VTEC



Deluxe Wimshurst Machine

Art No: E01000
Diameter 400mm and
75mm max spark



Wimshurst Machine

Art No: E01001
Diameter 235mm



Wimshurst Machine

Art No: E01002.01
Diameter 235mm



Wimshurst Machine

Art No: E01002.02
Diameter 275mm



Van De Graff Generator

Art No: E01003
Used for physical experiments in
universities & middle schools as
high tension electrostatic source



Van De Graff Generator

Art No: E01003.02
The diameter of the sphere is 270mm,
overall size is 230x380x800mm.
Both DC motor and hand operated.



Van De Graff Generator

Art No: E01003.03
With 180mm s.steel sphere,wooden
base,DC motor operator.80kv spark.
Overall size 190*280*480mm



Sphere Conductor

Art No: E01004



Pith Ball Electroscope

Art No: E01005



Spin Type Electroscope

Art No: E01006



Cylinder Conductor

Art No: E01007
To demonstrate the experiments
of electrostatic in middle school.



Aluminium-leaf Electroscope

Art No: E01008



Aluminium-leaf Electroscope

Art No: E01009



Gold Foil Electroscope

Art No: E01010
With scale. Suitable for quantitative
demonstration of static electricity
in middle school. With accessories.



Pointer Electroscope

Art No: E01011A
With scale. Suitable for quantitative
demonstration of static electricity
in middle school. 2pcs/set.



Pointer Electroscope

Art No: E01011B
With scale. Suitable for quantitative
demonstration of static electricity
in middle school. 2pcs/set.



Electrostatic Demonstration Kit

Art No: E01012
This set is to demonstrate experiments on
electrostatic in the physics course of middle
school. Consists of various individual instruments.
Size of box: 53x38x25cm



Leyden Jar Assembly

Art No: E01013



Ammeter, DC

Art No: AMP001
Measuring Range: -0.2A~0~0.6A
-1A~0~3A



Ammeter, DC

Art No: AMP002
Measuring Range: 0~200μA



Ammeter, AC

Art No: AMP003
Measuring Range: 0~100mA
0~500mA



Ammeter, DC

Art No: AMP004
Measuring Range: 0~50mA
0~500mA



Ammeter, DC

Art No: AMP005
Measuring Range: 0-15A



Ammeter, DC

Art No:AMP006
Measuring Range: 0-100mA



Ammeter, DC

Art No: AMP007
Measuring Range: 0~50mA
0~500mA 0~5A



Ammeter, DC

Art No: AMP008
Measuring Range: 0~10A



Ammeter, DC

Art No: AMP009
Measuring Range: 0~2.5A 0~5A



Ammeter, DC

Art No: AMP010. 01
Measuring Range: 0~1A 0~5A



Ammeter, DC

Art No: AMP010. 02
Measuring Range: 0~1A 0~5A



Ammeter, DC

Art No: AMP011
Measuring Range: -100mA~0~500mA
-10mA~0~50mA -1A~0~5A



Ammeter, DC

Art No: AMP012
Measuring Range: 0~1A



Ammeter, DC

Art No: AMP013
Measuring Range: 0~1A 0~3A



Ammeter, DC

Art No: AMP014
Measuring Range: 0~500mA
All ranges available upon request



Ammeter, DC

Art No: AMP015
Measuring Range: -35mA~0~35mA



Ammeter, DC

Art No: AMP016
Measuring Range: 0~10mA



Ammeter, DC

Art No: AMP017. 01
Measuring Range: -500uA~0~500uA



Ammeter, DC

Art No: AMP017. 02
Measuring Range: -500uA~0~500uA



Ammeter, DC

Art No: AMP018
Measuring Range: -35uA~0~35uA



Ammeter, DC

Art No: AMP020
Measuring Range: -50uA~0~50uA



Ammeter, DC

Art No: AMP096
Measuring Range:
-1A~0~3A -0.2A~0~0.6A



Ammeter, DC

Art No: AMP097
Measuring Range: 0~500mA
0~50mA 0~5A Low Quality



Ammeter, DC

Art No: AMP098
Measuring Range: -1A~0~1A
Low Quality



Ammeter, DC

Art No: AMP099
Measuring Range: -50uA~0~50uA
Low Quality



Voltmeter, DC

Art No: VLT001
Measuring Range:
-35mV~0~35mV



Voltmeter, DC

Art No:VLT002
Measuring Range:
-35mV~0~35mV



Voltmeter, DC

Art No:VLT003
Measuring Range:
-1V~0~3V -5V~0~15V



Voltmeter, DC

Art No: VLT004
Measuring Range: -1V~0~3V
-5V~0~15V



Voltmeter, DC

Art No:VLT005
Measuring Range:
0~3V 0~15V 0~300V



Voltmeter, DC

Art No: VLT007
Measuring Range: 0~5V



Voltmeter, DC

Art No: VLT008
Measuring Range: 0~3V 0~5V



Voltmeter, AC

Art No: VLT009
Measuring Range: 0~30V 0~300V



Voltmeter, DC

Art No: VLT010
Measuring Range: 0~300mV
0~3V 0~30V
All ranges available upon request



Voltmeter, DC

Art No: VLT011
Measuring Range:
0~300mV 0~3V 0~30V



Voltmeter, DC

Art No: VLT012
Measuring Range:
0~3V 0~30V 0~300V



Voltmeter, DC

Art No: VLT013
Measuring Range:
0~2V



Voltmeter, DC

Art No: VLT014
Measuring Range:
0~5V 0~15V



Voltmeter, DC

Art No: VLT015
Measuring Range:
0~3V 0~10V 0~15V



Voltmeter, DC

Art No: VLT016
Measuring Range:
0~1V 0~3V



Voltmeter, DC

Art No: VLT017
Measuring Range:
0~3V 0~6V



Voltmeter, DC

Art No: VLT018
Measuring Range:
0~500mV



Voltmeter, DC

Art No: VLT096
Measuring Range:
-5V~0~15V -1V~0 ~3V



Voltmeter, DC

Art No: VLT097
Measuring Range: 0~3V 0~15V
0~300V Low Quality



Galvanometer

Art No:GLM001
Measuring Range:-300 ~0~ +300



Galvanometer

Art No:GLM002
Measuring Range:
-35~0 ~ +35



Galvanometer

Art No: GLM003
Measuring Range:
-50~0~+50



Galvanometer

Art No: GLM004
Measuring Range:
-500~0~+500



Basic Ampere-Voltage Meter, DC

Art No: AVM001
Measuring Range: 0 ~ 100mV; 0 ~ 1V;
0 ~ 10V; 0 ~ 50V
0 ~ 100uA; 0 ~ 100mA;
0 ~ 1A; 0 ~ 5A



Miniature Lamp Holder

Art No: E02000
Screw type



Miniature Lamp Holder

Art No:E02001



Miniature Lamp Holder

Art No:E02002
With 4mm sockets.
Screw type on plastic base.



Miniature Lamp Holder

Art No:E02003
Plug type



Miniature Lamp Holder

Art No:E02004.01
Screw type



Miniature Lamp Holder

Art No: E02004.02
Screw type with 4mm
banana socket



Miniature Lamp Holder

Art No: E02004.03
Screw type



Miniature Lamp Holder

Art No:E02005
With spring posts



Miniature Lamp Holder Round

Art No:E02006



Miniature Lamp Holder

Art No:E02007



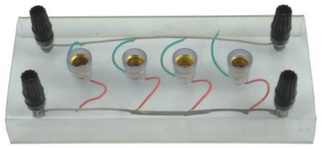
Switch

Art No:E02008



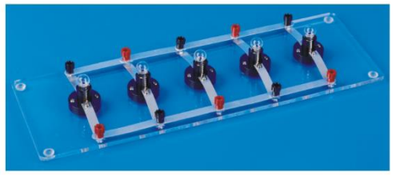
Buzzer

Art No:E02009



4-Lamp Board

Art No:E02010



5-Lamp Board

Art No:E02011



Miniature Lamps,Pk/10

Art No:E02013

Art No:	Rated Current
E02013.01	1.5V,0.3A
E02013.02	1.5V,3A
E02013.03	2.5V,0.3A
E02013.04	2.5V/3A
E02013.05	3.8V,0.2A
E02013.06	3.8V/3A
E02013.07	4.8V/0.5A
E02013.08	6.2V,0.5A
E02013.09	6.2V/5A
E02013.10	12V,0.1A
E02013.11	12V,0.3A
E02013.12	12V/7A



Light Source with Battery Holder

Art No: E02012



D Cell Battery Holder

Art No: E03001
4pcs/set



D Cell Battery Holder

Art No: E03002
4pcs/set



D Cell Battery Holder, Button Type

Art No: E03003



D Cell Battery Holder

Art No: E03004
4pcs/set, blue or yellow



D Cell Battery Holder

Art No: E03005
4pcs/set, yellow



3A Battery Holder

Art No: E03006
4pcs/set, button type, good quality



Battery Holder Set

Art No: E03007
4pcs D cell battery holder on base
With 4mm sockets



Battery Holder Set

Art No: E03008
4pcs D cell battery holder on base
With 4mm sockets



1-D Cell Battery Holder

Art No: E03009.01
With 4mm sockets

2-D Cell Battery Holder Set

Art No: E03009.02
With 4mm sockets

4-D Cell Battery Holder Set

Art No: E03009.03
With 4mm sockets



D Cell Battery Holder with Clips

Art No:E03010



D Cell Battery Holder with Leads

Art No:E03011



C Cell Battery Holder with Leads

Art No: E03012



AA Cell Battery Holder with Leads

Art No: E03013



AAA Battery Holder

Art No: E03014



D Cell Battery Holder

Art No: E03015



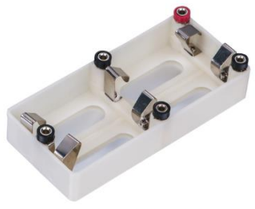
D Cell Battery Holder

Art No: E03016



D Cell Battery Holder

Art No: E03017



D Cell Battery Holder Set

Art No: E03018
4pcs in one



D Cell Battery Holder Set

Art No: E03019
4pcs in one



D Cell Battery Holder Set

Art No: E03020
3pcs in one



AA Cell Battery Holder Set

Art No: E03021
2pcs in one



AA Cell Battery Holder Set

Art No: E03022
4pcs in one



Knife Switch

Art No: E04001.01
Single knife, single throw,
screw posts



Knife Switch

Art No: E04001.02
Single knife, single throw,
screw posts



Knife Switch

Art No: E04001.03
Single knife, single throw,
with 4mm banana socket



Knife Switch

Art No: E04001.04
Single knife, single throw, spring posts



Knife Switch

Art No: E04002.01
Single knife,double throw, with 4mm sockets



Knife Switch

Art No: E04002.02
Single knife, double throw, screw posts



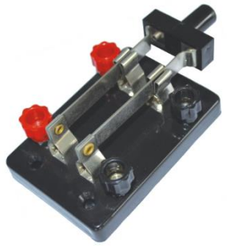
Knife Switch

Art No: E04002.03
Single knife, double throw, screw posts



Knife Switch

Art No: E04002.04
Single knife, double throw, spring posts



Knife Switch

Art No: E04003.01
Double knife, single throw , screw posts



Knife Switch

Art No: E04003.02
Double knife, single throw, with 4mm sockets



Knife Switch

Art No: E04003.03
Double knife, single throw, screw posts



Knife Switch

Art No: E04004.01
Doule knife, double throw, screw posts



Knife Switch

Art No:E04004.02
Double knife,double throw, with 4mm sockets



Knife Switch

Art No: E04004.03
Double knife, double throw, screw posts



Knife Switch

Art No: E04004.04
Double knife, double throw, spring posts



Contact Key

Art No: E04005



Switch

Art No: E04006



Economy Switch

Art No: E04007



Sliding Contact Rheostat

Art No: E05000

Specifixations
Resistance tolerance: ±10%
Insulation resistance: >3×10 Ω
Earthing resistance: <0.1Ω
Rated resistance: see table
Dimensions(W×H×D):285×140×95mm
Ceramic Pipe diameter:47mm
Weight(kg):1.8

Art No: E05000.01	Resistance(Ω): 10	, Max. Current: 4A
Art No: E05000.02	Resistance(Ω): 33	, Max. Current: 2.2A
Art No: E05000.03	Resistance(Ω): 100	, Max. Current: 1.25A
Art No: E05000.04	Resistance(Ω): 330	, Max. Current: 0.7A
Art No: E05000.05	Resistance(Ω): 1000	, Max. Current: 0.4A
Art No: E05000.06	Resistance(Ω): 3300	, Max. Current: 0.22A



Sliding Rheostat

Art No:	Resistance	Rated Current
E05001.01	0~5Ω	3A
E05001.02	0~10Ω	2A
E05001.03	0~20Ω	2A
E05001.04	0~50Ω	2A
E05001.05	0~50Ω	1.5A
E05001.06	0~200Ω	1.25A
E05001.07	0~1750Ω	0.3A
E05001.08	0~2000Ω	0.3A



Sliding Rheostat

Art No:	Resistance	Rated Current
E05002.01	0~5Ω	3A
E05002.02	0~10Ω	2A
E05002.03	0~20Ω	2A
E05002.04	0~50Ω	2A
E05002.05	0~50Ω	1.5A
E05002.06	0~200Ω	1.25A
E05002.07	0~1750Ω	0.3A
E05002.08	0~2000Ω	0.3A



Plug Key, 1 Way

Art No: E04008



Plug Key, 2 Way

Art No: E04009



Resistance Coil

Art No: E05003.01,1Ω
Art No: E05003.02,5Ω
Art No: E05003.03,10Ω



Resistance Coil

Art No:	Resistance	Rated Current
E05004.01	1Ω	1A
E05004.02	2Ω	1A
E05004.03	3Ω	1A
E05004.04	4Ω	1A
E05004.05	5Ω	1A



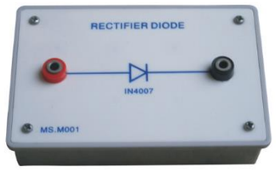
Resistance Coil

Art No:	Resistance	Rated Current
E05005.01	1Ω	1A
E05005.02	2Ω	1A
E05005.03	3Ω	1A
E05005.04	4Ω	1A
E05005.05	5Ω	1A



Resistance Box, 9.99Ω

Art No: E05006
Other ranges available



Rectifier Diode

Art No:E07011



Single-Throw Single-Knife Switch with Plastic Box

Art No:E07012



Single-Knife Double-Throw Switch with Plastic Box

Art No:E07013



Circuit Board with Variable Resistor

Art No:E07014



220V Analog Circuitry for Household Electric Apparatus

Art No: E07015



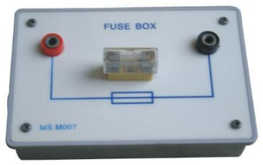
A variety Kinds of Capacitance

Art No: E07016



Buzzer with Plastic Box

Art No: E07017



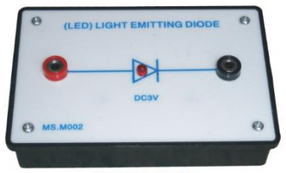
Fuse Box

Art No: E07018



Changes of Electric Current in an Electric Circuit

Art No: E07021



(LED) Light Emitting Diode

Art No: E07022



Circuit Board with Fuse

Art No: E07023



Parallel Circuit

Art No: E07025



Variable Resistance Circuit

Art No: E07026



Parallel & Series Circuits

Art No: E07027



Transformer 6/24 V-30 VA

Art No:E07028



Student Power Supply

Art No: POW001
DC Output: 0 ~25V contuniously adjustable; output current: 6A
AC Output: 0 ~25V continuously adjustable; output current: 6A



Student Power Supply

Art No: POW002
DC Output: 1.5V, 3V, 4.5V, 6V, 9V, 12V, 15V, 18V, 24V total 9 ranges; output current: 6A
AC Output: 6V, 9V, 12V; output current: 6A



Teaching Power Supply for Senior High School

Art No: POW003
DC output:1-25V,one gear 2V,total 12 gears;Output current: 2A
AC output:2-24V,one gear 2V,total 12 gears;Output current: 3A
Big DC current output: 40A,auto cutoff after 8S.



Student Power Supply

Art No: POW004
AC & DC 3A, 2V ~16V, 8 ranges;
DC stabilized 0.3A, 6V
Automatic protection



Student Power Supply

Art No: POW005
AC & DC 6A, 2V ~24V, 12 ranges;
DC stabilized 1A, 6V、9V、12V, 3 Ranges
Automatic protection



Student Power Supply

Art No: POW006
DC Output: 2A, 2V ~18V, 8 ranges
AC Output I: 10A, 6V
AC Output II: 2A, 2V ~18V, 8 ranges



Student Power Supply

Art No: POW007
DC Output: 1.5A, 1.5V ~12V, 6 ranges
AC Output: 2A, 2V ~12V, 6 ranges
Automatic protection



Student Power Supply

Art No: POW009
Input: 220V
Output: DC 3V,4.5V,6V,7.5V,9V,12V
With fuse.



AC/DC Power Supply

Art No: POW011
DC & AC 2-12V,total 6 grades,current 5A
Overload self protection.



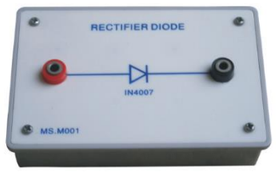
Student Power Supply

Art No: POW010.01, Output Current: 4A
Art No: POW010.02, Output Current: 6A
Art No: POW010.03, Output Current: 8A
Art No: POW010.04, Output Current: 10A
Input Voltage: AC220V 50Hz
Output Voltage: AC 1V 2V 3V 4V 5V 6V 7V 8V 9V 10V 11V 12V 13V
DC 1V 2V 3V 4V 5V 6V 7V 8V 9V 10V 11V 12V 13V
Automatic overload protection



AC/DC Power Supply

Art No: POW011.02
AC/DC 0-12V,total 7 grades,max current 2A
Overload self protection



Rectifier Diode

Art No:E07011



Single-Throw Single-Knife Switch with Plastic Box

Art No:E07012



Single-Knife Double-Throw Switch with Plastic Box

Art No:E07013



Circuit Board with Variable Resistor

Art No:E07014



220V Analog Circuitry for Household Electric Apparatus

Art No: E07015



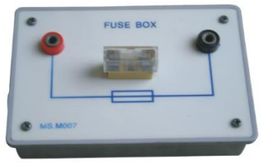
A variety Kinds of Capacitance

Art No: E07016



Buzzer with Plastic Box

Art No: E07017



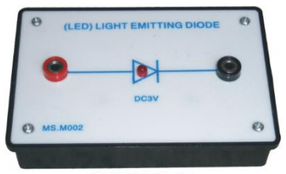
Fuse Box

Art No: E07018



Changes of Electric Current in an Electric Circuit

Art No: E07021



(LED) Light Emitting Diode

Art No: E07022



Circuit Board with Fuse

Art No: E07023



Parallel Circuit

Art No: E07025



Variable Resistance Circuit

Art No: E07026



Parallel & Series Circuits

Art No: E07027



Transformer 6/24 V-30 VA

Art No:E07028



Student Power Supply

Art No: POW001
DC Output: 0 ~25V contuniously adjustable; output current: 6A
AC Output: 0 ~25V continuously adjustable; output current: 6A



Student Power Supply

Art No: POW002
DC Output: 1.5V, 3V, 4.5V, 6V, 9V, 12V, 15V, 18V, 24V total 9 ranges; output current: 6A
AC Output: 6V, 9V, 12V; output current: 6A



Teaching Power Supply for Senior High School

Art No: POW003
DC output:1-25V,one gear 2V,total 12 gears;Output current: 2A
AC output:2-24V,one gear 2V,total 12 gears;Output current: 3A
Big DC current output: 40A,auto cutoff after 8S.



Student Power Supply

Art No: POW004
AC & DC 3A, 2V ~16V, 8 ranges;
DC stabilized 0.3A, 6V
Automatic protection



Student Power Supply

Art No: POW005
AC & DC 6A, 2V ~24V, 12 ranges;
DC stabilized 1A, 6V、9V、12V, 3 Ranges
Automatic protection



Student Power Supply

Art No: POW006
DC Output: 2A, 2V ~18V, 8 ranges
AC Output I: 10A, 6V
AC Output II: 2A, 2V ~18V, 8 ranges



Student Power Supply

Art No: POW007
DC Output: 1.5A, 1.5V ~12V, 6 ranges
AC Output: 2A, 2V ~12V, 6 ranges
Automatic protection



Student Power Supply

Art No: POW009
Input: 220V
Output: DC 3V,4.5V,6V,7.5V,9V,12V
With fuse.



AC/DC Power Supply

Art No: POW011
DC & AC 2-12V,total 6 grades,current 5A
Overload self protection.



Student Power Supply

Art No: POW010.01, Output Current: 4A
Art No: POW010.02, Output Current: 6A
Art No: POW010.03, Output Current: 8A
Art No: POW010.04, Output Current: 10A
Input Voltage: AC220V 50Hz
Output Voltage: AC 1V 2V 3V 4V 5V 6V 7V 8V 9V 10V 11V 12V 13V
DC 1V 2V 3V 4V 5V 6V 7V 8V 9V 10V 11V 12V 13V
Automatic overload protection



AC/DC Power Supply

Art No: POW011.02
AC/DC 0-12V,total 7 grades,max current 2A
Overload self protection



AC/DC Power Supply

Art No: POW011.03
AC/DC 0-12V,total 5 grades,max current 3A
Overload self protection



AC/DC Power Supply

Art No: POW012
AC/DC 2-16V,total 8 grades,current 3A
Overload self protection.



AC/DC Power Supply

Art No: POW013
DC & AC 2-12V,total 6 grades,current 5A
Overload self protection.



AC/DC Power Supply

Art No: POW013.02
DC & AC 2-12V,total 6 grades,current 5A
Overload self protection.



AC/DC Power Supply

Art No: POW014
AC 0-24V,total 9 grades,current 3A
DC 0-24V,otal 9 grades,current 2A
Overload self protection.



DC Power Supply

Art No:POW015.01
DC 0-6V,total 5 grades,max current 1A
Overload self protection



DC Power Supply

Art No:POW015.02
DC 0-12V,total 8 grades,max current 5A
Overload self protection



AC/DC Power Supply

Art No:POW015
AC 2-24V,LCD
Total 11 grades,current 3A,6A,12A
DC 1-25V
Total 11 grades,current 2A,4A,6A,LCD
Max current 40A(DC),
over loading self protection.



AC/DC Power Supply

Art No:POW016
AC/DC 2-12V,LCD
Total 11 grades,current 5A
overload self protection.



AC/DC Power Supply

Art No:POW016. 02
AC/DC 2-12V,total 11 grades,max current 8A
Overload self protection



AC/DC Power Supply

Art No:POW016.03
AC/DC 2-12V LCD display,total 11 grades,max current 8A
Overload self protection



AC/DC Power Supply

Art No:POW016.04
AC/DC 2-24V LCD display,total 11 grades, max current 2A
Overload self protection



Automatic Voltage Regulator

Art No:POW018
Input voltage: AC50V~130V or 160V~250V
With over current protector
With output voltage indication
Output voltage: AC220V/110V±2%
With 110V/220V input voltage selector switch
Rated power:5000W



Automatic Voltage Regulator

Art No: POW019
Input voltage: AC50V~130V or 160V~250V
With over current protector
With output voltage indication
Output voltage: AC220V/110V±2%
With 110V/220V input voltage selector switch
Rated power:1500W



Automatic Voltage Regulator

Art No:POW020
Input voltage: AC140V~250V 50Hz/60Hz
With 3sec/3min delay function
Output voltage: AC220V±8%
With 110V/220V input voltage selector switch
With low/over voltage protection
Rated power:10000W



Automatic Voltage Regulator

Art No:POW021
Input voltage: AC75V~130V or 180V~260V
With over current protector
With output voltage indication
Output voltage: AC220V/110V±4%
With 110V/220V input voltage selector switch
Rated power:5000W



Automatic Voltage Regulator

Art No: POW022
Input voltage: 160V~250V
With over current protector
With output voltage indication
Output voltage: AC220V/110V±8%
Rated power:5000W



Automatic Voltage Regulator

Art No: POW023
Input voltage: AC80V~130V or 160V~250V
With over current protector
With output voltage indication
Output voltage: AC220V/110V±8%
Rated power:5000W



Automatic Voltage Regulator

Art No: POW024
Input voltage: AC40V~120V or 140V~240V
With output voltage indication
Output voltage: AC220V/110V
Rated power: 5000W



DC Power Supply

Art No: POW025.01, Output Current: 0 ~ 1A
Art No: POW025.02, Output Current: 0 ~ 2A
Art No: POW025.03, Output Current: 0 ~ 3A
Art No: POW025.04, Output Current: 0 ~ 5A
Art No: POW025.05, Output Current: 0 ~ 10A
One channel output
Output voltage: 0 ~ 30V
2 LED digital displayers display output voltage and current each
Constant voltage and current-stabilizer are auto-changeable
Automatic overload protection



DC Power Supply

Three channels output ,two adjustable,one fixed;
Four LED indicate two channels of output voltage and current value each;
Two adjustable outbale has constant voltage and current and auto-switched;
Current-limit protection and the limit point can be adjustable optionally;
Two channels of output voltage can be in series or parallel arbitrarily, and track voltage and current (in parallel) with master power;
Overload and short circuit protection.

Art No.	POW026.01		POW026.02		POW026.03	
Specifications	Adjustable	Fixed	Adjustable	Fixed	Adjustable	Fixed
Output voltage	0~30V	5V	0~30V	5V	0~30V	5V
Output current	0~2A	2A	0~3A	3A	0~5A	5A



Programmable DC Power Supply

Art No.: POW027
- Output voltage: 0 ~ 32V
- 2 LED digital displayers display
- output voltage and current each
- Constant voltage and current-stabilizer
- are auto-changeable
- Automatic overload protection

Art No.	POW027.03	POW027.04
Output voltage	0~32V	0~32V
Output current	0~3A	0~5A
Power	115W	192W
Input	110~127V/220~240V	110~127V/220~240V



DC Power Supply

Art No.: POW028
Characteristics
- Small size,easy to carry
- Constant voltage/constant current output
- Temperature control protection
- High precision,three bit display
- The voltage/current value can be adjusted continuously in scale value
- High load carrying capacity
- Multiple protection, safe and durable
- CC/CV automatic switchover

Art No.	Output Mode	Voltage and current	Display Mode	Display Resolution
POW028.01	Single circuit	30V/3A	Three digit display	10mA/100mV
POW028.02	Single circuit	30V/5A	Three digit display	10mA/100mV
POW028.03	Single circuit	60V/3A	Three digit display	10mA/100mV
POW028.04	Single circuit	60V/5A	Three digit display	10mA/100mV



Electric Induction Coil

Art No: E08001
It produces high voltage of 100KV.



Electric Induction Coil

Art No: E08002
It produces high voltage of 100KV.



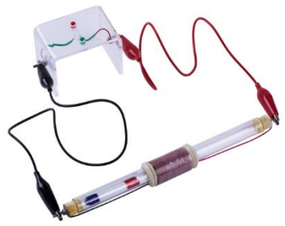
Electric Induction Coil

Art No:E08003
It produces high voltage of 100KV.



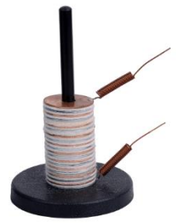
Body Conductor

Art No:E08005



Demonstrator of Electricity Generation

Art No:E08006



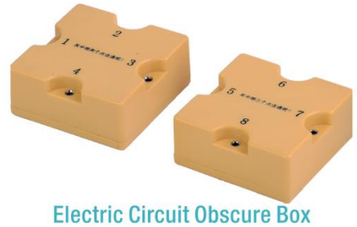
Volta Cell

Art No:E08007



Chemical Effect Experiment Demonstrator

Art No:E08008



Electric Circuit Obscure Box

Art No:E08011
Electric Circuit Obscure Box,Pk/2



Demonstrator of Metal Resistance Changing with Temperature

Art No:E08014



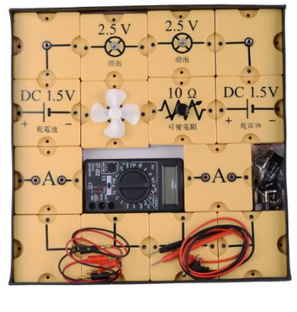
A: Black



B: Yellow

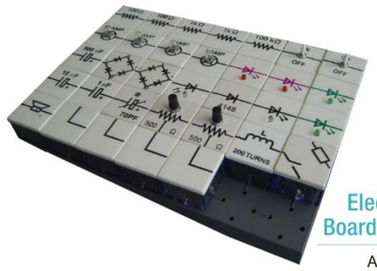
Electricity and Magnetism Kit

Art No: E08015



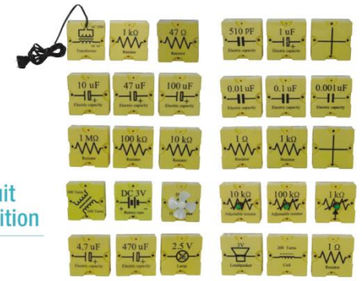
Basic Circuit Demonstrator

Art No: E08016



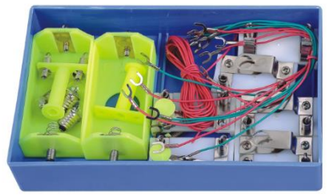
Electronic Circuit Board, Primary Edition

Art No: E08018



Transistor Characteristic survey

Art No: E08019



Electricity Kit for Primary School

Art No: E08020



Solution Conductivity Tester

Art No: E08027



High Freequency Signal Generator

Art No: E08030



Teaching Signal Generator

Art No: E08031



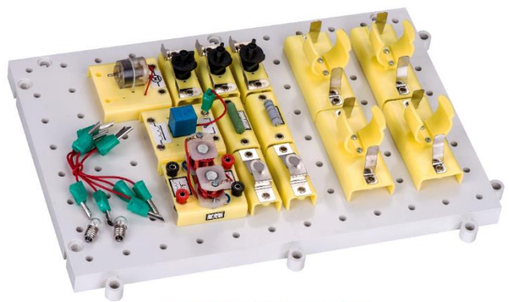
Signal Generator for Students

Art No: E08032



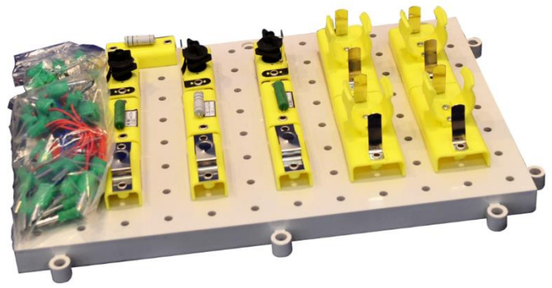
Freequency Sweeper for Teaching

Art No: E08033



Electronic Circuit Board for Students

Art No: E10002
Can make about 18 basic electronic experiments for junior school



Experiment Circuit Demonstrator

Art No: E10005
Can demonstrate about 8 basic electronic experiments for junior school

Clamp Multimeter

MLM001
3 1/2 digits LCD
Data hold and contunity check with buzzer
DC voltage: 600V
AC voltage: 450V
AC current: 20/200/400A
Resistance: 2K/200KΩ



Clamp Multimeter

MLM002
Clamp Multimeter 3 1/2 digits LCD
Data hold and Overload Protection
DC voltage: 1000V
AC voltage: 750V
AC current: 200/1000A
Resistance: 200/20KΩ
Insulation Test: 20M/2000MΩ



Clamp Multimeter

MLM003
Data hold and contunity check with buzzer
DC voltage: 1000V
AC voltage: 200V/600V
AC current: 200/600A
Resistance: 200Ω



Clamp Multimeter

MLM004

DCV:1000V	±(0.5% + 1)
ACV: 750V	±(1% + 4)
ACA: 200A-1000A	±(2% + 5)
OHM: 200-20KΩ	±(2% + 2)

Continuty Beeper: yes
Insulaton Test: yes
Data Hold: yes
Power: 9V 6F22
Maximum Display: 1999
Display Size: 14*47mm



Clamp Multimeter

MLM005
DCV： 200mV/2V/20 V/200V±0.5%
±3/600V±0.8%±3
ACV：2V/20V/200V±0.8%±3/600V±1.2%±3
DCA:200uA/2000uA/20mA±1.0%±2/200mA
±1.2%±2
ACA: 200uA/2000uA/20mA±1.8%±3/200mA
±2.0%±3/2A±2.5%±5/20A/200A±2.0%
±5/500A±2.0%±7
Ω : 200Ω /2000Ω/20KΩ/200KΩ/2MΩ±2.0%
±7/20±2.0%±7
Diode Test: Test current 0.6mA; test voltage 1.5V
Continuity Test < 50Ω Beeper
Display: 3 1/2 digit LCD 1999 count
Display hold Auto power off
Auto range Low battery indication

MLM006
With all function of MLM005, and
Temperature Test: -20℃to 400℃
(-4℉to752℉)±5%±3/+400℃
to750℃(752℉to1382℉)±2%



Digital Multimeter

MLM007
3 1/2 digits LCD
Diode test and transistor and
overload protection
DC voltage: 200m/2000m/20/200/1000V
AC voltage: 200/750V
DC current: 200u/2000u/20m/200m/10A
Resistance: 200/2K/20k/200K/2000KΩ



Digital Multimeter

MLM008
3 1/2 digits LCD
Contuntity check with buzzer
Diode test and transistor and
overload protection
DC voltage: 200m/2000m/20/200/1000V
AC voltage: 200/750V
DC current: 2000u/20m/200m/10A
Resistance: 200/2K/20K/200K/2000KΩ



Digital Multimeter

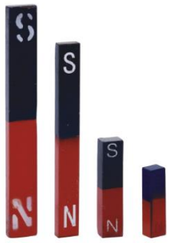
MLM009
DCV: 200mV-600V, ±(0.5%+2)
ACV: 200V-600V, ±(1.2%+10)
DCA: 2000μA-10A, ±(1%+2)
OHM: 200Ω-2MΩ, ±(0.8%+2)
hFE: yes
Diode Test: yes
Continuity Buzzer: yes
Data hold for easy reading
Maximum Display: 1999





Magnetism Kit for Primary School

Art No: EMT01011



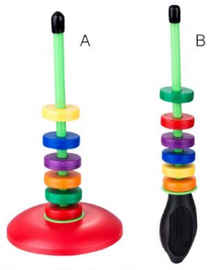
Bar Magnet in Pair

Art No: EMT02002	Material: Steel
Art No:	Size:
EMT02002.01	180x27x15mm
EMT02002.02	170x20x10mm
EMT02002.03	115x15x9mm
EMT02002.04	75x15x9mm
EMT02002.05	55x14x10mm



Magnetic Ring

Art No: EMT02004
Size: Dia 32mm



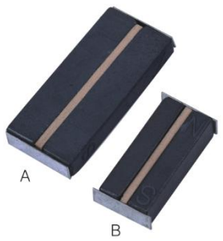
Magnetic Floating Demo

Art No: EMT02008A With Stand
Art No: EMT02008B Hand Held



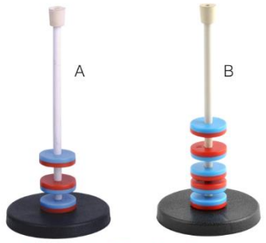
Electromagnet Kit

Art No: EMT01012



Bar Magnet in Pair

Art No: EMT02003
Material: Ferrite
A:70x10x15mm
B:50x8x12mm



Magnetic Floating Demo

Art No: EMT02005



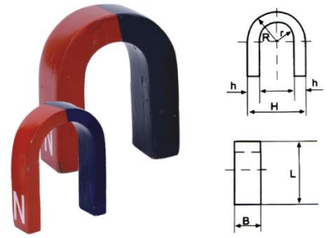
Magnetic Floating Demo

Art No: EMT02006



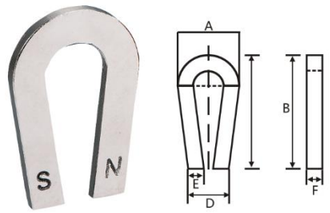
Magnetic Floating Demo

Art No: EMT02007



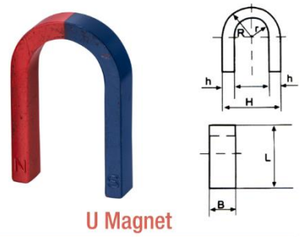
U Magnet

Art No: EMT02001	Material: Steel
Art No:	LxHxBxh
EMT02001.01	45x50x22x13mm
EMT02001.02	65x55x13.7x10.5mm
EMT02001.03	80x62x20x10mm
EMT02001.06	106x86x33.5x20mm
EMT02001.07	78x60x29x15mm
EMT02001.08	42x64x38x14mm
EMT02001.09	80x75x40x16mm
EMT02001.10	100x75x40x16mm



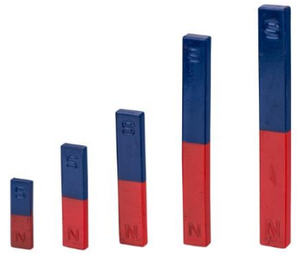
Horseshoe Magnet

Art No: EMT02009 Material: Steel
Size:74(B)x37(D)x14(E)x5(F)mm x 49mm(A)



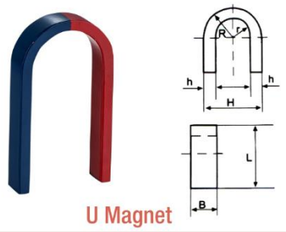
U Magnet

Art No: EMT02010	Material: Ferrite
Art No:	LxHxhxB
EMT02010.01	30×30×8×7U
EMT02010.02	42×38×8×7U
EMT02010.03	42×36×9.5×7U
EMT02010.04	48×42×11×8U
EMT02010.05	51×47×11×7U
EMT02010.06	61×52×12×9U
EMT02010.07	67×54×14×12U
EMT02010.08	70×50×12×12U
EMT02010.09	70×58×15×11U
EMT02010.10	80×62×10×20U
EMT02010.11	84×80×15×22U
EMT02010.12	95×63×10×17U
EMT02010.13	106×86×20×30U



Bar Magnet

Art No: EMT02011	Material: Ferrite
Art No:	Size:
EMT02011.01	30×8.5×7
EMT02011.02	36×9×6
EMT02011.03	37×15.5×5
EMT02011.04	40×9×5
EMT02011.05	40×9×9
EMT02011.06	50×9×9
EMT02011.07	50×16×4
EMT02011.08	50×14×10
EMT02011.09	50×9×9
EMT02011.10	57×18×10
EMT02011.11	58×8×6
EMT02011.12	60×15×9
EMT02011.13	60×15×4.5
EMT02011.14	60×20×10
EMT02011.15	70×15×7
EMT02011.16	70×15×9.5
EMT02011.17	75×13×6.6
EMT02011.18	75×18×6.5
EMT02011.19	75×13×6.6
EMT02011.20	100×20×5
EMT02011.21	100×20×6.5
EMT02011.22	100×20×7
EMT02011.23	110×22×10
EMT02011.24	120×22×10
EMT02011.25	150×18×7
EMT02011.26	150×18×9
EMT02011.27	150×25×15
EMT02011.28	170×20×10



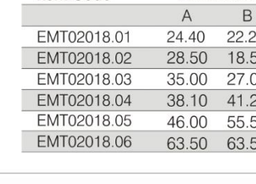
U Magnet

Art No: EMT02012	Material: Alnico
Art No:	LxHxBxh
EMT02012.01	45x50x22x13
EMT02012.02	65x55x13.7x10.5
EMT02012.03	80x62x20x10
EMT02012.04	78x60x29x15
EMT02012.05	62x70x51x20
EMT02012.07	80x75x40x16
EMT02012.08	106x86x33.5x20
EMT02012.09	95x62x20x10
EMT02012.10	95x62x17x10



Bar Magnet

Art No: EMT02013	Material: Alnico
Art No:	Size:
EMT02013.01	55x14x10
EMT02013.02	75x15x10
EMT02013.03	115x15x9
EMT02013.04	170x20x10
EMT02013.05	180x27x15



Cow Bar

Art No: EMT02016
Size: Dia 20 x 77mm





Horseshoe Magnet

Art No: EMT02018	Material: Alnico							
Item Code	Dimensions (mm)							Painted
	A	B	C	E	D	R1	R2	
EMT02018.01	24.40	22.23	7.62	7.94	9.54	14.29	4.75	Red
EMT02018.02	28.50	18.50	6.35	4.00	11.00	14.00	6.00	Red
EMT02018.03	35.00	27.00	15.88	9.53	9.53	16.67	7.14	Red
EMT02018.04	38.10	41.28	14.27	15.88	19.05	23.00	6.35	Red
EMT02018.05	46.00	55.56	23.81	12.70	27.00	57.15	30.15	Red
EMT02018.06	63.50	63.50	19.05	19.05	25.53	38.10	15.87	Red



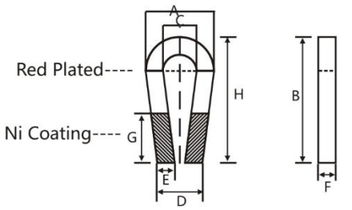
Powerful Horseshoe Magnet

Art No: EMT02014
Colors available: Red, Blue and Yellow



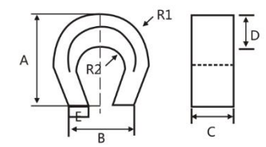
Magnet Wand

Art No: EMT02015
It comes with 12 magnetic marbles



Horseshoe Magnet

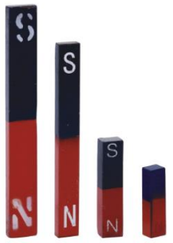
Art No: EMT02017	Material: Alnico						
Item Code	Dimensions (mm)						
	A	B	C	D	E	F	G
EMT02017.01	40	76	21	26	7.4	6.3	28
EMT02017.02	40	75	20	25.3	10	5	29
EMT02017.03	50	100	26	31.5	12	6	39
EMT02017.04	60	125	32	38.5	15	6	49





Magnetism Kit for Primary School

Art No: EMT01011



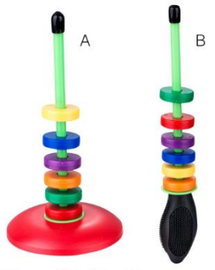
Bar Magnet in Pair

Art No: EMT02002	Material: Steel
Art No:	Size:
EMT02002.01	180x27x15mm
EMT02002.02	170x20x10mm
EMT02002.03	115x15x9mm
EMT02002.04	75x15x9mm
EMT02002.05	55x14x10mm



Magnetic Ring

Art No: EMT02004
Size: Dia 32mm



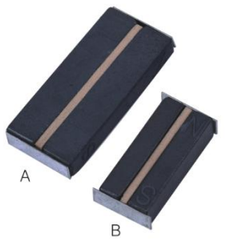
Magnetic Floating Demo

Art No: EMT02008A With Stand
Art No: EMT02008B Hand Held



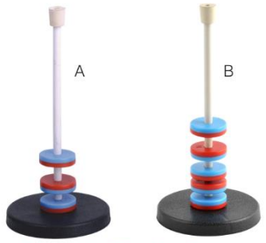
Electromagnet Kit

Art No: EMT01012



Bar Magnet in Pair

Art No: EMT02003
Material: Ferrite
A:70x10x15mm
B:50x8x12mm



Magnetic Floating Demo

Art No: EMT02005



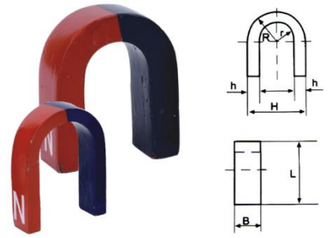
Magnetic Floating Demo

Art No: EMT02006



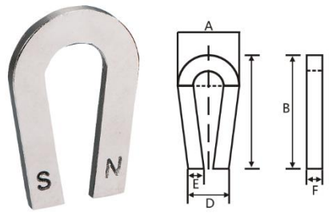
Magnetic Floating Demo

Art No: EMT02007



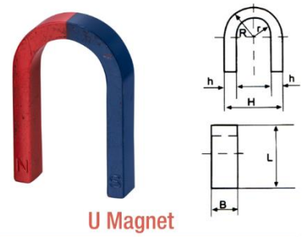
U Magnet

Art No: EMT02001	Material: Steel
Art No:	LxHxBxh
EMT02001.01	45x50x22x13mm
EMT02001.02	65x55x13.7x10.5mm
EMT02001.03	80x62x20x10mm
EMT02001.06	106x86x33.5x20mm
EMT02001.07	78x60x29x15mm
EMT02001.08	42x64x38x14mm
EMT02001.09	80x75x40x16mm
EMT02001.10	100x75x40x16mm



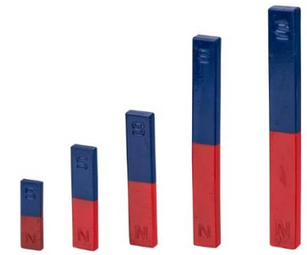
Horseshoe Magnet

Art No: EMT02009 Material: Steel
Size:74(B)x37(D)x14(E)x5(F)mm x 49mm(A)



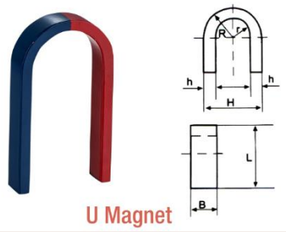
U Magnet

Art No: EMT02010	Material: Ferrite
Art No:	LxHxhxB
EMT02010.01	30×30×8×7U
EMT02010.02	42×38×8×7U
EMT02010.03	42×36×9.5×7U
EMT02010.04	48×42×11×8U
EMT02010.05	51×47×11×7U
EMT02010.06	61×52×12×9U
EMT02010.07	67×54×14×12U
EMT02010.08	70×50×12×12U
EMT02010.09	70×58×15×11U
EMT02010.10	80×62×10×20U
EMT02010.11	84×80×15×22U
EMT02010.12	95×63×10×17U
EMT02010.13	106×86×20×30U



Bar Magnet

Art No: EMT02011	Material: Ferrite
Art No:	Size:
EMT02011.01	30×8.5×7
EMT02011.02	36×9×6
EMT02011.03	37×15.5×5
EMT02011.04	40×9×5
EMT02011.05	40×9×9
EMT02011.06	50×9×9
EMT02011.07	50×16×4
EMT02011.08	50×14×10
EMT02011.09	50×9×9
EMT02011.10	57×18×10
EMT02011.11	58×8×6
EMT02011.12	60×15×9
EMT02011.13	60×15×4.5
EMT02011.14	60×20×10
EMT02011.15	70×15×7
EMT02011.16	70×15×9.5
EMT02011.17	75×13×6.6
EMT02011.18	75×18×6.5
EMT02011.19	75×13×6.6
EMT02011.20	100×20×5
EMT02011.21	100×20×6.5
EMT02011.22	100×20×7
EMT02011.23	110×22×10
EMT02011.24	120×22×10
EMT02011.25	150×18×7
EMT02011.26	150×18×9
EMT02011.27	150×25×15
EMT02011.28	170×20×10



U Magnet

Art No: EMT02012	Material: Alnico
Art No:	LxHxBxh
EMT02012.01	45x50x22x13
EMT02012.02	65x55x13.7x10.5
EMT02012.03	80x62x20x10
EMT02012.04	78x60x29x15
EMT02012.05	62x70x51x20
EMT02012.07	80x75x40x16
EMT02012.08	106x86x33.5x20
EMT02012.09	95x62x20x10
EMT02012.10	95x62x17x10



Bar Magnet

Art No: EMT02013	Material: Alnico
Art No:	Size:
EMT02013.01	55x14x10
EMT02013.02	75x15x10
EMT02013.03	115x15x9
EMT02013.04	170x20x10
EMT02013.05	180x27x15



Cow Bar

Art No: EMT02016
Size: Dia 20 x 77mm







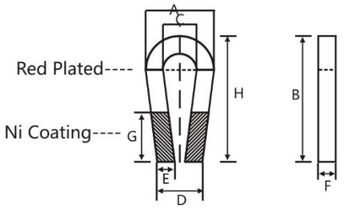
Powerful Horseshoe Magnet

Art No: EMT02014
Colors available: Red, Blue and Yellow



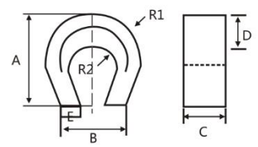
Magnet Wand

Art No: EMT02015
It comes with 12 magnetic marbles



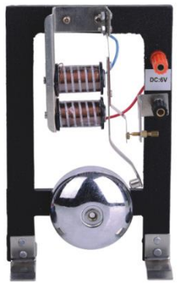
Horseshoe Magnet

Art No: EMT02017	Material: Alnico						
Item Code	Dimensions (mm)						
	A	B	C	D	E	F	G
EMT02017.01	40	76	21	26	7.4	6.3	28
EMT02017.02	40	75	20	25.3	10	5	29
EMT02017.03	50	100	26	31.5	12	6	39
EMT02017.04	60	125	32	38.5	15	6	49



Horseshoe Magnet

Art No: EMT02018	Material: Alnico							
Item Code	Dimensions (mm)							Painted
	A	B	C	E	D	R 1	R 2	
EMT02018.01	24.40	22.23	7.62	7.94	9.54	14.29	4.75	Red
EMT02018.02	28.50	18.50	6.35	4.00	11.00	14.00	6.00	Red
EMT02018.03	35.00	27.00	15.88	9.53	9.53	16.67	7.14	Red
EMT02018.04	38.10	41.28	14.27	15.88	19.05	23.00	6.35	Red
EMT02018.05	46.00	55.56	23.81	12.70	27.00	57.15	30.15	Red
EMT02018.06	63.50	63.50	19.05	19.05	25.53	38.10	15.87	Red



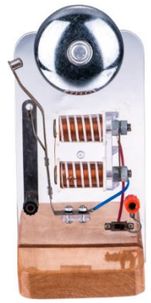
Electric Bell

Art No: EMT03001



Electric Bell

Art No: EMT03002



Electric Bell

Art No: EMT03003



Electric Bell

Art No: EMT03004



Electric Bell

Art No: EMT03005



Primary & Secondary Coil, Demonstrational, 17cm High

Art No: EMT04008



Primary & Secondary Coil, 12cm High

Art No: EMT04009



Primary & Secondary Coil,9cm High

Art No: EMT04010



U Type Electromagnet

Art No: EMT04011
To demonstrate the basic construction & working principle of the horse shoe eletromagnet.



Electromagnet Apparatus

Art No: EMT04012
Comprised of U-shaped iron core and movable hook. It demonstrates the working principle of electromagnet. Votage<6V, current<1A, Electromagnetic force >49N.



U Type Electromagnet

Art No: EMT04013
To demonstrate the basic construction & working principle of the horse shoe eletromagnet.
Best Quality



Transparent Electromagnet

Art No: EMT04015
Battery Operated with LED



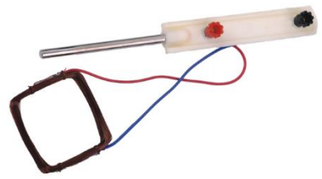
Electromagnetic Relay

Art No: EMT04016



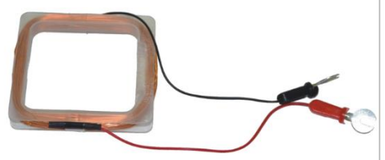
Solenoid

Art No: EMT04017
Size: 110x40x33mm



Square Coils

Art No: EMT04001.01



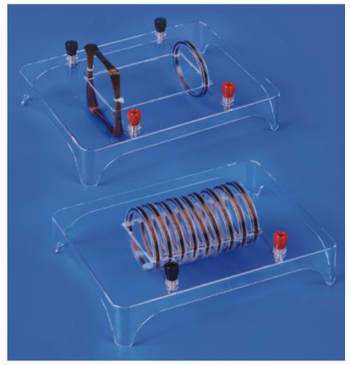
Square Coils

Art No: EMT04001.02



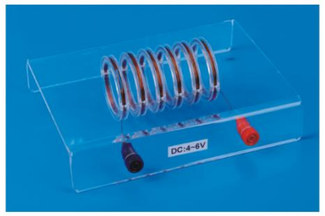
Demonstrator of Left and Right Hand Rules

Art No: EMT04002



Demonstrator of, Current Magnetic Field, Set of 2

Art No: EMT04004.01



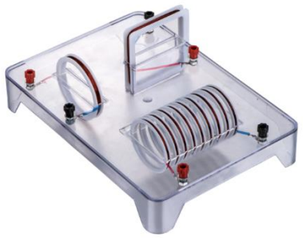
Demonstrator of Current Magnetic Field

Art No: EMT04005
To demonstrate the magnetic field provided by DC current passing through the straight Conducting wire.
The ring conducting wire or the solenoid.



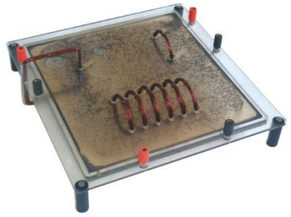
Tomson's Coil Demonstrator

Art No: EMT04003



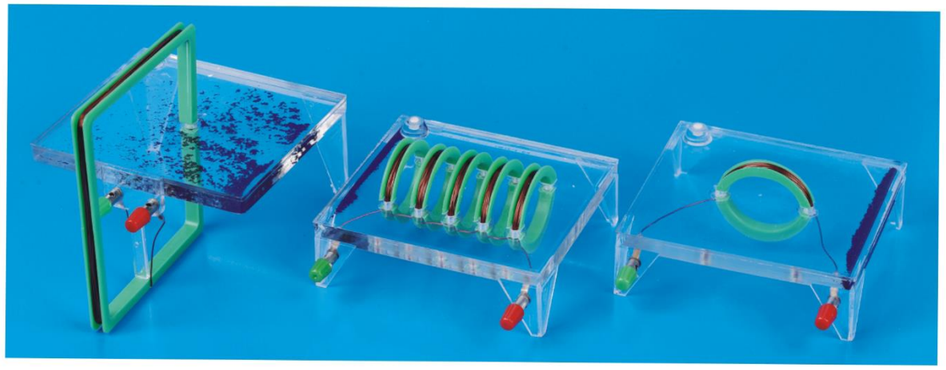
Demonstrator of Current Magnetic Field 2 in 1

Art No: EMT04004.02



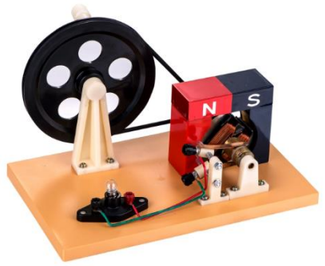
Current Magnetic Effect Demonstrator

Art No: EMT04006



Demonstrator of Current Magnetic Field,Set of 3

Art No: EMT04007, Good Quality



Hand-operated AC/DC Generator

Art No: EMT05001



Hand-operated AC/DC Generator

Art No: EMT05002
To feel the touch by current



Hand-operated AC/DC Generator

Art No: EMT05003



Hand-operated AC/DC Generator

Art No: EMT05004



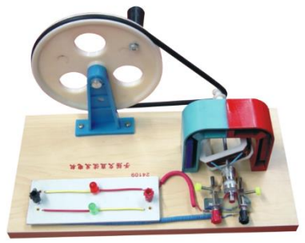
Hand-operated AC/DC Generator

Art No: EMT05005



Hand-operated AC/DC Generator

Art No: EMT05006
With DC milliammeter & voltmeter.
and AC milliammeter & voltmeter.



Economic Hand Operated AC/DC Generator

Art No: EMT05007



Generator Model

Art No: EMT05008
For demonstrating the experiment of ampere force, the working principle of DC dynamo, right-hand rule, working principle of AC and DC generators.



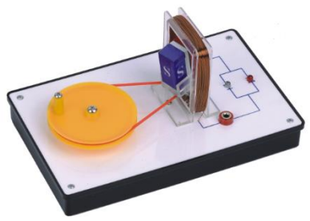
Power Generation by Rotating Coil

Art No: EMT05009



Power Generation by Rotating Coil

Art No: EMT05010.01



Power Generation by Magnetic Field Turning

Art No: EMT05010.02



Dynamo Generator

Art No:EMT05011.01



Friction Generator

Art No: EMT05011.02



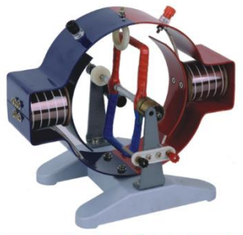
Hand Held Generator

Art No: EMT05012.02



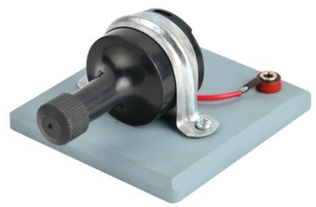
One-Handed Generator

Art No: EMT05013.02



Demonstration DC Motor,Big

Art No: EMT05017
Designed for demonstrating the following experiments:
Principle of operating of DC generator.
The connection method of wires and shunt excitation of DC motor.
The relation between current and rotating speed.



Friction Generator

Art No: EMT05011.03



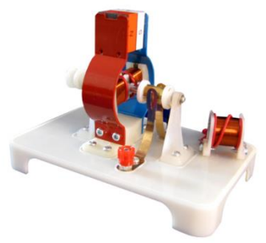
Hand Held Generator

Art No: EMT05012.03



Mini Motor Model

Art No: EMT05014



Mini Motor Model

Art No: EMT05018



Hand Held Generator

Art No: EMT05012.01



One-Handed Generator

Art No: EMT05013.01



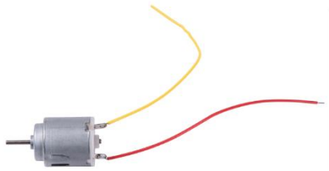
3-Phase Induction Motor Model

Art No: EMT05016



Demonstrational 3-Phase Generator

Art No: EMT05019
It's used for the explanation of the characteristics of rotary magnetic field and the working principle of 3-phase inductive generator.



Mini DC Motor With Leads

Art No: EMT05020
Voltage: 1.5V or 3V
Speed: 7000-11000ppm



Transformer Modular

Art No: EMT05024.01
Max Current: 1.5A
Quantity of Brass Coil: 200
Art No: EMT05024.02
Max Current: 6A
Quantity of Brass Coil: 50



Lentz's Law Demo

Art No: EMT06001
To demonstrate the direction of induced current always resists the variation of the original magnetic field against its own.



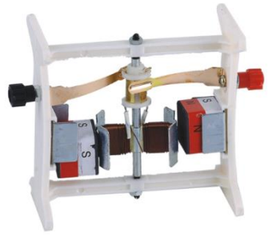
Right and Left Hand Rule Demonstrator

Art No: EMT06002.04



Mini DC Motor

Art No: EMT05021
Voltage: 1.5V or 3V
Speed: 7000-11000ppm



Mini DC Motor

Art No: EMT05022
For demonstrating the construction and working principle of electric motor, also to serve as a model to study the electromagnetic forces, with the working voltage of 3-6V.



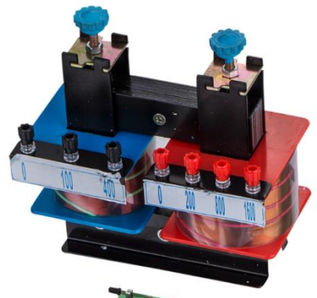
Right and Left Hand Rule Demonstrator

Art No: EMT06002.02



Electric Current Balance

Art No: EMT06003.01



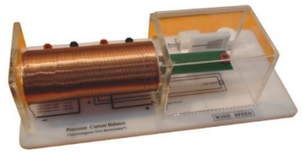
Dismountable Transformer

Art No: EMT05023
To demonstrate the relationship between current, voltage and turns of coil,and also for experiments on the self-inductance ,the eddy current and the jumping of copper ring and induction lamp,etc.



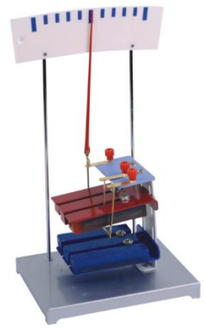
Right and Left Hand Rule Demonstrator

Art No: EMT06002.03



Precsion Current Balance

Art No: EMT06003.02



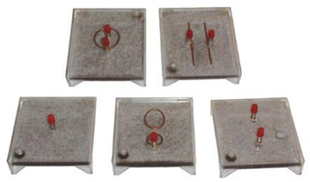
Ampere Force Demonstrator

Art No: EMT06004



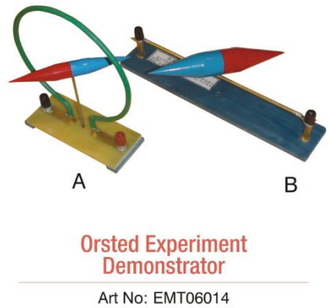
Oersted's Law Apparatus

Art No: EMT06008



Electric Field Line Demonstrator,Set of 5

Art No: EMT06011



Orsted Experiment Demonstrator

Art No: EMT06014



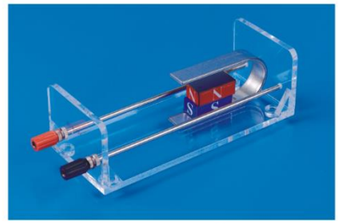
Ampere Force Demonstrator, 2 in 1

Art No: EMT06006



Current Magnetic Effect Demonstrator

Art No: EMT06009



Demonstrator of Current Magnetic Field

Art No: EMT06012



Ampere Force Demonstrator

Art No: EMT06007



Tangent Galvanometer

Art No: EMT06010



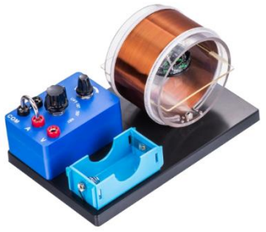
Metal Detector

Art No: EMT06013



Barlow's Wheel

Art No: EMT06016
How can an electrically charged brass wheel spin without the aid of a motor? The secret lies in eddy currents. When electrified, this slotted brass disc sets up eddy currents throughout the structure. These "pockets" of electricity are attracted to 4 strong neodymium magnets, causing the wheel to spin.



Air Core Solenoid

Art No: EMT06017



Air Core Solenoid

Art No: EMT06018



Transmission and Reception of Electromagnetic Wave

Art No: EMT07003



Transmission and Reception of Electromagnetic Wave

Art No: EMT07004



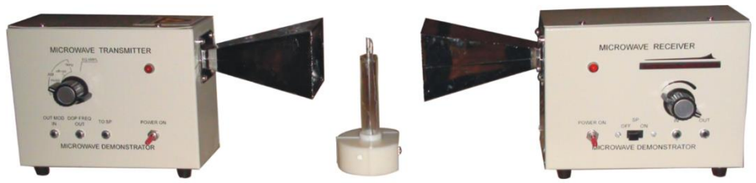
Demonstration of Telephone Principle

Art No: EMT07005
To demonstrate how the telephone communication works.



Electromagnetic Oscillation Demonstrator

Art No: EMT07006



Demonstrator of Interference, Diffraction and Polarization of Electromagnetic Waves

Art No: EMT07007



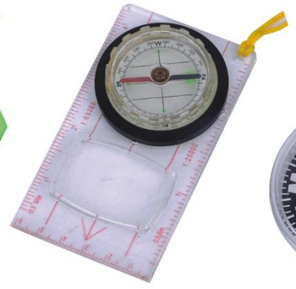
Gaussian Gun

Art No: EMT07008

A funny and intriguing demonstration of Newtonian physics.When you align powerful neodymium magnets on a linear rail and arrange steel balls in a sequence properly,a slow moving steel ball will be accelerated to 5-10 times its original speed by the pull of magnets and Newton's Third Law of Motion.



Art No: CPS001,
55mm Dia.



Art No: CPS002,
45mm Dia.



Art No: CPS004,
45mm Dia.



Art No: CPS005,
34mm Dia.



Art No: CPS006,
40mm Dia.



Art No: CPS007,
45mm Dia.



Art No: CPS008,
40mm Dia.



Art No: CPS009,
40mm Dia.



Art No: CPS010,
18x18mm



Art No: CPS011,
18mm Dia.



Art No: CPS012
40mm Dia.



Art No: CPS013
70mm Dia.



Art No: CPS014
77mm Dia, Aluminum



Art No: CPS015
45mm Dia



Art No: CPS016
45mm Dia



Art No: CPS017
36mm Dia



Art No: CPS019
47mm Dia



Art No: CPS020
45mm Dia



Art No: CPS021
45mm Dia



Art No: CPS022
45mm Dia



Art No: CPS023
45mm Dia



Art No: CPS026
45mm Dia



Art No: CPS027
45mm Dia



Art No: CPS028
45mm Dia, Metal



Art No: CPS029
45mm Dia



Art No: CPS030
44mm Dia



Art No: CPS031
44mm Dia



Art No: CPS032
20mm Dia



Art No: CPS033
16mm Dia



Art No: CPS034
40mm Dia



Art No: CPS035
45mm Dia



Art No: CPS036
45mm Dia



Art No: CPS037
45mm Dia



Art No: CPS038
44mm Dia



Art No: CPS039
44mm Dia



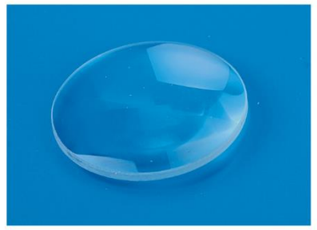
Art No: CPS040
45mm Dia



Art No: CPS041
46mm Dia



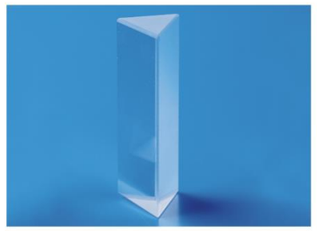
Art No: CPS042
46mm Dia



Biconvex Glass Lens

Art No:

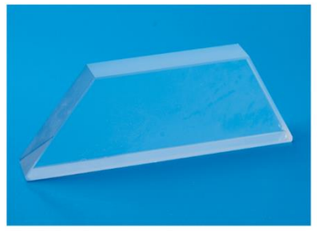
L01001.01, Diameter 38mm, Focus: 50~500mm
L01001.02, Diameter 50mm, Focus: 60 ~500mm
L01001.03, Diameter 75mm, Focus: 100 ~500mm



Equilateral Prisms, Glass

Art No:

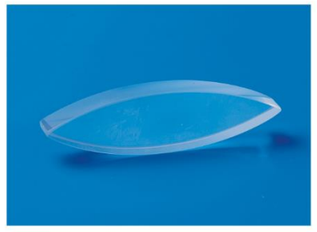
L01004.01, Side: 25mm, Height: 25~100mm
L01004.02, Side: 30mm, Height: 25~100mm



Trapezoid Prism

Art No: L01007

Sizes: 90mm long, 35mm high and 15mm thick
One angle 45°, another 60°



Double Convex Lens

Art No:

L01010.01, 15mm thick, 60mm long, focus: 100~500mm
L01010.02, 15mm thick, 80mm long, focus: 100~500mm
L01010.03, 15mm thick, 95mm long, focus: 150~500mm



Bi-concave Glass Lens

Art No:

L01002.01, Diameter 38mm, Focus: 50~500mm
L01002.02, Diameter 50mm, Focus: 60~500mm
L01002.03, Diameter 75mm, Focus: 100 ~500mm



Rectangular Block, 2 Sides Frosted

Art No:

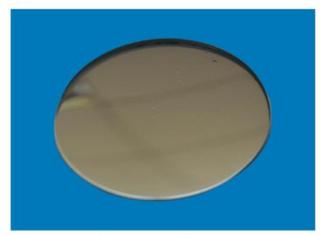
L01005.01, Size: 114x63x19mm
L01005.02, Size: 60x40x15mm
L01005.03, Size: 80x40x15mm



Semi-Circular Lens

Art No:

L01008.01, 15mm thick, diameter 50mm
L01008.02, 15mm thick, diameter 60mm
L01008.03, 15mm thick, diameter 70mm
L01008.04, 15mm thick, diameter 80mm
L01008.05, 15mm thick, diameter 90mm
L01008.06, 15mm thick, diameter 100mm



Concave Mirror

Art No:

L01012.01, Diameter 38mm, Focus upon request
L01012.02, Diameter 50mm, Focus upon request
L01012.03, Diameter 75mm, Focus upon request



Right Angle Prisms, Glass

Art No:

L01003.01, Side: 25mm, Height: 40~100mm
L01003.02, Side: 30mm, Height: 40~100mm
L01003.03, Side: 50mm, Height: 40~100mm



Rectangular Block, All Sides Polished

Art No:

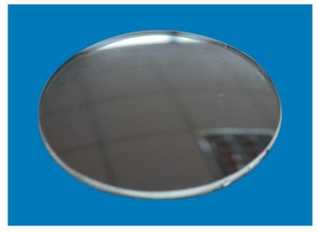
L01006.01, Size: 115x65x20mm
L01006.02, Size: 60x40x15mm
L01006.03, Size: 80x40x15mm



Equilateral Refraction Prism

Art No:

L01009.01, 15mm thick, side: 50mm
L01009.02, 15mm thick, side: 60mm
L01009.03, 15mm thick, side: 70mm
L01009.04, 15mm thick, side: 80mm



Convex Mirror

Art No:

L01013. 01, Diameter 38mm, Focus upon request
L01013. 02, Diameter 50mm, Focus upon request
L01013. 03, Diameter 75mm, Focus upon request



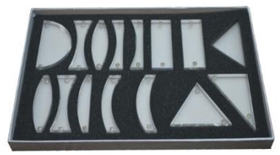
Set of 7 Prisms, Glass

Art No: L01011



Set of 8 Prisms, Acrylic

Art No: L01014.01



Set of 15 Prisms, Acrylic

Art No: L01014.02



Concave Mirror

Art No L01015
Dia 100mm, F65mm



Convex Mirror

Art No: L01016
Dia 100mm, F65mm



Concave Lens

Art No: L01017
Concave Lens with Stand,
Dia 50mm



Convex Lens

Art No: L01018
Convex Lens with Stand,
Dia 50mm



Concave Mirror

Art No: L01019
Concave Mirror with Stand,
Dia 50mm



Convex Mirror

Art No: L01020
Convex Mirror with Stand,
Dia 50mm



Prism with Stand

Art No: L01021.01
Size: 30x100mm
Art No: L01021.02
Size: 25x80mm



Prism with Stand

Art No: L01022
Size: 25xx38mm



Concave Mirror

Art No: L01023
Lens diameter 75mm



Convex Mirror

Art No: L01024
Lens diameter 75mm



Binocular

Art No: L01025.01 7x35
Art No: L01025.02 8x40



Double Plastic Magnifier

Art No: MAG001
3x, 6x, 50mm Dia



Triple Plastic Magnifier

Art No: MAG002
2x, 6x and 8x



Clear Plastic Magnifier

Art No: MAG003
3x, 6x, 40mm Dia



Clear Plastic Magnifier

Art No: MAG004 3x35mm



Clear Plastic Magnifier

Art No: MAG006
3x65mm



Pen Type Plastic Magnifier

Art No: MAG007
5x50mm



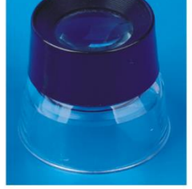
Metal Magnifier with Plastic Handle

MAG009, Metal Magnifier with Plastic Handle 7x50mm
MAG010, Metal Magnifier with Plastic Handle 6x65mm
MAG011, Metal Magnifier with Plastic Handle 4x75mm
MAG012, Metal Magnifier with Plastic Handle 3x90mm
MAG013, Metal Magnifier with Plastic Handle 2.5x100mm



Plastic Magnifier

Art No: MAG008
3x65mm



Cylinder Magnifier 10X

Art No: MAG014.01



MAG014.02
6x



MAG014.03
10x



MAG014.04
15x

Cylinder Magnifier



Jewellery Magnifier

Art No: MAG020
10x18mm



Jewellery Magnifier

Art No: MAG021
10x18mm



Jewellery Magnifier

Art No: MAG022
10x18mm



Jewellery Magnifier

Art No: MAG023
20x21mm



Jewellery Magnifier

Art No: MAG024
20x18mm



Jewellery Magnifier

Art No: MAG025
30x21mm



Pocket Microscope

Art No: L02002
Pocket Microscope 60X



Pocket Microscope

Art No: L02005
Pocket Microscope 60X-100X
Illuminated, 1 LED light



Pocket Microscope

Art No: L02008
Pocket Microscope 30X



Pen Type Microscope

Art No: L02011
Pen Type Microscope 25X



Bug Viewer

Art No: L03001
2.5X



Pocket Microscope

Art No: L02003
Pocket Microscope 45X



Pocket Microscope

Art No: L02006
Pocket Microscope 20X -40X
Illuminated,1 LED light



Pocket Microscope

Art No: L02009
Pocket Microscope 30X
Illuminated, 1 Bulb



Pocket Microscope

Art No: L02012
Pocket Microscope 40X
Illuminated,2 LED 5mm Dia



Bug Viewer

Art No: L03002
3X, 6X



Pocket Microscope

Art No: L02004
Pocket Microscope 30X
Illuminated, 1 LED light



Pocket Microscope

Art No: L02007
Pocket Microscope 40X
Illuminated,1 LED light



Pocket Microscope

Art No: L02010
Pocket Microscope 60X 100X
Illuminated,1 Bulb



Pocket Microscope

Art No: L02013
Pocket Microscope 80X
Illuminated, 2 LED 5mm Dia



Bug Viewer

Art No: L03003



He-Ne Laser Source

Art No: L04001



Laser Light Source

Art No:L04004
With 1 Linear or Point Light



Laser Source

Art No: L04002.01 Green
Art No: L04002.02 Red



Laser Optics Demonstrator

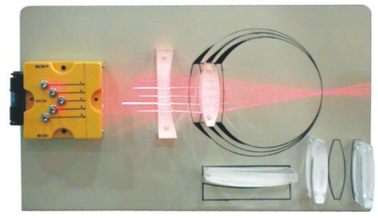
Art No: L04006
Can make experiments as follows:

1.Single slit diffraction
2.Circular hole diffraction
3.Rectangular hole diffraction
4.Square hole diffraction
5.Triangular hole diffraction
6.Double slit interference
7.Triple slit diffraction
8.Quadruple slit diffraction
9.Monofilament diffraction
10.Round screen diffraction
11.Edge diffraction



Laser Light Source

Art No:L04003
With 5 Linear or Point Lights



Near and Far Sighted Demonstrator

Art No: L04007.01



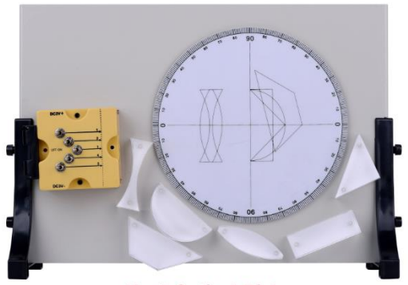
Whiteboard Optics Set

Art No: L04008
A comprehensive and economical set of equipment for ray optics and color experiments using magnetic-backedcomponents that can be used on the included whiteboard or any installed steel whiteboard.
The whiteboard has a usable surface of 23" x15.5" and has swiveling feet on two sides so that it can be set up in wide or tall format. The double-ended light box contains a 12V/20W halogen lamp powered by a wall-mount AC adapter and cooled by a built-in fan.
One end carries a cylindrical lens and slots for mouning the three slit diaphragms for ray optics.
The other end carries two adjustable mirrors and an open area for color mixing work using colored filters that fit into slots in the ray box.



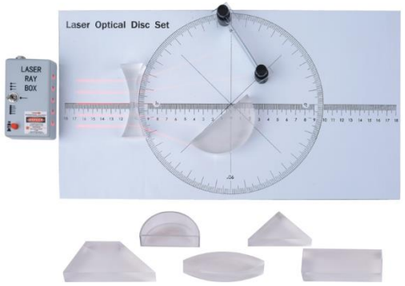
Eye Model

Art No: L04007.02
With magnetic-backed lens and light source



Hartl Optical Disk

Art No: L04009
To demonstrate laws of reflection and refraction in optics.

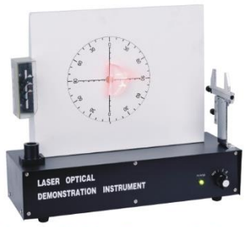


Laser Optical Disk Set

Art No:L04011

This is an excellent and economical set for introductory ray optics. The laser ray box projects one, three, or five parallel bright beams and is equipped with a momentary switch for safety. A vinyl template with a degree circle and a linear scale forms the optical disk, and the set includes seven clear acrylic optical elements and a mirror with adjustable curvature for investigating refraction, lenses, prisms, and mirrors. The bottoms of the acrylic elements are frosted to show the ray paths inside them. The set also includes an aluminun storage case.

Please note: This product emits laser light. Max. output power<1m W per beam. Wavelength 650nm. Class IIIa laser product.



Laser Optics Demonstrator

Art No: L04012.01
For middle school



Deluxe Laser Optics Demonstrator

Art No: L04012.03
For senior school and university

The laser optics demonstrator is a kind of modern educational instrument. It takes He-Ne laser as its light source. After passing through a cylindrical lens, the light beam diverges into sector shape and shows its track on the screen. Many kinds of geometric-optics and physical-optics experiments can be accomplished by this instrument with clear images and vivid intuitive effects and do not demand darkroom facilities.

Specifications

	L04012.01	L04012.03
Light source	He-Ne laser	He-Ne laser
Wave length	632.8nm	632.8nm
Output power	≥2.5mw	≥3mw
Amount of reflector	3 pieces	5 pieces
Apparatus shell	Handsome Made by iron sheet	Fashionable Made by Al plate



Reflection & Refraction Tank

Art No: L04013



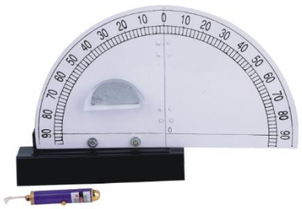
Deluxe Reflection & Refraction Tank

Art No: L04015



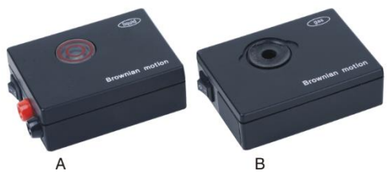
Reflection $ Refraction Tank

Art No: L04015.02



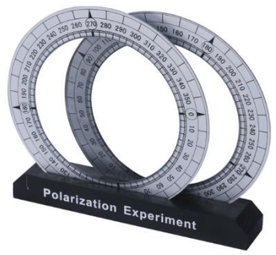
Reflection & Refraction Demonstrator

Art No: L04016



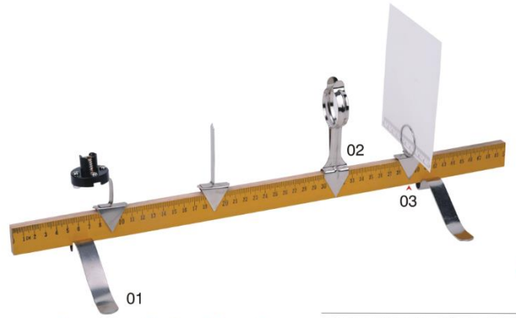
Brownian Motion

Art No: L04014A
Brownian Motion,Liquid
Art No: L04014B
Brownian Motion,Gas



Polarization Experiment

Art No: L04017



Economy Optical Bench

Art No: L05001
Meter not included

L05001.01, Metal Stand in Pair
L05001.02, Lens Clip
L05001.03, Screen Clip



Double Track Optical Bench

Art No: L05002



Light Source for Optical Bench

Art No: L05002-B
With covers of 1 slit and 5 slits



Single Track Optical Bench

Art No: L05003



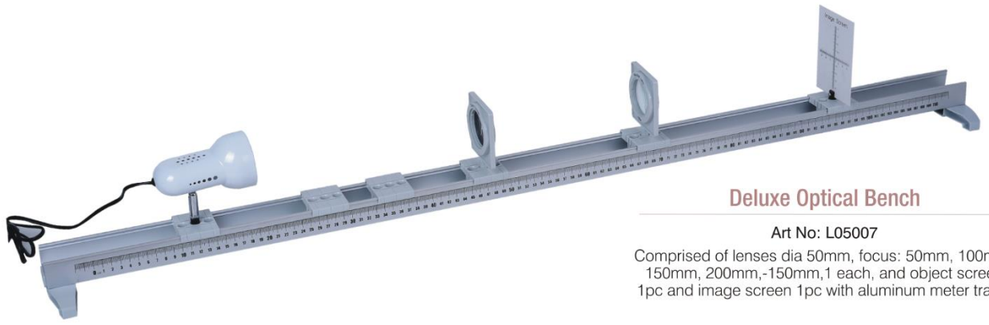
Optical Bench with LED Light Source

Art No: L05004



Single Track Optical Bench

Art No: L05006



Deluxe Optical Bench

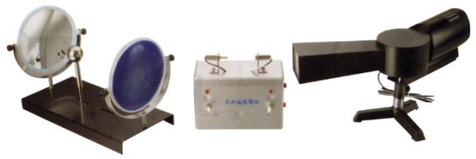
Art No: L05007

Comprised of lenses dia 50mm, focus: 50mm, 100mm, 150mm, 200mm,-150mm,1 each, and object screen 1pc and image screen 1pc with aluminum meter track.



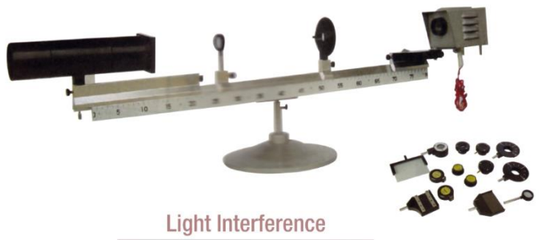
Double-Slit Interference Demonstration

Art No:L05009



Effect of Infra Red Light Demonstration

Art No: L05011



Light Interference

Art No: L05010
Light Interference, Diffraction and Polarization



Diffraction Grating

Art No: L05012
Art No.: L05012.01 100 Lines/mm, size: 50x50mm
Art No.: L05012.02 300 Lines/mm, size: 50x50mm
Art No.: L05012.03 600 Lines/mm, size: 50x50mm
Art No.: L05012.04 3 in 1, size: 90x30mm



Diffraction Grating

Art No: L05013
Diffraction Grating, Set of 5



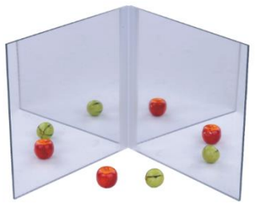
The Mirage, Small

Art No: L06001
Diameter 16cm



The Mirage

Art No: L06002
The Mirage,Big, Diameter 22.5cm



Imaging of 2 Plane Mirrors

Art No: L06003



Camera Model

Art No: L06004



Periscope

Art No: L06005

Basic Spectroscope

Art No: L06006
Size:Diameter 21x97 mm





Color Mixing Apparatus

Art No:L06009

A compact and economical Color Mixing Apparatus. This updated version of the classic three color light projector uses three low voltage, high power LEDs to project easily-seen red, green, and blud light onto a white screen. The projector mounting allows the beam angles to be adjusted to vary the overlap of the three colored images, The intensity of each LED can be adjusted separately by a potentiometer to give a convincing white light or various shades of mixed colors. Colored shadows can also be explored in a darkened room. The set includes a wall mount power supply.



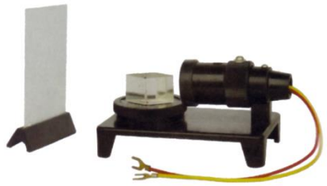
Color Mixing Apparatus

Art No:L06010.01



Color Mixing Apparatus

Art No: L06010.02



Decomposition and Synthetic of White Light

Art No:L06012



Newton Color Disk

Art No:L06013



Newton Color Disk

Art No: L06014
Solar cell operated



Newton Color Disk

Art No:L06015
Disk Diameter 23cm



Newton Color Disk

Art No: L06016
Disk diameter 20cm, hand operated



Newton Color Disk

Art No: L06017
Disk diameter 20cm, electricity operated



Secchi Disk

Art No:L06018



Economical Spectrometer

Art No:L07001



Intermediate Spectrometer with 22mm Optics

Art No: L07002
Intermediate Spectrometer,22mm Aperture



Intermediate Spectrometer with 30mm Optics

Art No: L07003
Intermediate Spectrometer,30mm Aperture



Planck's Constant Apparatus

Art No: L08001
Planck's Constant Apparatus
This instrument can carry on the experiment about the rule of photoelectric effect, and calculate Planck's constant according to Einstein's equation of photoelectric effect.
Satisfying the students' grouping experiments, the instrument has features such as compact structure, fastness, convenient operating, steady performance, cheap and convenient service etc.
The anode of phototube is not shined directly, so the reverse current is small .

Specifications

- Color filter: 635nm, 570nm, 540nm, 500nm, 460nm
- Sensitive component: vacuum phototube
- Dark-current: ⩽0.003uA
- Light source: 12V/35W halogen tungsten lamp
- Length of guide: 395mm
- Precision of accelerate voltage: ⩽2%
- Measuring error: less than ±5% compared with the recognized value (h=6.62619x l034J.S)



Photoelectric Bulb

Art No: L08003



Laser Distance Tester

Art No:L09001



Cold Light Source

Art No: L09003



Stroboscope

Art No: L09004



Optical Fibre Transmit-Receive Demonstrator

Art No: L09005



Light Transmission through Optical Fibre Demonstrator

Art No: L09006



Mercury Lamp with Power

Art No:L10001
Low Voltage



Sodium Lamp with Power

Art No: L10002
Low Voltage



Sodium Lamp with Power

Art No: L10003
Low Voltage



Mercury Lamp with Power

Art No: L10004
Low Voltage



Mercury/Sodium Lamp

Art No.: L10005.01 Mercury Lamp Push Type
Art No.: L10005.02 Mercury Lamp Screw Type
Art No.: L10005.03 Sodium Lamp Push Type
Art No.: L10005.04 Sodium Lamp Screw Type



Pen Type Laser Source

Art No: L10007.01 Red
Art No: L10007.02 Green



UV Lamp

Art No: L10009
Size: 160x55x20mm



Stroboscope

Art No: L10011

Portable Digital Rechargeable Stroboscope
Power Type: Powered by Rechargeable Battery
Battery Type: Lithium Rechargeable Battery
Battery Spec.: 2500MA
Recharging Voltage: DC19V
Working Voltage: DC12V
Power: Less than 40W
Environment Illumination: Less than 10000 Lux
Lamp Spec.: Original German Hyman lamp, lifetime 1*108
Trigger Mode: Internal and External Trigger
Operation Interface: Key button and rotary encoder
Internal Flash Frequency Range: 60-20000 FPM/min.
External Flash Frequency Range: 60-99999 FPM/min.
External Triggered by: Photoelectric sensor (optional)
External Trigger Signal Range: 5-12V Pulse Signal(high level trigger)
Size: 250mmx120mmx120mm



Stroboscope

Art No: L10012

Art No:	
L01012.01	Flash Frequency Range: 50~12000FPM
L01012.02	Flash Frequency Range: 50~40000FPM
L01012.03	Flash Frequency Range: 50~20000FPM
L01012.04	Flash Frequency Range: 50~30000FPM
L01012.05	Flash Frequency Range: 50~2000FPM

Display:510mmLCD
Accaracy:±(0.05%n+1d)
Resolution:0.1FPM(Less 1000 FPM)
1 FPM(Over 1000 FPM)
Sampling time:0.3second
2 ranges:H、L(High,Low)
Flash adjust:Coarse adjustment、fine adjustment , ×2 and ÷2 for fast check
Triggering Mode:Interior/Exterior
Temperature:0~40℃
Humidity:Less than 85%RH



Spectrum Tube

Art No:RAY001
6pcs/set. Gas of H2, He, N2, Ar, Ag & Ne is filled respectively. Overall length is about 230mm



Low Temperature Gas Discharge Tube Set

Art No:RAY002
To demonstrate the discharge phenomenon in the low pressure gases. Comprising of 6pcs of discharge tubes which are evacuated to the pressure of 5300, 1300, 400, 130, 13 and 2.7Pa respectively.



Cathode Ray Tube

Art No:RAY003
To demonstrate that cathode ray deflects in magnetic field.



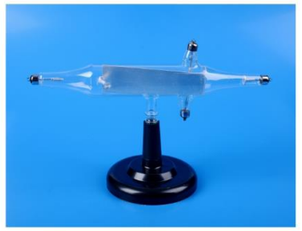
Cathode Ray Tube

Art No:RAY004
To demonstrate that cathode ray moves along a straight line & can be stopped by metal baffle.



Cathode Ray Tube

Art No:RAY005
Cathode Ray Tube, with Paddle Wheel
To demonstrate the cathode ray has kinetic energy that makes the paddle wheel rotate.



Cathode Ray Tube

Art No:RAY006
To demonstrate the deflection phenomenon of cathode ray in electric field.



Hand Operated Stroboscope

Art No: L10013





Spectrum Tube / Power Supply

Art No: RAY007

Art No: RAY007.01	Ar	RAY007.02	Co2
Art No: RAY007.03	He	RAY007.04	Xe
Art No: RAY007.05	N2	RAY007.06	Ke
Art No: RAY007.07	Hg		



Disc Polarimeter

Art No: WXG-4
Measuring range: -180°+180°
Scale value: 1°
Vernier reading: ±0.05°
Magnifier: 3x
Light source: sodium lamp
Wavelength: 589.44nm
Tube length: 100 or 200mm



Visible Spectrophotometer

Art No: L11001

1. Spectrum bandwidth: 6nm
2. Optical system: Littrow type, single beam
3. Wavelength range: 330 ~ 1000nm
4. Wavelength accuracy: ±2nm
5. Wavelength repeatability: ≤±1nm
6. Photometric range: 0 ~ 125.0%T, 0 ~ 2.5A
7. Photometric accuracy: ±1%t
8. Stray light: ≤0.3%t @340nm, 400nm
9. Drift: ≤0.003A/h
10. Light source: Tungsten
11. Detector: Silicon Photodiode
12. Date output: Analog output, RS-232
13. Standard sample holder: 10x10mm cell, Φ12mm tube or 4 – 10x10mm cell
14. Warranty: 1 year parts



UV Spectrophotometer

Art No: L11002

1. Display: 2-line, 16-character LCD
2. Spectrum bandwidth: 5nm
3. Optical system: Littrow type, single beam
4. Wavelength range: 190 ~ 1100nm
5. Wavelength accuracy: ±2nm
6. Wavelength repeatability: ≤±1nm
7. Photometric range: 0 ~ 125.0%T, 0 ~ 2.5A, 0 ~ 999C
8. Photometric accuracy: ±0.004A@ 0.5A
9. Stray light: ≤0.3%t @220nm, 340nm
10. Drift: ≤0.002A/h
11. Light source: Tungsten and Deuterium
12. Detector: Silicon Photodiode
13. Date output: Analog output, RS-232
14. Standard sample holder: 4-position 10x10mm cell
15. Warranty: 1 year parts



721 Visible Spectrophotometer

Art No.: L11003
High Vis performance between 335 and 1000 nm
Specially designed for industry and labs.
High accuracy with digital wavelength display.
Display of concentration data function
Automatic 0%(T) and 100%(T)calibration

Technical Specifications:	
Optical System	Single beam, C-T type, 1200 lines/mm grating
Detector	Silicon photo diode
Light Source	Tungsten lamp (socket type, 20W / 12V, 2000h)
Spectral Bandwidth	5nm
Wavelength Range	Setting Wavelength：332~1003nm；Measuring Wavelength：335~1000nm
Wavelength Accuracy	±2nm
Wavelength Repeatability	1nm
Stray Light	≤0.5%T（360nm）
Photometric Range	T：0~199.9%，A：-0.3~2.5Abs，F：0~9999，C：0~9999
Photometric Accuracy	±1.0%T
Photometric Repeatability	0.5%T
Stability	≤0.5%T/5min
Power Requirement	220V±10% 50Hz 45VA
Actual Dimensions	385×330×185（mm）
Gross Weight	10kg



721S Visible Spectrophotometer

Art No.: L11004
721S visible spectrophotometer, compact and easy-to-use spectrophotometric equipment, can be used to measure transmission, absorption and concentration direct-reading at wavelengths from 360nm to 1000nm. It can be widely applied to departments related to medical health, clinica examination, biochemistry, petro-chemistry, environmental monitoring and quality control as qualitative and quantitativeanalyses.

Main Technical Parameters:
1. Optical System: C-T-type monochromator (diffraction grating)
2. Wavelength range: 360nm~1000nm
3. Wavelength maximum permissible error: ±3.0nm
4. Wavelength repeatability: ≤1.5nm
5. Transmittance maximum permissible error: ±1.0%(T)(0~100%tT)
6. Transmittance repeatability: ≤0.3%(0~100%tT)(T)
7. Photometric range: T: 0.0~199.9%(T)A: -0.300~2.999(A)
   C: 0~9999(C)F:1-9999(F)
8. Spectral bandwidth: 6nm
9. Stray light: ≤ 1.0%(T)(at 360nm,determine in NaNO2)
10. Stability: dark current drift: ≤0.3%(T)/3min; light curren drift: ≤1.0%(T)/3min
11. Power supply: AC90~250V 50/60Hz



Spectrophotometer V1100/V1000/UV1100

Art No.: L11005.01 V1100
Art No.: L11005.02 V1000
Art No.: L11005.03 UV1100

Product Description:
This product is an economic analysis instrument, with RS232 output. Widely used in medical testing, food, petrochemical industry, environmental protection and monitoring, and other fields.

Technical parameters:

Model	V1100	V1000	UV1100
Optical system	Czerny-turner CT grating monochromator, 1200/mm		CT grating monochromator
Wavelength range	330-1020 nm	350-1020 nm	195 nm-1020nm
Wavelength accuracy	+/−2 nm	+/−3 nm	+/−2 nm
Wavelength repeatability	1nm		
Measurement range	0-200%T, -0.3-3A		
Photometric accuracy	+/−0.5%T	+/−1.0%T	+/−0.5%T
Photometric repeatability	0.2%T	0.5%T	0.2%T
Spectral bandwidth	5 nm	6 nm	5 nm
Stray light	0.3%T	0.5%T	0.3%T
Stability	0.002A	0.004A	0.002A
Display modes	4 LCD		
Basic Measurement	T,A,C		
Data output (print)	Rs232 Port		
Light source	Tungsten lamp		Deuterium & Tungsten



V/UV-1600/1800 Spectrophotometer

Art No.: L11006
Art No.: L11006.01 V1600
Art No.: L11006.02 V1800
Art No.: L11006.03 UV1600
Art No.: L11006.04 UV1800

Introduction:
16/18 Series are simple-to-use instruments with advanced performance; its stray light is only 0.05%T. The local stand-alone software provides functions of Photometry, Quantitative Test, Kinetics and System Utilities functions.

Features:
1. Large LCD screen (128*64 Dots).
2. System can also save the test results, total 200 groups of data 200 standard curves can be saved in the RAM. Convenient for check and reload.
3. Data can be restored after a sudden power cut.
4. Auto setting wavelength.
5. Tungsten lamp & Deuterium lamp can be turned on/off individually to extend lifetime.
6. The optional application software provides complete control of the spectrophotometer from a computer through the Built-in USB port. It can expand to the following functions: Quantitative, Kinetics, Wavelength Scan, Multi-wavelength & DNA/Protein Test.
7. Pre-aligned design makes it convenient to change lamps.
8. Large sample compartment, it can accommodate 5-100mm path length cuvettes with optional holders. A variety of optional accessories are available.

Functions:
1. Photometry
2. Absorbance, Transmittance or Energy measurements. It can display and save 200 groups of data, 5 groups per screen.
3. Quantitative.
4. Standard Curve
5. At most, 9 standard samples can be used to establish a standard curve. The curve and its equation will be displayed on the screen simultaneously. You can measure your unknown concentration solutions by the curve.
6. Total 200 curves can be saved in the Memory.
7. Coefficient Method
8. If the coefficient k & b in the formula C=k*a + b is known, you can input them directly by the button, and then test your unknown solutions.
9. Kinetics.
10. This mode may be used for time course scanning or reaction rate calculations. Abs. VS Time graphs is displayed on the screen in real time. It can most record 1000 data.
11. System Utilities
12. Lamp management, time & date set, obtain dark current, calibrate wavelength, default system, and some other system functions.

Specifications:

Model	V-1600	V-1800	UV-1600	UV-1800
Wavelength Range	320-1100nm		190-1100nm	
Spectral Bandwidth	4nm	2nm	4nm	2nm
Optical System	Single Beam , Grating 1200 lines/mm			
Wavelength Accuracy	±0.5nm			
Wavelength Repeatability	≤0.2nm			
Photometric Accuracy	±0.5%T or ±0.003A@1A			
Photometric Repeatability	≤0.15%T(0-100%T), ≤0.001A(0-0.5A), ≤0.002A(0.5-1A),			
Photometric Range	0-200%T , -0.3 - 3A ,0-9999Conc			
Stray Light	0.05%T@360nm		0.05%T@220 ,360nm	
Stability	±0.001A/h @500nm			
Display	Graphic LCD (128*64 dots)			
Detector	Silicon Photodiode			
Keyboard	22 Membrane keypad			
Standard Cell Holder	Standard 10mm pathlength cuvette			
Sample Compartment	4-position 10mm cell changer			
Light Source	Tungsten lamp		Tungsten&Deuterium lamp	
Output	USB Port & Parallel Port (Printer)			
Software	Optional			



V/UV-5100 Spectrophotometer

Art No.: L11007
Art No.: L11007.01 V5100
Art No.: L11007.02 UV5100

Features:

2.5 ' LCD screen
Equipped with a 2.5 LCD screen to give a clear display of standard curves and groups of results.

Standard curve
Can set up various standard curves according to customer 's solutions and find the concentration of unknown solutions.

Imported deuterium lamp
UV-5100 is equipped with imported deuterium lamp which ensures low stray light,photometeric accuracy and is easy to be replaced.

Date output
Equipped with USB port to connect with a PC to display spectrum scanning,kinetics and multiwavelength testing results on the screen. The software is optional

Multiple result readout
Can display wavelength,absorption and transmittance with 5 results per screen.It also has a memory store of up to 200 results.

Auto setting wavelength
Users set wavelength automatically through arrow keys to avoid operation errors.

Technical Specifications:

Model	V-5100	UV-5100
Optical System	Single beam, Grating 1200 lines/mm	
Wavelength Range	325-1000nm	190-1000nm
Bandwidth	4nm	
Wavelength Accuracy	±1nm	
Wavelength Repeatability	0.5nm	
Wavelength Setting	Auto	
Photometric Accuracy	±0.5%T	
Photometric Repeatability	0.3%T	
Photometric Range	-0.3-3A	
	0-200%T	
Photometric Mode	T,A,C,F	
Stray Light	≤0.2%T	
Stability	± 0.002A/h @ 500nm	
Display	128*64 LCD	
Detector	Silicon Photodiode	
Light Source	Tungsten Lamp	Tungsten Lamp&D2 Lamp
Output	USB Port & Parallel Port(Printer)	
Power Requirements	AC 85~250V	
Dimension	420*280*180mm	
Weight	11kg	12kg



Digital Flame Photometer FP640 Series

Art No.: L11009

- 7 inch multi color touch screen
- Automatic calculation of correlation coefficient
- Flameout protection device
- LPG burning gas

- Direct concentrtion read-out
- Pre-selection of flame sizes
- Measuring range changing
- Air compressor included

Technical Specifications:

		FP640	FP6410	FP6430	FP6431	FP6432	FP6440	FP6450
Sensitivity	K	0.01ppm	0.01ppm				0.01ppm	
	Na	0.01ppm	0.01ppm				0.01ppm	
	Li	—	Optional	0.1ppm	—	—	0.1ppm	
	Ca	—	—	—	2ppm	—	2ppm	
	Ba	—	—	—	—	6ppm	—	60ppm
Range	K	0-100ppm		0-100ppm			0-100ppm	
	Na	0-160ppm		0-160ppm			0-160ppm	
	Li	—	Optional	0-100ppm	—	—	0-100ppm	
	Ca	—	—	—	0-1000ppm	—	—	0-1000ppm
	Ba	—	—	—	—	0-3000ppm	—	0-3000ppm
Linearity	K	0.195ppm(0.39-3.12)ppm		0.195ppm(0.39-3.12)ppm			0.195ppm(0.39-3.12)ppm	
	Na	0.69ppm(1.15-9.2)ppm		0.69ppm(1.15-9.2)ppm			0.69ppm(1.15-9.2)ppm	
	Li	—	Optional	0.15ppm(0.25-5)ppm	—	—	0.15ppm(0.25-5)ppm	
	Ca	—	—	—	3ppm(5-100)ppm	—	3ppm(5-100)ppm	
	Ba	—	—	—	—	9ppm	—	9ppm
Repeatabillity	1% CV for 20 consecutive samples			1% CV for 20 consecutive samples			1% CV for 20 consecutive samples	
Respond time	<8s			<8s			<8s	
Sample uptake	<6L/min			<6L/min			<6L/min	
Package	G.W.17kg 570x530x380mm 0.115M³							



Flame Photometer

	Art No: L11010.01	Art No: L11010.02
Specifications:		
Measuring Range	K: 0~50ug/ml	K: 0~100ug/ml
	Na: 0~120ug/ml	Na: 0~160ug/ml
Sensitivity	K: 0.2μ g/mL	
	Na: 0.2μ g/mL	
Linearity	K: 0.2μ g/mL	
	Na: 0.7μ g/mL	
Drift	less than 3% within 15s	
Reproducibility	3%	
Aspiration rate	< 6mL/min	
Fuel supply	Gasoline or L. P. G.	



Gas Chromatograph GC112A
Art No.: L11011

Characteristics:

- Brand-new designed microcomputer temperature control system of world advanced control technology. High accuracy of temperature control (optimum: ± 0.05°C), high reliability and anti-interference.
- Control and operating parameters (including for detectors) set up by the keyboard. Self-diagnosis system, power-fail protection, file storage and call, limited temperature setting. Accurate display of setting and actual value of temperature control of each path, bridge current of TCD, sensitivity of FID, retention and analysis time.
- Four paths of independent control sections: column oven, sample injector, detector and thermal conductive pond.
- 5-ramp programmed temperature rising control. Auto-drop of temperature of column oven (auto-opening the door behind the oven) to a fast cooling.
- Dual FID provided with options of Gc112 A-TCD, GC112A-ECD, GC 112 A-FPD and GC112A-NPD, gas sampling valve, transformation oven, absorber and pyrolysis absorber available for selection. Two detectors can be installed at the same time with high sensitivity. Short time to be stabilized and easy to clean and install nozzle.
- Packed column and capillary column (0.53 large diameter or small diameter) can be installed easily including a complete set of split sampling connector and tailing connector to be installed free of charge. Optional 0.53mm large diameter capillary direct sampler is available for choice.
- Analysis can be conducted in packed or capillary column with multiple sampling methods.
- Packed column: on-column sampling, instantaneous vaporized sampling and gas sampling.
- Capillary column: split sampling and 0.53mm large diameter capillary direct sampling.
- Construction of dual gas path, dual sample injector and dual packed column system can effectively avoid baseline undulation and drift in real time and facilitate programmed temperature rising analysis. Accurate and scaled type gas path control valves will provide a high repeatability and stability.
- Advanced functions: auto ON/OFF temperature control system, permanent data storage, file storage and call and over-temperature protection.
- Large volume column (300x280x270) can hold capillary column and dual packed column. Built-in heating filament structure is in favor of quartz capillary analysis.
- A complete set of accessories including purifier, pressure-reducing valve, gas path tube, wrench and tools, injection needle and connectors of all kinds are provided free of charge and are ready to connect with supply-air system prepared by users.

Specifications:

- **Temperature control**

Control range: 7°C-400°C above room temperature. (increment of 1°C)Control objects: column oven, detector, thermal conductive pond and sample injector
Programmed temperature rising: 5 ramps
Rate of programmed temperature rising: 0.1°C-40°C (increment of 0.1°C)
Thermostatic time: 0-655 min (increment of 1 min)

- **FID**

Sensitivity (minimum testability): $M \leqslant 5 \times 10^{-11}$ g/s (sample: C16)
Optimum testing result: $M \leqslant 1 \times 10^{-11}$ g/s
Noise: $\leqslant 5 \times 10^{-14}$ A
Drift: $\leqslant 6 \times 10^{-13}$ A/h
Linear range: $\geqslant 10^{6}$

- **TCD**

Sensitivity: ≥2000mV.ml/mg
Noise: ≤20mV
Drift: ≤30mV
Linear range: $\geqslant 10^{4}$

Optional accessories:

- TCD
- Software with I/O port



Atomic Absorption Spectrophotometer AA320N
Art No.: L11012

Characteristics A:

- **Build-in computer data processing and LCD:** adopting highly integrated micro digital circuit, which is stable and reliable with the functions of integral holding, peak height and area, auto zero adjusting, deuterium lamp and background, multi-linear and nonlinear curves fitting, various parameters and working curves displayed in screen and report printing, etc. It is equipped with interface for externally linking PC.
- **Good basic line stability:** Double-beam system of optimized design can automatically compensate the light source drift and wavelength drift caused by the variation of temperature (with the function of the eliminating the affection of wavelength drift on the base line stability) and electronic circuit drift so as to reach a good basic line stability. The cathode lamp needs not be pre-heated for long time and sample can be analyzed immediately. It is the preferable instrument chosen by users to conduct analysis of multiple kinds of elements and fast analysis of samples.
- **High precision of measurement:** Gas path system is equipped with precision pressure stabilizing and current stabilizing devices to reach stable flame and low noise Specially designed fine light beam passes through the flame to ensure a high precision analytical test and low characteristic concentration
- **Optical path of high energy:** A total reflection system is adopted to eliminate color difference in full range. By means of chemical conversion, a round light spot of the light source becomes a long light spot, which enters into the slit. Therefore the light flux of double beam is enhanced.
- **Long-life and anti-corrosive atomization system:** The burner is made of new type titanium alloys, anti-corrosive and fast thermal equilibrium. It meets the requirement of measurement sensitivity without water-cooling.
- **Multi-functional analysis mode:** for methods of flame absorption, flame emission, graphite furnace atomic absorption and hydride generation.
- **Safe and reliable gas path system:** Special devices of quick gas conversion and safety protection can be used to analyze air-acetylene flame .
- **Complete set of accessories:** to be supplied with the instrument and ready for use after they are purchased.

Characteristics B:

- **Light-source system:** Hollow cathode lamp power supply: with adjustable current Deuterium Lamp power supply: with fixed current
- **Optical system:** Double beam total refection system, C-T type monochromator Flashing wavelength: 250nm
- **Flame atomization system:** Inter-changeable titanium alloy burner of 10cm and 5cm slits. Gas path is equipped with pressure indication high precision voltage stabilizing flow adjustment, fast conversion of air and nitrous oxide, gas supply cut off, power cut off, prevention of flashback and logic interlock protection devices.
- **Signal processing:** absorptance, concentration, emission and emission concentration; Standard curves: linear regression, curve fitting and multi-point standard calibration. Average value, standard deviation, relative standard deviation and correlation coefficient can be worked out. Standard curves, atomic absorption peak diagram, spectrum outline sketch, data as well as instrument parameters list and analytical reports can be displayed and printed out.

Technical Specifications:

- Working spectral range: 190-900nm
- Wavelength accuracy: ≤ ±0.5nm
- Wavelength repeatability: ≤ 0.3nm (single direction)
- Spectrum bandwidth: 0.2nm, 0.4nm, 0.7nm, 1.4nm, 2.4nm, 5.0nm
- Resolution: <40%
- Base line stability: ±0.004Abs/30min
- Characteristic concentration of copper: ≤ 0.04mg/ml/1%
- Detection limit of copper: ≤0.008mg/ml
- Background calibration ability: Greater than 30 times.
- Standby Interface: RS 232
- Instrument power supply: 220V, 3A, 50Hz

Accessories Included:

Main accessories supplied with the instrument: Several decades of accessories including air compressor, one piece of Cu hollow cathode lamp. Gas external pipe, acetylene cylinder pressure-reducing valve and water knockout gas filter.

Optional Accessories:

- GA3202 HGA graphite furnace system: Used to conduct trace and ultra-trace analysis with an absolute sensitivity of 10^{-10}-10^{-12} gram.
- 5cm long-life titanium burner: The necessary accessory for nitrous oxide-acetylene flame analysis.
- Hydride generator (Totally automatic): Making the characteristic concentration of As, Se, Sb, Bi, Pb, Sn, Te, Ge, In, Tl, Cd and Zn lower than ppb level with cold atomic mercury measurement method.
- Hollow cathode lamp: All specifications are available.
- Graphite tube: All specifications are available.
- Software with I/O port
- Printer



Solar Cell

Art No: EC001



Solar Cell Demonstrator

Art No: EC002



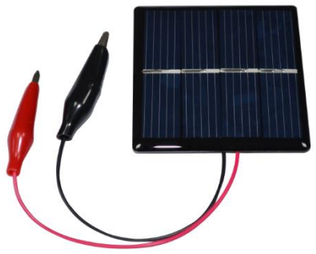
Solar Cell Demonstrator

Art No: EC003.01



Solar Cell Demonstrator

Art No: EC003.02



Solar Cell Demonstrator

Art No: EC003.03



Solar Cell Demonstrator

Art No: EC004



Energy Conversion Kit

Art No: EC005



Wind Generator

Art No: EC007



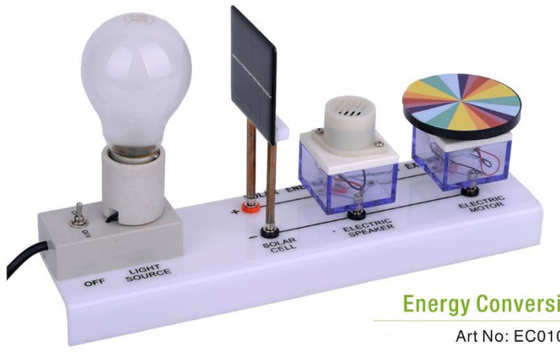
Solar Powered Car

Art No: EC008



Solar Powered Car

Art No: EC009



Energy Conversion Kit

Art No: EC010



Solar Cooker Demonstrator

Art No: EC012.01



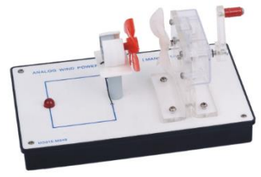
Solar Cooker Demonstrator

Art No: EC012.02



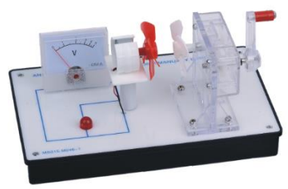
Energy Conversion Kit,Set of 7.

Art No:EC013



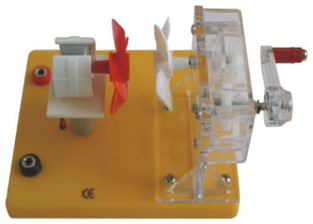
Wind Power Generation Model

Art No: EC014.01



Wind Power Generation Model

Art No: EC014.02



Wind Power Generation Model

Art No: EC014.03



Wind Power Generation Model

Art No: EC014.04



Energy Conversion Kit, Set of 8

Art No: EC015



Energy Conversion Demonstrator

Art No:EC017



Wind Power Generation Model

Art No:EC018



Economic Wind Power Generation Model

Art No:EC019



Fruit Clock

Art No:EC020



Stirling Engine, Low Temperature

Art No: EC021.01



Stirling Engine, Low Temperature

Art No: EC021.02
Simplified and smaller



Steam Engine Model,Simplified

Art No:EC022.01



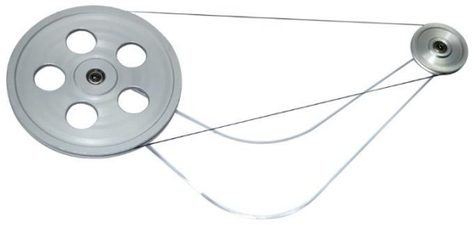
Steam Engine Model, Simplified

Art No:EC022.02
With LED light



Thermal Generator

Art No: EC024
For converting thermal energy into electrical energy.



Magic Engine

Art No: EC025
With hot water, it turns around



Water Energy Demonstrator

Art No: EC026



Deluxe Stirling Engine

Art No: EC027



Deluxe Stirling Engine

Art No: EC028



Deluxe Stirling Engine

Art No: EC029

Colper Laboratory Equipment



Cavendish Gravitational Balance

Art No: ADV001
Unique small scale version of the famous Cavendish experiment to verify Newton's Law of Gravity and measure the Universal Gravitational Constant, G. This unit is remarkable for measuring the tiny value of G by simple,easily-understood means.



Foucault's Pendulum

Art No: ADV002
Foucault's Pendulum,57" High.
Display version of the Foucault 1851 experiment to demonstrate the Earth's rotation. It contains a maintained pendulum whose precession rate can also be used to calculate latitude or time.



Force Between Conductors Demonstrator

Art No: ADV003
To demonstrate the magnetic force between 2 parallel currents.



Force Between Conductors Demonstrator

Art No: ADV004
To demonstrate the magnetic force between 2 parallel currents.



Lorentz Force Demonstrator

Art No: ADV005
Packaged in wooden box
Classic "fine beam tube" set for the visual and quantitative demonstration of electron beam properties and the measurement of e/m. The compact apparatus has a built-in power supply and is housed in a wooden case for easier beam visibility.



Frank-Hertz Apparatus

Art No: ADV006
Set of equipment used for observing the excitation transitions of electrons in Argon.Compact unit includes Argon tube, power supplies and amplifier in one box.



Complete Properties of Electrons Apparatus

Art No: ADV008
Comprehensive equipment set for studying the electric and magnetic properties of an electron beam. CRT tube, power supplies, and deflection coils are housed in a compact case. Allows e/m to be measured.



Millikan Oil Drop Apparatus

Art No: ADV009

To measure the quantity of electric charge of oil drop, And verify the quantum of electric charge.



Millikan Oil Drop Apparatus

Art No: ADV010

To measure the quantity of electric charge of oil drop,and verify the quantum of electric charge. Classic Oil Drop Experiment for measuring the electron charge.Features double draft shield system, CCD microscope camera and computer control for the experiment and evaluation.



Michelson & Fabry-Perot Interferometer

Art No: ADV011.01 100mm
Art No: ADV011.02 200mm

High precision interferometer with interchangeable optics for Michelson or Fabry-Perot setups. 200mm or 100mm precision geared lead screw for fine adjustment.



Thermoelectric Effect Apparatus

Art No: ADV012

This apparatus allows the thermal behavior of a resistor,thermistor, and thermocouple to be studied, as well as a closed loop control system.



Photoelectric Effect Apparatus

Art No:ADV013

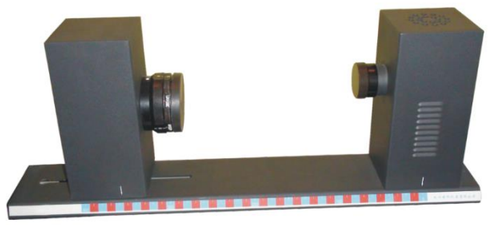
Set of equipment for studying the photo-emission of a mixed alkali photocathode. Precise, stable illumination and bias control for excellent results.



Complete Zeeman Effect Apparatus

Art No: ADV014

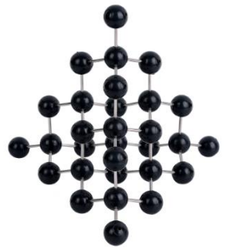
Set of equipment for studying the Zeeman Effect in the mercury green line at 545.1 nm includes a 1.0T electromagnet that allows longitudinal or transverse viewing, a mercury lamp, interference filter and lens, a 2.0mm gap Fabry-Perot etalon, a CCD camera and capture card, and evaluation software.



Plank's Constant Apparatus

Art No: ADV015

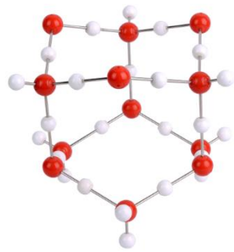
A precision device for measuring Plank's Constant. It uses a stable mercury lamp and well –shielded vacuum photocell to achieve excellent results.The mercury lamp and vacuum photocell method gives 3% accuracy. It has highly precise stable current amplifier, includes a set of high quality interference filters.



Model of Diamond

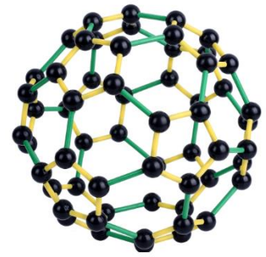
Art No:C01001

14 atoms, 16 bindings.
Size:23cm, Height: 17cm



Model of Cesium Chloride

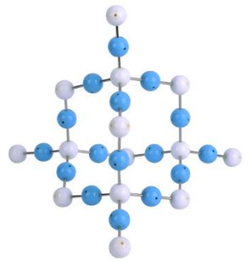
Art No:C01002



Model of C-60

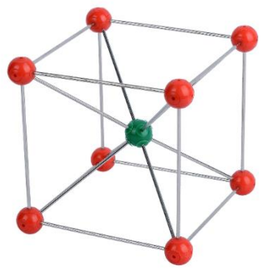
Art No:C01003

27cm dia



Model of Silicon Dioxide

Art No:C01004



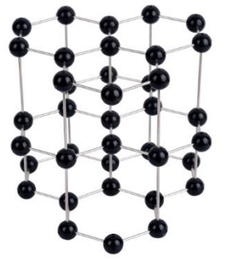
Body Centered Cube

Art No:C01005



Model of Benzene Ring

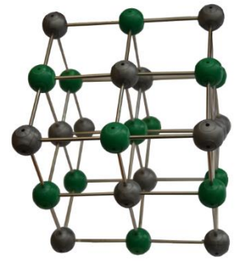
Art No:C01006



Model of Graphite

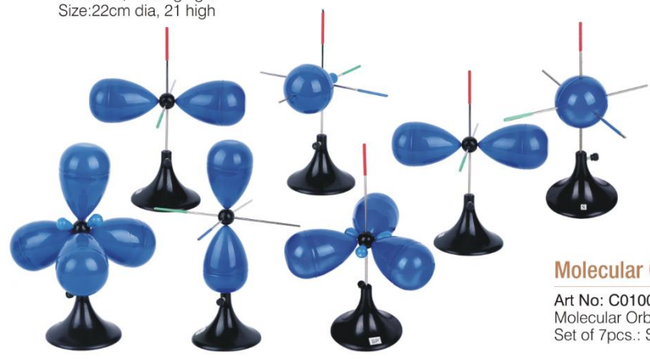
Art No:C01007

39 atoms, 48 bingings.
Size:22cm dia, 21 high



Model of Sodium Chloride

Art No:C01008



Molecular Orbit Model

Art No: C01009

Molecular Orbit Model, Set of 7
Set of 7pcs.: S, SP, SP2, SP3, Px, Py, Pz



Deluxe Structural Molecular Model Set

Art No: C01010

Ball-and-spoke molecular model set with 245 plastic spheres,125 hydrogen atom models with connectors attached and 185 flexible,Plastic connecting rods.Balls are 21 mm or 26 mm in diameter representing, Different species and valences, and the hydrogen models have 12.5 mm spheres. This set allows extensive models of inorganic and organic molecules to be made.Includes storage case with periodic table.



Molecular Model Set

Art No: C01011

Ball-and-spoke molecular model set with 174 plastic spheres,225 metal connecting rods and 10 connecting springs. Balls are 23 mm in diameter, except for the 40 hydrogen models, which are 17 mm.This set allows models of simple inorganic and organic molecules to be made as well as crystal structure models of sodium chloride, graphite, and diamond.Includes storage case.



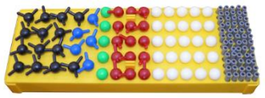
Student Molecular Model Set

Art No: C01012



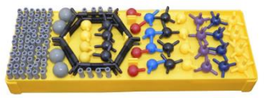
Organic Structure Model Set

Art No: C01013



Model of Inorganic Molecule

Art No:C01014
Size: 34x13.5x6.5cm



Model of Organic Molecule

Art No: C01015



Large Molecular Model Set

Art No: C01016

Ball-and-spoke molecular model set with 174 plastic spheres,225 metal connecting rods and 10 connecting springs. Balls are 23 mm in diameter, Except for the 40 hydrogen models, which are 17 mm.
This set allows models of simple inorganic and organic molecules to be made as well as crystal structure models of sodium chloride, graphite, and diamond. Includes storage case.



Molecular Model Set

Art No: C01017

Ball-and-spoke molecular model set with 72 plastic spheres,155 plastic connecting rods. 40 balls are 23 mm in diameter (H, Cl and Metal) and 32 balls are 30 mm (C, O, N, and S).
This set allows models of most organic molecules to be made.
Includes storage case.



Molecular Model Set

Art No: C01018

This set allows models of Sodium Chloride, Diamond, Graphite and Copper to be made.
Includes storage case.



Molecular Model Set

Art No: C01019

Ball-and-spoke molecular model set with 194 plastic spheres,250 plastic connecting rods. Balls are 23 mm in diameter, except for the 70 hydrogen models, which are 17 mm.
This set allows models of most organic molecular and crystal structure models to be made as well as usual inorganic molecular models.
Includes storage case.



Semi-Space Filling Molecular Model Set

Art No: C01020

It has 55 plastic spheres. Balls are 40 mm in diameter, except for the 20 hydrogen models which are 30 mm, and 1 sulphur and 2 chlorine models which are 50 mm. 50 short connectors allow the spheres to sit close to each other, giving a better representation of molecular shapes.
This set allows models of most organic and usual inorganic molecular models to be made.Includes storage case.



Molecular Model Set

Art No: C01021

Ball-and-spoke molecular model set with 76 plastic spheres,102 plastic connecting rods. Balls are 23 mm in diameter, except for the 30 hydrogen models, which are 17 mm.
This set allows models of most organic molecular and crystal structure models to be made as well as usual inorganic molecular models.
Includes storage case.



Molecular Model Set

Art No: C01022

Ball-and-spoke molecular model set with 59 plastic spheres,62 plastic connecting rods. Balls are 23 mm in diameter, except for the 20 hydrogen and 6 chlorine models, which are 17 mm.This set allows models of usual organic molecular and crystal structure models to be made.Includes storage case.

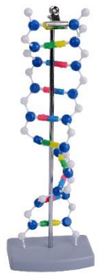


Molecular Model Set

Art No: C01023

Large Polymer Chemistry Molecular Model Set can build models for VSEPR theory or alkanes, alkenes, aromatics, sugars, amino acids & more! cyclohexane; 15 double thick bonds for chair-boat flips and parts for any of the 20 amino acids, sugars, fats and stereochemistry: chiral pairs, cis & trans and 14 orbitals for VSEPR theory, lone electron pairs; and lots of bonds for building lots more stuff such as: alcohols, thiols, amines, ketones, and more simple lattices such as diamond, graphite, NaCl, Carbon 60

Atoms	Holes(angle)	Color	Qty
H-Hydrogen	1	white	150
Halogen	1	green	15
Metal	1	gray	15
F-Fluorine	1	orange	15
S-Sulfur	1	yellow	15
O-Oxygen	2(110°)	red	30
S-Sulfur	2(110°)	yellow	15
N-Nitrogen	2(110°)	blue	15
C-Carbon	2(180°	black	10
O-Oxygen	2(180°	red	10
N-Nitrogen	3(120°	blue	30
C-Carbon	3(120°	black	80
C-Carbon	4(109°28′)	black	80
O-Oxygen	4(109°28′)	red	20
N-Nitrogen	4(109°28′)	blue	20
S-Sulfur	4(109°28′)	yellow	10
C-Carbon	5(120°/90°)	black	50
N-Nitrogen	5(120°/90°)	blue	20
Natrium	6(90°)	gray	20
Cl-Chlorine	6(90°)	green	20
short link (20mm)			160
medium link(28mm)			160
long linl(45mm)			120
ABS Box(235*17*7mm)			1



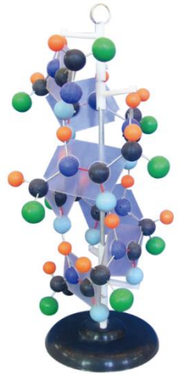
DNA Structure

Art No: C02001
DNA Structure,for Student



DNA Structure

Art No: C02002
DNA Structure,60cm High



Protein Structure

Art No: C02003



DNA Structure

Art No:C02004



Cotton & Product from Processing

Art No:C03001



Iron & Steel

Art No:C03002



Glass & Raw Material for Its Producing

Art No: C03003



Petroleum & Product from Processing

Art No: C03004



Plastic

Art No:C03005



Metal & Their Alloys

Art No: C03006



Fiber

Art No: C03007



Fuel

Art No: C03008



Sulfur & Product

Art No:C03009
Sulfur & Product from processing



Metal & Mineral Samples

Art No:C03010
Metal & Mineral Samples Set of 20



Coal & Product

Art No:C03011
Coal & Product from processing



Aluminum

Art No:C03012



Rock and Mineral Samples

Art No: C03013
Rock and Mineral Samples, Set of 100



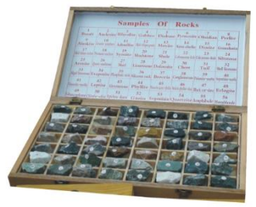
Rock Samples Set

Art No:C03014
Rock Samples Set of 24



Samples of Fossils

Art No:C03015
Fossil Samples, Set of 20



Samples of Rocks

Art No:C03016
Rock Samples, Set of 56



Buchner Funnels,Porcelain Glazed

Art No	Outside diam.	Tube diam.	Total height	Bowl height	Perforation diam.	No of Perforations
	mm	mm	mm	mm	mm	mm
C-141	20	10	45	15	2	19
C-142	40	14	65	22	2	37
C-144	60	18	100	30	2	51
C-145	80	22	130	40	2	51
C-146	100	24	150	45	2	88
C-147	120	30	170	60	2	123
C-149	150	36	220	70	2	164
C-151	210	45	270	90	2.5	212
C-152	250	50	310	110	2.5	326
C-152-1	300	60	380	140	2.5	463



Porcelain Casseroles

Art.No	Capacity (mm)	Rim Dia(mm)	Bottom Dia (mm)	Height (mm)
C-78	30	50	30	30
C-79	40	56	34	32
C-79-1	50	60	36	34
C-80	70	66	40	39
C-81	100	80	52	45
C-82	125	86	53	46
C-83	150	90	54	48
C-84	200	96	56	52
C-85	250	108	65	60
C-85-1	300	110	66	62
C-86	400	120	70	65
C-87	500	132	80	70
C-88	700	140	82	75
C-89	1000	164	100	90



Evaporating Dishes,Porcelain Glazed

Art No:	Capacity (ml)	Rim diam (mm)	Heights (mm)
C-46-1	15	47	20
C-46	35	60	25
C-47	40	64	25
C-48	50	70	28
C-49	60	74	30
C-50	75	82	32
C-51	100	90	35
C-52	115	96	36
C-53	125	98	38
C-54	140	100	39
C-55	150	104	40
C-55-1	160	106	42
C-56	180	108	43
C-57	200	110	44
C-58	225	116	45
C-59	250	118	48
C-60	270	120	49

Porcelain Mortar and Pestle



Art No	Head of Pestle.mm	Length of pestle.mm	Rim diam.mm	Bottom Diam. mm	Height.mm
C-154	18	65	60	32	32
C-154-1	26	90	80	44	41
C-155	30	110	100	60	45
C-156	37	140	130	80	62
C-157	42	170	160	90	74
C-158	48	200	216	114	90
C-158-1	55	230	254	130	110
C-158-2	65	260	305	160	140
C-158-3	75	310	365	180	150

Spotting Plates, Glazed

Art No	No of hollows	Length	Width	Thickness	Hollow diam.	Hollow Depth
		(mm)	(mm)	(mm)	(mm)	(mm)
C-159	2	56	28	8	21	6
C-160	4	58	54	10	21	6
C-161	6	85	54	11	21	6
C-162	12	115	90	12	21	6



Clay Pipe Triangles

Art No:
C-195 55mm
C-196 65mm
C-197 75mm



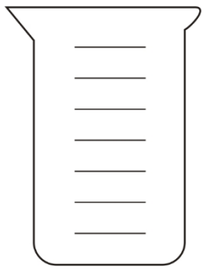
1101 BEAKER low form, with spout, with printed graduations

Art No	Capacity	Height	O.D.	Quantity
	ml	mm	mm	Per case
1101.01	5	30	20	1152
1101.02	10	35	25	1152
1101.03	25	45	33	576
1101.04	50	58	46	192
1101.05	100	72	52	192
1101.06	150	80	57	192
1101.07	200	88	64	144
1101.08	250	94	69	144
1101.09	300	102	76	144
1101.10	400	110	82	72
1101.11	500	115	87	72
1101.12	600	128	95	48
1101.13	800	138	102	36
1101.14	1000	150	110	24
1101.15	2000	200	133	16
1101.16	3000	250	160	8
1101.17	5000	280	178	6



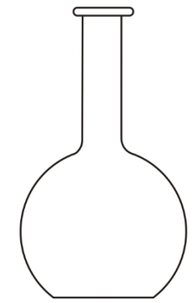
1102 BEAKER TALL form, with spout, with printed graduations

Art No	Capacity	Height	O.D.	Quantity
	ml	mm	mm	Per case
1102.01	50	67	40	192
1102.02	100	88	45	192
1102.03	150	100	53	144
1102.04	250	122	60	72
1102.05	400	138	70	72
1102.06	600	165	80	48
1102.07	800	178	90	36
1102.08	1000	195	100	24
1102.09	2000	240	118	16
1102.10	3000	280	135	8



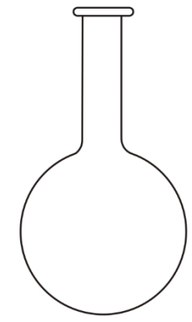
1111 BOILING FLASK flat bottom, long narrow neck

Art No	Capacity	Height of flask	O.D. of bulb	O.D. of neck	Quantity
	ml	mm	mm	mm	per case
1111.01	5	62	27	13	576
1111.02	10	68	33	13	576
1111.03	25	82	41	15	288
1111.04	50	100	53	20	192
1111.05	100	120	65	21	192
1111.06	150	140	76	22	96
1111.07	200	150	83	23	96
1111.08	250	160	88	25	72
1111.09	300	170	92	26	48
1111.10	500	200	110	30	48
1111.11	1000	250	140	8	4
1111.12	2000	300	175	40	12
1111.13	3000	370	199	50	8
1111.14	5000	400	235	55	4



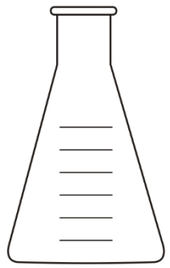
1115 BOILING FLASK round bottom, long narrow neck

Art No	Capacity	Height	O.D. of bulb	O.D. of neck	Quantity
	ml	mm	mm	mm	Per case
1115.01	5	62	27	13	576
1115.02	10	68	33	13	576
1115.03	25	82	41	15	288
1115.04	50	100	53	20	192
1115.05	100	120	63	21	192
1115.06	150	145	76	22	96
1115.07	200	155	83	23	96
1115.08	250	165	88	25	72
1115.09	300	180	92	26	48
1115.10	500	210	110	30	48
1115.11	1000	260	140	35	24
1115.12	2000	305	175	46	12
1111.13	3000	370	199	50	8
1111.14	5000	400	235	55	4



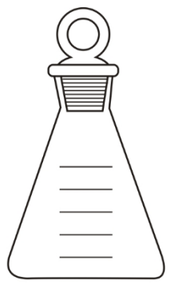
1121 CONICAL FLASK Narrow Mouth with Graduation

Art No	Capacity	Height of flask	O.D. at base	O.D. of neck	Quantity
	ml	mm	mm	mm	per case
1121.01	5	50	25	14	1152
1121.02	10	55	30	15	1152
1121.03	25	70	40	16	576
1121.04	50	90	52	20	192
1121.05	100	105	60	22	192
1121.06	150	120	69	25	144
1121.07	200	130	76	26	96
1121.08	250	144	83	30	72
1121.09	300	155	89	32	48
1121.10	500	195	100	35	48
1121.11	1000	225	128	40	24
1121.12	2000	285	170	53	12
1121.13	3000	330	195	54	8
1121.14	5000	380	235	65	4



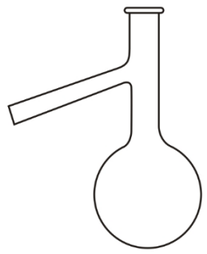
1122 CONICAL FLASK with ground-in glass stopper

Art No	Capacity	Height of flask	O.D. at base	Quantity
	ml	mm	mm	per case
1122.01	50	90	56	192
1122.02	100	108	60	192
1122.03	250	140	83	72
1122.04	500	185	98	48
1122.05	1000	215	130	36



1131 DISTILLING FLASK with side tube

Art No	Capacity	Height	O.D. of bulb	O.D. of neck
	ml	mm	mm	mm
1131.01	50	190	70	23
1131.02	125	220	88	25
1131.03	500	270	100	30
1131.04	1000	350	140	35
1131.05	2000	410	175	46





1171 EVAPORATING DISH flat bottom,with spout

Art No:	Diameter	Height	Quantity
	mm	mm	per case
1171.01	60	30	240
1171.02	90	45	120
1171.03	120	60	60
1171.04	150	75	60



1173 CRYSTALLIZING DISH with spout

Art No	Capacity	Height	Quantity
	mm	mm	per case
1173.01	90	45	120
1173.02	100	50	120
1173.03	125	63	48
1173.04	150	75	48
1173.05	180	90	24

1175 WATCH GLASS

Art. No	Diameter	Quantity
	mm	per case
1175.01	45	1200
1175.02	60	600
1175.03	70	600
1175.04	80	600
1175.05	90	600
1175.06	100	600
1175.07	120	400
1175.08	150	400
1175.09	180	400



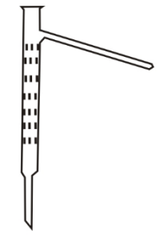


1177 PETRI CULTURE DISH

Art.No	Bottom Dia.	Cover Dia.	Height	Quantity
	mm	mm	mm	pase
1177.01	60	65	15	288
1177.02	75	82	15	288
1177.03	90	98	18	192
1177.04	100	107	20	192
1177.05	120	130	25	96
1177.06	150	160	30	48

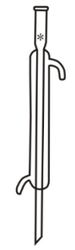
1207 DISTILLING TUBE with thorn

Art No	Length of Vigreux tube	Total length	O.D of main tube	O.D of side tube
	mm	mm	mm	mm
1207.01	250	410	21	6
1207.02	400	560	23	7
1207.03	500	690	25	8
1207.04	600	790	27	9
1207.05	800	1020	30	10
1207.06	1000	1220	33	11



1213 CONDENSER Liebig with fused inner tube

Art No:	Length of jacket	O,D,of upper tube	Cooling area	Length
1213.01	mm	mm	dm^2	mm
1213.02	200	18	0.7	350
1213.03	250	18	1.0	420
1213.04	300	20	1.1	480
1213.05	400	22	1.6	590
1213.06	500	24	2.2	710
1213.07	600	24	2.8	810
1213.08	800	28	4.3	1050
1213.09	1000	28	5.7	1250



1224 Connection tube T shape

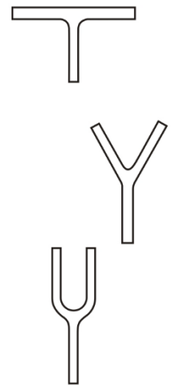
Art No	O.D. of tube	Max. Length	Length of branches
1224.01	7-8mm	100mm	50mm
1224.02	10-11mm	120mm	60mm
1224.03	15-16mm	150mm	75mm

1225 Connection tube Y shape

Art No	O.D. of tube	Max. Length	Length of branches
1225.01	7-8mm	100mm	50mm
1225.02	10-11mm	120mm	60mm
1225.03	15-16mm	150mm	75mm

1226 Connection tube U shape

Art No	O.D. of tube	Max. Length	Length of branches
1226.01	7-8mm	100mm	50mm
1226.02	10-11mm	120mm	60mm



1231 TEST TUBE without rim, bacteriological

Art No	O.D.	Length	Quantity	Art No	O.D.	Length	Quantity
	mm	mm	Per case		mm	mm	Per case
1231.01	10	75	2000	1231.10	18	100	600
1231.02	10	100	2000	1231.11	18	150	600
1231.03	12	75	2000	1231.12	18	180	600
1231.04	12	100	2000	1231.13	19	150	600
1231.05	13	100	2000	1231.14	21	150	400
1231.06	15	100	1000	1231.15	21	180	400
1231.07	15	150	1000	1231.16	25	150	300
1231.08	16	125	1000	1231.17	25	200	200
1231.09	16	150	1000				



1232 TEST TUBE with rim

Art No	O.D.	Length	Quantity	Art No	O.D.	Length	Quantity
	mm	mm	Per case		mm	mm	Per case
1232.01	10	75	2000	1232.10	18	100	600
1232.02	10	100	2000	1232.11	18	150	600
1232.03	12	75	2000	1232.12	18	180	600
1232.04	12	100	2000	1232.13	19	150	600
1232.05	13	100	2000	1232.14	21	150	400
1232.06	15	100	1000	1232.15	21	180	400
1232.07	15	150	1000	1232.16	25	150	300
1232.08	16	125	1000	1232.17	25	200	200
1232.09	16	150	1000				



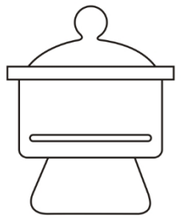
1301 WEIGHING BOTTLE tall form, with ground-in glass stopper

Art No	Diameter mm	Height mm	Quantity per case
1301.01	25	40	288
1301.02	30	50	288
1301.03	30	60	144
1301.04	35	70	144
1301.05	40	70	72



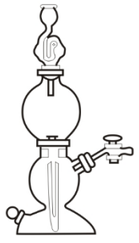
1351 DESICCATOR with porcelain plate

Art No	I.D.	Depth to plate support	Total Height	Diameter of porcelain plate	Quantuty
	mm	mm	mm	mm	Per case
1351.01	100	50	165	92	12
1351.02	150	80	220	135	4
1351.03	180	100	280	150	2
1351.04	210	120	320	185	1
1351.05	240	130	360	210	1
1351.06	300	165	450	275	1



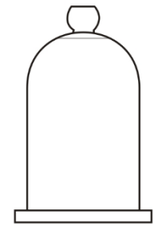
1361 GAS GENERATOR with outlet near bottom, safety funnel, stopcock and rubber stoppers

Art No	Capacity	O.D. of bulb	Height of generator	Quantity
	ml	mm	mm	Per case
1361.01	250	82	314	6
1361.02	500	98	3610	6
1361.03	1000	130	450	4
1361.04	2000	160	580	2



1371 BELL JAR high straight form, with knob, clear

Art No	I.D.	Inside Height	Quantity Per Case
	mm	mm	
1371.01	120	180	12
1371.02	150	250	6
1371.03	180	250	6
1371.04	200	300	4
1371.05	250	400	2



1381 ALCOHOL LAMP conical shape, with plastic cap

Art.No	Capacity (ml)	Quantity (Per case)
1381.01	150	96
1381.02	250	72



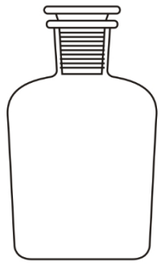
1383 GLASS MORTAR with pestle

Art No	Top Diameter (mm)	Height (mm)
1383.01	60	40
1383.02	75	40
1383.03	90	50
1383.04	120	60
1383.05	150	85
1383.06	180	96



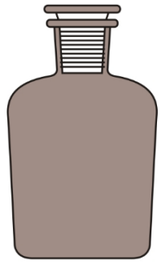
1401 REAGENT BOTTLE clear glass, narrow mouth, with ground-in glass stopper

Art No	Capacity	Height of bottle	Diameter of bottle	Diameter of neck	Quantity
	ml	mm	mm	mm	Per case
1401.01	30	76	40	18	144
1401.02	60	85	46	22	144
1401.03	125	110	57	24	144
1401.04	250	135	70	27	36
1401.05	500	172	85	33	24
1401.06	1000	202	106	38	12
1401.07	2500	270	145	48	6
1401.08	5000	338	185	58	4
1401.09	10000	430	225	68	2
1401.10	20000	520	265	82	1



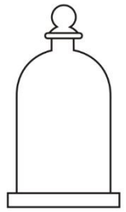
1402 REAGENT BOTTLE amber glass, narrow mouth, with ground-in glass stopper

Art No	Capacity	Height of bottle	Diameter of bottle	Diameter of neck	Quantity
	ml	mm	mm	mm	Per case
1402.01	30	76	40	18	144
1402.02	60	85	46	22	144
1402.03	125	110	57	24	144
1402.04	250	135	70	27	36
1402.05	500	172	85	33	24
1402.06	1000	202	106	38	12
1402.07	2500	270	145	48	6
1402.08	5000	338	185	58	4
1402.09	10000	430	225	68	2
1402.10	20000	520	265	82	1



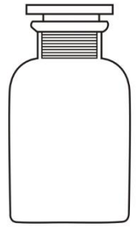
1373 BELL JAR high straight form, with ground-in glass stopper

Art No	I.D.	Inside Height	Quantity Per Case
	mm	mm	
1373.01	120	180	12
1373.02	150	200	6
1373.03	150	250	6
1373.04	180	250	6
1373.05	200	300	4
1373.06	250	400	2



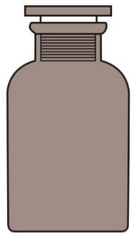
1403 REAGENT BOTTLE clear glass, wide mouth, with ground-in glass stopper

Art No	Capacity	Height of bottle	Diameter of bottle	Diameter of neck	Quantity
	ml	mm	mm	mm	
1403.01	30	72	40	25	144
1403.02	60	80	46	30	144
1403.03	125	108	57	38	144
1403.04	250	130	70	50	36
1403.05	500	165	85	58	24
1403.06	1000	188	106	65	12
1403.07	2500	260	145	90	6
1403.08	5000	330	185	110	4
1403.09	10000	415	225	125	2



1404 REAGENT BOTTLE amber glass, wide mouth, with ground-in glass stopper

Art No	Capacity	Height of bottle	Diameter of bottle	Diameter of neck	Quantity
	ml	mm	mm	mm	Per case
1404.01	30	72	40	25	144
1404.02	60	80	46	30	144
1404.03	125	108	57	38	144
1404.04	250	130	70	50	36
1404.05	500	165	85	58	24
1404.06	1000	188	106	65	12





1405 Reagent Bottle, Clear Glass, with Screw Cap

Art No	Capacity
	ml
1405.01	100
1405.02	250
1405.03	500
1405.04	1000



1406 Reagent Bottle, Amber Glass, with Screw Cap

Art No	Capacity
	ml
1406.01	100
1406.02	250
1406.03	500
1406.04	1000



Reagent Bottle,Square with Screw Cap

Art No	Capacity
	ml
1407.01	100
1407.02	250
1407.03	500
1407.04	1000

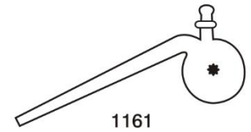


Reagent Bottle,Wide Mouth with Screw Cap

Art No	Capacity
	ml
1408.01	250
1408.02	500

1161 RETORT with ground-in glass stopper

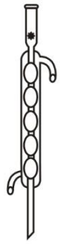
Art No	Capacity approx	Total length approx	Diameter of bulb approx	Art No	Capacity approx	Total length approx	Diameter of bulb approx
	ml	mm	mm		ml	mm	mm
1161.01	125	220	70	1161.05	2000	360	170
1161.02	250	225	86	1161.06	5000	450	228
1161.03	500	300	105	1161.07	10000	600	300
1161.04	1000	430	130				



1161

1214 CONDENSER Allihn with bulbed inner tube

Art No	Length of jacket	O.D.of upper tube	Cooling area	Length
	mm	mm	dm^2	mm
1214.01	200	18	1.0	350
1214.02	250	18	1.5	420
1214.03	300	20	1.8	480
1214.04	400	22	2.7	590
1214.05	500	24	3.7	710
1214.06	600	24	4.9	800
1214.07	800	28	7.6	1050
1214.08	1000	28	10.0	1250
1214.09	1200	33	12.7	1360
1214.10	1500	33	17.0	1720



1214

1215 CONDENSER Graham with coiled inner tube

Art No	Length of jacket	O.D.of upper tube	Coolling area	Length
	mm	mm	dm^2	mm
1215.01	200	18	2.3	350
1215.02	250	20	2.7	420
1215.03	300	20	3.3	480
1215.04	400	22	4.7	590
1215.05	500	24	7.0	710
1215.06	600	24	8.2	810



1215

1432 FILTERING FLASK with side tubulure

Art No	Capacity	Height	O.D. of base	O.D. of neck	Quantity
	ml	mm	mm	mm	Per case
1432.01	125	130	75	26	36
1432.02	250	160	90	33	60
1432.03	500	200	115	40	24
1432.04	1000	240	140	44	16
1432.05	2500	295	190	55	6
1432.06	5000	370	235	65	2
1432.07	10000	445	285	72	2





Filtering Apparatus

Art No: 1433



Culture Bottle

Art No: 1475
Capacity: 350ml



Dying Jar

Art No: 1477.01
Capacity: 9 slides



Dying Jar

Art No: 1477.02
Capacity: 10 slides



Dying Jar

Art No: 1477.03
Capacity: 30 slides



Dying Jar

Art No: 1477.04
Capacity: 60 slides



Dying Jar

Art No: 1478.01
Capacity: 3 slides



Dying Jar

Art No: 1478.02
Capacity: 5 slides



British Style Dropping Bottle, Clear

Art No	Capacity
	ml
1451A.01	30
1451A.02	60
1451A.03	125



British Style Dropping Bottle, Amber

Art No	Capacity
	ml
1451B.01	30
1451B.02	60
1451B.03	125



Dropping Bottle, Clear, with Grounded Pipette

Art No	Capacity
	ml
1451C.01	30
1451C.02	60
1451C.03	125



Dropping Bottle, Amber, with Grounded Pipette

Art No	Capacity
	ml
1451D.01	30
1451D.02	60
1451D.03	125

1451 DROPPING BOTTLE with ground-in pipette and latex rubber nipple

Art No	Capacity	O.D.of bottle	Height
	ml	mm	mm
1451.01	30	40	76
1451.02	60	46	85
1451.03	125	57	110



1451

1452 DROPPING BOTTLE Amber glass with ground-in pipette and latex rubber nipple

Art No	Length of jacket	O.D.of bottle	Height
	ml	mm	mm
1452.01	30	40	76
1452.02	60	46	85
1452.03	125	57	110



1452

1456 DROPPING PIPETTE straight up, with latex rubber nipple

Art No	Length	O.D.
	mm	mm
1456.01	90	7-8
1456.02	160	7-8



1457 DROPPING PIPETTE straight tip, with one bulb in-pipette and latex rubber nipple

Art No	Length	O.D.
	mm	mm
1457	90	7-8



1521 SAFE FUNNEL straight, thistle top

Art No	O.D.of top	O.D.of stem	Total Length
	mm	mm	mm
1521	40	7-8	350



5001 BOILING FLASK round bottom, short neck standard ground mouth

Art No	Capacity	Ground mouth	O.D.of upper tube	Height
	ml		mm	mm
5001.01	5	10/19	27	56
5001.02	5	14/23	27	60
5001.03	10	10/19	33	66
5001.04	10	14/23	33	68
5001.05	25	10/19	41	70
5001.06	25	14/23	41	75
5001.07	25	19/26	41	79
5001.08	50	14/23	53	88
5001.09	50	19/26	53	94
5001.10	50	24/29	53	97
5001.11	50	29/32	53	105
5001.12	100	14/23	65	100
5001.13	100	19/26	65	106
5001.14	100	24/29	65	109
5001.15	100	29/32	65	117
5001.16	150	19/26	76	117
5001.17	150	24/29	76	120
5001.18	250	19/26	88	134
5001.19	250	24/29	88	139
5001.20	250	29/32	88	145
5001.21	500	19/26	110	158
5001.22	500	24/29	110	161
5001.23	500	29/32	110	167
5001.24	500	34/35	100	170
5001.25	1000	19/26	140	188
5001.26	1000	24/29	140	196
5001.27	1000	29/32	140	199
5001.28	1000	34/35	140	202
5001.29	2000	14/29	175	231
5001.30	2000	29/32	175	234
5001.31	2000	34/35	175	237
5001.32	3000	29/32	199	281
5001.33	3000	34/35	199	284
5001.34	3000	40/38	199	287
5001.35	5000	40/38	235	333
5001.36	5000	50/42	235	337
5001.37	10000	50/42	297	410
5001.38	10000	60/46	297	414



5001

1522 SAFE FUNNEL with loop,thistle top

Art No	O.D.of top	O.D.of stem	Total Length
	mm	mm	mm
1522	40	7-8	350



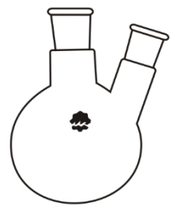
1523 SAFE FUNNEL with stopcock,thistle top

Art No	O.D.of top	O.D.of stem	Total Length
	mm	mm	mm
1523	40	7-8	350



5003 FLASK oblique shape,with two necks standard ground mouth

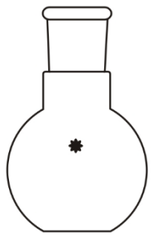
Art No	Capacity	Middle ground	Side ground mouth	Height
	ml		mm	mm
5003.01	100	19/26	14/23	106
5003.02	100	24/29	14/23	109
5003.03	250	19/26	14/23	134
5003.04	250	24/29	14/23	139
5003.05	250	24/29	19/26	139
5003.06	250	29/32	14/23	145
5003.07	250	29/32	19/26	145
5003.08	500	19/26	14/23	158
5003.09	500	24/29	14/23	161
5003.10	500	24/29	19/26	161
5003.11	500	29/32	14/23	167
5003.12	500	29/32	19/26	167
5003.13	1000	24/29	14/23	196
5003.14	1000	24/29	19/26	196
5003.15	1000	24/29	14/23	196
5003.16	1000	29/32	19/26	200
5003.17	1000	29/32	24/29	200
5003.18	1000	29/32	14/23	200
5003.19	2000	24/29	19/26	231
5003.20	2000	24/29	24/29	231
5003.21	2000	29/32	19/26	234
5003.22	2000	29/32	24/29	234



5003

5007 BOILING FLASK flat bottom,short neck standard ground mouth

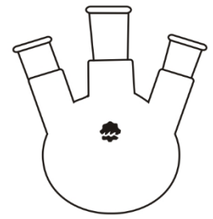
Art No	Capacity	Ground mouth	O.D.of upper tube	Height
	ml		mm	mm
5007.01	25	14/23	41	70
5007.02	50	14/23	53	88
5007.03	50	19/26	53	94
5007.04	100	14/23	65	100
5007.05	100	19/26	65	106
5007.06	100	24/29	65	109
5007.07	150	19/26	76	117
5007.08	150	24/29	76	120
5007.09	250	19/26	88	134
5007.10	250	24/29	88	139
5007.11	500	19/26	110	158
5007.12	500	24/29	110	161
5007.13	500	29/32	110	167
5007.14	1000	24/29	140	196
5007.15	1000	29/32	140	199
5007.16	2000	29/32	175	234
5007.17	2000	34/35	175	237
5007.18	5000	34/35	235	320



5007

5004 FLASK oblique shape, with three necks standard ground mouth

Art No	Capacity	Middle ground	Side ground mouth	Height
	ml		mm	mm
5004.01	100	19/26	14/23	106
5004.02	250	19/26	14/23	134
5004.03	250	19/26	19/26	134
5004.04	250	24/29	14/23	139
5004.05	250	24/29	19/26	139
5004.06	250	24/29	24/29	139
5004.07	250	29/32	14/23	145
5004.08	250	29/32	19/26	145
5004.09	500	19/26	14/23	158
5004.10	500	19/26	19/26	158
5004.11	500	24/29	14/23	161
5004.12	500	24/29	19/26	161
5004.13	500	24/29	24/29	161
5004.14	500	29/32	14/23	167
5004.15	500	29/32	19/26	167
5004.16	1000	19/29	14/23	188
5004.17	1000	19/29	19/26	180
5004.18	1000	24/29	14/23	196
5004.19	1000	24/29	19/26	196
5004.20	1000	24/29	24/29	196
5004.21	1000	29/32	14/23	200
5004.22	1000	29/32	19/26	200
5004.23	1000	29/32	24/29	200
5004.24	1000	29/32	29/32	200
5004.25	2000	24/29	24/29	231
5004.26	2000	29/32	19/26	234
5004.27	2000	29/32	24/29	234
5004.28	2000	29/32	29/32	234
5004.29	3000	29/32	24/29	281
5004.30	3000	34/35	24/29	284
5004.31	5000	40/38	24/29	333
5004.32	5000	50/42	24/29	337



5004

5009 CONICAL FLASK standard ground mouth

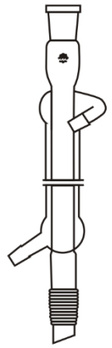
Art No	Capacity	Ground mouth	O.D.of upper tube	Height
	ml		mm	mm
5009.01	5	10/19	25	50
5009.02	5	14/23	25	50
5009.03	10	10/19	32	60
5009.04	10	14/23	32	60
5009.05	10	19/26	32	60
5009.06	25	10/19	42	65
5009.07	25	14/23	42	70
5009.08	25	19/26	42	75
5009.09	50	14/23	51	85
5009.10	50	19/26	51	85
5009.11	50	24/29	51	90
5009.12	100	14/23	64	105
5009.13	100	19/26	64	105
5009.14	100	24/29	64	105
5009.15	100	29/32	64	105
5009.16	150	19/26	71	115
5009.17	150	24/29	71	115
5009.18	250	19/26	85	135
5009.19	250	24/29	85	135
5009.20	250	29/32	85	128
5009.21	250	34/35	85	128
5009.22	500	19/26	105	170
5009.23	500	24/29	105	170
5009.24	500	29/32	105	165
5009.25	500	34/35	105	160
5009.26	1000	24/29	131	210
5009.27	1000	39/32	131	210
5009.28	1000	34/35	131	210
5009.29	2000	29/32	166	275
5009.30	2000	34/35	166	275



5009

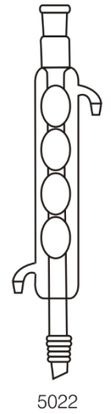
5021 CONDENSER straight shape standard ground mouth

Art No	Length of jacket	Ground mouth	Cooling area	Total length
	mm		dm^2	mm
5021.01	80	10/19	0.16	165
5021.02	80	14/23	0.16	175
5021.03	150	14/23	0.6	254
5021.04	200	14/23	1.0	305
5021.05	200	19/26	1.0	332
5021.06	200	24/29	1.0	350
5021.07	200	29/32	1.0	360
5021.08	300	19/26	1.6	432
5021.09	300	24/29	1.6	450
5021.10	300	29/32	1.6	460
5021.11	400	19/26	2.1	535
5021.12	400	24/29	2.1	555
5021.13	400	29/32	2.1	560
5021.14	500	19/26	2.7	532
5021.15	500	24/29	2.7	650
5021.16	500	29/32	2.7	660
5021.17	600	19/26	3.2	735
5021.18	600	24/29	3.2	735
5021.19	600	29/32	3.2	760



5022 CONDENSER with bulbed inner tube standard ground mouth

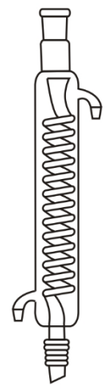
Art No	Length of jacket	Ground mouth	Cooling area	Total length
	mm		dm^2	mm
5022.01	150	14/23	0.6	235
5022.02	200	14/23	1.1	295
5022.03	200	19/26	1.1	330
5022.04	200	24/29	1.1	350
5022.05	200	29/32	1.1	360
5022.06	300	14/23	1.6	405
5022.07	300	19/26	1.6	430
5022.08	300	24/29	1.6	450
5022.09	300	29/32	1.6	460
5022.10	400	19/26	2.2	530
5022.11	400	24/29	2.2	550
5022.12	400	29/32	2.2	560
5022.13	500	19/26	3.0	630
5022.14	500	24/29	3.0	650
5022.15	500	29/32	3.0	660
5022.16	600	19/26	3.7	730
5022.17	600	26/29	3.7	750
5022.18	600	29/32	3.7	760



5022

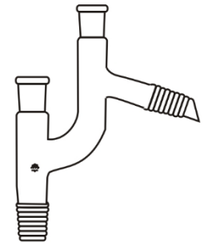
5023 CONDENSER with coiled inner tube standard ground mouth

Art No	Length of jacket	Ground mouth	Cooling area	Total length
	mm		dm^2	mm
5023.01	150	14/23	1.2	235
5023.02	200	14/23	2.3	295
5023.03	200	19/26	2.3	330
5023.04	200	24/29	2.3	350
5023.05	300	19/26	3.5	430
5023.06	300	24/29	3.5	450
5023.07	300	29/32	3.5	460
5023.08	400	19/26	4.7	530
5023.09	400	24/29	4.7	550
5023.10	400	29/32	4.7	560
5023.11	500	19/26	5.7	630
5023.12	500	24/29	5.7	650
5023.13	500	29/32	5.7	660
5023.14	600	19/26	7.7	730
5023.15	600	24/29	7.7	750
5023.16	600	29/32	7.7	760



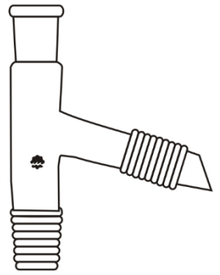
5034 DISTILLING HEAD standard ground mouth

Art No	Upper ground mouth	Side ground mouth	Lower ground stopper	Oblique ground stopper
5034.01	10/19	10/19	10/19	10/19
5034.02	14/23	14/23	14/23	14/23
5034.03	14/23	14/23	14/23	19/26
5034.04	14/23	14/23	14/23	24/29
5034.05	19/26	19/26	19/26	19/26
5034.06	24/29	24/29	24/29	24/29
5034.07	29/32	29/32	29/32	29/32



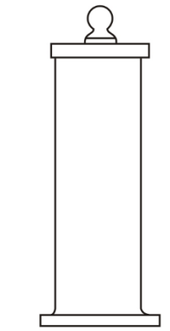
5035 DISTILLING HEAD standard ground mouth

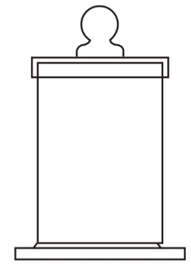
Art No	Upper ground mouth	Lower ground stopper	Oblique ground stopper
	10/19	10/19	10/19
5035.01	14/23	14/23	14/23
5035.02	14/23	19/26	19/26
5035.03	14/23	24/29	19/26
5035.04	14/23	24/29	24/29
5035.05	14/23	29/32	24/29
5035.06	14/23	29/32	29/32
5035.07	14/23	34/35	24/29
5035.08	19/26	19/26	19/26
5035.09	19/26	24/29	24/29
5035.10	19/26	29/32	29/32
5035.11	24/29	24/35	24/29
5035.12	29/32	29/32	29/32



1471 SPECIMEN JAR with ground-in glass stopper and knob

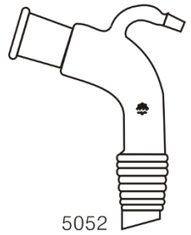
Art No	Height	Diameter of body	Qty.Per case	Art No	Height	Diameter of body	Quantity.
	mm	mm			mm	mm	Per case
1471.01	90	45	72	1471.25	300	90	18
1471.02	120	45	72	1471.26	150	120	12
1471.03	150	45	48	1471.27	180	120	8
1471.04	180	45	48	1471.28	210	120	8
1471.05	210	45	48	1471.29	240	120	8
1471.06	240	45	36	1471.30	300	120	8
1471.07	90	60	48	1471.31	180	150	6
1471.08	120	60	48	1471.32	210	150	6
1471.09	150	60	48	1471.33	240	150	6
1471.10	180	60	48	1471.34	300	150	6
1471.11	210	60	24	1471.35	400	150	6
1471.12	240	60	24	1471.36	180	180	6
1471.13	300	60	24	1471.37	210	180	6
1471.14	120	75	48	1471.38	240	180	6
1471.15	150	75	48	1471.39	300	180	6
1471.16	180	75	24	1471.40	400	180	4
1471.17	210	75	24	1471.41	210	210	4
1471.18	240	75	24	1471.42	240	210	4
1471.19	300	75	24	1471.43	300	210	2
1471.20	120	90	24	1471.44	400	210	2
1471.21	150	90	24	1471.45	240	240	2
1471.22	180	90	24	1471.46	300	240	2
1471.23	210	90	24	1471.47	400	240	2
1471.24	240	90	24				





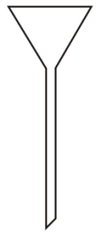
5052 RECEIVING TUBE 105° standard ground mouth

Art No:	ground mouth	ground stopper
5052.01	10/19	10/19
5052.02	14/23	14/23
5052.03	19/26	19/26
5052.04	24/29	19/26
5052.05	24/29	24/29
5052.06	29/32	29/32


5052

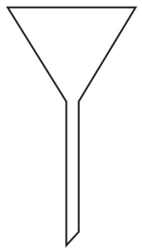
1503 STANDARD FUNNEL 60° approx, long stem

Art No	Diameter	Length of stem	Quantity
	mm	mm	Per case
1503.01	50	150	192
1503.02	60	150	144
1503.03	75	150	96
1503.04	90	150	72



1504 STANDARD FUNNEL 60° approx, short stem

Art No	Diameter	Length of stem	Quantity
	mm	mm	Per case
1504.01	40	40	288
1504.02	50	50	288
1504.03	60	60	144
1504.05	75	75	96
1504.06	90	90	72
1504.07	100	100	72
1504.08	120	120	48
1504.09	150	150	24



1542 SEPARATORY FUNNEL globe shape, with ground-in glass stopper and stopcock

Art No	Capacity	O.D. of body	Total Length	Diameter of stem	Quantity
	ml	ml	mm	mm	
1542.01	60	55	270	7	60
1542.02	125	67	290	7	48
1542.03	250	84	315	8	32
1542.04	500	100	355	9	24
1542.05	1000	130	425	10	12



1543 SEPARATORY FUNNEL pear shape, with ground-in glass stopper and stopcock

Art No	Capacity	O.D.of body	Total Length	Dia.of stem	I.D.of neck	Qty.
	ml	mm	mm	mm	mm	Per case
1543.01	60	48	205	7	14	60
1543.02	125	67	260	7	19	48
1543.03	250	74	310	8	19	32
1543.04	500	90	355	9	24	24
1543.05	1000	120	430	10	29	12



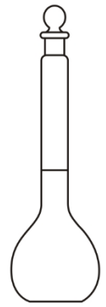
1601 MEASURING CYLINDER with spout

Art No	Capacity	Height	O.D.	Graduated Inetrval	Quantity
	ml	mm	mm	lm	per case
1601.01	10	150	13	0.2	288
1601.02	25	170	20	0.5	288
1601.03	50	195	25	1	96
1601.04	100	250	30	2	72
1601.05	250	320	40	5	48
1601.06	500	360	54	5	24
1601.07	1000	440	65	10	12
1601.08	2000	500	90	20	6



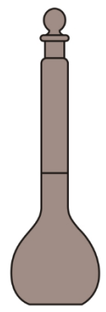
1621 VOLUMETRIC FLASK graduated one mark, with ground-in glass stopper, clear

Art No	Capacity	Height	O.D. of body	O.D. of neck	Quantity
	ml	mm	mm	mm	Per case
1621.01	10	100	28	9	288
1621.02	25	112	38	10	288
1621.03	50	140	46	11	288
1621.04	100	180	59	12	144
1621.05	250	255	80	14	72
1621.06	500	250	101	17	48
1621.07	1000	320	126	19	12
1621.08	2000	370	157	24	6



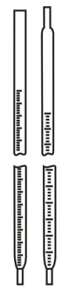
1622 VOLUMETRIC FLASK graduated one mark, with ground-in glass stopper, amber

Art No	Capacity	Height	O.D. of body	O.D. of neck	Quantity
	ml	mm	mm	mm	Per case
1622.01	10	100	28	9	288
1622.02	25	112	38	10	288
1622.03	50	140	46	11	288
1622.04	100	180	59	12	144
1622.05	250	255	80	14	72
1622.06	500	250	101	17	48
1622.07	1000	320	126	19	12
1622.08	2000	370	157	24	6



1631 MEASURING PIPETTE with coding band

Art No	Capacity	Length	Graduatedinterver	Quantuty Per case
	ml	mm	mm	
1631.01	0.1	320	0.001	600
1631.02	0.2	320	0.002	600
1631.03	0.25	320	0.0025	600
1631.04	0.5	320	0.005	600
1631.05	1	320	0.01	600
1631.06	2	320	0.02	480
1631.07	5	330	0.05	480
1631.08	10	330	0.1	480
1631.09	25	500	0.1	240
1631.10	50	750	0.1	120



1633 VOLUMETRIC PIPETTE with one mark

Art No	Capacity	Length	O.D. of lower tube	Quantity Per case
	ml	mm	mm	
1633.01	1	300	4	240
1633.02	2	300	4	240
1633.03	5	400	5	180
1633.04	10	450	6	180
1633.05	15	500	6	180
1633.06	20	530	6	120
1633.07	25	530	6	120
1633.08	50	570	7	60
1633.09	100	600	7	60



1641 BURETTE with rubber tubing connection, glass bead and glass tip

Art No	Capacity	Length	O.D.	Graduated inetrval	Quantity
	ml	mm	mm	ml	Per case
1641.01	10	45	9	0.05	120
1641.02	25	55	12	0.1	120
1641.03	50	75	13	0.1	120
1641.04	100	800	18	0.2	120



1642 BURETTE with straight stopcock

Art No	Capacity	Length	O.D.	Graduated Interval	Quantity
	ml	mm	mm	ml	Per case
1642.01	10	450	9	0.05	48
1642.02	25	550	12	0.1	48
1642.03	50	750	13	0.1	48
1642.04	100	800	18	0.2	48



1647 BURETTE amber glass, with rubber tubing connection, glass bead and tips

Art No	Capacity	Length	O.D.	Graduated Interval	Quantity
	ml	mm	mm	ml	Per case
1647.01	10	450	9	0.05	120
1647.02	25	550	12	0.1	120
1647.03	50	750	13	0.1	100
1647.04	100	800	18	0.2	120



1648 BURETTE amber glass, with straight stopcock

Art No	Capacity	Length	O.D.	Graduated Interval	Quantity
	ml	mm	mm		Per case
1648.01	10	450	9	0.05	60
1648.02	25	550	12	0.1	60
1648.03	50	750	13	0.1	60
1648.04	100	800	18	0.2	60



Test tube, with screw cap

Art No:	Size	Cap
C05001.01	dia 13x100	Blue
C05001.02	dia 13x100	Black
C05001.03	dia 16x160	Blue
C05001.04	dia 16x160	Black
C05001.05	dia 18x180	Blue
C05001.06	dia 18x180	Black
C05001.07	dia 16x100	Blue
C05001.08	dia 16x100	Black
C05001.09	dia 18x150	Blue
C05001.10	dia 18x150	Black
C05001.11	dia 20x150	Blue
C05001.12	dia 20x150	Black
C05001.13	dia 25x150	Blue
C05001.14	dia 25x150	Black





Filter Paper

Filter Paper,Round,Pk/100

Art No:C05002	
Art No:C05002.01,	7cm diameter
Art No:C05002.02,	9cm diameter
Art No:C05002.03,	11cm diameter
Art No:C05002.04,	12.5cm diameter
Art No:C05002.05,	15cm diameter
Art No:C05002.06,	18cm diameter
Art No:C05002.07,	24cm diameter
Art No:C05002.08,	32cm diameter





PH Paper

Art No: C05003. 01



PH Paper

Art No: C05003. 02



Economical Hoffman Electrolysis Apparatus

Art No: C05006



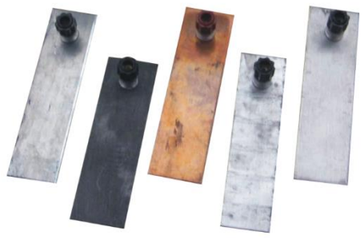
Electrolysis Apparatus

Art No: C05007



Deluxe Hoffman Electrolysis Apparatus

Art No: C05004.03
50ml with platinum electrode
Art No: C05004.04
60ml with graphite and platinum electrodes



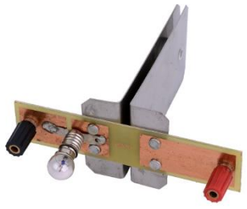


Conductivity of Solutions Apparatus

Art No: C05009

Electrodes

Art No:
C05008.01 Copper
C05008.02 Brass
C05008.03 Aluminium
C05008.04 Lead
C05008.05 Zinc
C05008.06 Iron
Size: 72x25x3mm. With socket.



Conductivity of Solutions Apparatus

Art No: C05010



Brownlee Electrolysis Apparatus

Art No: C05012



Brownlee Electrolysis Apparatus

Art No: C05013



Demonstrator of Hydroxyl Ion to Generate Electricity

Art No: C05014
Size: 210x100x55mm



Solid Conductive & Non-conductive Materials Set

Art No: C05015



Hydrogen Cell Car Model

Art No: C06001



Hydrogen Cell Car Model

Art No: C06002



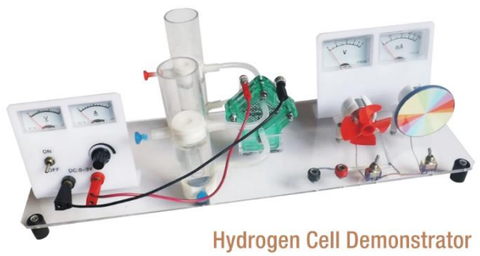
Hydrogen Cell Demonstrator

Art No: C06003



Hydrogen Cell Car Model

Art No: C06004



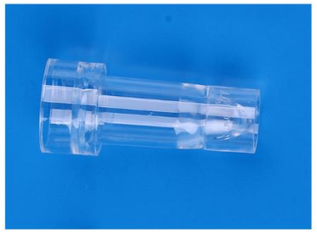
Hydrogen Cell Demonstrator

Art No: C06005



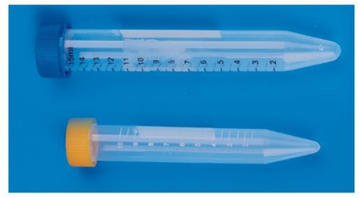
Test Tube,PS Test Tube,PP

Art No:P001	Art No:P002
P001.01, 12x55mm	P002.01, 12x75mm
P001.02, 12x60mm	P002.02, 13x78mm
P001.03, 12x75mm	P002.03, 12x100mm
P001.04, 13x75mm	P002.04, 15x100mm
P001.05, 13x78mm	
P001.06, 12x100mm	
P001.07, 15x100mm	
P001.08, 16x100mm	



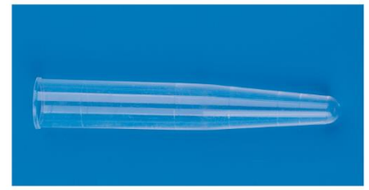
Sample Cup

Art No:P005	
P005.01	For Hitachi 7150,7060,16x38mm
P005.02	For Beckman CX series,13x24mm
P005.03	For Beckman 700/Dupont,14x25mm
P005.04	For Kodak 13x20mm
P005.05	For American IL 13x17mm
P005.06	For American Corning 550, 560,12x20mm



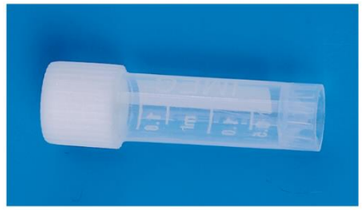
Centrifuge Tube

Art No:P008	
Art No:P008.01,	10ml
Art No:P008.02,	15ml
Art No:P008.03,	50ml
Cap colors:	blue,green and orange available.



Conical Test Tube

Art No:P003	
Art No:P003.01,	Conical Test Tube,PS,16X102
Art No:P003.02,	Conical Test Tube,PP,16X102



Cyrotube

Art No:P006	
Art No:P006.01,	1.8ml
Art No:P006.02,	5ml



Pediatric Blood Collection Tube

Art No:P009	
Art No:P009.01,	EDTA K2 Tube,0.5ml
Art No:P009.02,	Heparin Lithium Tube,0.5ml
Art No:P009.03,	Heparin Sodium Tube,0.5ml
Art No:P009.04,	Plain Tube,0.5ml
Art No:P009.05,	Separation GEL Tube,0.5ml



Pediatric Blood Collection Tube

Art No:P010	
No:P010.01,	EDTA K2 Tube,0.5ml
No:P010 02,	EDTA K3 Tube,0.5ml



Microcentrifuge Tube(PCR Tube)

Art No:P004	
Art No:P004.01,	0.2ml
Art No:P004.02,	0.5ml
Art No:P004.03,	1.5ml
Art No:P004.04,	2ml
Variety of colors available	



Centrifuge Tube

Art No:P007	
Art No:P007.01,	5ml
Art No:P007.02,	7ml
Art No:P007 03,	10ml



Vacuum Blood Collection Tube

Art No:P011	
Art No:P011.01,	Plain Tube,13x75mm,3ml
Art No:P011.02,	Plain Tube,13x75mm,4ml
Art No:P011.03,	Plain Tube,13x75mm,5ml
Art No:P011.04,	Plain Tube,13x100mm,6ml
Art No:P011.05,	Plain Tube,13x100mm,7ml
Art No:P011.06,	Plain Tube,16x100mm,8ml
Art No:P011.07,	Plain Tube,16x100mm,9ml
Art No:P011.08,	Plain Tube,16x100mm,10ml
Glass and PET for option.	



Vacuum Blood Collection Tube, Clot Activator

Art No:P012	
Art No:P012.01,	Clot Activator Tube,13x75mm,3ml
Art No:P012.02,	Clot Activator Tube,13x75mm,4ml
Art No:P012.03,	Clot Activator Tube,13x75mm,5ml
Art No:P012.04,	Clot Activator Tube,13x100mm,6ml
Art No:P012.05,	Clot Activator Tube,13x100mm,7ml
Glass and PET for option.	



Vacuum Blood Collection Tube, EDTA

Art No:P016	
Art No:P016.01,	EDTA K2 Tube,13x75mm,1ml
Art No:P016.02,	EDTA K2 Tube,13x75mm,2ml
Art No:P016.03,	EDTA K2 Tube,13x75mm,3ml
Art No:P016.04,	EDTA K2 Tube,13x75mm,4ml
Art No:P016.05,	EDTA K2 Tube,13x75mm,5ml
Art No:P016.06,	EDTA K2 Tube,13x100mm,6ml
Art No:P016.07,	EDTA K2 Tube,13x100mm,7ml
Art No:P016.08,	EDTA K2 Tube,16x100mm,10ml
Art No:P016.09,	DTA K3 Tube,13x75mm,1ml
Art No:P016.10,	DTA K3 Tube,13x75mm,2ml
Art No:P016.11,	DTA K3 Tube,13x75mm,3ml
Art No:P016.12,	DTA K3 Tube,13x75mm,4ml
Art No:P016.13,	DTA K3 Tube,13x75mm,5ml
Art No:P016.14,	DTA K3 Tube,13x100mm,6ml
Art No:P016.15,	DTA K3 Tube,13x100mm,7ml
Art No:P016.16,	DTA K3 Tube,16x100mm,10ml
Glass and PET for option.	



Vacuum Blood Collection Tube, Sodium Citrate

Art No:P017	
Art No:P017.01,	Sodium Citrate Tube,13x75mm,1.8ml
Art No:P017.02,	Sodium Citrate Tube,13x75mm,2.7ml
Art No:P017.03,	Sodium Citrate Tube,13x75mm,3.6ml
Art No:P017.04,	Sodium Citrate Tube,13x75mm,4.5ml



Vacuum Blood Collection Tube, GEL

Art No:P013	
Art No:P013.01,	GEL & Clot Activator Tube,13x75mm,3ml
Art No:P013.02,	GEL & Clot Activator Tube,13x75mm,4ml
Art No:P013.03,	GEL & Clot Activator Tube,13x100mm,5ml
Art No:P013.04,	GEL & Clot Activator Tube,13x100mm,6ml
Art No:P013.05,	GEL & Clot Activator Tube,16x100mm,7ml
Art No:P013.06,	GEL & Clot Activator Tube,16x100mm,9ml
Glass and PET for option.	



Vacuum Blood Collection Tube, Heparin

Art No:P014	
Art No:P014.01,	Heparin Sodium Tube,13x75mm,3ml
Art No:P014.02,	Heparin Sodium Tube,13x75mm,4ml
Art No:P014.03,	Heparin Sodium Tube,13x75mm,5ml
Art No:P014.04,	Heparin Sodium Tube,13x100mm,7ml
Art No:P014.05,	Heparin Sodium Tube,16x100mm,10ml
Art No:P014.06,	Heparin Lithium Tube,13x75mm,3ml
Art No:P014.07,	Heparin Lithium Tube,13x75mm,4ml
Art No:P014.08,	Heparin Lithium Tube,13x75mm,5ml
Art No:P014.09,	Heparin Lithium Tube,13x100mm,7ml
Art No:P014.10,	Heparin Lithium Tube,16x100mm,10ml
Glass and PET for option.	



Vacuum Blood Collection Tube, Glucose

Art No:P015	
Art No:P015.01,	Sodium Fluoride Tube,13x75mm,2ml
Art No:P015.02,	Sodium Fluoride Tube,13x75mm,3ml
Art No:P015.03,	Sodium Fluoride Tube,13x75mm,4ml
Art No:P015.04,	Sodium Fluoride Tube,13x75mm,5ml
Art No:P015.05,	Sodium Fluoride Tube,13x100mm,6ml
Art No:P015.06,	Sodium Fluoride Tube,13x100mm,7ml
Art No:P015.07,	Sodium Fluoride Tube,16x100mm,10ml



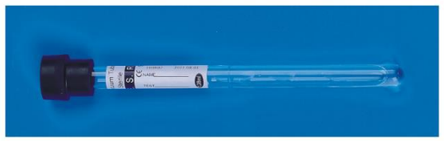
Plain Swab

Art No:P018	
Art No:P018.01,	Plain Swab,Plastic Stick
Art No:P018.02,	Plain Swab,Wooden Stick
Art No:P018.03,	Plain Swab,Bamboo Stick



Test Tube

Art No:P020	
Art No:P020.01	Test Tube,Screw Cap,Flat Bottom,5ml
Art No:P020.02	Test Tube,Screw Cap,Flat Bottom,10ml
Colors available:	blue,green,red,yellow,white,purple



ESR Tube

Art No:P022
ESR Tube,Sodium Citrate,
8x120mm,1.28ml



Stool Container

Art No:P024	
Art No:P024.01,	Stool Container,60ml
Art No:P024.02,	Stool Container,30ml



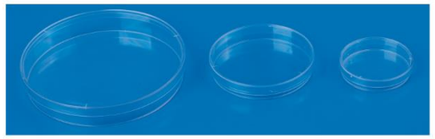
Urine Container

Art No:P025	
Art No:P025.01,	Urine Container,120ml
Art No:P025.02,	Urine Container,60ml
Art No:P025.03,	Urine Container,30ml



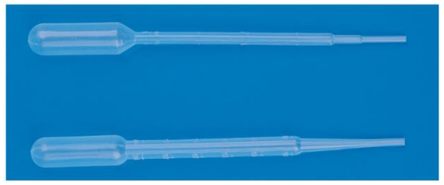
Swab with Media

Art No:P019,Swab with Media,Plastic Stick



Petri Dish

Art No:P021	
Art No:P021.01,	Petri Dish,35mm Dia.
Art No:P021.02,	Petri Dish,60mm Dia.
Art No:P021.03,	Petri Dish,90mm Dia.
Art No:P021.04,	Petri Dish,150mm Dia.
Art No:P021.05,	Petri Dish,2 Sections,90mm Dia.
Art No:P021.06,	Petri Dish,3 Sections,90mm Dia.



Pasteur Pipette

Art No:P023	
Art No:P023.01,	Pasteur Pipette,1ml
Art No:P023.02,	Pasteur Pipette,2ml
Art No:P023.03,	Pasteur Pipette,3ml



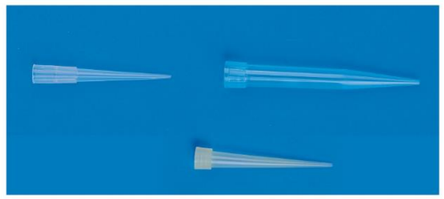
Test Tube Stopper

Art No:P026	
Art No:P026.01,	Test Tube Stopper,12mm Dia.
Art No:P026.02,	Test Tube Stopper,13mm Dia.
Art No:P026.03,	Test Tube Stopper,16mm Dia.
Colors available:	blue,green and red.



Inoculation Loop

Art No:P027	
Art No:P027.01,	Inoculation Loop,1ul
Art No:P027.02,	Inoculation Loop,10ul



Tips

Art No:P029	
Art No:P029.01,	Tip for Eppendorf,10ul,white
Art No:P029.02,	Tip for Gilson,10ul,white
Art No:P029.03,	Tip for Finn,10ul,white
Art No:P029.04,	Tip for Gilson,20ul,white
Art No:P029.05,	Tip for Eppendorf,200ul,yellow
Art No:P029.06,	Tip for Gilson,200ul,yellow
Art No:P029.07,	Tip for Gilson,200ul,white
Art No:P029.08,	Tip for Finn,200ul,white
Art No:P029.09,	Tip for Eppendorf,1000ul,blue
Art No:P029.10,	Tip for Gilson,1000ul,blue
Art No:P029.11,	Tip for Finn,1000ul,blue



Reagent Bottle

Art No:P031	
Art No:P031.01,	Reagent Bottle,30ml
Art No:P031.02,	Reagent Bottle,60ml
Art No:P031.03,	Reagent Bottle,100ml
Art No:P031.04,	Reagent Bottle,125ml
Art No:P031.05,	Reagent Bottle,250ml
Art No:P031.06,	Reagent Bottle,500ml
Art No:P031.07,	Reagent Bottle,1000ml
Art No:P031.08,	Reagent Bottle,1200ml



Wash Bottle

Art No:P028	
Art No:P028.01,	Wash Bottle,125ml
Art No:P028.02,	Wash Bottle,250ml
Art No:P028.03,	Wash Bottle,500ml
Art No:P028.04,	Wash Bottle,1000ml



Plastic Funnel

Art No:P030	
Art No:P030.01,	Plastic Funnel,30mm
Art No:P030.02,	Plastic Funnel,40mm
Art No:P030.03,	Plastic Funnel,50mm
Art No:P030.04,	Plastic Funnel,60mm
Art No:P030.05,	Plastic Funnel,70mm
Art No:P030.06,	Plastic Funnel,90mm
Art No:P030.07,	Plastic Funnel,100mm
Art No:P030.08,	Plastic Funnel,120mm
Art No:P030.09,	Plastic Funnel,150mm
Art No:P030.10,	Plastic Funnel,200mm



Aspirator Bottle

Art No:P032	
Art No:P032.01,	Aspirator Bottle,5L
Art No:P032.02,	Aspirator Bottle,10L
Art No:P032.03,	Aspirator Bottle,25L
Art No:P032.04,	Aspirator Bottle,50L



Tri-Corner Beaker

Art No:P033	
Art No:P033.01,	Tri-Corner Beaker,50ml
Art No:P033.02,	Tri-Corner Beaker,100ml
Art No:P033.03,	Tri-Corner Beaker,250ml
Art No:P033.04,	Tri-Corner Beaker,400ml
Art No:P033.05,	Tri-Corner Beaker,800ml
Art No:P033.06,	Tri-Corner Beaker,1000ml



Plastic Beaker

Art No:P035	
Art No:P035.01,	Plastic Beaker,10ml
Art No:P035.02,	Plastic Beaker,25ml
Art No:P035.03,	Plastic Beaker,50ml
Art No:P035.04,	Plastic Beaker,100ml
Art No:P035.05,	Plastic Beaker,150ml
Art No:P035.06,	Plastic Beaker,250ml
Art No:P035.07,	Plastic Beaker,500ml
Art No:P035.08,	Plastic Beaker,1000ml
Art No:P035.09,	Plastic Beaker,2000ml
Art No:P035.10,	Plastic Beaker with Handle,250ml
Art No:P035.11,	Plastic Beaker with Handle,500ml
Art No:P035.12,	Plastic Beaker with Handle,1000ml
Art No:P035.13,	Plastic Beaker with Handle,2000ml



Biohazard Bag,Double Pocket

Art No:P038
Biohazard Bag,Double Pocket
Sizes upon request



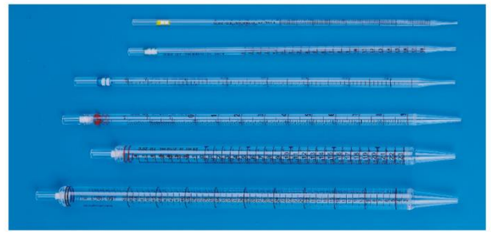
Autoclave Bag

Art No: P039
Sizes upon request



Plastic Measuring Cylinder

Art No:P034	
Art No: P034.01,	Plastic Measuring Cylinder,10ml
Art No: P034.02,	Plastic Measuring Cylinder,25ml
Art No: P034.03,	Plastic Measuring Cylinder,50ml
Art No: P034.04,	Plastic Measuring Cylinder,100ml
Art No: P034.05,	Plastic Measuring Cylinder,250ml
Art No: P034.06,	Plastic Measuring Cylinder,500ml
Art No: P034.07,	Plastic Measuring Cylinder,1000ml



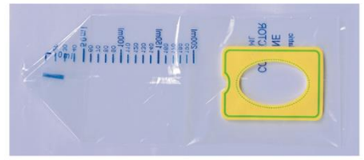
Serogical Pipette

Art No	Material	Length	Volume	Color Code
P036.01	PS	278mm	1ml	Yellow
P036.02	PS	278mm	2ml	Green
P036.03	PS	347mm	5ml	Blue
P036.04	PS	343mm	10ml	Red
P036.05	PS	310mm	25ml	Purple
P036.06	PS	365mm	50ml	Black

ESR Pipette and Tube Set

Art No:P037
Art No:P037.01
Art No:P037.02
Art No:P037.03





Paediatric Urine Bag

Art No: P040



Rain Gauge

Art No: P041
Made of PS, measures up to 120mm (5") of rainfall.
Size: 250x47x27mm



Spot Plate, 12 Cavity, PP

Art No: P044



Pipette Filler

Art No: P047.01, made of natural rubber
Art No: P047.02, made of silicone rubber



Flask Stand, PP

Art No: P048.01 Diameter 90mm
Art No: P048.02 Diameter 160mm



Polystyrene Cuvette

Art No: P046



Buchner Funnel, PP

Art No	Top O.D.(mm)	Filter Paper Size(mm)	Capacity(ml)
P045.01	59	55	80
P045.02	76	701	180
P045.03	93	90	350
P045.04	130	110	900
P045.05	172	150	2900



Volumetric Flask, PP

Art No: P042	
Art No: P042.01	Capacity: 25ml
Art No: P042.02	Capacity: 50ml
Art No: P042.03	Capacity: 100ml
Art No: P042.04	Capacity: 250ml
Art No: P042.05	Capacity: 500ml
Art No: P042.06	Capacity: 1000ml



Erlenmeyer Flask, PP

Wide-mouth, conical flask, made of polypropylene,comes with a screw cap.

Art No: P043.01	Capacity: 25ml
Art No: P043.02	Capacity: 50ml
Art No: P043.03	Capacity: 100ml
Art No: P043.04	Capacity: 250ml
Art No: P043.05	Capacity: 500ml
Art No: P043.06	Capacity: 1000ml



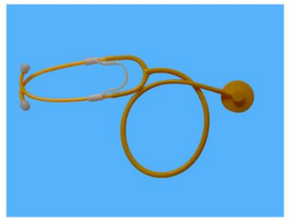
Single Head Stethoscope

Art No: MED01001



Dual Head Stethoscope

Art No:MED01002



Plastic Single Head Stethoscope

Art No:MED01004



Dual Head Stethoscope for Teaching

Art No: MED01005



Aneroid Sphygmomanometer

Art No:MED02001



Desk Sphygmomanometer

Art No:MED02002
Desk Sphygmomanometer,Aluminum

Recloser Sphygmomanometer

Art No: MED02003



Desk Sphygmomanometer

Art No: MED02004
Desk Sphygmomanometer,
Die-Casting Aluminum





Pneumatometer

Art No: MED02005



Digital Blood Pressure Monitor

Art No: MED02006
Display type: Digital form
Measure method: Oscillometry
Measure range: Blood pressure: 0-300mmHg(0-40kpa)
Pulse:40/min-200/min
Memory: 10sets
Accuracy: Blood pressure: ±3mmHg Pulse:±5%



Blood Glucose Test Meter

Art No: MED02007
Comes with 25 test strips and lancets
Measuring range: 2.2-27.8mmol/L (40-500mg/dl)
Measuring time: 20s
Memory capacitance: 30
Life of test strips: 12 months
Volume of blood: 3ul



Digital Arm Blood Pressure Monitor

Art No: MED02008
Type: Arm sphygmomanometer
Arm Band Size: 490mmx150mm
Arm Weight: 123.5g
Air Tube Length: 600mm
Display: LCD digital display screen
Measuring Range: Blood pressure 20~255mmHg
Pulse of 40 to 165 beats / min
Pressurized Ways: pressurized air pump Smart
Decompression: Electromagnetic valve control decompression
Measurement Error: blood pressure, heart rate of±3%±5%
Memory Capacity: 90 sets of measurement data memory and time
Pressure Sensors: semiconductor pressure sensor
Power Supply: 4x AAA batteries/ adapter
Measurement Interval: 1mmHg
Operating Temperature and Humidity: +10℃~+40℃/40%~85% RH
Saving Temperature and Humidity: -20 ~℃+50℃/15%~90% RH



Digital Arm Blood Pressure Monitor

Art No: MED02009
Digital Arm Blood Pressure Monitor
Type: Arm sphygmomanometer
Arm Band Size: 22~32cm
Arm Weight: 123.5g
Display: LCD digital display screen
Measuring Range: Blood pressure 0~280mmHg
Pulse of 40 to 199 beats/min
Pressurized Ways: Pressurized air pump Smart
Decompression: Electromagnetic valve control decompression
Measurement Error: Blood pressure, heart rate of ± 3% ± 5%
Memory Capacity: 90 sets of measurement data memory and time
Pressure Sensors: Semiconductor pressure sensor
Power Supply: 4x AA batteries/ adapter
Measurement Interval: 1mmHg
Operating Temperature and Humidity: +10℃~+40℃/40%~85% RH
Saving Temperature and Humidity: -20 ~℃+50℃/15%~90% RH



Digital Wrist Blood Pressure Monitor

Art No: MED02012
Type: Wrist Blood Pressure Monitor
Wrist Band Size: 260x83x0.5mm
Wrist Strap Weight: 100g
Display: LCD digital display screen
Measuring Range: 20-280mmHg blood pressure,
pulse 40-165 beats/min
Pressurized Way: Automatic pressurization method
Vacuum Modes: Fully automatic decompression
Measurement Error: Blood pressure, heart rate of ± 3% ± 5%
Memory Capacity: 90 groups of measurement data memory and time
Pressure Sensors: semiconductor pressure sensor
Power Supply: 2 AAA batteries
Measurement Interval: 1mmHg
Operating Temperature and Humidity: +10℃~+40℃/40%~85% RH
Saving Temperature and Humidity: -20~℃+50℃/15%~90% RH



Digital Wrist Blood Pressure Monitor

Art No: MED02013
Type: Wrist Blood Pressure Monitor
Wrist Band Range:135~195mm
Display: LCD digital display screen
Measuring Range: 0-280mmHg blood pressure,
pulse 40-199 beats/min
Pressure Mode: Pump pressurized automatically
Decompression: Solenoid valve control decompression
Measurement Error: Blood pressure±3%; heart rate: ±5%
Memory Capacity: Double 90 groups of measurement date and time can be memorized
Pressure Sensors: semiconductor pressure sensor
Power supply: 2 AAA batteries
Measurement Intervals: 1mmHg
Operating Temperature and Humidity: +10℃~+40℃/40%~85% RH
Saving Temperature and Humidity: -20~℃+50℃/15%~90% RH



Digital Wrist Blood Pressure Monitor

Art No: MED02010
Type: Wrist blood pressure Monitor(automatic precision)
Wrist Band Size: 135~195mm
Wrist Strap Weight: 123.5g
Display: LCD digital display screen
Measuring Range: Blood pressure 20~255mmHg
Pulse of 40 to 165 beats/min
Pressurized way: Gas pump automatic pressure
Decompression: Electromagnetic valve control decompression
Measurement Error: Blood pressure, heart rate of ±3%±5%
Memory Capacity: Can memorize 60 sets of measuremen data and time
Pressure Sensors: Semiconductor pressure sensor
Power Supply: 2 AAA batteries
Measurement Interval: 1mmHg
Operating Temperature and Humidity: +10℃~+40℃/40%~85% RH
Saving Temperature and Humidity: -20 ~℃+50℃/15%~90% RH



Digital Wrist Blood Pressure Monitor

Art No: MED02011
Type: Wrist blood pressure monitor (automatic)
Wrist Size: 135~195mm
Display: LCD digital display screen
Measurement Range: Blood pressure 0~280mmHg
Pulse 40~199 times/minute
Pressure: Pump automatic pressure
Decompression: Solenoid valve control decompression
Measurement Error: Blood pressure 3% heart rate 5%
Memory Capacity: Can memorize 90 groups of measurement data and time
Pressure Sensing: Semiconductor pressure sensor
Power: 2x AAA batteries
Measurement Interval: 1mmHg
Operating Temperature and Humidity: +10℃~+40℃/40%~85% RH
Saving Temperature and Humidity: -20 ~℃+50℃/15%~90% RH



Digital Wrist Blood Pressure Monitor

Art No: MED02014
Type: Wrist blood pressure monitor (automatically)
Wrist Band Range: 135~195mm
Wrist Strap Quality: 123.5g
Display: LCD digital display screen
Measuring Range: Blood pressure 20~255mmHg
Pulse of 40 to 165 beats/min
Pressurized way: Gas pump automatic pressure
Decompression: Electromagnetic valve control decompression
Measurement Error: Blood pressure, heart rate of ± 3% ± 5%
Memory Capacity: Can memorize 60 sets of measurement data and time
Pressure Sensors: Semiconductor pressure sensor
Power Supply: 2x AAA batteries
Measurement Interval: 1mmHg
Operating Temperature and Humidity: +10 ℃~+40 ℃/40%~85% RH
Saving Temperature and Humidity: -20~℃+50 ℃/15%~90% RH



Digital Wrist Blood Pressure Monitor

Art No: MED02015
Type: Wrist blood pressure monitor (smart)
Wrist Band Range: 135mm~195mm
Display: LCD digital display screen
Measuring Range: 20-280mmHg blood pressure,
Pulse 40-165 beats /min
Pressurized Way: Smart pressurized way
Vacuum Modes: Fully automatic decompression
Measurement Error: Blood pressure, heart rate of ±3%±5%
Memory Capacity: 90 groups of measurement data can be memorized and time
Power: 2 AAA batteries
Measurement Interval: 1mmHg
Operating Temperature and Humidity: +10°C to +40°C/40% to 85% of RH
Saving Temperature and Humidity: -20~℃+50℃/15%~90% RH

First Aid Kit Case

Art No:MED03001.01,First Aid Kit Case,9",Silver
Art No:MED03001.02,First Aid Kit Case,10",Silver
Art No:MED03001.03,First Aid Kit Case,11",Silver
Art No:MED03001.04,First Aid Kit Case,12",Silver
Art No:MED03001.05,First Aid Kit Case,13",Silver
Art No:MED03001.06,
First Aid Kit Case,14",Silver
Art No:MED03001.07,
First Aid Kit Case,15",Silver
Art No:MED03001.08,
First Aid Kit Case,16",Silver



First Aid Kit Case

Art No:MED03002.01,First Aid Kit Case,9",Green
Art No:MED03002.02,First Aid Kit Case,10",Green
Art No:MED03002.03,First Aid Kit Case,11",Green
Art No:MED03002.04,First Aid Kit Case,12",Green
Art No:MED03002.05,First Aid Kit Case,13",Green
Art No:MED03002.06,
First Aid Kit Case,14",Green
Art No:MED03002.07,
First Aid Kit Case,15",Green
Art No:MED03002.08,
First Aid Kit Case,16",Green





Urinalysis Reagent Strips

Art No: MED03003
It has 8A,8N,10A,10U,11U,11H,10H,
11D,11T,10B,10EA and 11A for option.



First Aid Kit

Art No: MED03004

Content	Size	Quantity
Adhesive bandage	19 x 72mm	30
Waist drum-shaped adhesive bandage	5 x 10cm	2
"H" -shaped adhesive bandage	75 x 38mm	4
Butterfly adhesive bandage	45 x 50mm	4
Small adhesive bandage	10 x 40mm	10
Adhesive wound dressing	6 x 7cm	10
Sterile gauze pad	4" x 4"--8Ply	5
Sterile gauze pad	2" x 2"--8Ply	5
Triangular Bandage	96 x 96 x 136cm	1
PBT bandage	7.5cm x 4.5m	2
PBT bandage	5cm x 4.5m	2
Elastic bandage	5cm x 4m	2
Gauze bandage		3
Gauze bandage	5pcs/pack	2
Steriled eye pad	6 X 8cm	2
First aid tape roll	1.25cm x 4.5m	2
1 X Cotton wool ball	10balls/pack	1
Digital thermometer		1
Alcohol pad		10
Povidone-Iodine prep pad		4
BZK Antiseptic swab		6
Sting relief medicated pad		6
Instant cold pack		1
Emergency blanket	210 x 130cm	1
Latex free tourniquet	1" x 18" x 0.025"	1
Buckle tourniquet	2.5 x 45cm	1
Medical vinyl gloves	L, powder free	2
CPR		1
Safety scissors		1
Plastic tweezer		1
First aid box	25.5 x 15.5 x 15cm	1





Cooling Box

Art No:MED03005
Capacity: 5L, 6L, 8L, 10L, 12L, 20L, 24L, 30L,
32L, 40L, 50L, etc.
Material: HDPE
Insulation material: PU or EPS



Oxygen Regulator

Art No:MED04001



MED04002 MED04003 MED04004 MED04005

Oxygen Regulator



Oxygen Regulator

Art No:MED04006



Lead Apron

Art No: MED05001.01,Lead Apron,0.35mmPb
Art No: MED05001.02,Lead Apron,0.50mmPb



Single-Use Blood Lancet

Art No:MED06001
Single-Use Blood Lancet,
Stainless Steel,Pk/5



Single-Use Blood Lancet

Art No: MED06004 Single-Use Blood Lancet,Plastic Blue
Art No: MED06005 Single-Use Blood Lancet,Plastic Purple
Art No: MED06006 Single-Use Blood Lancet,Plastic White



Adjustable Automatic Lancing Device

Art No:MED06007



Hemocytometer Set

Art No:MED06008
Consists of
Counting Chamber (Neubauer,2 chambers) 1pc
Erythrocyte Pipette 1pc
Leucocyte Pipette 1pc
Blood Cover Slip 2pcs



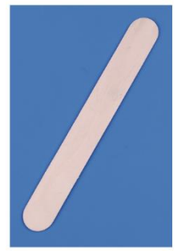
Disposable Venous Blood Specimen Collection Needle

Art No.: MED06009.01 20G
Art No.: MED06009.02 21G
Art No.: MED06009.03 22G
Art No.: MED06009.04 23G



Capillary Blood Collection Tubes

Art No:MED060010.01 Heparinized in Red
Art No:MED060010.02 Plain in Blue



Tung Depresser

Art No: MED06011
Tung Depresser, Wooden



Disposable Scalpel Blade

Art No:MED06012 Disposable Scalpel Blade #10 ~ #36
Art No:MED06013 Disposable Surgical Blade Handle



Wooden Applicator

Art No:MED07004
Diameter 2.2mm,Length 150mm,1000pcs/box



N95 Non-Woven Mask

Art No:MED07005



Nebulizer Mask

Art No:MED07001.01
Nebulizer Mask,Adult Elongated
Art No:MED07001.02
Nebulizer Mask,Child Elongated



Oxygen Mask

Art No: MED07002.01
Oxygen Mask,Adult Elongated

Art No: MED07002.02
Oxygen Mask,Child Elongated



Sterile Alcohol Pad

Art No:MED07006
Pad Size: 6.5 x 3cm, 2 ply
Packet Size: 5x5cm
Material: Non-woven, 70% Isopropyl Alcohol Saturated



Shadowless Operation Light with 1 Reflector

Art No: MED09001



Shadowless Operation Light with 4 Reflector

Art No:MED09002



Shadowless Operation Light with 5 Reflector

Art No:MED09003



Shadowless Operation Light with 9 Reflector

Art No: MED09004



Shadowless Operation Light with 12 Reflector

Art No: MED09005



Shadowless Bulb

Art No: MD09006
Shadowless Bulb for
Operation Light,24V/25W



Anti-Decubitus Mattress

Art No:MED08001
Anti-Decubitus Mattress(Lattice Style)



Anti-Decubitus Mattress

Art No: MED08002
Anti-Decubitus Mattress(Strip Style)



Photoelectric Colorimeter

Art No: AE-11M
Specifications:
Detector: Silicon photo-cell
Filter: Glass 420,470,530,620,
660nm or 405,492,546,578,660nm
Test tube: 10mm inner diameter
Light source:
Tungsten bulb,6V 0.5A
Scale: Transmittancy T%
0-100 in 100 div,
Absorption-Log T 0-2.0



Photoelectric Colorimeter

Art No: AE-11D
Photoelectric Colorimeter,Digital
Specifications:
Detector: Silicon photo-cell
Filter: Glass 420,470,530,620,
660nm or 405,492,546,578,660nm
Test tube: 10mm inner diameter
Light source:
Tungsten bulb,6V 0.5A
Scale: Transmittancy T%
0-100 in 100 div,
Absorption-Log T 0-2.0



Bell Jar with Electric Bell

Art No: W000.01
Bell Jar Diameter 18cm, Glass



Bell Jar with Electirc Bell

Art No: W000.02
Bell Jar Diameter 15cm, Glass



Bell Jar with Electirc Bell

Art No: W001, Plastic



Bell Jar with Pressure Gauge

Art No: W002, Plastic



Resonance Tester

Art No: W003
This appa. Is used in university & institutes to determine the frequency of tuning forks, or to determine the velocity of sound in air with the use of a tuning fork of known frequency.



Instigated Vibration & Resonant Vibration Demo

Art No: W004



Tuning Fork Set

Art No: W005.01
Tuning forks, set of 8



Tuning Fork Set

Art No: W005.02
Tuning forks, set of 4 on wooden base, consists of 128Hz, 256Hz,512Hz and 1024Hz



Tuning Fork Set

Art No: W005.03



Tuning Fork Set of 8

Art No: W005.04
Frequencies: 256,288,320,341.3, 384,426.6,480,and 512Hz



Tuning Forks with Hammer and Wooden Base,

Art No: W006.01, 256Hz
Art No: W006.02, 512Hz



Sonometer

Art No: W007



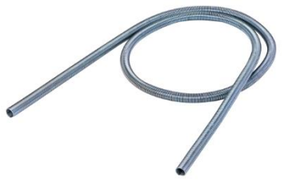
Ripple Simulator

Art No: W008.01



Ripple Simulator (Spring)

Art No: W008.02
Diameter 10cm, Height 10cm



Ripple Simulator (Spring)

Art No: W008.03
Diameter 2cm, length180cm



Ripple Tank, Classic

Art No: W009



Deluxe Ripple Tank

Art No: W010



Deluxe Ripple Tank

Art No: W011



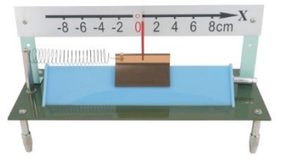
Economic Ripple Tank

Art No: W012



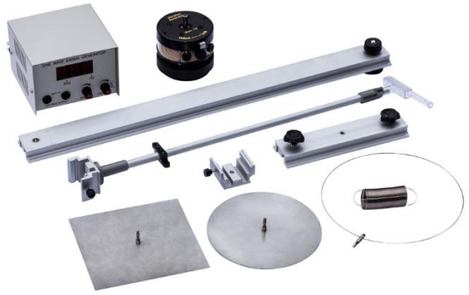
Wave Demonstrator

Art No: W013



Spring Vibrator on Linear Air Track

Art No: W014
To demonstrate the simple hormonic vibration thesympathetic vibration, the dampedvibration forced vibration & drawing various kin of curves of all vibrations.



Wave Motion Demonstrator

Art No: W015
It comes with Viberation Generator and Sine Wave Signal Generator and all accessories, can demonstrate all kinds of waves.



Vibration Generator

Art No: W016



Sine Wave Generator

Art No: W017



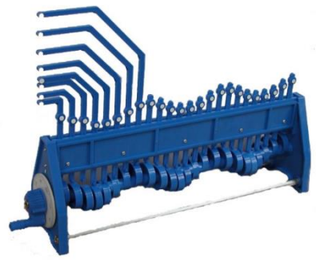
Sound Wave Generator

Art No: W018
Frequency: 300 ~ 4000Hz



Forced Resonance Demonstrator

Art No: W019
Size: 46x33x10cm



Wave Motion Demonstrator

Art No: W020
To show the motion of longitudinal or transverse wave with colorful plastic model. Turn the crank to model transverse waves. Small molded parts through the base model longitudinal waves



Double Channel Oscilloscope 20MHz

Art.No		W025
CRT	TYPE	6" rectanglar with internal graticule, 8x10div(1div=1cm)
Vertical	Sensitivity	x1 ±3% 5mV~20V/div on 1-2-5 sequence 12 ranges
		x5 ±5% 1mV~4V/div on 1-2-5 sequence 12 ranges
	Band width	x1 DC(AC 10Hz)~20MHZ(-3db)
		x5 DC(AC 10Hz)~7MHZ(-3db)
	Rising time	x1/x5, ≤17.5ns/≤50ns
	Input impedance	≈1MΩ ±3%/25pF±5pF
	Vertical operation mode	CH1,CH2,CHOP,ALT,ADD,CH2 INV
Horizontal	Sweep time	0.2us~0.5s/div ±3%; MAGx10:20ns~50ms/div±5%
	Sweep time accuracy	±3%,±5% atx10MAG (20ns~50ns/DIV uncalibrated)
	Sweep magnificaton	10 times
	Max. sweep time	20ns/DIV
Trigger	Trigger mode	AUTO(TV-V), NORM,TV-H,LEVER LOCK
	Trigger source	CH1,CH2,ALT,EXT,LINE,VERT
X-Y	Sensitivity	5mV~5V/Div,±4%



Dual Channel Oscilloscope 20MHz

Art.No		W027
Partial upper verticality	Band width	DC(AC 10Hz)~20MHZ(-3db)
	Display mode	Ch1, Ch2, DUAL, ADD
	Deflection factor	5mV/div to 5V/div±3%（1mV/div±5%）
	Sensitivity	5mV~5V/DIV, it divided into 10 files according to the 1-2-5 sequence.
	Rising time	About 17.5ns
	Input impedance	About 1MΩ/25pF
	Polarity selection	±CH2
	The maximum input voltage	When the probe is setted at 1:1, the maximum effective reading value is 40Vp-p(14Vrms sine wave)
		When the probe is setted at 10:1, the maximum effective reading value is 40Vp-p(14Vrms sine wave)
Horizontal deflection	Display mode	1, 10, X-Y
	Time base	0.2μs/div~0. 2s/div
	Sweep frequency width	x10
	Accuracy	±3%
Input impedance		1MΩ



Single Channel Oscilloscope 10MHz

Art No: W026
Specifications
Bandwidth: DC: 0~10MHz, AC: 10Hz~10MHz
Sensitivity: 5V to 5mV / DIV±3%
Sweep Time: 0.1s to 0.1 us / DIV±3%
Trigger mode: auto, norm and TV.
Trigger source: input signal, line and external.
Trigger on rising or falling edge.
Coupling: AC/DC/GND.



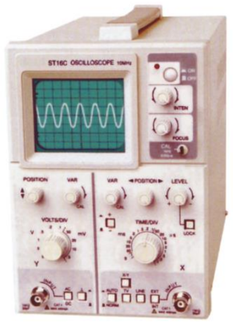
Dual Channel Oscilloscope 20MHz

Art No: W028
Bandwidth: DC: 0 ~ 20MHz(-3dB)/AC: 10Hz~20MHz(-3dB)
Deflection Factor:
5mV/DIV~5V/DIV 10 steps in 1\2\5 sequence
Mode: Y1\Y2\ALT\CHOP\ADD\X-Y
Sweep Time: 0.2uS/DIV~0.5S/DIV 20 steps in 1\2\5 sequence
Trigger Source: EXT\ALT\LINE\Y1\Y2
Sweep Mode: AUTO\TRIG
Magnification: x5±10%



General Oscilloscope 10MHz

Art No: W029
Bandwidth: DC: 0~10MHz,
AC: 10Hz~10MHz
Deflection Factor: 10mV/DIV~10V/DIV±5%
Vertical Mode: CH1
Sweep Time: 0.1uS/DIV~0.1S/DIV±5%
Trigger Source: INT\EXT\LINE
Dimension(mm): 200(H)*140(W)*300(D)



Oscilloscope 10MHz

Art No: W030
Digital coding sweep switch;
Small scale,light and easy to operate;
High sensitivity and wide scale of Y deflection.
Frequency bandwidth:
AC: 10Hz~10MHz,
DC: 0~10MHz
Deflection Factor: 5mV/DIV~5V/DIV±5%
Sweep Time: 0.1uS/DIV~0.1S/DIV±5%
Trigger Source: INT\EXT\LINE\TV



Student Oscilloscope 5MHz

Art No: W031
Frequency: DC~5MHz(-3dB)
AC: 10Hz~5MHz(-3dB)
Sweep Frequency: 10Hz~100KHz,4 Steps
Deflection Factor: 20mV/DIV±5%



Student Oscilloscope 3MHz

Art No: W032
Frequency:DC~3MHZ(-3dB)
AC: 10Hz~3MHZ(-3dB)
Sweep Frequency:
10Hz~100KHz
Deflection Factor: 50mV/DIV±5%



Portable Digital Oscilloscope

Art No: W033
1.Advanced in domestic , high technology product
Vertical two channels, bandwidth of each channel is 25MHz;
2.Max. real time sampling 1GSa/s, equivalent sampling 50GSa/s;
3.High LCD, adjustable intensity;
4.Support communication interface. RS232, USB (main, sub), RJ45 LAN;
5.Delay sweep, shorten time;
6.Measure Multi-waveform parameters automatically,
record and recall waveform;
7.SFFT, differential coefficient, integral and FFT analysis;
8.Multi- language menus display, help to display information;
9.Input attenuation 2mV/div~50V/div, easy to measure big signal;
10.Display date and time;
11.Auto-track: Sweep auto-track, vertical auto-track, completely auto-track;
12.Edge, video, pulse , slope, etc;
14.Kinds of correction signals output frequency (1K, 10K, 100K).



Portable Digital Oscilloscope DS-201

Art No: W035
DS201 is a pocket digital storage oscilloscope, fulfills basic electronic engineering requirements, based on ARMCortex™-M3 compatible 32 bit platform, equipped with 320*240 color display, SD card capability, USB connection, and rechargable batteries. Weighs only 60g!

Test signal: Built-in 10Hz~1MHz
Analog Bandwidth: 200KHz



Heat Conductometer

Art No: H001.01
Diameter 17cm
Total Length 32.5cm



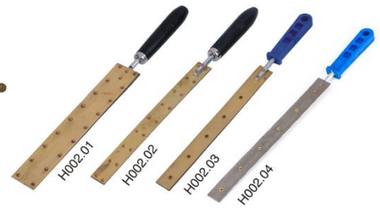
Heat Conductometer

Art No: H001.02
Diameter 21.4cm
Total Length 39cm



Heat Conductometer

Art No:H001.03



Bimetal Strip

Art No:	Material	Handle	Metal Part Size
H002.01	Cu & Fe	Plastic	3.5x20cm
H002.02	Cu & Fe	Plastic	2x21cm
H002.03	Cu & Fe	Plastic	2x21cm
H002.04	Al & Fe	Plastic	2x21cm



Ball & Ring Apparatus

Art No: H003.01



Ball & Ring Apparatus

Art No: H003.02



Ball & Ring Apparatus

Art No: H003.03



Ball & Ring Apparatus

Art No: H004



Bar & Gauge

Art No: H005.01
Art No: H005.02



Wind Forming Demonstrator

Art No: H006.01
To demonstrate how the wind forms.



Convection of Gases Apparatus

Art No: H006.02

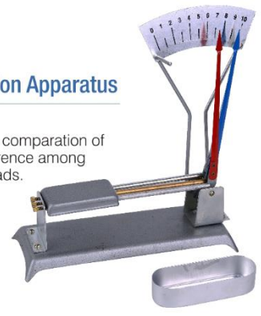


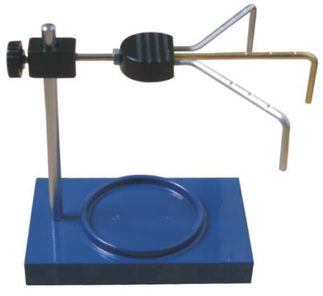
Wind Forming Demonstrator

Art No: H006.03

Linear Expansion Apparatus

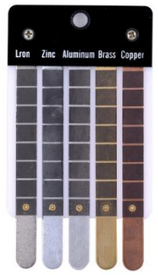
Art No: H007
To demonstrate the comparation of the expansion difference among different metal threads.





Heat Conductometer

Art No: H008



Heat Conductometer

Art No:H009



Steam Generator

Art No: H010



Rotation by Steam Demonstrator

Art No: :H011



Calorimeter, Simple

Art No: H012



Calorimeter Electrical

Art No: H013



Calorimeter Electrical

Art No: H013-P
Outside container plastic



Bimetal Strip Switch

Art No: H014.01



Bimetal Strip Switch

Art No: H014.02



Leslie's Cube

Art No: H015
Metal plate with 130mm sides.
The vertical faces of the box are blackened. roughed, vanished and polished respectively.
The top is 75mm diameter and is filled with a lid.



Radiometer, Crooks Type

Art No: H016
To convert radiating energy into kinetic energy.
Winged cross with 4 mica plates blackened on one side.
On a plastic base.



Radiometer, Crooks Type

Art No: H017
To convert radiating energy into kinetic energy.
Winged cross with 4 mica plates blackened on one side.
On a rotating shaft in an evaluated glass vessel.



Lambrecht's Hydrometer

Art No: H018
To determine the relative humidity of air by dew-point measurement. It has a bright condensing surface encircled byha non-condensingring. With pumping bulb.



Boyle's Law Apparatus

Art No: H019
With pressure guage and thermometer
Size: 15x10x20cm



Boyle's Law Apparatus

Art No: H020
With pressure guage. Acrylic base.



Gas Law Apparatus

Art No: H021
With pressure guage



Iodine Sublimation & Condensation Demonstrator

Art No: H022



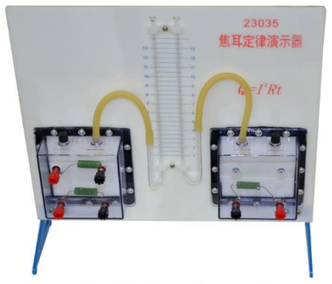
Nitrogen Dioxide Ball

Art No: H023
Size: 175x95x45mm



Hand Boiler

Art No: H024
Size: 175x95x45mm, with ether inside



Joule's Law Apparatus

Art No: H025
To test $Q=I^2Rt$



Radiation Can

Art No: H026
In pair, with rubber stopper 1 hole, includes 2 thermometers
Size: 175x40 mm diameter



Fire Syringe

Art No: H027
To demonstrate the theory of temperature increasing while air compressed.
Tube diameter 25mm.

Colper Laboratory Equipment



Sun-Earth-Moon Model

Art No: G01002



Solar System Model

Art No: G01003



Anemometer

Art No:G02001



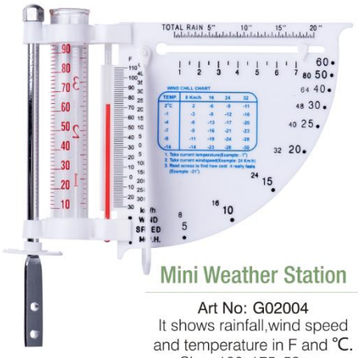
Cup Anemometer

Art No: G02002



Cup Anemometer

Art No: G02003



Mini Weather Station

Art No: G02004
It shows rainfall,wind speed and temperature in F and ℃.
Size: 180x175x58mm
Material: PS



Barometer

Art No: BAM002
Diameter:66mm



Barometer

Art No: BAM003
Diameter:70mm



Barometer

Art No: BAM004
Upper Diameter:95mm



Barometer

Art No: BAM005
Diameter:100mm



Barometer

Art No: BAM001
Diameter:180mm



Barometer

Art No: BAM006
Diameter:100mm



Barometer

Art No: BAM007
Diameter:100mm



Barometer

Art No: BAM008
Diameter:130mm



Barometer

Art No: BAM009
Diameter:130mm



Barometer

Art No: BAM010
Diameter:130mm



Barometer

Art No: BAM011
Upper Diameter:118mm
Base Diameter:145mm



Barometer

Art No: BAM012
Upper Diameter:120mm
Base Diameter:145mm



Barometer

Art No: BAM013
Diameter:180mm



Barometer

Art No: BAM014
Diameter:180mm



Barometer

Art No: BAM015
Upper Diameter:130mm
Base Diameter:180mm



Barometer

Art No: BAM016
Upper Diameter:130mm
Base Diameter:180mm



Barometer

Art No: BAM017
Upper Diameter:160mm
Base Diameter:204mm



Professional Weather Station

Art No: G02005
Specifications:
1) Outdoor temperature range: -40.0°C to + 65.0°C (-40°F to +149°F)
2) Indoor temperature range: 0°C to + 50.0°C (32°F to +122°F)
3) Humidity range: 10% to 99% (1% resolution)
4) Rain volume display: 0 - 9999mm (show OFL if outside range)
Resolution : 0.3mm (if rain volume < 1000mm)
1mm (if rain volume > 1000mm)
5) Wind speed: 0~100mph (show OFL if outside range)
6) Measuring range air pressure: 27.13inHg - 31.89inHgResolution : 0.01inHg
7) Alarm duration : 120 sec
8) Transmission range up to 100m (330 feet)
9) Transmission frequency: 433MHz,868MHz(Europe) / 915MHz (North Ameria)
Set includes:
1) Touch screen panel
2) USB port for easy connection to your PC
3) Receiver
4) Four outdoor sensors: thermo-hydro transmitter, wind speed sensor, wind direction sensor and rain sensor



Professional Weather Station with Solar Sensor

Art No: G02007
Specifications:
RCC receiver:DCF & WWVB
Time alarm with snooze & weather alarm
433MHz wireless receiver
Indoor temperature range:0℃ to +50℃
Outdoor temperature range:-40℃ to +60℃
Temperature accuracy:±1.0℃
Option of ℃/℉
Indoor humidity range: 20% to 90%
Outdoor humidity range: 20% to 90%
Humidity accuracy:±5%
Wind speed range:0 to 160Km/h
Wind direction: N、S、W、E、NE、SE、SW、NW
Rain range:0 to 9,999mm
Pressure Range:750hpa to 1,100hpa
Weather forecast
History
LED back light
Low BAT check

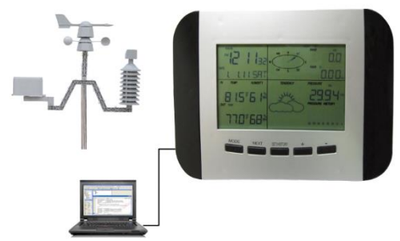


Professional Weather Station with Solar Power

Art No: G02008

433MHz with or w/o RCC Transmission range up to 100meters
868MHZ with or w/o RCC Transmission range up to 100meters

Specifications:
1. indoor temperature: 0℃ to +50℃
2. Outdoor temperatura range: -40℃ to +60℃
3. Temperatura accuracy: +/-1.0℃
4. Humidity range: 20%to 90%
5. Humidity accuracy: +/-5%
6. Rain range: 0to,9,999mm
7. Pressure range: 750hpa to 1,100hpa



Professional Weather Station with Solar Power

Art No: G02009

433MHz with or w/o RCC Transmission up to 100meters
USB port for easy connection to PC and upload weather data.
Features:
1. Indoor temperature: 0℃ to +50℃
2. Outdoor temperature range: -40℃ to +60℃
3. Temperature accuracy:±1.0℃
4. Humidity range: 20% to 90%
5. Humidity accuracy:±5%
6. Rain range:0 to 9,999mm
7. Pressure Range:750hpa to 1,100hpa
8. Wind speed in mph, km/h, m/s, knots, Beaufort, gust.
9. Wind direction (N、S、W、E、NE、SE、SW、NW) display with LCD compass.



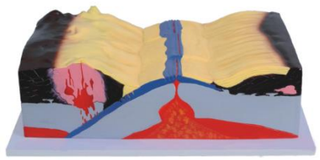
Wireless Weather Station with Outdoor Sensor

Art No: G02010
433MHz with or w/o RCC Transmission up to 100meters
USB port for easy connection to PC and upload weather data.
Features:
Indoor temperature:o℃ to +50℃
Outdoor temperature range: -40℃ to +60℃
Temperature accuracy: +/-1.0℃
Humidity range: 16% to 99%
Humidity accuracy: +/-5%



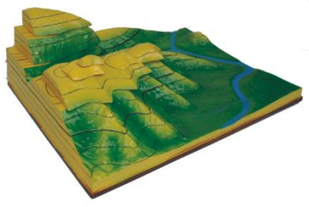
Model of Sun Internal structure

Art No: G03001



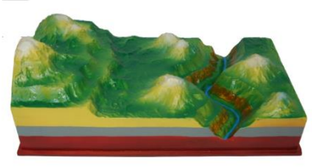
Platonic Model

Art No: G04002
This model represents active and passive margins of ocean ridges with rift valley, Benjoff plane, oceanic trenches, continental shelf and slopes.
Size:53x38x25cm



Model of Contour Lines

Art No: G04005



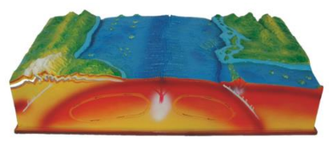
Model of Fluviation

Art No: G04008



Model of Earth Internal Structure, 32cm dia

Art No: G03002



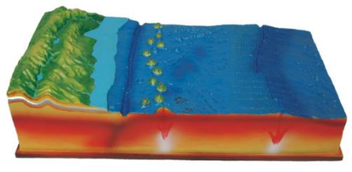
Model of Plate Conformation and the Earth Surface

Art No: G04003



Model of Changes in the Earth's Crust

Art No: G04006



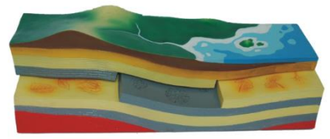
Submarine Topography

Art No: G04009



Solid Globe

Art No: G03003



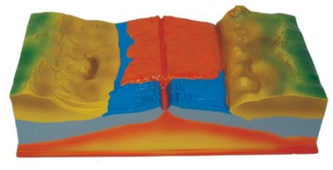
Deposition Formation Model

Art No: G04004



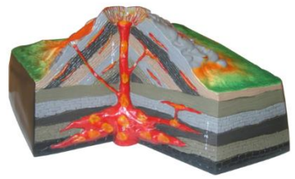
Model of the Makeup of Faultage Zone and Cultivation of Rift Valleys

Art No: G04007



Model of Volcano Underwater

Art No: G04010



Model of Volcano

Art No: G04011



Model of Hydropower Station

Art No: G04014



Demonstration Model of Water Circulation

Art No: G05001



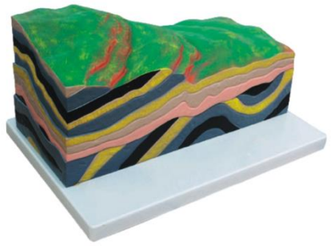
Demo. Model of Global Ocean Current

Art No: G05004
This model helps students to know the basic concept, movement, cause, its surface distribution
and its effect on geo-environment.



Model of Faultage and Fold of Earth

Art No: G04012



Layers of Ground

Art No: G04015
Miniature model.
Size:33x23x14cm



Demo. Model of Cold Front & Warm Front

Art No: G05002
This model helps students to know the chapter of typical weather system.



Demo. Model of Seasonal Monsoon Movement

Art No: G05005
Seasonal monsoon refers to the wind that only exists during specific seasons.



Model of Earthquake

Art No: G04013



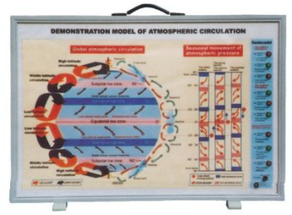
Model of Island Origin

Art No: G04016



Demo. Model of Cyclone & Anticyclone

Art No: G05003
This model adopts the continuous light electro-circuit, vividly demonstrating the movement of the cyyclone and anticyclone.



Demo. Model of Atmospheric Circulation

Art No: G05006
This model displays the periodical movement of the sub-solar point between typical of cancer & tropicla of capricorn by light, and also vividly demonstrate the movement of cold front & warm front.



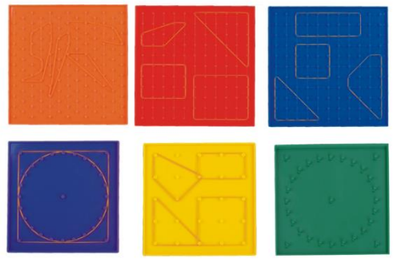
Crayon Set of 8, 10cm Long and 1cm Dia.

Art No: EDT001



Glue Stick, 8g, PVA

Art No: EDT002



Geometric Board

Art No: **EDT003.01**, Geometric Board, 5x5 Pins,152mm
Art No: **EDT003.02**, Geometric Board, 10x10 Pins,230mm
Colors available:orange,red,blue,
purple,green and yellow



Safety Scissor

Art No:EDT004
Variety colors available.



Dice,Tetrahedron,with 3 Numbers at Each Side,2cm

Art No: EDT005



Sizes Upon Request

Art No: **EDT006.01**, Normal Dice with Dots
Art No: **EDT006.02**, Normal Dice with Numbers



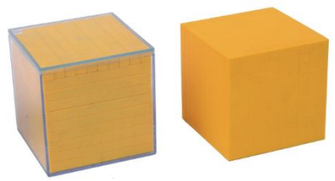
Dice,Polyhedron

Art No: EDT007
Sizes upon request



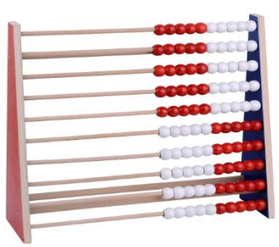
Red/Yellow Counter Strips,Plastic

Art No:EDT008



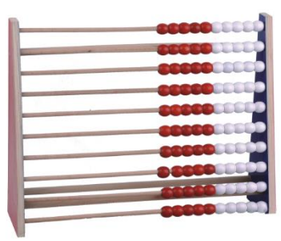
Multibase,Plastic

Art No:EDT009



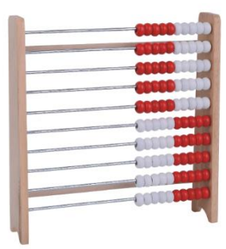
Ten-Rods Abacus,100 Beads, Red/White

Art No: EDT010.01
Made of wood,52x40x14cm



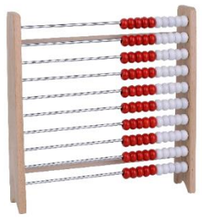
Ten-Rods Abacus,100 Beads, Red/White

Art No: EDT010.02
Made of wood,52x40x14cm



Ten-Rods Abacus,100 Beads, Red/White

Art No: EDT011.01
Made of wood,30x30x6.3cm



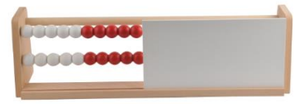
Ten-Rods Abacus, 100 Beads, Red/White

Art No:EDT011.02
Made of wood,30x30x6.3cm



2-Rods Abacus, 20 Beads,Red/White

Art No:EDT012
Made of wood,25x8.5x6cm



Two-Rods Abacus, 20 Beads, with Writing Board

Art No: EDT012.02
Made of wood, 25x8.5x6cm



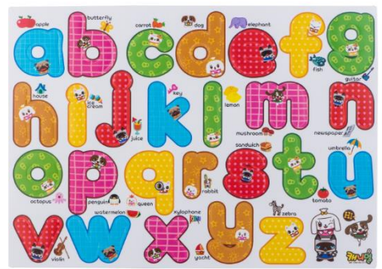
Magnetic Letters and Numbers,Set of 62

Art No: EDT014
26 upper case letters and 26 lower case letters
with 0-9 numbers
The height of the upper case letters and
numbers is 4cm.



Linking Cubes, 2cm with 10 Colors

Art No: EDT016



Magnetic Letter Set of 26, Lower Case

Art No: EDT015





Motor Model,DIY

Art No: EDT021
Comes unassembled





Dynamo Model,DIY

Art No: EDT022
Comes unassembled



Spinners with 3 Colors, Diameter 11cm

Art No:EDT017



Spinners,Blank, Diameter 11cm

Art No:EDT018



Spinners with Numbers, Diameter 11cm

Art No: EDT019



Spinners,Blank, Diameter 11cm

Art No: EDT020





Air Car, DIY

Art No: EDT023
Comes unassembled





Pendulum, DIY

Art No: EDT024
Comes unassembled





Solar Power,DIY

Art No: EDT025
Comes unassembled



Electronic Block Kit

Art No:EDT026
There are 58 different kinds of assembly for making electric lamps,electric fans,flying disks, color- flashed lamps,luminosity- varying lamps, FM radios,and so on. The product can lead users rapidly into the wonderful world of electronics in a light-hearted amusement. Suitable for children between 5 and 8 years old.



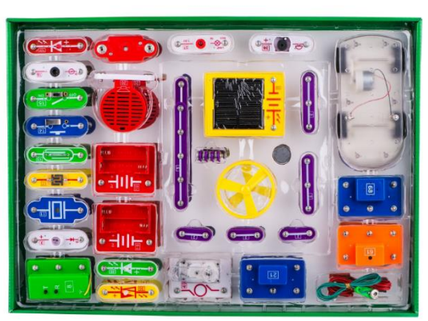
Electronic Block Kit

Art No: EDT027
There are 5889 different kinds ofassembly for making electric lamps, electric fans,flyingdisks, music-doorbells,alarms,FM-radios,recorders , karaokes,microphones, and so on.
The product can lead users rapidly into the wonderful world of electronics in a light-hearted amusement. Suitable for children between 5 and 14 years old.



Electronic Block Kit

Art No: EDT028
The w-9889 electronic buiding block is the latest patent product which promoted by our factory.it is a kind of enviroment-friendly high-teach product.Characteristic:Use 3 ways for power supply. i.e the dry battery, hand generator, solar battery. Besides it can be assembled usual electric lamp, electric fan,color lamp and buzzzer, it can be assembled with solar radio and hand electricity-generating radio andsolar recorder, hand electricity-generating recorder,solar charger as well as hand electricity generating charger, etc.It can be applied in 9889 kinds of electric circuits.



Electronic Block Kit

Art No: EDT029
The same as EDT028,in addition it has a solar car.
1.This solar car can be driven in the sun(without dry battery).
2.This solar car can be used to assemble all kinds of elctronic circuit. This car can still move when electronic circuit working.
3.This solar car can be assembled into police car,ambulance, fire engine,machine gun vehicle, The car can also produce all kinds of sound of regular car when moving.
4.The solar battery pack has charging function and can be used to charge the battery.
5.This car can produce electricity for the electronic circuit.
6.This car can be assembled into FM radio,the car can run while you can listen the FM at the same time.



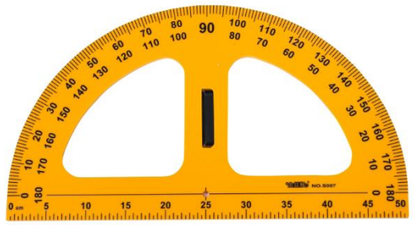
Activity Ball, 9”

Art No: EDT031
Made of PVC with smiling face



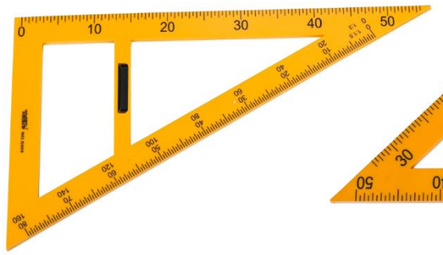
PP Bag

Art No: EDT033
Size: 33x34x9cm



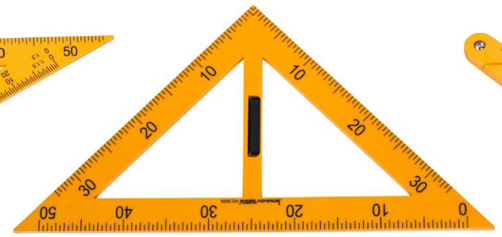
Protractor, 50cm Base

Art No: EDT034



Triangle, 60 Degree, 66cm Base

Art No: EDT036



Triangle, 45 Degree, 56cm Base, 4 0cm Side

Art No: EDT037



Compasses, 45cm

Art No: EDT035



Meter Ruler, 5.3cm Wide

Art No: EDT038



Periscope Model, DIY

Art No: EDT040



Telescope Model, DIY

Art No: EDT041



3D Eyeglass Model, DIY

Art No: EDT042



3D Printing Pen

Art No.: EDT043
3D pen can draw in the air,emancipate you from the paper and bring you into the fantasy 3D space,especially for your kids.It can inspire their 3D imagination and improve their creativity.It can make your idea come true and bring you into a wonderful DIY world.

Features:
- 0.7mm diameter nozzle
- 1.75mm diameter OLA/ABS filaments
- Adjustable molding speed
- Adapter 100-240V,12V/2A
- Temperature 180 - 230oC Adjustable
- Colors available: Blue, Yellow, Pink, Purple



Retort Stand, Cast Iron

Retort Stand, Cast Iron
Size: 210x135mm
Art No: T000.01-A
Base weight 1kg
Art No: T000.01-B
Base weight 1.5kg



Bosshead

Art No: T004.01
Made of Al alloy,3mm thick



Bosshead

Art No: T004.07
Made of Al alloy, painted,
3mm thick



Bosshead, Painted

Art No: T007 Good Quality



Retort Stand, Cast Iron

Retort Stand, Cast Iron
Size: 210x135mm
With all clamps & accessories
Art No: T000.02-A Base weight 1kg
Art No: T000.02-B Base weight 1.5kg



Bosshead

Art No: T004.03
Made of Al alloy, painted,
3mm thick



Bosshead

Art No: T004.08
Made of Al alloy,
2.3mm thick



Bosshead, Aluminum

Art No: T008 Good Quality



Retort Stand, Cast Iron

Art No:	Size
T001.01	4"x6"
T001.02	5"x8"
T001.03	6"x9"
T001.04	6.5"x11"

Best quality



Bosshead

Art No: T004.04
Made of Al alloy,
2.3mm thick



Bosshead, Painted

Art No: T005
Good Quality



Bosshead

Art No: T009.01 Clamp range:
4 ~ 24mm, Al alloy
Art No: T009.02 Clamp ange:
4 ~ 20mm, Al alloy
Art No: T009.03 Clamp range:
4 ~ 16mm, Al alloy
Art No: T009.04 Clamp range:
4 ~ 24mm, Zinc alloy
Art No: T009.05 Clamp ange:
4 ~ 20mm, Zinc alloy
Art No: T009.06 Clamp range:
4 ~ 16mm, Zinc alloy



Retort Stand,Metal Plate

Art No: T002
Size: 200x125mm
With all clamps & accessories



Bosshead

Art No: T004.05
Made of Al alloy, 3mm thick



Bosshead, Painted

Art No: T006
Good Quality



Bosshead

Art No: T010
Clamp range: 4 ~ 12mm
Al alloy, plastic coated



Cross Clamp

Art No: T014



Three-Prong Swivel Clamp

Art No: T018
Large size, clamp
range 0 ~ 60mm



Two-Prong Extension Clamp, Small

Art No: T022
Total length 21.5cm,
clamp range 10 ~ 30mm



Bosshead, German Type

Art No: T011.01 Clamp range:
4 ~ 16mmAl alloy, plastic coated
Art No: T011.02 Clamp range:
4 ~ 16mm Zinc alloy, plastic coated



Cross Clamp, European Style

Art No: T015



Three-Prong Extension Clamp

Art No: T019
Large size, clamp
range 0 ~ 60mm



Three-Prong Extension Clamp Small Jaws

Art No: T023



Bosshead, German Type

Art No: T012
Clamp range:
4 ~ 18mm Al alloy,
plastic coated



Extension Cross Clamp

Art No: T016



Four-Prong Extension Clamp

Art No: T020
Clamp range 5 ~ 90mm



Two-Prong Extension Clamp, Large

Art No: T024
Total length 24.5cm,
clamp range 20 ~ 50mm



Swivel Cross Clamp

Art No: T013



Cross Clip, 12mm

Art No: T017.01 Aluminum alloy,
electroplated
Art No: T017.02 Zinc alloy,
electroplated



Three-Prong Extension Clamp

Art No: T021
Smw, with sall jawivel clamp



Two-Prong Swivel Clamp, Small

Art No: T025



Four-Prong Swivel Clamp

Art No: T026
Clamp range 5 ~ 90mm



Three-Prong Extension Clamp

Art No: T027
Small size, clamp range 0 ~ 40mm



Three-Prong Extension Clamp

Art No: T028
Large size, clamp range 8 ~ 60mm



Three-Prong Extension Clamp

Art No: T029
Small size, clamp range 0 ~ 30mm



Tow-Prong Extension Clamp

Art No: T030.01 Large size, clamp range 40 ~ 60mm
Art No: T030.02 Medium size, clamp range 20 ~ 40mm



Tow-Prong Extension Clamp

Art No: T031
Small size, clamp range 11 ~ 25mm



Double Adjustable Three-Prong Extension Clamp

Art No: T032.01 Large size, clamp range 0 ~ 85mm
Art No: T032.02 Medium size, clamp range 0 ~ 65mm



Double Adjustable Three-Prong Extension Clamp

Art No: T033
Small size, clamp range 0 ~ 60mm



Double Adjustable Three-Prong Swivel Clamp

Art No: T034.01 Large size, clamp range 0 ~ 85mm
Art No: T034.02 Medium size, clamp range 0 ~ 65mm
Art No: T034.03 Small size, clamp range 0 ~ 60mm



Double Adjustable Two-Prong Extension Clamp

Art No: T035.01 Large size, clamp range 0 ~ 65mm
Art No: T035.02 Small size, clamp range 0 ~ 40mm



Double Adjustable Two-Prong Swivel Clamp

Art No: T036.01 Large size, clamp range 0 ~ 65mm
Art No: T036.02 Small size, clamp range 0 ~ 40mm



Two-Prong Swivel Clamp

Art No: T037
Large size, clamp range 20 ~ 50mm



Two-Prong Swivel Clamp

Art No: T038
Large size, clamp range 20 ~ 50mm



Two-Prong Swivel Clamp

Art No: T039
Medium size, clamp range 10-30mm



Four-Prong Swivel Clamp

Art No: T040.01 Large size, clamp range 30 ~ 90mm
Art No: T040.02 Medium size, clamp range 20 ~ 60mm
Clamp made of iron, plastic coated



Double Adjustable Three-Prong Clamp

Art No: T041
Large size, clamp range 0 ~ 110mm



Double Adjustable Four-Prong Clamp

Art No: T042
Large size, clamp range 5 ~ 110mm



Thermometer Extension Clamp

Art No: T046



Test Tube Clamp, European Style

Art No: T049.01



Thermometer Swivel Clamp

Art No: T052



Double Adjustable Three-Prong Swivel Clamp

Art No: T043
Large size, clamp range 0 ~ 110mm



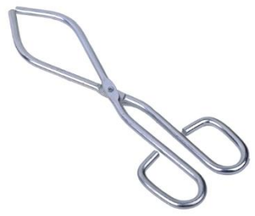
Thermometer Swivel Clamp

Art No: T047.01



Universal Clamp

Art No: T049.02



Beaker Tong

Art No:T053.01
Uncoated Jaws, 9.5"



Four-Prong Extension Clamp

Art No: T044
Large size,clamp range 5 ~ 90mm
Made of Zinc alloy, plastic coated



Suspension Clamp

Art No: T047.02



Two-Prong Swivel Clamp

Art No: T050
Plastic coated



Beaker Tong

Art No: T053.02
Coated Jaws, 9.5"



Swivel Cross Clamp

Art No: T045



Suspension Clamp

Art No: T048



Two-Prong Swivel Clamp

Art No: T051



Beaker Tong

Art No: T053.03
Plastic tube covered jaws, 9.5"



Crucible Tong, Metal Zinc Plated

Art No: T054.01, 20cm long
Art No: T054.02, 25cm long
Art No: T054.03, 30cm long
Art No: T054.04, 35cm long
Art No: T054.05, 40cm long
Art No: T054.06, 45cm long
Art No: T054.07, 50cm long



Crucible Tong, Stainless Steel

Art No: T055.01, 20cm long
Art No: T055.02, 25cm long
Art No: T055.03, 30cm long



Beaker Tong, Iron Zinc Plated

Art No: T056.01 20cm long
Art No: T056.02 25cm long
Art No: T056.03 30cm long



Test Tube Holder

Art No: T057.01
Made of brass



Test Tube Holder

Art No: T057.02
Iron, nickel-plated with safety ring



Test Tube Holder

Art No: T057.03
Iron, nickel-plated



Mohr Clip

Art No: T058



Mohr Clip, Brass Electroplated

Art No: T059.01 40mm long
Art No: T059.02 50mm long
Art No: T059.03 60mm long
Art No: T059.04 65mm long
Art No: T059.05 70mm long
Art No: T059.06 80mm long



Double Burette Clamp, Alloy

Art No: T060



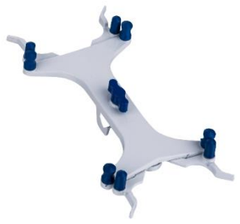
Lincoln-Type Burette Clamp

Art No: T061
Steel, plastic coated



Lincoln-Type Burette Clamp

Art No: T062
Steel, zinc plated



Double Burette Clamp, Alloy

Art No: T063



Double Burette Clamp

Art No: T064.01 Aluminum alloy, electroplated
Art No: T064.02 Zinc alloy, electroplated



Double Burette Clamp

Art No: T065
Aluminum alloy, plastic coated



Double Burette Clamp, Plastic

Art No: T066



Double Burette Clamp, Plastic

Art No: T067



Half Burette Clamp, Plastic

Art No: T068



Double Fisher Clamp, Plastic

Art No: T069



Single Fisher Clamp, Plastic

Art No: T070



Separatory Funnel Holder

Art No: T071



Ball Joint Clips

Art No: T072
Sizes: #12, #18, #28, #35, #50, #65



Glass Tube Cutter

Art No: T073



Laboratory Jack, Aluminum

Art No: 101.00 10x10cm
Art No: 101.01 15x15cm
Art No: 101.02 20x20cm
Art No: 101.03 25x25cm



Laboratory Jack

Art No: T102
Plastic coated,15x15cm



Laboratory Jack

Art No: T103
Plastic coated, top 15x15cm, bottom 18x18cm



Laboratory Jack

Art No: T104 Made of stainless steel, 15x15cm



Laboratory Jack

Art No: T105
Made of stainless steel, top 15x15cm, bottom 18x18cm



Laboratory Jack

Made of stainless steel,
Art No: T106.01
Top 15x15cm, Bottom 18x18cm
Art No: T106.02
Top 20x20cm, Bottom 20x20cm



Laboratory Jack, American Type

Art No: T107
Made of aluminum, platform 15.7x19cm



Plastic Tweezer

Art No.: T221.01 Size: 12.7cm long, Blue
Art No.: T221.02 Size: 10.8cm long, Blue
Art No.: T221.03 Size: 11.4cm long, Green
Art No.: T221.04 Size: 11.2cm long, White
Art No.: T221.05 Size: 10.6cm long, Blue
Art No.: T221.06 Size: 10.5cm long, Yellow
Art No.: T221.07 Size: 10.9cm long, Pink
Art No.: T221.08 Size: 10.6cm long, White
Art No.: T221.09 Size: 10.1cm long, Green
Art No.: T221.10 Size: 7.7cm long, Red
Art No.: T221.11 Size: 5.7cm long, White
Different colors available



Tweezer, Stainless Steel

Art No: T222 12cm long, very good quality



Tweezer, Stainless Steel

Art No: T223.01
12.5cm long
Art No: T223.02
9.5cm long
Very good quality



Tweezer Head Bended, Stainless Steel

Art No: T224.01
15.5cm long
Art No: T224.02
12cm long
Very good quality



Tweezer, Stainless Steel

Art No: T225 16cm long, very good quality



Tweezer

Art No:	Size:
T226.01	12.5cm
T226.02	14cm
T226.03	16cm
T226.04	18cm
T226.05	20cm



Stainless Steel Spatulas

Art No:	Size:
T227.01	12.5cm
T227.02	15cm
T227.03	18cm
T227.04	20cm
T227.05	22cm



Dissection Scissor

Art No:	Size:
T228.01	12.5cm
T228.02	15cm
T228.03	18cm
T228.04	20cm
T228.05	22cm



Dissection Kit

Art No: T229
Set of 7 with 2 Blades



Wire Gauze with Ceramic Center

Art No:	Size:
T230.01	100x100mm
T230.02	125x125mm
T230.03	150x150mm
T230.04	200x200mm



Alcohol Burner with 1 Cotton Wick

Art No: T231.01



Alcohol Burner with 1 Cotton Wick

Art No: T231.02



Alcohol Burner

Art No: T232.01 Alcohol Burner with 1 Brass Wick
Art No: T232.02 Alcohol Burner with 2 Brass Wicks



Bunsen Burner

Art No: T233



Bunsen Burner

Art No: T234



Bunsen Burner

Art No: T235



Bunsen Burner

Art No: T236



Tripod Stand, Steel Zinc Plated

Art No: T237.01 13cm high
Art No: T237.02 23cm high



Tripod Stand

Art No: T238.01 Dia 3"
Art No: T238.02 Dia 4"



Tripod Stand, Stainless Steel

Art No:T239.01,13cm X 18cm High
Art No:T239.02,13cm X 21cm High
Art No:T239.03,13cm X 23cm High



Spatula with Plastic Handle

Art No: T240
Size: 21cm long in total, handle 9.5cm long.



"A" Stand Base

Art No: T241



Iron Ring with Bosshead, Electroplated

Art No: T242.01 Diameter 80mm
Art No: T242.02 Diameter 110mm
Art No: T242.03 Diameter 135mm

Iron Ring with Bosshead, Nickel Plated T243



Iron Ring, Nickel Plated T244



Iron Ring, Nickel Plated T245





Stand for Burner

Art No: T301
Made of stainless steel



Combustion Spoon

Art No:T302 with Protection



Teasing Needle

Art No: T303.01
Straight, Plastic Handle, Pk/12
Art No:T303.02
Bent, Plastic Handle, Pk/12



Nickel-Plated T Pins

Art No:T304 2",Pk/100



Insect Pins

Art No:T305.01,#00,Pk/100
Art No:T305.02,#0,Pk/100
Art No:T305.03,#1,Pk/100
Art No:T305.04,#2,Pk/100
Art No:T305.05,#3,Pk/100
Art No:T305.06,#4,Pk/100
Art No:T305.07,#5,Pk/100



Beauty Nipper (Bone Cutter)

Art No: T306
Beauty Nipper(Bone Cutter), 13cm,Stainless Steel



Foot Pump with Pressure Gauge

Art No:T308



Hand Air Pump

Art No: T309 Double Usage



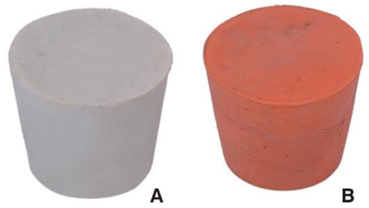
Safety Eye Goggles

Art No. EG003
Made of soft PVC



Vacuum Pump,Hand Operated

Art No: T311



Rubber Stopper

Art No	Top Dia (mm)	Bottom Dia (mm)	Height (mm)
T307.01	12.5	8	17
T307.02	15	11	20
T307.03	17	13	24
T307.04	19	14	26
T307.05	21	15	26
T307.06	23	17	26
T307.07	26	19	26
T307.08	29	22	26
T307.09	33	25	28
T307.10	38	29	30
T307.11	42	33	30
T307.12	46	38	30
T307.13	52	43	32
T307.14	56	46	34
T307.15	62	51	36
T307.16	68	55	38
T307.17	75	62	39
T307.18	81	68	40
T307.19	87	74	42
T307.20	95	78	45
T307.21	103	83	48
T307.22	111	88	52
T307.23	120	93	55

Rubber stoppers can be without hole, with 1 hole or 2 holes. White or Red.



Safety Eye Goggles

Art No. EG004
Made of soft PVC



Safety Eye Goggles

Art No. EG006
Made of soft PVC



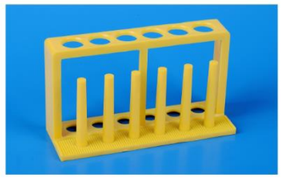
Safety Eye Goggles

Art No. EG1026
Made of PVC



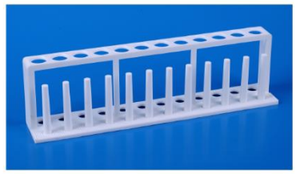
Safety Eye Goggles

Art No. EG1138
Made of PVC



Plastic Test Tube Racks

Art No: T312.01, 6 tube,yellow
Art No: T312.02, 6 tube,white
Art No: T312.03, 6 tube,blue
Art No: T312.04, 6 tube,red



Plastic Test Tube Racks

Art No: T313.01,12 tube,yellow
Art No: T313.02,12 tube,white
Art No: T313.03,12 tube,blue
Art No: T313.04,12 ube,red



Multi-Use Plastic Test Tube Racks

Art No: T314.01, 50 tube, red 18.5mm holes
Art No: T314.02, 50 tube, blue 18.5mm holes



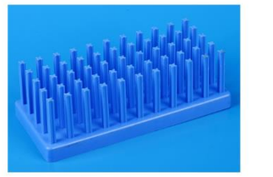
Four-Way Interlocking Test Tube Racks

Art No:T315.01,yellow
Art No:T315.02,green
Art No:T315.03,blue
Art No:T315.04,red
Art No:T315.05,orange



Molded Plastic Cube Test Tube Racks

Art No: T316.01, yellow
Art No: T316.02, green
Art No: T316.03, blue
Art No: T316.04, red
Art No: T316.05, orange



Molded Plastic Cube Test Tube Drying Racks

Art No:T317.01,Plastic Test Tube Drying Rack,55 pin,yellow
Art No:T317.02,Plastic Test Tube Drying Rack,55 pin,white
Art No:T317.03,Plastic Test Tube Drying Rack,55 pin,blue
Art No:T317.04,Plastic Test Tube Drying Rack,55 pin,red



Multi-Use Plastic Test Tube Racks

Art No:T318
50 places, diameter 18.5mm hole



Multi-Use Plastic Test Tube Racks

Art No:T319.01 90 places, 6x15
Art No:T319.02 40 places, 4x10
Art No:T319.03 60 places, 5x12



Multi-Use Plastic Test Tube Racks

Art No:T320
21 places, 30mm hole



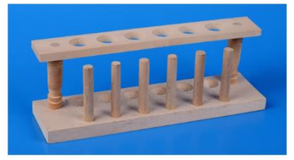
Wooden Test Tube Rack

Art No: T321
12-tube, 2 rows, 24mm diameter



Wooden Test Tube Rack

Art No: T322
13-tube, 2-tier,7x24mm diameter and 6x26mm diameter



Wooden Test Tube Rack

Art No: T323
6-tube,1 row,24mm diameter



Wooden Test Tube Rack, 3-Tier

Art No:T324
Four 29.6mm and
eight 19.6mm holes



Wooden Test Tube Rack, 3-Tier

Art No:T325
Ten 29.6mm holes



Test Tube Brush

Art No:T326.01,200x100x20
Art No:T326.02,240x120x25
Art No:T326.03,280x140x30



Electric Test Tube Drier

Art No: T327



Test Tube Holder

Art No: T328.01 Made of wood
Art No: T328.02 Made of bamboo



Funnel Holder with Clamp

Art No: T329



Laboratory Tray

Art No:T330
Size: 39x29x4cm
Material: 430 Stainless Steel



Laboratory Dissection Tray

Art No:T331
Size: 39x29x4cm, wax coated
Material: 430 Stainless Steel



Drying / Draining Rack, 27 Places

Art No:T332



Drying / Draining Rack, 52 Places

Art No:T333



ESE01G



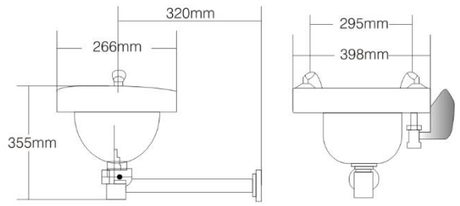
ESE01Y



ESE01R

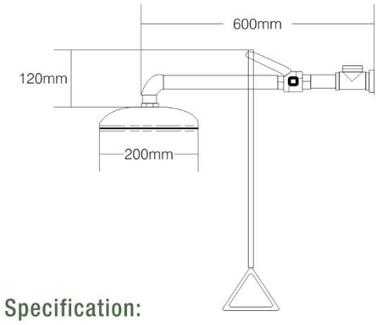


ESB01



Specification:

1. Bowl: ABS plastic safety color.
2. Valve: Eye washer valve is of ½ brass ball valve.
3. Water supply & outlet: 1" IPS
4. Water working pressure: 0.2MPA-0.8MPA
5. Flow control: 76L/Min
6. Original water: Clean water or leached water.
7. Activation: Eye washer is activated by flag handle.
8. Package: Carton size: 52x32x30cm 1 set per export carton
   G.W.: 5kg N.W.: 4kg



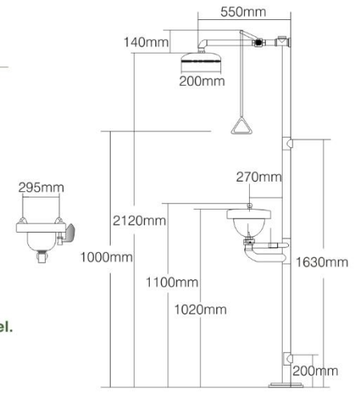
Specification:

1. Head: ABS plastic in safety green color.
2. Valve: Shower valve is 1" brass ball valve.
3. Water supply & outlet: 1" IPS
4. Water working pressure: 0.2MPA-0.8MPA
5. Flow control: 76L/Min
6. Original water: Clean water or leached water.
7. Activation: Shower is activated by pull rod.
8. Package: Carton size: 84x21.5x11.5cm
   1 set per export carton G.W.: 4kg N.W.: 3kg

ESB02 Specification:

1. Head/Bowl: ABS plastic in safety color.
2. Valve: Shower valve is 1" brass ball valve.
   Eye washer valve is ½" brass ball valve.
3. Water supply & outlet: 1¼" IPS
4. Water working pressure: 0.2MPA-0.8MPA
5. Flow control: 76L/Min
6. Original water: Clean water or leached water.
7. Activation: Shower is activated by pull rod.
   Eye washer is activated by flag handle.
8. Package: Carton size: 95x45x28cm
   1 set per export carton
   G.W.: 18kg N.W.: 17kg

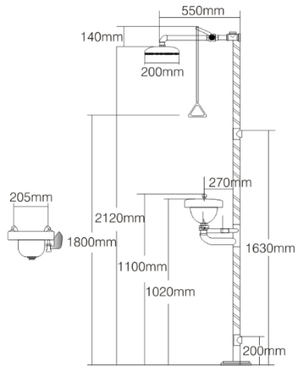
ESB02S is the same as ESB02, but made of stainless steel.





ESB02 ESB02S





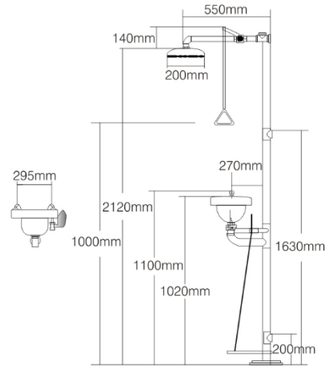
ESB03

Specification:

1. Head/Bowl: ABS plastic in safety green color.
2. Valve: Shower valve is 1" brass ball valve. Eye washer valve is ½" brass ball valve.
3. Water supply & outlet: 1¼" IPS
4. Water working pressure: 0.2MPA-0.8MPA
5. Flow control: 76L/Min
6. Original water: Clean water or leached water.
7. Activation: Shower is activated by pull rod. Eye washer is activated by flag handle.
8. Package: Carton size: 95x45x28cm
   1 set per export carton
   G.W.: 18kg N.W.: 17kg



ESB04



Specification:

1. Head/Bowl: ABS plastic in safety green color.
2. Valve: Shower valve is 1" brass ball valve.Eye washer valve is ½" brass ball valve.
3. Water supply & outlet: 1¼" IPS
4. Water working pressure: 0.2MPA-0.8MPA
5. Flow control: 76L/Min
6. Original water: Clean water or leached water.
7. Activation: Shower is activated by pull rod. Eye washer is activated by flag handle or foot treadle.
8. Package: Carton size: 95x45x28cm
   1 set per export carton
   G.W.: 18kg N.W.: 17kg

Red and yellow colors available.



Single Assay Faucet
Art No.: ESH01



Double Assay Faucet
Art No.: ESH02



Single Assay Faucet
Art No.: ESH03



Eye Wash
Art No.: ESE02
Removable double nozzle eye wash,table mounted



Three Way Assay Faucet
Art No.: ESH04

Colper Laboratory Equipment

Astronomical Telescope

Art No: TEL40040M
Type: Refractor
Aperture: 40mm(1.6")
Focal Length: 400mm(f/10)
Finderscope: 5x18
Prism: 90° Diagonal Prism
Tripod: Aluminum Tripod
Eyepiece: H12.5mm H20mm (0.965")



Astronomical Telescope

Art No: TEL30030M
Type: Refractor
Aperture: 30mm(1.18")
Focal Length: 300mm.(f/10)
Tripod: Aluminum Tripod



Astronomical Telescope

Art No: TEL30070M
Type: Refractor
Aperture: 70mm(2.75")
Focal Length: 300mm.(f/4)
Prism: 90° Diagonal Prism
Eyepiece: H6mm H20mm (0.965")
3X Barlow Lens, 1.5X Erector
Tripod: Aluminum Tripod



Astronomical Telescope

Art No: TEL40070M / TEL36070M
Type: Refractor
Aperture: 70mm(2.75")
Focal Length: 400mm.(f/5.7) / 360mm.(f/5.1)
Finderscope: 5x24
Prism: 45° Correct Image Diagonal Prism
Eyepiece: K6mm K25mm(1.25")
Tripod: Aluminum Tripod



Astronomical Telescope

Art No: TEL70070A
Type: Refractor
Aperture: 70mm(2.75")
Focal Length: 700mm.(f/10)
Finderscope: 5x24
Prism: 90° Diagonal Prism
Eyepiece: SR4mm H12.5mm H20mm(1.25")
3X Barlow Lens, 1.5X Erector
Mount: AZ Mount
Tripod: Adjustable Aluminum Tripod



Astronomical Telescope

Art No: TEL70076M
Type: Reflector
Aperture: 76mm(3")
Focal Length: 700mm.(f/9)
Finderscope: 5x24
Eyepiece: SR4mm H12.5mm H20mm(0.965")
2X Barlow Lens
Mount: AZ Mount
Tripod: Adjustable Aluminum Tripod



Astronomical Telescope

Art No: TEL60060M / TEL70060M / TEL80060M / TEL90060M
Type: Refractor
Aperture: 60mm(2.4")
Focal Length: 600mm (f/11.6) / 700mm (f/11.6) / 800mm (f/13) / 900mm (f/15)
Finderscope: 5x24
Prism: 90° Diagonal Prism
Eyepiece: SR4mm H12.5mm H20mm(0.965")
3X Barlow Lens, 1.5X Erector
Mount: AZ Mount
Tripod: Adjustable Aluminum Tripod



Astronomical Telescope

Art No: TEL90060EQ
Type: Refractor
Aperture: 60mm(2.36")
Focal Length: 900mm.(f/15)
Finderscope: 5x24
Prism: 90° Diagonal Prism
Eyepiece: SR4mm H12.5mm H20mm(0.965")
3X Barlow Lens, 1.5X Erector
Mount: Equatorial Mount EQI
Tripod: Adjustable Aluminum Tripod



Astronomical Telescope

Art No: TEL90070EQ
Type: Refractor
Aperture: 70mm(2.75")
Focal Length: 900mm (f/12.8)
Finderscope: 5x24
Prism: 90° Diagonal Prism
Eyepiece: SR4mm H12.5mm H20mm(1.25'')
3X Barlow Lens, 1.5X Erector
Mount: Equatorial Mount EQII
Tripod: Adjustable Aluminum Tripod



Astronomical Telescope

Art No: TEL90076EQ
Type: Reflector
Aperture: 76mm(3")
Focal Length: 900mm (f/9)
Finderscope: 5x24
Eyepiece: SR4mm H12.5mm H20mm(0.965'')
2X Barlow Lens
Mount: Equatorial Mount EQII
Tripod: Adjustable Aluminum Tripod



Equatorial Newtonian Reflector Telescope

Art No: TEL750150EQ / TEL1400150EQ
Aperture: 150mm(6")
Focal Length: 750mm (f/9) / 1400mm (f/9)
Finderscope: 6x30
Heavy Duty, Aluminum Tripod Adjustable
Mount: Equatorial Mount EQIII
Eyepiece: PL6.5mm PL25mm(1.25'')
Moon Filter, Sun Filter, 2X Barlow Lens



Equatorial Newtonian Reflector Telescope

Art No: TEL800203EQ
Aperture: 203mm(8")
Focal Length: 800mm (f/4)
Finderscope: 6x30
Heavy Duty, Aluminum Tripod Adjustable
Mount: Equatorial Mount EQIV
Eyepiece: PL6.5mm Pl25mm(1.25'')
Moon Filter, Sun Filter



Equatorial Newtonian Reflector Telescope

Art No:TEL900114EQ / TEL1000114EQ
Aperture: 114mm(4.5")
Focal Length: 900mm (f/7.9) / 1000mm (f/4.4)
Finderscope: 6x30
Eyepiece: K10mm K25mm(1.25'')
Moon Filter, Sun Filter, 2X Barlow Lens
Heavy Duty, Aluminum Tripod Adjustable
Mount: Equatorial Mount EQIII



Astronomical Telescope

Art No: F750150EQIV-A / F1200150EQIV-A
Type: Refractor
Aperture: 150mm(5.9")
Focal Length: 750mm (f/5.0), 1200mm (f/8.0)
Eyepiece: PL6.5mm PL25mm(1.25'')
Finderscope: 9x50
Prism: 45° Correct Image Prims Diagonal
Mount: Equatorial Mount EQIV
Tripod: Adjustable Steel Tripod



Astronomical Telescope

Art No: F700127EQIV-A
Type: Refractor
Aperture: 127mm(5")
Focal Length: 700mm (f/5.5)
Eyepiece: PL6.5mm PL25mm(1.25")
Finderscope: 9x50
Prism: 45° Correct Image Prism Diagonal
Mount: Equatorial Mount EQIV
Tripod: Adjustable Steel Tripod



Astronomical Telescope

Art No: F600102EQIV-A
Type: Refractor
Aperture: 102mm(4")
Focal Length: 600mm (f/5.9)
Eyepiece: PL6.5mm PL25mm(1.25")
Finderscope: 9x50
Prism: 45° Correct Image Prism Diagonal
Mount: Equatorial Mount EQIV
Tripod: Adjustable Steel Tripod



Astronomical Telescope

Art No: F1200127EQIV-A
Type: Refractor
Aperture: 127mm(5")
Focal Length: 1200mm (f/9.4)
Eyepiece: PL6.5mm PL25mm(1.25")
Finderscope: 9x50
Prism: 45° Correct Image Prism Diagonal
Mount: Equatorial Mount EQIV
Tripod: Adjustable Steel Tripod



Astronomical Telescope

Art No: F900102EQIV-A
Type: Refractor
Aperture: 102mm(4")
Focal Length: 900mm (f/8.9)
Eyepiece: PL6.5mm PL25mm(1.25")
Finderscope: 9x50
Prism: 45° Correct Image Prism Diagonal
Mount: Equatorial Mount EQIV
Tripod: Adjustable Steel Tripod



Astronomical Telescope

Art No: F60050M
Type: Refractor
Aperture: 50mm(2")
Focal Length: 600mm (f/12)
Eyepiece: H6mm H20mm(0.965")
Finderscope: 5x24
Prism: 90° Diagonal Prism
Tripod: Adjustable Aluminum Tripod
Accessories: 3X Barlow Lens



Astronomical Telescope

Art No: F40080EQ-A / F90080EQ-A
Type: Refractor
Aperture: 80mm(3.15")
Focal Length: 400mm (f/5) / 900mm (f/11)
Eyepiece: K6mm K25mm(1.25")
/SR4mm H12.5mm H20mm(0.9
Finderscope: 5x24
Prism: 45° Correct Image Prism Diagonal
/90° Diagonal Prism
Tripod: Adjustable Aluminum Tripod
Mount: Equatorial Mount EQI



Astronomical Telescope

Art No: 88-89100
Type: Refractor
Aperture: 80mm(3")
Focal Length: 900mm (f/11)
Eyepiece: K4mm K9mm K20mm(1.25")
Finderscope: 6x25
Prism: 90° Correct Image Prism Diagonal
Accessories: 3X Barlow Lens
Mount: Equatorial Mount EQ5
Tripod: Adjustable Steel Tripod



Astronomical Telescope

Art No: 78-79100
Type: Refractor
Aperture: 70mm(2.75")
Focal Length: 900mm (f/12.8)
Eyepiece: K4mm K9mm K20mm(1.25")
Finderscope: 6x25
Prism: 90° Correct Image Prism Diagonal
Accessories: 3X Barlow Lens
Mount: Equatorial Mount EQIII
Tripod: Adjustable Aluminum ripod



Astronomical Telescope

Art No: 78-77100
Type: Refractor
Aperture: 70mm(2.75'')
Focal Length: 700mm (f/10)
Eyepiece: K4mm K9mm K20mm(1.25'')
Finderscope: 6x25
Prism: 90° Correct Image Prism Diagonal
Accessories: 3X Barlow Lens
Mount: Equatorial Mount EQIII
Tripod: Adjustable Aluminum Tripod



Astronomical Telescope

Art No: 98-11100
Type: Refractor
Aperture: 90mm(3.5'')
Focal Length: 1000mm (f/11)
Eyepiece: K4mm K9mm K20mm(1.25''
Finderscope: 6x25
Prism: 90° Correct Image Prism Diagor
Accessories: 3X Barlow Lens
Mount: Equatorial Mount EQ5
Tripod: Adjustable Steel Tripod





Fixed Volume Pipette

Art No: LAB01001

LAB01001.01	5ul
LAB01001.02	10ul
LAB01001.03	20ul
LAB01001.04	25ul
LAB01001.05	50ul
LAB01001.06	100ul
LAB01001.07	200ul
LAB01001.08	500ul
LAB01001.09	1000ul



Direct Reading Variable Volume Pipette

Art No: LAB01004

LAB01004.01	0.1 ~ 2ul
LAB01004.02	0.5 ~ 10ul
LAB01004.03	2 ~ 20ul
LAB01004.04	5 ~ 50ul
LAB01004.05	10 ~ 100ul
LAB01004.06	20 ~ 200ul
LAB01004.07	100 ~ 1000ul
LAB01004.08	1000 ~ 5000ul
LAB01004.09	1 ~ 10ml



Number Reading Variable Volume Pipette

Art No: LAB01002

LAB01002.01	0.1-2ul
LAB01002.02	0.5-10ul
LAB01002.03	2-20ul
LAB01002.04	5-50ul
LAB01002.05	10-100ul
LAB01002.06	20-200ul
LAB01002.07	100-1000ul
LAB01002.08	1000-5000ul
LAB01002.09	1-10ml



Direct Reading Variable Volume Pipette

Art No: LAB01005

LAB01005.01	0.1 ~ 2ul
LAB01005.02	0.5 ~ 10ul
LAB01005.03	2 ~ 20ul
LAB01005.04	5 ~ 50ul
LAB01005.06	20 ~ 200ul
LAB01005.07	100 ~ 1000ul
LAB01005.08	1000 ~ 5000ul
LAB01005.09	1 ~ 10ml





Number Reading Variable Volume Pipette

Art No: LAB01003

LAB01003.01	0.1 ~ 2ul
LAB01003.02	0.5 ~ 10ul
LAB01003.03	2 ~ 20ul
LAB01003.04	5 ~ 50ul
LAB01003.05	10 ~ 100ul
LAB01003.06	20 ~ 200ul
LAB01003.07	100 ~ 1000ul
LAB01003.08	1000 ~ 5000ul
LAB01003.09	1 ~ 10ml



Pipette Pump

Art No: LAB01006

Art No:LAB01006.01	2ml
Art No:LAB01006.02	10ml
Art No:LAB01006.03	25ml

Big Volume Pipette Controller

Art No: LAB01007

LAB01007.01	Grey
LAB01007.02	Blue
LAB01007.03	Red
LAB01007.04	Green
LAB01007.05	Yellow



Fixed Volume Pipette

Art No: LAB01008

LAB01008.01	0.1ul
LAB01008.02	0.2ul
LAB01008.03	0.25ul
LAB01008.04	0.5ul
LAB01008.05	1ul
LAB01008.06	2ul
LAB01008.07	2.5ul
LAB01008.08	5ul
LAB01008.09	10ul
LAB01008.10	20ul
LAB01008.11	25ul
LAB01008.12	50ul
LAB01008.13	100ul
LAB01008.14	200ul
LAB01008.15	250ul
LAB01008.16	500ul
LAB01008.17	1000ul
LAB01008.18	2000ul
LAB01008.19	2500ul
LAB01008.20	5000ul



Number Reading Variable Volume Pipette

Art No: LAB01011

LAB01011.01	0.1 ~ 1ul
LAB01011.02	0.5 ~ 10ul
LAB01011.03	2 ~ 20ul
LAB01011.04	5 ~ 50ul
LAB01011.05	10 ~ 100ul
LAB01011.06	20 ~ 200ul
LAB01011.07	100 ~ 1000ul
LAB01011.08	500 ~ 5000ul
LAB01011.09	1000 ~ 10000ul



Number Reading Variable Volume Pipette

Art No: LAB01009

LAB01009.01	0.1 ~ 2.5ul
LAB01009.02	0.5 ~ 10ul
LAB01009.03	2 ~ 20ul
LAB01009.04	5 ~ 50ul
LAB01009.05	10 ~ 100ul
LAB01009.06	20 ~ 200ul
LAB01009.07	50 ~ 1000ul
LAB01009.08	100 ~ 1000ul
LAB01009.09	200 ~ 1000ul
LAB01009.10	1 ~ 5ml



Pipette Rack, 6 Places

Art No: LAB01012



Bottle-Top Dispenser

Art No: LAB01014

LAB01014.01	Volume 0.5 ~ 5ml
LAB01014.02	Volume 1.0 ~ 10ml
LAB01014.03	Volume 2.5 ~ 25ml
LAB01014.04	Volume 5.0 ~ 50ml



Number Reading Variable Volume Pipette

Art No: LAB01010

LAB01010.01	0.5 ~ 10ul
LAB01010.02	2 ~ 20ul
LAB01010.03	5 ~ 50ul
LAB01010.04	10 ~ 100ul
LAB01010.05	20 ~ 200ul
LAB01010.06	50 ~ 200ul
LAB01010.07	100 ~ 1000ul
LAB01010.08	200 ~ 1000ul
LAB01010.09	1 ~ 5ml



Pipette Rack

Art No: LAB01013



Bottle-Top Dispenser

5-25ml is suitable for continuously dispensing liquid.

Technical information:

Art No: LAB01015

Description	Bottle-Top Dispenser
Volume	5-25ml
Test Volume	5ml
Accuracy	±0.7ml



Electric Pipette

Art No: LAB01018

Single-channel electric pipette-onepipet

Order No.	Volune Range	Increment	Partial volume	Systematic error		Random error	
			µl	±µl	≤%	±µl	≤%
601112	0.1-3µl	0.01µl	0.3/1.5/3	0.03/0.036/0.039	10/2.4/1.3	0.018/0.024/0.024	6/1.6/0.8
601122	0.2-10µl	0.01µl	1/5/10	0.025/0.075/0.1	2.5/1.5/1	0.015/0.035/0.04	1.5/0.7/0.4
601132	0.5-20µl	0.02µl	2/10/20	0.15/0.15/0.2	7.5/1.5/1	0.04/0.05/0.06	2/0.5/0.3
601142	2-100µl	0.1µl	10/50/100	0.2/0.3/0.5	2/0.6/0.5	0.1/0.12/0.15	1/0.24/0.15
601152	5-200µl	0.2µl	20/100/200	0.5/0.8/1.5	2.5/0.8/0.75	0.2/0.25/0.4	1/0.25/0.2
601162	10-500µl	0.5µl	50/250/500	0.8/1.2/2	1.6/0.48/0.4	0.35/0.6/0.8	0.7/0.24/0.16
601172	50-1000µl	1µl	100/500/1000	2/2.5/4	2/0.5/0.4	0.6/1/1.5	0.6/0.2/0.15
601182	0.1-5ml	5µl	500/2500/5000	5/10/25	1/0.4/0.5	2/4/7	0.4/0.16/0.14



Micro Pipette 12 Channels

Art No: LAB01016	
LAB01016.01	0.5ul Fixed
LAB01016.02	1ul Fixed
LAB01016.03	2ul Fixed
LAB01016.04	2.5ul Fixed
LAB01016.05	5ul Fixed
LAB01016.06	10ul Fixed
LAB01016.07	20ul Fixed
LAB01016.08	25ul Fixed
LAB01016.09	50ul Fixed
LAB01016.10	100ul Fixed
LAB01016.11	200ul Fixed
LAB01016.12	250ul Fixed
LAB01016.13	300ul Fixed
LAB01016.14	0.5-10ul Adjustable
LAB01016.15	5-50ul Adjustable
LAB01016.16	50-300ul Adjustable



Motorized Pipette Controller

Art No: LAB01017

Specifications:

- Operating and charging temperature+10℃ to+35℃
- Pipetting speed: 50ml in less than 10 seconds
- For glass and plastic pipettes from 0.1 to 200ml
- Approx. twelve hours of continuous pipetting (with a 10ml pipette) without recharging
- Lithium battery 2.4v/700mAh
- Colors Optional: Dark Blue, Dark Green,Gray, Megenda



Centrifuge 800

Art No: LAB02001
0-4000rpm, 20ml x 6



Centrifuge 80-1

Art No: LAB02003
0-4000rpm,20ml x 6,with timer



Mini Centrifuge

LAB02002.01, Mini Centrifuge, 4K/Min
LAB02002.02, Mini Centrifuge, 7K/Min
LAB02002.03, Mini Centrifuge, 10K/Min
LAB02002.04, Mini Centrifuge, 12K/Min
LAB02002.05, Mini Centrifuge, 4K/Min and 7K/Min
LAB02002.06, Mini Centrifuge, 4K/Min,7K/Min and 10K/Min
Rotors:
1. Angular Rotor: 2/1.5/0.5/0.2ml x 8
2. PCR Strip Tube: 0.2ml x 8 x 2



Centrifuge 80-2

Art No: LAB02004
0-4000rpm,20ml x 12,with timer



Centrifuge 90-4

Art No: LAB02005
0-4000rpm,15mlx18,with timer



Centrifuge 80-2B

Art No: LAB02006
0-4000rpm,20ml x 12,with timer



Centrifuge KA-1000

Art No: LAB02007
0-4000rpm,15ml x 8,with timer



Centrifuge TDL-60C

Art No: LAB02008
0-6000rpm,15ml x 12,with timer



Centrifuge SH120

Art No: LAB02009
0-12000rpm,24 capillary tubes, with timer 60 min



Centrifuge SH120-II

Art No: LAB02010
0-12000rpm,24 capillary tubes, with timer 99min



Centrifuge 90-1

Art No:LAB02011
0-5000rpm, 20ml x 12, with timer



Centrifuge LD-4

Art No: LAB02012
0-4000rpm, 100ml x 4,with timer



Micro Hematocrit Centrifuge SH120-I

Art No: LAB02013
0-12000rpm,24 capillary tubes, with timer 60 min



Centrifuge 800D

Art No: LAB02015
0-4000rpm, 20ml x 6, with timer



Centrifuge 80-2E

Art No.: LAB02016
0-4000rpm, 20ml x 8, with timer



Centrifuge 800F

Art No: LAB02017
0-4000rpm, digital display 20mlx6, with timer



Centrifuge 80-2C

Art No.: LAB02018
0 ~ 4000rpm, 20ml x 12 with timer 0 ~ 99min



Centrifuge TGL-12B

Art No.: LAB02019
0 ~ 12000rpm, 24 capillary tubes (ϕ 1.5mm x 75mm) with timer
0 ~ 30min



Centrifuge 90-2

Art No.: LAB02020
0 ~ 4000rpm, 20ml x 12 with timer 0 ~ 60min



Centrifuge TGL-16A

Art No.: LAB02021
0 ~ 16000rpm, 0.5ml x 12/1.5ml x 12 with timer 0 ~ 30min
Rotor 5ml x 6 optional.



Centrifuge TGL-16C

Art No.: LAB02022
0 ~ 16000rpm, 0.5ml x 12/1.5ml x 12 with timer 0 ~ 30min
Rotor 5ml x 6 optional.







Spinplus Centrifuge

Art No: LAB02023

The centrifuge is ideal for the separation of serum, plasma, urea, blood samples and other routine applications in hospital and research laboratories.

- Safety lid-lock
- LCD display
- Lid opens automatically
- The operation interface simple and easy
- RPM and RCF can be seitched in display showing
- 8 or 6 of 15ml conical tubes with screw caps can be placed

Product Information:
Spinplus is the most powerful and competitive centrifuge in its class. It can be placed 6 or 8 of 15ml conical tubes with screw caps. The speed range is 100-5000RPM.

Features:
- Gentle deceleration at low speed with efficient separation. Acceleration and deceleration time(20-80 seconds) can be adjusted.
- The LCD display can be changed between RPM and RCF.
- Separate short spin button for convenient and quick spins.
- Automatic open of the lid when operation stops to save processing time.
- Operation can be timed from 10 seconds to 99 minutes with bell signal when operation finishes.
- Safety lid-lock to prevent opening the centrifuge lid until the rotor stops spinning.

Model	LAB02023
Power supply	110V-60Hz or 230V-50V/60Hz
Power requirement	40W
Speed range (rpm)	100-5000rpm (in 100rpm increments)
Relative centrifugal force (rcf)	3047xg
Timing	15 sec---99min
Acceleration time to max speed	20-80 seconds available
Deceleration time from max speed	20-80 seconds available

Art No.	Specification
LAB02023.01	Centrifuge with 15mlx6 rotor
LAB02023.02	Centrifuge with 15mlx8 rotor
LAB02023.03	Centrifuge with 5mlx12 rotor
Rotors for option	Rotor(15mlx6) for 15mlx6(D12x75 glass tube)
	Rotor(15mlx8) for 15ml conical tube with screw caps
	Rotor(5mlx12) for 5ml conical tube with screw caps



6 tubes metal rotor



8 tubes metal rotor



SmartSpin Microcentrifuge

Art No: LAB02024

Feature:

SmartSpin Microcentrifuge is perfect for quick spindown, the Multi-Rotor can be placed 12 microtubes and / or 4(8x0.2ml) PCR strips and the Strip-Rotor can be placed 4 (12x0.2ml) PCR strips. The Max speed can reach 12000rpm. It is a personal centrifuge with unmatched capacity and flexibility.

- Timer from 1 sec-999min
- Multi-Rotor for tubes and strips
- LCD display of time and speed
- Double capacity of minicentrifuge
- Adjustable speed from 1000rpm-12000rpm

Technical Data:

Capacity: 12x1.5ml / 2.0ml tubes
32x0.2ml PCR tubes
4xPCR strips (8x0.2ml)
4xPCR strips (12x0.2ml)

Speed: 1000-12000rpm adjustable
Operating Temp: 5℃-40℃
Power: 100-250V, 50-60Hz 30W

Order information		
Art No.	Code.No.	Specification
LAB02024.01	SmartSpin-7	Speed 1000-7000rpm Microcentrifuge, RCF 3240*g with multi-rotor
LAB02024.02	SmartSpin-12	Speed 1000-12000rpm Microcentrifuge, RCF 9515*g with multi-rotor
Rotors for option	Multi-Rotor	12x1.5ml / 2.0ml tubes & 4xPCR strips (8x0.2ml) Rotor
	Strips-Roto	4xPCR strips (12x0.2ml) Rotor
	5ml-Rotor	4x5ml Rotor
	Capillary-Rotor	24 Capillary hematocrit Rotor



Centrifuge TD4



Centrifuge TD4S

Features:

1.With micro-computer processor,digital display,brushless motor driving, and 10 groups data storage
2.Acceleration/deceleration time very short, shortest less than 5s.
3.Electronic locking, stainless steel inner chamber
4.With RCF button, parameters can be changed when running
5.With self diagnostic system on over speed, non-balance and cover lock, etc.

Technical specification:

Art No	LAB02025. 01	LAB02025. 02	LAB02025. 03	LAB0206
Model No.	TD4-4K	TD4-5K	TD4-6K	TD4S-4K
Max Speed	4000r/min	5000r/min	6000r/min	4000r/min
Max RCF	2680×g	4500×g	5800×g	2680×g
Timer Range	0-90min			
Power	80W	160W	220W	80W
Noise	﹤55dB(A)			
Angular Rotors for Option	6×20/15/10ml		6×20/15/10ml	6×15ml
	8×20/15/10ml		8×20/15/10ml	12×10ml
	12×20/15/10ml			
	18×10 ml			
	24×10 ml			





M400D-S-2



M400D-S-3



M400D-S-4



M400D-S-5



M400D-S-6



M400D-S-7



M400D-S-9



M400D-S-10

Air-Cooled Lower Speed Centrifuge

Art No: LAB02027

Feature:

Smaller volume, saving laboratory space.Innovative design , noise (Max speed) ≤57dB.Individual "Flash" button to achieve fast and convenient centrifugation.7 kinds of angle rotor can be exchanged.The original acceleration and deceleration control suited to blood and cell gradient centrifugation. Automatic imbalance recognition system ensures the safety centrifuging.Effective centrifugal timing function, the countdown starts till gets set speed.

Using advanced and reliable Infineon control system, it can control the speed, time and RCF accurately. brushless frequency induction motor free of maintenance, wide range of speed 100-6,000rpm accuracy±15rpm.The increment of RPM and RCF is 10rpm/10×g, time setting range is 1-99mins or 1-59seconds,.Accuracy ±1 second. "Flash" button to achieve fast and convenient centrifugation.

Automatically save the last experimental data.The high-strength material of machine and rotor can resist a variety of chemical corrosion.

Large-size LED digital display show the operating parameters clearly.

Single-button rotation control, changed the parameters quickly.The machine includes the lid protection、 overspeed protection、 over-voltage over-current protection and imbalance detection system with sound alarm when operation finishes,.also stops running the same time.LED display shows the error code.

Forced air cooling technology improve efficiency for the heat exchange,ensure the temperature-sensitive sample safety.Automatically open the lid after centrifuging, prevent the sample overheating and pick and place samples easily.

Technical data:	
Model	M400D
Input voltage	AC230V/50～60Hz
Input power[W]	420W
Max load capacity[ml]	400ml(50ml×8/100ml×4)
Speed range [r/min.]	100～6000/Speed increment 10rpm
Max RCF[×g]	5150/RCF increment 10×g
Centrifugation Time	1-99minutes / 1-59seconds; 2 modes selectable; accuracy±1seconds
Drive motor	Brushless frequency induction motor with free of maintenance
Display show type	Highlight full segment LED display
The noise of The noise of Maximum speed (≈)	≤56dB(A)
Maximum acceleration[sec]	10
Maximum deceleration[sec]	15

Technical data:			
Order No.	Part No.	Configuration information	Remarks
M400D-15090	M400D	Machine	
M400D-15091	M400D-S-1	Rotor stand/Suitable for M400D-S-2～M400D-S-7 Basket	Standard
M400D-15092	M400D-S-2	Basket / 100ml×4 holes	Optional
M400D-15093	M400D-S-3	Basket / 50ml×4 holes	Optional
M400D-15094	M400D-S-4	Basket / 50ml×8 holes	Optional
M400D-15095	M400D-S-5	Basket/ 8/10ml×16 holes	Optional
M400D-15096	M400D-S-6	Basket / 15ml×16 holes	Optional
M400D-15097	M400D-S-7	Basket / 5ml×24 holes	Optional
M400D-15098	M400D-AP-8	Adapter 3ml×24pcs/ M400D-S-7	Standard
M400D-15099	M400D-S-9	Micro well plate 4×96/Deep well plate 2×96	Optional
M400D-150910	M400D-A-10	Angle rotor / 15ml×12 holes	Optional



H1850 Tabletop High Speed Centrifuge

Art No: LAB02028

Product description:
10 rotors and many kinds of adapters are availble for H1850,6x50ml(round/conical)are widely used among them. It has high speed rotor(18500rpm)and high capacity rotor(4x100ml).The special wind deflector can keep the sample in a good state,and the damping system can reduce noise(blow 60dB(A)).

Technical Parameters			
Model	H1850	Noise	≤60dB(A)
Max.speed	15000rpm	Wattage	450w
Max.RCF	21532xg	Dimension(WxDxH)	420x530x370mm
Max.Capactiy	4x100ml	Package Dimension(WxDxH)	487x762x422mm
Speed Accuracy	±30rpm	Net Weight	48kg
Time setting range	1min to 99min59s		

Rotor Options:



Order No.: 805000
Max.Speed: 18500rpm
Max. RCF: 23797xg
Rotor Cap.: 12x1.5/2.2ml
Adapter: 805004(0.5ml)
805005(0.2ml)



Order No.: 806200
Max.Speed: 12000rpm
Max. RCF: 13200xg
Rotor Cap.: 8x15ml falcon
Adapter: 806205(5ml)



Order No.: 805300
Max.Speed: 12500rpm
Max. RCF: 16060xg
Rotor Cap.: 12x10/5ml
Adapter: 805306(5ml)



Order No.: 805400
Max.Speed: 11000rpm
Max.RCF:12850xg
Rotor Cap.: 6x50ml
Adapter: 805405(30ml)
805406(20ml)
805408(10ml)
805409(5ml)
805410(1.5ml)
805412(25ml)



Order No.: 805900
Max.Speed: 11000rpm
Max.RCF: 12580xg
Rotor Cap: 6x50ml falcon
Adapter: 805915(15ml)



Order No.: 805500
Max.Speed: 15000rpm
Max.RCF:21532xg
Rotor Cap:24x1.5/2.2ml
Adapter: 805005(0.2ml)
805004(0.5ml)



Order No.: 807000
Max.Speed: 13000rpm
Max.RCF: 16410xg
Rotor Cap.:48x0.5ml



Order No.: 805700
Max.Speed: 10000rpm
Max.RCF: 10744xg
Rotor Cap.:4x100ml



Order No.: 852300
Max.Speed: 4000rpm
Max.RCF: 2200xg
Max.Cap.:2x2x96well



Order No.: 852400
Max.Speed: 5000rpm
Max.RCF: 3773xg
Max.Cap.:4x100ml



Order No.: 852410
Round bucket
Cap.:4x100ml
Adaptors:
852412(50ml falcon)
852414(50ml)
852411(15ml falcon)
852413(15ml)



Order No.: 852351
microplate bucket
Max.Cap.:2x2x96well



LAB02029

High-Speed Refrigerated Centrifuge



LAB02030

High-Speed Centrifuge

Desktop structure,this machine adopts microcomputer control, free maintenance carbon brush AC frequency conversion motor driver. Quiet operation, high speed, precise. programmable operation; directly set the centrifugal force, make more accurate and scientific centrifugal data .

Widely used in: teaching, scientific research, and biochemical products, medical inspection, food safety, and agricultural product testing, animal husbandry and fishery detection, microbial,molecular chemistry, environmental protection,quality inspection, etc.

Features
- Microcomputer controls the centrifugal force, speed, centrifugal time, and LED displayed
- Touch keyboard to set parameters, have special centrifugal force set button
- Carbon brush AC frequency conversion motor drive, no maintenance
- Double door cover door lock system, the start is unlocked, ensure safety of operation
- Differential centrifugal*: 20 kinds of working procedures for choice, the user can freely program, call the working parameters of the set, to avoid repeated set, improve the working efficiency
- 15 kinds of Acceleration and deceleration choices. Users can set the speed according to the sample demand randomly
- With constant timing function; the point start instantaneous centrifugal
- Synchronous speed centrifugal force to set
- Double steel structure, stainless steel centrifugal cavity, to avoid erosion
- Automatic balance, voice signal, automatic imbalance recognition
- When the program is running, it can change parameters, no need to stop
- The fastest acceleration and deceleration time≤15s(0.5mlx12 Angle rotor)
- Automatic rotor identification, speeding protection
- Fixed temperature start*: The rotor dormant when in refrigeration function; Automatic temperature compensation function ensure the sample in safety centrifugal temperature. Imported compressor.

NOTE: 1. *Differential centrifugal: The user shall provide the relevant centrifugal time, centrifugal force or speed;
2. *Fixed temperature start: For LAB02018 only

LAB02029	
Max speed	18500rpm
Max RCF	26019xg
Maximun capacity	10mlx12
Speed accuracy	±20rpm
Temperature range	-20℃~40℃
Temperature accuracy	±1℃
Timer range	1s~999 min/continuous/short spin
Noise	≤60dB
Power	220V 50Hz
Weight	70kg
Dimensions(LxWxH MM)	545x505x410

Angle rotor model	capacity	Max speed(rpm)	Max RCF(xg)
H0.512	0.5mlx12	18500	16428
H0212	1.5ml/2.2mlx12	18500	26019
H0224	1.5ml/2.2mlx24	14500	19980
H0512	5mlx12	14500	15631
H1012	10mlx12	13000	17193
H0236	1.5ml/2.2mlx36	12000	13684
H0.548	0.5mlx48	12500	13625
H0.232	0.2mlx32	12000	10464

LAB02030	
Max speed	18500rpm
Max RCF	26019xg
Maximun capacity	10mlx12
Speed accuracy	±20rpm
Timer range	1s~999 min/continuous/short spin
Noise	60dB
Power	220V 50Hz
Weight	30xg
Dimensions(LxWxH MM)	330x390x325

Angle rotor model	capacity	Max speed(rpm)	Max RCF(xg)
H0.512	0.5mlx12	18500	18366
H0.524	0.5mlx24	18500	26019
H0212	1.5ml/2.2ml/12	18500	26019
H0224	1.5ml/2.2ml/24	14500	19980
H0512	5mlx12	16500	20240
H1012	10mlx12	12500	15896





Low Speed Centrifuge

Art No: LAB02031

Product description:

This low speed centrifuge is suitable for extraction of medical products, blood bank, clinical trial and of blood serum, plasma, body fluids and biological specimen in biology laboratory.

Product Features:

1. LCD screen displays time and speed, convenient to set and read.
2. Three patterns: Short mix, timing set:30 to 59 seconds, continuous running. More efficient.
3. Sound alert after the rotor stops . LCD screen processing display.
4. Adjustable speed:300 - 4500 rpm, relative centrifugal force:2490×g. High accuracy of speed and time, excellent performance. More samples at one time with high efficiency.
5. Equipped with multiple rotors, large capacity rotor specially made with multiple options.
6. Applied with high-performance CPU control mode, high speed accuracy and excellent performance.
7. High safety, low noise. High strength plastic alloy rotor and excellent balance technology for quiet and stable operation
8. Double-level safety lid. Electronic lock is for safer and more reliable rotor operation.
9. DC brushless motor drive quickly and effortlessly accelerates the rotor to set speed, free of maintenance.
10. Timer commences once the set speed is reached, so the separation time is more accurate. Reasonable brake curve makes sure no mixing of sample. More efficient separation.

Art No.: LAB02031	
Technical parameters	
Speed Range	300 ~4500rpm (increment: 100rpm)
Max. RCF	2490xg (increment: 100xg)
Speed Accuracy	±20rpm
Max. Sample Capacity	10ml/7ml/5mlx16, 15mlx12, 50mlx6
Time Range	30 ~59s or continuous
Safety	self-lock, over-speed, statue diagnosis system
Working Noise	≤56dB
Acceleration / Deceleration	around 20s
Other Functions	speed/RCF switch, touch operation, operating status display, alert
Voltage	AC100~230V, 50/60Hz
Power	120W
Dimension (WxDxH)	300 x 431 x178mm
Net weight	6kgs



Micro-Plate Centrifuge

Art No: LAB02032

Product description:

This micro-plate centrifuge is a unique mini instantaneous centrifuge which is specially designed for the 96-hole micro plate. It can quickly spin down droplets and condensate. It is used before and after thermal cycling to improve PCR yield. Put the micro plate from the slots of the top vertically (leakage for liquid will be kept in the micro plate under the action of surface tension), the spin-down work is easily finished. Two operation modes humanly configured – short mix and time setting operations, make the experiment more convenient and efficient.

Product features:

1. Wide applicable range. It suit for skirted, semi-skirted, non-skirted and all standard PCR plates.
2. Strong centrifugal power. Accelerate to 2500rpm quickly. From top speed to stop cost around 10 seconds.
3. Using DC brushless motor. Free of maintenance. Working stable and quiet.
4. Humanized design. Two modes-pressing for operating and setting time for operating-make the experiments more convenient and efficient.
5. Smart size, simple operation. The cover can be fully opened to 95°,convenient to put and fetch the plates
6. Quickly spin down droplets and condensation. Used before and after thermal cycling to improve PCR yield.

Art No.: LAB02032	
Technical Parameters	
Capacity	2 PCR Plates
Rotor Speed	2500 rpm
G Force	500 g
Rotor	Fixed Vertical
Dimensions	219 x 190 x 186 mm
Weight	3 KG
Voltage	AC100V-230V 50-60 Hz



Vortex Mixer

Art No: LAB02101

Performance and feature:

- Compact design, low center of gravity provides stable operation
- Use DC Brushless motor, long-life, low noise. The motor drives directly.
- Steplessly variable frequency
- All the fixtures the instrument can distinguish automatically, with automatic speed limit.
- Inching and consecutive operations, easy to switch.
- Centric balance piece designing, amplitude can be up to 4.5mm.
- Metal hull, reliable and strong.
- Timing function, also can be countdown and digital display.
- Digital display of the set speed and running speed.


A8-1

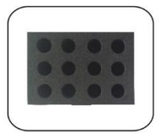

A8-2


A8-3


A8-4


A8-5


A8-6


A8-9

Specification:	
Model	LAB02101
Oscillation Mode	Circumferential
Turnaround diameter	4.5mm
Speed range	200-3000rpm / min, stepless speed regulating
Voltage	100~240V
Maximum load	1.5kg
Timing function	1s - 999min
Speed setting and display	0-3000rpm, Real-time digital display of speed and time
Motor output power	15W
Dimension(mm)	210x150x69
Weight	4kg
Protection class	IP 21

Configuration information:		
Part No.	Specification	Remarks
A8-1	Plate for the tube and small container of which the diamater no more than 50mm.Slot structure to prevent from sliding when running.	Standard
A8-2	Plate for the flask of which the diamater no more than 85mm.	Standard
A8-3	ELISA plate fixture.	Standard
A8-4	Oscillation diameter 10mm, 30 holes(tubes)	Standard
A8-5	Oscillation diameter 17mm, 5 holes(tubes)	Standard
A8-6	Oscillation diameter 12-13mm, 16 holes(tubes)	Standard
A8-7	Oscillation diameter 15mm, 12 holes(tubes)	Optional
A8-8	PCR 0.2ml tube x 8 or 0.2ml tube PCR96 plate	Optional
A8-9	Oscillation diameter 17mm, 12 holes(tubes)	Optional
A8-10	Oscillation diameter 50mm, 2 holes cone/round bottom	Optional
A8-11	Oscillation diameter 25mm, 4 holes(penicillin plate)	Optional



Vortex Mixer

Art No.: LAB02102

Power: 50W
Rotation speed: 2800 rpm
Working method: Continuous, touch and speed regulation
Plate: Exchangable between bowl type and flat type
Overall dimensions: 170×120×170mm



Vortex Mixer

Art No.: LAB02103

Blending speed: 2800 rpm
Working method: Vibrating and continuous
Power: 30W
Overall dimensions: 150x105x115mm
Weight: 3kg



Vortex Mixer

Art No.: LAB02104

Power: 40W
Rotation speed: 3000 rpm
Operation mode: Touch / continuous
Plate: 55 mm rubber



Vortex Mixer

Art No.: LAB02105

Power: 40W
Rotation speed: 3000 rpm
Operation mode: Continuous,
Touch and Stepless speed regulation
Plate: 55 mm rubber



Vortex Mixer

Art No.: LAB02106

Characteristics:
1.Suitable for touching or continuous operation.
2.With wide speed range: 0-2500rpm, stepless speed regulation of motor.
3.Power: 60W
4.Size: 127x130x160mm



Vortex Mixer XH-B

Art No: LAB03001

Speed: 2600 rpm
Running mode: Constant
Power rating: 12W
Plate size: ϕ100mm



Vortex Mixer XH-C

Art No: LAB03002

Power rating: 12W
Speed: 2600 rpm
Running mode: Constant, Inching
Size: 105mm diameterx142mm height



Vortex Mixer XH-D

Art No: LAB03003

Power rating: 12W
Working method: Constant,Inching
Speed: 2600 r/m
Size: 170x120x170mm



Oscillator KJ-201BD

Art No: LAB03004

Speed: 20-210 r/m
Power rating: 10W
Off-center rotary diameter: 22mm
Working plate size: 315x218mm
Working method: Continuous/Timing
Timing range: 0-15min/0-60min



Oscillator KJ-201BS

Art No: LAB03005

Speed: 20-210 r/m
Power rating: 10W
Off-center rotary diameter: 22mm
Working plate size: 224x152mm
Working method: Continuous/Timing
Timing range: 0-15min/0-60min



HY-4 Multi-Function Oscillator

Art No: LAB03008

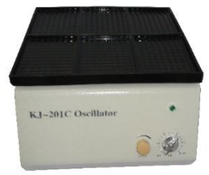
HY-4 Multi-Function Oscillator
Working Style: Reciprocating
Oscillation Diameter: 22mm
Oscillation Speed: 0-300rpm
Timing Range: 0-120min
Working Dimension: 43x26cm



Roller Mixer, Digital Display

Art No: LAB03013.01

Speed and time clearly displayed by LED.
Main Technical Data:
Roller quantity: 7
Speed swing: 20-100 times/min
Rolling: 20-100 r/min
Swing amplitude: 22±1mm
Timing range: 0-999min
Running mode: Timing/continuous
Power rating: 10W



Oscillator KJ-201C

Art No: LAB03006

Power rating: 10W
Oscillating frequency: 200-2800 r/m
Working plate size:278x270mm
single plate 128x86mm, 6pcs
Timing range: 0-15min



Roller Mixer

Art No: LAB03012.01

The instrument is used for complete mixing of blood, powder reagents, etc. in the anticoagulation tubes or vials.
Main Technical Data:
Roller quantity: 7
Speed: Swing: 20-80 times/min
Rolling: 20-80 r/m
Swing amplitude: 22±1mm
Power rating: 10W



Roller Mixer, Digital Display

Art No: LAB03013.02

Speed and time clearly displayed by LED.
Main Technical Data:
Roller quantity: 7
Speed swing: 20-100 times/min
Rolling: 20-100 r/min
Swing amplitude: 22±1mm
Timing range: 0-999min
Running mode: Timing/continuous
Power rating: 10W
Made of plastic.



HY-5 Multi-Function Oscillator,Digital

Art No: LAB03007

Working style: Cycling
Oscillating diameter: 20mm
Oscillating speed: 0-360rpm
Timing range: 0-120min
Working size: 45x35cm



Roller Mixer

Art No: LAB03012.02

The instrument is used for complete mixing of blood, powder reagents, etc. in the anticoagulation tubes or vials.
Main Technical Data:
Roller quantity: 7
Speed: Swing: 20-80 times/min
Rolling: 20-80 r/m
Swing amplitude: 22±1mm
Power rating: 10W
Made of plastic.



Rocking Mixer

Art No: LAB03014

It's a machine which swings up and down with little swing amplitude. Frequency adjustable.
Main Technical Data:
Rocking Speed: 15r/m
Rocking angle: ±25°
Working plate size: 252x170mm
Power rating: 6W



Micro-Plate Shaker

Art No: LAB03022

Product description:
Micro plate shaker is mainly applied in solution mixing and shaking with PCR plate (96-holes/384-holes), cell culture plate (24-holes/48-holes/96-holes etc.) for immunoassay and dyeing experiments. It is safe used in low temperature environment or low temperature incubator. it is designed compact with simple and convenient operation. It uses DC brushless motor, safe, stable and no noise.

Product features:
1. LED digital display. Simple and easy operation designed panel. Display time and speed accurately.
2. Microprocessor controls speed and time, safe, stable, no noise.
3. Accommodate 4 standard PCR plates or micro plates, mixing trace amount of sample efficiently.
4. DC brushless motor, long life and free of maintenance. Provide both gentle and powerful shaking.
5. Provide timing function. Alarm notification when program completes.

Art No.: LAB03022

Technical Parameters	
Speed Range	300-1500rpm
Shaking Speed Range	300-1500 rpm/min – Standard
	300-1000 rpm/min – Deepwell with full load
Timer	99h59min
Orbit	3mm (horizontal)
Dimensions	284x264x121mm
Weight	6KG



Orbital Shaker GS Series

Art No: LAB03023

Product description:
GS series orbital shaker is compact and amazingly designed. It is used for any mixing applications in different industries. Built with DC brushless motor, adopted micro-computer control technology, the orbital shaker is easy to operate. Gentle shaking, it is applied in different laboratories of molecular biology, microbiology, immunology, chemistry, etc. It is low-energy, safe, stable and no noise.

Product features:
1. Speed adjustable. Gentle shaking, applied in different industries.
2. LED display time and speed.
3. Compact and clean designed, streamlined fuselage, simple operation, convenient for cleaning.
4. Timing function. Beep alarm when operation ends.
5. DC brushless motor, safe, long life and free of maintenance. Operating silent and stable.
6. Different platforms to adapt different conical flasks and other sample containers for optional choices.

Order No.	GS-10 Orbital Shaker	GS-20 Orbital Shaker	GS-30 Orbital Shaker
Speed Range	50-350 rpm	50-300 rpm	50-250 rpm
Orbit	10mm	20mm	30mm
Timing Range	1min~99h59min		
Max. Loading Capacity	2.0kgs		
Operating Condition Temp.	4 ~45°C		
Dimensions	284 x 264 x 108 mm		
Voltage	AC 100 ~230V		

Platform Option :



PW1500 platform | P6-250 platform | UP-12 Universal platform | PP12-100 Platform | PP-4 Flat platform | PP-4A Double flat platform | PW-260 Universal platform

UP-12 can accommodate 1000ml flask*2, or 250ml flask*4.



Incubator Shaker ES-60 | Incubator Shaker ES-60+ | Incubator shaker ES-60C

ES-60 Series Incubator Shaker

Art No: LAB03024

Product description:
The incubator shaker ES-60 series is temperature controlled biochemical instrument with incubation and shaking functions. It is widely used in cell culture, fermentation, hybridization, biochemistry, research of enzyme and cell tissue, etc. which requirs higher quality of temperature controlling and shaking speed. It can dynamically and statically cultivate microbial cell and all kinds of strains.

Product features:
1.Integrated incubator and shaker. Save laboratory space.
2.Rational and compact design, good temperature uniformity, low noise.
3.Micro-processor controls temperature and shaking speed. Timing function built in.
4.Design of Human-machine interface and operation panel. Cover can be wide-angle opened, convenient to watch and fetch the sample.
5.Built-in cover switch. When the cover is open, air circulation, heating and shaking will automatically stop. No temperature overshoot problem.
6.Unique speed control circuit to ensure shaker smooth starting and avoid liquid spilling.
7.Speed of the circulation fan is adjustable to avoid high-speed of the circulation fan making the sample volatilizing.
8.Independent temperature alarm system. Heating is cut off when temperature over the limited value.
9.Alarm when program completes.
10. Brushless DC motor, long life and maintenance free.

Technical Parameters				
Order No.	ES-60	ES-60+	ES-60E	ES-60C
Temperature Control Range	R.T.+5~60℃			R. T. +4~60℃
Temperature Display Accuracy	0.1℃			
Temperature Control	≤±0.3℃			
Timing Range	0~99h59min			
Shaking Speed	50~300 rpm		300~1200 rpm	50~300 rpm
Orbit	20mm (horizontal)		2mm (horizontal)	20mm (horizontal)
Power Supply	AC110V/220V	AC110V/220V	AC110V/220V	AC110V/220V
	500W	700W	500W	700W
Dimension	420x360x320mm	660x610x440mm	420x360x320mm	385x545x320mm
Optional Platform	Refer to "Platform Option"	Standard pallet PW-420 (410x420x65mm)	Standard pallet PW-1500 (280x214x13mm)	Refer to "Platform Option"

Platform Option :



PW1500 platform | P6-250 platform | UP-12 Universal platform | PP12-100 Platform | PP-4 Flat platform | PP-4A Double flat platform | PW-260 Universal platform

UP-12 can accommodate 1000ml flask*2, or 250ml flask*4.



Micro-Plate Shaker

Art No: LAB03022

Product description:
Micro plate shaker is mainly applied in solution mixing and shaking with PCR plate (96-holes/384-holes), cell culture plate (24-holes/48-holes/96-holes etc.) for immunoassay and dyeing experiments. It is safe used in low temperature environment or low temperature incubator. it is designed compact with simple and convenient operation. It uses DC brushless motor, safe, stable and no noise.

Product features:
1. LED digital display. Simple and easy operation designed panel. Display time and speed accurately.
2. Microprocessor controls speed and time, safe, stable, no noise.
3. Accommodate 4 standard PCR plates or micro plates, mixing trace amount of sample efficiently.
4. DC brushless motor, long life and free of maintenance. Provide both gentle and powerful shaking.
5. Provide timing function. Alarm notification when program completes.

Art No.: LAB03022	
Technical Parameters	
Speed Range	300-1500rpm
Shaking Speed Range	300-1500 rpm/min – Standard
	300-1000 rpm/min – Deepwell with full load
Timer	99h59min
Orbit	3mm (horizontal)
Dimensions	284x264x121mm
Weight	6KG



Orbital Shaker GS Series

Art No: LAB03023

Product description:
GS series orbital shaker is compact and amazingly designed. It is used for any mixing applications in different industries. Built with DC brushless motor, adopted micro-computer control technology, the orbital shaker is easy to operate. Gentle shaking, it is applied in different laboratories of molecular biology, microbiology, immunology, chemistry, etc. It is low-energy, safe, stable and no noise.

Product features:
1. Speed adjustable. Gentle shaking, applied in different industries.
2. LED display time and speed.
3. Compact and clean designed, streamlined fuselage, simple operation, convenient for cleaning.
4. Timing function. Beep alarm when operation ends.
5. DC brushless motor, safe, long life and free of maintenance. Operating silent and stable.
6. Different platforms to adapt different conical flasks and other sample containers for optional choices.

Order No.	GS-10 Orbital Shaker	GS-20 Orbital Shaker	GS-30 Orbital Shaker
Speed Range	50-350 rpm	50-300 rpm	50-250 rpm
Orbit	10mm	20mm	30mm
Timing Range	1min~99h59min		
Max. Loading Capacity	2.0kgs		
Operating Condition Temp.	4 ~45°C		
Dimensions	284 x 264 x 108 mm		
Voltage	AC 100 ~230V		

Platform Option :



PW1500 platform | P6-250 platform | UP-12 Universal platform | PP12-100 Platform | PP-4 Flat platform | PP-4A Double flat platform | PW-260 Universal platform

UP-12 can accommodate 1000ml flask*2, or 250ml flask*4.



Incubator Shaker ES-60



Incubator Shaker ES-60+



Incubator shaker ES-60C

ES-60 Series Incubator Shaker

Art No: LAB03024

Product description:
The incubator shaker ES-60 series is temperature controlled biochemical instrument with incubation and shaking functions. It is widely used in cell culture, fermentation, hybridization, biochemistry, research of enzyme and cell tissue, etc. which requirs higher quality of temperature controlling and shaking speed. It can dynamically and statically cultivate microbial cell and all kinds of strains.

Product features:
1.Integrated incubator and shaker. Save laboratory space.
2.Rational and compact design, good temperature uniformity, low noise.
3.Micro-processor controls temperature and shaking speed. Timing function built in.
4.Design of Human-machine interface and operation panel. Cover can be wide-angle opened, convenient to watch and fetch the sample.
5.Built-in cover switch. When the cover is open, air circulation, heating and shaking will automatically stop. No temperature overshoot problem.
6.Unique speed control circuit to ensure shaker smooth starting and avoid liquid spilling.
7.Speed of the circulation fan is adjustable to avoid high-speed of the circulation fan making the sample volatilizing.
8.Independent temperature alarm system. Heating is cut off when temperature over the limited value.
9.Alarm when program completes.
10. Brushless DC motor, long life and maintenance free.

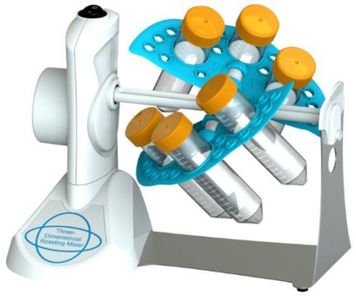
Technical Parameters				
Order No.	ES-60	ES-60+	ES-60E	ES-60C
Temperature Control Range	R.T.+5~60℃			R. T. +4~60℃
Temperature Display Accuracy	0.1℃			
Temperature Control	≤±0.3℃			
Timing Range	0~99h59min			
Shaking Speed	50~300 rpm		300~1200 rpm	50~300 rpm
Orbit	20mm (horizontal)		2mm (horizontal)	20mm (horizontal)
Power Supply	AC110V/220V	AC110V/220V	AC110V/220V	AC110V/220V
	500W	700W	500W	700W
Dimension	420x360x320mm	660x610x440mm	420x360x320mm	385x545x320mm
Optional Platform	Refer to "Platform Option"	Standard pallet PW-420 (410x420x65mm)	Standard pallet PW-1500 (280x214x13mm)	Refer to "Platform Option"

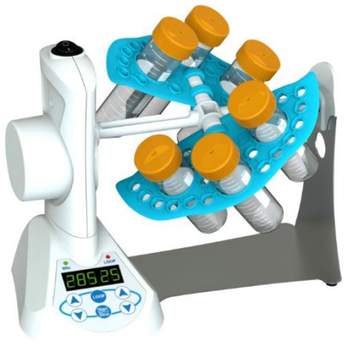
Platform Option :



PW1500 platform | P6-250 platform | UP-12 Universal platform | PP12-100 Platform | PP-4 Flat platform | PP-4A Double flat platform | PW-260 Universal platform

UP-12 can accommodate 1000ml flask*2, or 250ml flask*4.





Three-Dimensional Rotating Mixer RH-18 Series

Art No: LAB03031

Product description:

This new series of three-dimensional rotating mixer is a uniquely designed instrument which can mix samples by horizontal, vertical or any angled rotation with a variety of sample tubes. Adjusting the rotating frame (tube holder) can make the products either horizontally or vertically or between the angles of horizon and verticality to rotate. It is widely used in molecular hybridization, blood and various samples requiring mixing. Its rotation speed is moderate. In addition, the two rotating frames (tube holder) on each side of the rotating roller can be adjusted individually to meet different hybrid modes in one mixture. The 3D rotating mixer is compact, light and convenient. It is easily moved to different places, such as to a test-bed, a refrigerator or an incubator. The shell and rotating panel of this instrument adopt a special design. It's very easy to clean and decontaminate.

Product features:

1. Unique combination of adjustable rotating frames.
2. A variety of rotation modes, from mild type to somersault type rotation modes.
3. RH-18+: with reciprocating oscillation function from 20° angel to 99° angle.
4. RH-18: positive and negative rotation just gently press the rotating frame when instrument is working.
5. Widely used in molecular biology, histo-chemistry, bio-chemistry, clinical applications, etc.
6. Provide three types of rotating frames.

Technical Parameters

Order No.	LAB03031. 01	LAB03031. 02
Rotating speed	18r/min	10-40r/min
Time range	/	1s-999min
Reciprocating Oscillation Range	/	20° ~99° angle
Power	4w	
Weight	1kg	1.2kg
Power supply	220V/110V	AC100-230V
Dimension	240x145x210mm	

Optional tube holder frames

A	2 pieces	5 centrifuge tubes of 10ml /15 ml (ϕ15mm-ϕ16mm)+6 centrifuge tubes of 5ml /7 ml (ϕ12mm-ϕ13mm)
B	2 pieces	3 centrifuge tubes of 50ml +18 centrifuge tubes of 0.5ml
C	2 pieces	18 centrifuge tubes of 1.5ml / 2.0ml



Vertical Rotating Mixer

Art No: LAB03032

Product features:

1.Smart appearance, solid structure, simple operation. LED display of time and speed.
2.DC brushless motor, stable performance, low noise and long using life.
3.360° vertical circulation rotation, operating smooth and steady.
4.Different tube holder frames for option to suit different types of tubes.

Technical Parameters

Voltage	100-240VAC 50/60Hz
Motor Input Power	16W
Motor Output Power	10W
Speed Range	0-80rpm
Motor Pattern	Circling Motion
Dimension (LxWxH)	470 x 190 x 160mm
Net Weight	2.8kgs

Optional tube holder frames

Type	Description
MV80-A	1.5ml x 64
MV80-B	15ml x 22
MV80-C	50ml x 16



Large LCD shows all parameters



Magic Programmable Mixer

Art No: LAB03033

Features:

- 360° vertical rotating- for large particles long wavelength mixing
- Swinging for culture medium and large particles medium wavelength mixing
- Oscillating for small particles short wavelength mixing
- Tube holders assembled discretionarily
- Large LCD shows all the parameters.
- 2 additional custom programs (6 segments /program) can be created easily
- 10 different programs for rotation and mixing. 360° rotation and 0-360° discretionary mixing angle is available.
- Adjustable speed and time for effective mixing
- Acceptable tubes from 0.2ml to 50ml
- Cold room and incubator compatible

Adapter	DC12V,1000MA
Rotation speed	1-99RPM
Environment temperature	+4-65°C
Relative air humidity (at 20°C)%	up to 80

This Magic Programmable Mixer is a combination of variable speed rotator, and advanced multiple tube vortex in one machine , it accepts tubes from 0.2ml to 50ml ,all kinds of tube holders can be assembled discretionarily in one rack.

Order information

Order No.	Code No.	Rack No.	Specilfication
8011252	TMM-5L	/	420mm long Magic Mixer with standard rack
			(D10-12.5mm tube x 20,D16-16.5mm tube x 8,D29-29.5mm tube x 2)
Optional Racks for 8011252	/	8011252-1	Rack for diameter 10-12.5mm tube x 36
		8011252-2	Rack for diameter 16-16.5mm tube x 22
		8011252-3	Rack for diameter 29-29.5mm tube x 12
		8011252-4	Rack for diameter 16-16.5mm tube x 12
		8011252-5	Rack for diameter 29-29.5mm tube x 12
8011253	TMM-5M	/	344mm long Magic Mixer with standard rack
			(D10-12.5mm tube x 12,D16-16.5mm tube x 2,D29-29.5mm tube x 2)
Optional Racks for 8011253	/	8011253-1	Rack for diameter 10-12.5mm tube x 24
		8011253-2	Rack for diameter 16-16.5mm tube x 14
		8011253-3	Rack for diameter 29-29.5mm tube x 8
		8011253-4	Rack for diameter 16-16.5mm tube x 6
		8011253-5	Rack for diameter 29-29.5mm tube x 6
8011254	TMM-5S	/	316mm length Magic Mixer with standard rack
			(D10-12.5mm tube x 8,D16-16.5mm tube x 2,D29-29.5mm tube x 2)
Optional Racks for 8011254	/	8011254-1	Rack for diameter 10-12.5mm tube x 20
		8011254-2	Rack for diameter 16-16.5mm tube x 10
		8011254-3	Rack for diameter 29-29.5mm tube x 6
		8011254-4	Rack for diameter 16-16.5mm tube x 6
		8011254-5	Rack for diameter 29-29.5mm tube x 6
8011255	TMM-PL	/	Mixer 420x125x168 with Platform(267x154)
8011256	TMM-PM		Mixer 344x125x168 with Platform(169x154)
8011257	TMM-PS		Mixer 316x125x168 with Platform(139x154)



Type 1



Type 2



Type 3



Type 4



Type 5



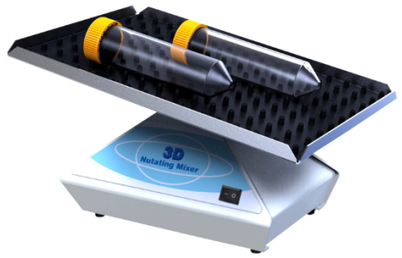
Decolorising Shaker

Art No: LAB03034

Decolorising Shaker:
This Decolorising Shaker swings up and down with little swing amplitude. Frequency adjustable. It's used for fixing of running gel spectral band, rocking of Coomassie blue and decolorization and fixing of silver nitrate staining, etc. It's used for development and fixation of X-ray film, further treatment of cellulose membrane after electrophoretic migration, molecular hybridization, cell culture and blood mixing.

Technical Data:
Rocking speed: 0-25 rpm
Rocking angle: ±25°
Working plate size: 250×200mm

Feature:
Rocking angle adjustable
Speed adjustable
Time setting



3D Gyratory Rocker

Art No: LAB03035

Product description:
This type is an economical 3D gyratory rocker with perfect 3-dimensional motion for gentle but thorough mixing. It is an ideal choice for small sample mixing. It suits for blood collection tube and centrifuge tube, applies for all blot related applications such as gel staining and destaining. The concave pad can firmly keep the tubes. and is safe for use in cold rooms and incubators.Tube Capacity: 60x1.5ml, 30x3ml, 21x7ml, 17x15ml.

Product features:
1. Gentle but thorough mixing
2. Suits for blood collection tubes and centrifuge tubes
3. Tilt angle and speed have been optimally set
4. Safe for use in cold rooms and incubators

Technical Parameters	
Speed	20rpm (fixed)
Tilt Angle	3-D / 20° (fixed)
Max. Load	0.8kg
Dimension	240×170×150mm
Net Weight	0.88 kg
Power	110V/220V



Roller Mixer LSM-80 Series

Art No: LAB03036

Product description:
This tube roller LSM-80/LSM-80D is widely used in mixing blood sample, sticky substance and Solid-liquid suspension, etc. It provides two operation modes – rolling and swinging to improve mixing efficiency and safety. It is applied in preventing blood clotting, immunoprecipitation, and other similar using.

Product features:
1.Compact and firm design, simple operation, LED display of time and speed.
2.Two types choosable – rolling type, rolling & swinging type. Continuous working mode, safe and stable.
3.With stable performance motor, operation speed adjustable, max. speed to 80rpm. Low noise, long using life.
4.Compatible with different sizes of tubes. Large range of application.

Technical Parameters

Order No.	LAB03036.01	LAB03036.02
Operation Mode	Rolling & swinging	Rolling
Amplitude	24mm	/
Max. Capacity	4kgs	
Roller Quantity	6	
Motor	Brushless DC motor	
Speed Unit	1rpm	
Roller Length	280mm	
Speed Range	10-80rpm	
Dimension(DxWxH)	450 x 260 x 120mm	
Net Weight	4.5kg	
Voltage	AC100-240 50-60HZ	
Power	25W	



Colonometer J-2

Art No: LAB04001
Input power: 20W
Magnification: 3x~9x
Range of the counter: 0-999
Counting plate: 115mm diameter
For petri dish: diameter 50-100mm



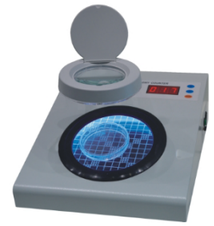
Magnetic Stirrer with Hotplate 78-1

Art No: LAB05002
Speed: 0-2400rpm
Heating power: 200W
Plate: 12.5cm diameter
Working plate: 125mm diameter



Ultra-flat Compact Magnetic Stirrer

Art No.: LAB05005
Features:
1.Automatic reverse rotation for excellent mixing
2.Protection class IP 65
3.PET top provides excellent chemical resistance
4.Ultra silence and vibration free.
5.Working plate: dia 90mm, PET material
6.Power: 5w
7.Max stirring quantity(H2O): 0.8L
8.Speed range: 15 to 1500rpm



Colonometer J-3

Art No: LAB04002
Input power: 40W
Magnification: 3x~9x
Range of the counter: 0-999
Counting plate: 155mm diameter
For petri dish: diameter 50-150mm



Magnetic Stirrer with Hotplate 79-1

Art No: LAB05003
Speed: 0-2400rpm
Heating power: 300W
Working plate: 125mm diameter



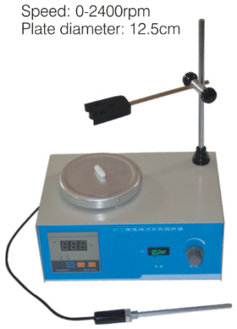
Magnetic Stirrer with Hotplate SH-2

Art No: LAB05006
Heating Power: 180W
Motor power: 10W
Stirring speed: 0-1600 r/m
Hot plate size: 118x118mm
Stirring capacity: 2000ml
Max temperature: 380°C



Magnetic Stirrer 85-1

Art No: LAB05001
Speed: 0-2400rpm
Plate diameter: 12.5cm



Magnetic Stirrer with Hotplate 85-2

Art No: LAB05004
Speed: 0-2400rpm
Heating power: 300W
Temperature: 0-100°C
Working plate: 125mm diameter



Magnetic Stirrer with Hotplate SH-3

Art No: LAB05007
Heating Power: 500W
Motor power: 20W
Stirring speed: 0-1600 r/m
Hot plate size: 170x170mm
Stirring capacity: 5000ml
Max temperature: 380°C



Magnetic Stirrer with Hotplate

Art No: LAB5008

	LAB05008.01	LAB05008.02	LAB05008.03
Stirring volume	0-2000ml		
Stirring speed	0-1250rpm		
Hot plate size	135x135mm		
Temperature	/	0-300℃	0-400℃
Timer	999min		
Dimension	230x180x120mm		



Magnetic Stirrer

Art No: LAB05009A/B/C

Type	LAB05009A	LAB05009B	LAB05009C
Rotation speed(rpm)	100-1200	100-1200	100-1200
Maxim agitation capacity	6L	6L	5L
Heating temp	Room temp 0-300℃	Room temp 0-199℃	
Protection temp	350℃	220℃	No
Temp control mode	Electronic	Digital	
Precision of temp Control		±2℃	
External PT-100 sensor	No	Yes	No
Forward and backward rotation	No	No	No
Diameter of plate	150mm	150mm	150mm
Maximum heating power	350W	350W	35W
Power	220V/50Hz	220V/50Hz	220V/50Hz
Dimension	198x225x115	198x225x115	198x225x115
Weight	2.4kg	2.4kg	2.0kg



Ceramic Magnetic Stirrer SH-4 Series

Art No: LAB05010

Characteristics:

1. Stretched shell and cover to prevent leaking.
2. Heating and stirring can be used simultaneously with uniform temperature
3. Heating power and stirring speed steplessly adjustable, max. temperature up to 380 degree, max. speed up to 2000 r.p.m.

Digital Ceramic Magnetic Stirrer with the following function:

SH-4C Model

1. Temperature setting accurately and stirring speed steplessly adjustable.
2. Large screen LCD display with backlight, real temperature and speed displayed on the screen simultaneously.
3. Two sensors: outside PT100 sensor controls the liquid tempertature with high precision, inside K type sensor controls the hot plate temperature.

SH-II-4C Model

1. Setting rotational speed precisely and stirring speed is steplessly adjustable. This instrument with speed switch can start and stop stirring at any time.
2. Timing function(0-9999min) with audible and visual alarm.
3. Two sensors: outside PT100 sensor controls precisely the temperature of heated liquid,inside K sensor controls the hot plate temperature.
4. One key to shift inside and outside sensor, easy to operate and control precisely.
5. Large screen LCD display can indicate temperature, rotational speed and timing at the same time.

Main parameters

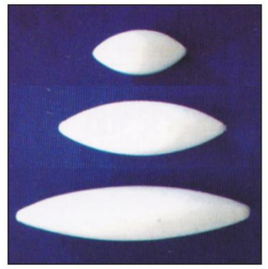
Order Model No	Voltage (V)	Power(W)	Speed (r.p.m)	Plate Size (mm)	Max.Volume (ml)	Max.Temp. (plate surface)	Timing
SH-4B	220/110	-	100~2000	190×190	5000	-	-
SH-4		600				380	-
SH-4C							
SH-II-4C		600				380	0-9999min



Electric Stirrer JJ-1A

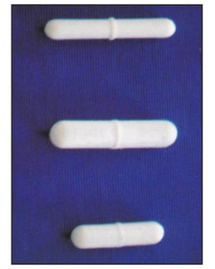
Art No: LAB05012
Timer: 120 minutes
Stirring Speed: 0~3000rpm

Art No: LAB05012.01	Power: 25W
Art No: LAB05012.02	Power: 40W
Art No: LAB05012.03	Power: 60W
Art No: LAB05012.04	Power: 80W
Art No: LAB05012.05	Power: 100W
Art No: LAB05012.06	Power: 150W
Art No: LAB05012.07	Power: 200W
Art No: LAB05012.08	Power: 300W



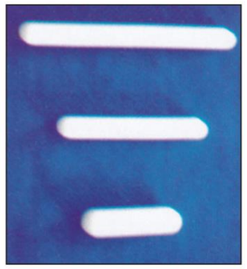
Stir Bar Egg-shaped

Art No: LAB05013.01	L15 x 7
Art No: LAB05013.02	L20 x 8
Art No: LAB05013.03	L30 x 13
Art No: LAB05013.04	L40 x 15
Art No: LAB05013.05	L50 x 20



Bar Octagon, With Pivot Ring

Art No: LAB05014.01	B15 x 7.5
Art No: LAB05014.02	B25 x 8
Art No: LAB05014.03	B35 x 9
Art No: LAB05014.04	B40 x 8
Art No: LAB05014.05	B48.5 x 10



Magnetic Stir Rod,Cylindrical

Art No: LAB05015.01	Z3 x 12
Art No: LAB05015.02	Z25 x 8
Art No: LAB05015.03	Z40 x 8
Art No: LAB05015.04	Z70 x 9
Art No: LAB05015.05	Z50 x 12



Hand Held Homogenizer

Art No: LAB05016

Product description:

This homogenizer is a smart hand held instrument for fast tissue homogenization, separation and emulsification. With different dispersing heads, it is appropriate for 0.5—250ml liquid sample, maximum speed is up to 35000rpm. It is applied in various fieldes such as bio-pharmaceuticals, gene research, clinicopathologic analysis, emulsions, nanometer materials scattering, polymerization reaction, cosmetics, ink&paint, fine chemical engineering, pesticide, environmental protection, energy sources, etc.

Product Features:

1.Designed smart and light,can be operated by one hand.
2.Speed adjustable, digital display of speed. Precisely controlled to avoid splashing.
3. Suitable for homogeneous dispersion of a small amount of sample in small container.
4.High quality stainless steel dispersing head, anti-corrosion, high temperature resistance for disinfecting.
5.Easy to take off the dispersing head for cleaning.
6.High speed and high efficiency motor, long life.
7.Optional H-type stand, height and angle can be adjusted, convenient to take and store.

Technical Parameters	
Art No.	LAB05016
Power Supply	230V /110V / 50 / 60HZ
Power (Input / Output)	160W / 110W
Rotor Line Speed	6.3-14m/sec
Net Weight	0.7kg
Noise	72dB(A)
Speed Control Range	8000-35000rpm (digital display)
Dimension	46mm*55mm*230mm

Optional Accessories

Head Type	Handling Capacity	Stator diameter	Rotor diameter	Gap between stator and rotor	Min./Max. Dipping Depth	Length of Head	Material
A	0.5-50ml	6mm	3.9mm	0.1mm	20/90mm	150mm	316L stainless steel
B	1-100ml	8mm	6.1mm	0.3mm	20/107mm	167mm	
C	1-250ml	10mm	7.9mm	0.3mm	20/120mm	180mm	
D	H-type stand to keep the hand held homogenizer, height and angle adjustable						



Digital Magnetic Stirrer TP Series

Art No: LAB05017

Product description:
This digital magnetic stirrer has hot plate made of special Ceramics. With special heating technique, the heating plate can reach temperature up to 340°C. Humanized design for convenient operation to meet various heating and stirring experimental needs.

Product features:
1. Metal plate shell, firm and durable, with thermostability and anti-corrosion.
2. The heating plate can reach temperature up to 340°C.
3. PID for temperature control. Two display windows. High precision measurement. Single button operation.Inner and outer PT1000 for thermometry.
4. Available for heating and stirring standard/non-standard reaction flasks from 50ml to 1000ml.
5. DC brushless motor makes stable operation, low noise, long using life and no spark.
6. The heating plate is made of special Ceramics, beautiful, antiseptic and easy to clean.
7. The control panel designed 30°slopes for convenient operation.
8. Magnetic stirring technology.Low speed but stable,high speed but powerful.

Technical Parameters

Order No	TP-350	TP-350S	TP-000S	TP-001S	TP-350E
Platform Size	Φ137mm	Φ137mm	Φ137mm	154x163mm	Φ137mm
Platform Material	enamel	enamel	stainless steel	silicone pad	enamel
Speed Range	/	100～1800rpm	100～1800rpm	300～1200rpm	0～1800rpm
Temp. Control Range(surface)	R.T.+5°C ～340°C	R.T.+5°C ～340°C	/	/	R.T.+5°C ～340°C
Temp. Setting Range(surface)	30°C～340°C	30°C～340°C	/	/	30°C～340°C
Temp. Stability	±3℃	±3℃	/	/	±3℃
Time Range	1min ～99h59min	continuous	1min ～99h59min	continuous	continuous
Stirring Point Quantity	/	1 point	1 point	1 point	1 point
Max. Stir Capacity (H2O)	/	20L	20L	100L	20L
Max. Size of Stirrer Stick	/	80mm	80mm	80mm	80mm
External Interface Temp. Sensor	Pt1000	Pt1000	/	/	/
Adjustable Safety Loop Min. Temp	50°C	50°C	/	/	50°C
Adjustable Safety Loop Max. Temp	350°C	350°C	/	/	350°C
Voltage	AC 220V/ AC 110V, 50/60Hz	AC 220V/ AC 110V, 50/60Hz	Ac100 ～230V, 50/60Hz	Ac100 ～230V, 50/60Hz	AC 220V/ AC 110V, 50/60Hz
Power	600W	600W	30W	30W	60W
Fuse	250V, 4A/8A, Φ5x20	250V, 4A/8A, Φ5x20	250V, 1A, Φ5x20	250V, 1A, Φ5x20	250V, 4A/8A, Φ5x2
Dimension (WxDxH)	156 x 270 x 70mm	156 x 270 x 70mm	156 x 270 x 70mm	156 x 270 x 70mm	156 x 270 x 70mm
Net Weight	2.2kgs	2.6kgs	2.6kgs	2.6kgs	2.6kgs

Optional stir bar

Type	SP-A	SP-B	SP-C	SP-D	SP-E	SP-F	SP-G	SP-I
Dimension(mm)	Φ6X10	Φ6X20	Φ8X25	Φ6X30	Φ8X35	Φ8X45	Φ9X60	Φ9X70



Digital Stirrer TS Series

Art No: LAB05018

TS- Series digital magnetic (electric heating jacket) stirrer uses computer chip as the main control unit, multiple digital filter circuit, and PID for temperature control.

Product features:
1.The control panel designed 30° slopes for convenient operation.
2.Available for heating and stirring standard/non-standard reaction flasks from 50ml to 1000ml.
3.DC brushless motor makes stable operation,low noise,long using life and no spark.
4.Metal plate shell,firm and durable,thermostability and anti-corrosion.
5.Knob thermal control,LCD display of temperature,visual intuition and humanized design.
6.Using electric heating jacket and heating area is large,heating uniform and fast.Max surface temperature can reach 340℃
7.PID for temperature control.Self-tuning function.High precision measurement.Single button operation.Internal and external thermocouple,Silicon control of output.160-240V wide voltage power supply and burnout protection function.
8.Magnetic stirring technology. Steady working at low speed,powerful working at high speed.

Technical Parameters

Order No	TS-100	TS-250	TS-500	TS-1000
Stirring Volume	100ml	250ml	500ml	1000ml
SpeedRange	100～1800rpm			
Heating Temp	Max surface Temp.:340℃			
Temp. Control Range	R.T. 5℃～340℃			
Temp. Control	±1℃			
Boiling time	1000ml Water 7～12min			
Input Voltage	AC 220V/110V,50Hz/60Hz			
Heating Power	200W	400W	600W	800W
Fuse Protector	250V, 2A/4A, Φ5×20	250V, 3A/6A, Φ5×20	250V, 5A/10A, Φ5×20	250V, 7A/14A, Φ5×20
Dimension	W.156xD.266xH.110mm			
Net Weight	2.8kgs			



Mini Magnetic Stirrer

Art No: LAB05019

Product description:
It is a mini-sized and portable magnetic stirrer with high standard reliability and durability. It has wide range of application.

Product features:
1.Distinct design, small and exquisite, simple operation.
2.Long using life with no carbon brush motor.
3.Speed regulation stepless, large range of speed.
4.Strong magnetism to avoid stirrer jumping.
5.Convenient and portable. Meet different kinds of experimental demands.

Art No.: LAB05019

Technical Parameters	
Max. Capacity	250ml
Speed Range	0 - 2500 rpm
Platform Material	Plastic
Platform Size	Φ88mm
Stirrer Dimension	Φ8x40mm
Input/Output	1.2W/0.8W
Dimension	125x110x70mm
Net Weight	1.1kg
Power	AC90～230V/15W 50/60 Hz

High Speed Overhead Stirrer

Art No: LAB05020
Characteristics :
1.High speed stirring by directly driven motor
2.Over heat protection function for motor
3.Ideal for stirring low-to-medium viscous materials
4.Smooth start and change of the stirring speed
5.Height of the impeller adjustable
6.Chrome plated and staianless steel chuck to prevent from corrosion

Art No: LAB05021
Have additional characteristics below:
7.Digital feedback control: steady and constant stirring speed against viscosity change of a sample during reaction.
8.Jog shuttle control system
9.Digital LCD with backlight function
10.Over load protection function for motor
11.Digital timing function (99hr 59min)
12.Alarm function when in error status or timing end
13.Storage function for set value: rpm and timer



Art No: LAB05020



Art No: LAB05021

Technical Data

Model No.	LAB05020. 01	LAB05020. 02	LAB05021. 01	LAB05021. 02
Stirring Capacity	Max. 10L of Water	Max. 20L of Water	Max. 10L of Water	Max. 20L of Water
Maximum Viscosity	1000mpas	50000mpas	1000mpas	50000mpas
Maximum torque	85Ncm	145Ncm	85Ncm	145Ncm
Speed range & motor	0~3000rmp, worm-geared DC Motor		200~3000rmp,worm-geared DC motor	
Motor Rating(input/output)	83/75W,1/10HP	130/120W,1/6HP	83/75W,1/10HP	130/120W,1/6HP
Controller	Analog phase controller		Digital feedback controller with jog shuttle switch(turn + push)	
Display	/		Digital LCD with back-light function	
Max. Impeller Shaft Diameter	10mm			
Permissible temp.& humidity	0~40℃,80%			
Safety device	Over heat protection for motor		over load & heat protection for motor	
Material	ABS and Aluminum			
Power consumption	85W	130W	85W	130W
Power supply	AC230V,50/60Hz			
Timer & alarm	/		99hr 59min(with continuous run.), error status & timer-end	
Dimension	90x145xh180mm			
Net weight	4.5kg	5.3kg	4.5kg	5.3kg



Overhead Stirrer SH-II Series

Art No: LAB05022
This overhead stirrer is suitable for mixture of high viscosity liquid or solid-liquid.
Characteristics:
1. High reliability, long continuous service, outstanding performance
2. The speed is accurate and controlled, easy to operate
3.Brushless DC motor drive, low noise and maintenance free
4.Overload protection, motor would automatically stop in case of continuous overload
5. Anti-spill samples, PC control system starts up smoothly to prevent samples from overflow

Main Technical Parameters:

Model No.	Power (W)	Max. Capacity (L)	Voltage(V)	Speed Accuracy(r.p.m)	Speed Display	Speed Range (r.p.m)	Plate Size (mm)
SH-II-4	10	2	100~240	/	/	100~2500	180*250
SH-II-5	20	5					180*250
SH-II-6	60	20					200*300
SH-II-7	80	40					200*300
SH-II-5C	20	5		±1	LCD		180*250
SH-II-6C	60	20					200*300
SH-II-7C	80	40					200*300
SH-II-8C	60	40				10~600	200*300



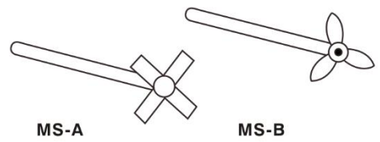
Digital Overhead Stirrer

Art No: LAB05023

Product Features:
1. LED with backlit displays speed and torque in real-time.It's convenient and accurate for readings, easy to operate.
2. Precise control speed. Control accuracy is ± 3rpm. Accurately displays the speed actual value / set value.
3. Constant speed.Torque can be adjusted automatically according to the sample viscosity change to keep the set speed.
4. Full explosion-proof equipment. Explosion-proof brushless DC motor to ensure lab safety.
5. Anti-spill samples, smooth start, effectively prevent spilling.
6. Closed shell to prevent liquid from entering the machine's internal circuit, ensure safe operation. Long time continuous and stable operation.
7. Overload protection and motor protection. When overload,short circuit and abnormal speed occur,it will cut off the circuit and alarm automatically to ensure running and lab safe.
8. Open RS232 data output connector.Computer via RS232 interface enables remote control and save the data.
9. Clockwise counter, clockwise stirring exchange mode. Stirring effect is better.

Technical Parameters

Art No.	LAB05023.01	LAB05023.02
Max Stir Capacity (H2O)	20L	40L
Speed Range	50~2200rpm	50~2200rpm
Speed Control Accuracy	±3rpm	
Speed Display Accuracy	±1rpm	
Time Range	30s~999min	
Max.Torque	40N.cm	
Max.Viscosity	10000mPas	50000mPas
Drill Chuck Clamping	0.5~10mm	
Rs232 Connector	yes	
Voltage	VD 24V,50/60Hz	
Power	70W	130W
Dimension (WxDxH)	83x220x186mm	



Stirring Rod for Option:

Cat#	Stirring style	Spec	Dia.of the Propeller	Dia.of the Stir Rod	Lenth of the Stir Rod	Max. speed
MS-A	Propeller style	4 blade	50mm	8mm	350mm	2000rpm
MS-B	Propeller style	3 blade	45mm	8mm	350mm	2000rpm
MS-C	Centrifugal style	2 blade	60mm	8mm	350mm	2000rpm
MS-D	Anchor style	1 blade	45mm	8mm	350mm	2000rpm



Water Bath 2 Holes Digital

Art No: LAB06001



Water Bath 4 Holes Digital

Art No: LAB06002

Note: The model with C is digital type. If without C, there is only one knob,and the knob can only adjust the speed.



HH-420 Thermostatic Multi-Functional Water Bath, 2 Holes

Art No: LAB06003
Heating Power: 800W
Temperature Range: RT-100℃
Temperature Control Accuracy: ±0.5℃
Working Size:42*18*15cm



Thermostatic Water Bath Oscillator

Art No: LAB06004
Range of temperature control: RT-100℃
Heating power: 2000W
Dimension: 720x480x520mm



Thermostatic Heating Mantle

Art No: LAB06005

	Water output	Heating power
LAB06005.01	250ml/h	200W
LAB06005.03	500ml/h	400W
LAB06005.04	1000ml/h	600W
LAB06005.05	2000ml/h	800W



Heating Mantle Temperature Adjustable

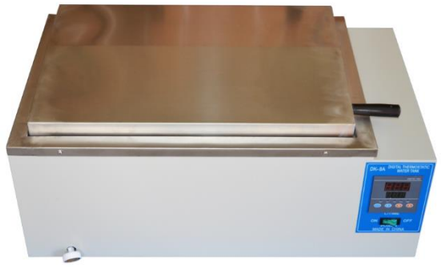
Art No: LAB06006

	Capacity	Heating power
LAB06006.01	250ml	200W
LAB06006.02	500ml	400W
LAB06006.03	1000ml	600W
LAB06006.04	2000ml	800W
LAB06006.05	3000ml	1000W



Water Bath 6 Holes Digital

Art No.: LAB06011



Digital Thermostatic Water Tank DK-8A

Art No: LAB06012
Heating Power: 1500W
Temperature Control Accuracy: ±0. 5℃
Temperature Range: RT-100℃
Working Size: 45*30*17cm
Time range: 0-999min
Volume: 23L



Water Bath 1 Hole Digital

Art No: LAB06007



Water Bath

Art No: LAB06008
Power: 600w
Temperature range: 10 -100℃
Capacity of tank: 3 liters

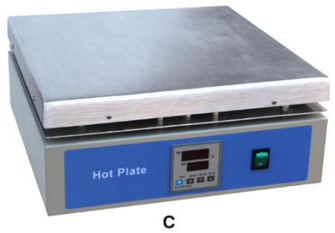


Water Bath

Art No.: LAB06008.02
8 Liter transparent water tank made of heavy duty PC with 2 sets stainless steel racks, lid and built-in stirrer microprocessor to control heater and the speed of stirrer. Temperature regulation is 0.1°C up to 85°C (1% accuracy). Thermometer display in Celsius and Fahrenheit selective



A



C

Electric Heater

Art No: LAB06010.01
Power: 1000w
Art No: LAB06010.02
Power: 1500w



Hot Plate

Art No: LAB06013

Characteristics:
1. Heater uses the special technique finish and no shape change under high temperature.
2. The Aluminum hot plate ensures the equal temperature.
3. Temperature rising fast and equally, easy to operate and safe.
4. Heating power is steplessly adjusted.
5. Hot plate surface temperature can be up to 350℃.

Digital Hot plate has more functions as follows:
1. LCD screen shows the liquid temperature clearly.
2. PT100 Sensor ensures the temperature precise

Main parameters:

Model	Hot Plate(cm)	Power(W)	Max. Temp.(℃)	Voltage(V)
LAB06013. 01A	30×30	1200	350	220/110
LAB06013. 01C				
LAB06013. 02A	35×45	1800		
LAB06013. 02C				
LAB06013. 03A	40×40	2000		
LAB06013. 03C				
LAB06013. 04A	35×60	2800		
LAB06013. 04C				
LAB06013. 05A	40×60	3000		
LAB06013. 06C				



Digital Water Bath 2 Holes

Art No: LAB06009.01
Good Quality



Digital Water Bath 4 Holes

Art No: LAB06009.02
Good Quality



Digital Water Bath 6 Holes

Art No: LAB06009.03
Good Quality

Shaking Water Bath

LAB06014.01 30L Reciprocal Shaking Water Bath
LAB06014.02 50L Reciprocal Shaking Water Bath

- 30/50L volume with standard shaking tray 434x256/494x316mm
- Reciprocal movement, variable speed from 20-180rpm, 16 & 24mm variable strokes
- High quality #304 stainless steel for excellent durability of interiors and its parts
- PID controlled temperature, range from ambient-99.9°C
- Lid included as standard for 30L (Optional for 50L)





Features:

1. Integrated with incubator and shaker to save space and cost with tempered glass window.
2. ABS shell, stainless steel chamber.
3. Big LCD display showing temperature and shaking velocity.
4. With easy operations and storage function of working parameters.
5. Auto-recovery after power interruption as originally programmed.
6. Auto-stop protection to keep sample safe when the door is opened. Strong air spring rod with easy opening and closing.

Orbital Thermostatic Incubator Shaker SPH Series

Art No: LAB06015

Model	SPH-103B	SPH-100B	SPH-200B
Controller	PID		
Display	LCD		
Shaking Method	Rotated shaking		
Temp. Control Scope	R.T+5°C- 60°C	R.T+5°C- 60°C	4°C- 60°C
Temp. Control Precision	±0.1°C		
Temp. Evenness	±0.5 °C'		
Rotary Speed	30~400rpm		
Rotary Speed Precision	±1rpm		
Vibration Range	Φ25mm		
Refrigerant	None	None	CFC-Free(134A)
Cooler	None	None	118W
Heate	150w	400W	400W
Timing Scope	0-500hr		
Shaking Plate Size	260x260mm	400x370mm	420x400mm
Max Capacity	100mlx9 or 250mlx4	500mlx9 or 250mlx12	1000mlx9 or 250ml x16
Standard Capacity	100mlx9	500mlx3/250mlx4/100mlx5/50mlx5	500mlx3/250ml/4/100mlx5/50mlx5
Working Power	280w	490w	580w



Electronic Control Heating Mantle

Art No: LAB06016

The device is widely used for heating the liquid in the school laboratory, mining, food processing, biochemistry, agriculture, petrochemical engineering and pharmaceutical industry.

Characteristics:

1. Cold rolled steel exterior, stretched and sprayed.
2. Electronic temperature regulation mode with characteristics of stepless speed adjustment, uniform temperature, heating fast, and safety.
3. Featured by anti-corrosion, age-resistance, durability and safety.

Main Parameters

Model	LAB06016											
Capacity(ml)	50	100	250	500	1000	2000	3000	4000	5000	6000	10000	20000
Voltage(V)	220V/50Hz											
Max use temp(℃)	450											
Power(w)	80	100	150	250	350	450	600	700	800	900	1200	2400
Working time	Continuous											
Exterior size(mm)	φ200×160				φ260×200	φ300×230	φ300×250	φ310×250	φ350×270	φ350×270	φ420×320	φ450×380



Magnetic Stirring Heating Mantle

Art No: LAB06017

The device is widely used for heating in the school laboratory, mining, food processing, biochemistry, agriculture, petrochemical engineering and pharmaceutical industry for the liquid.

Characteristics:

1. Cold rolled steel exterior, stretched and sprayed.
2. Electronic temperature regulation mode, stepless speed adjustment, uniform temperature, heating fast and safety.
3. Heating and stirring can be used simultaneously, speed steplessly adjusable.

Main Parameters

Model	LAB06017											
Capacity(ml)	50	100	250	500	1000	2000	3000	4000	5000	6000	10000	20000
Voltage(V)	220V/50Hz											
Max use temp(℃)	450											
Power(w)	80	100	150	250	350	450	600	700	800	900	1200	2400
Speed (r.p.m)	0-1400											
Working time	Continuous											
Exterior size(mm)	φ200×160				φ260×200	φ300×230	φ300×250	φ310×250	φ350×270	φ350×270	φ420×320	φ450×380



Digital Display Heating Mantle

Art No: LAB06018

It applies to colleges, petrochemical industries, medicine, and environment protection institutions for liquid heating.

Characteristics:

1. Cold rolled steel exterior, stretched and sprayed.
2. Featured by anti-corrosion, age-resistance, durability and safety.
3. Beautifully shaped, easy to operate and effective.
4. Adjustable sensor rack with stainless steel rods.

Main Parameters

Model	LAB06018										
Capacity(ml)	50	100	250	500	1000	2000	3000	4000	5000	6000	10000
Voltage(V)	220V/50Hz										
Max use temp(℃)	450										
Power(w)	80	100	150	250	350	450	600	700	800	900	1200
Working time	Continuous										
Exterior size(mm)	φ200×165				φ280×200	φ330×230	φ340×245	φ340×245	φ350×250	φ350×270	φ425×320



Digital & Magnetic Stirring Heating Mantle

Art No: LAB06019

It applies to colleges, petrochemical industries, medicine, and environment protection institutions for liquid heating and stirring.

Characteristics:

1. Cold rolled steel exterior, stretched and sprayed.
2. Auto temperature control,digital display with characteristics of large heating area, fast warm-up,high temperature evenness, accurate control, time and cost saving.
3. Heating and stirring can be used simultaneously, stepless speed adjustment.
4. Featured by anti-corrosion, age-resistance, durability and safety.
5. Adjustable sensor rack with stainless rods.

Main Parameters

Model	LAB06019										
Capacity(ml)	50	100	250	500	1000	2000	3000	4000	5000	6000	10000
Voltage(V)	220V/50Hz										
Max use temp(℃)	450										
Power(w)	80	100	150	250	350	450	600	700	800	900	1200
Speed(r.p.m)	0-1400										
Working time	Continuous										
Exterior size(mm)	φ200×165				φ280×200	φ330×230	φ340×245	φ340×245	φ350×250	φ350×270	φ425×320





Ceramic Fiber Muffle Furnace

Art No: LAB06020

Uses:
This device is widely used in the school laboratory, industrial and mining enterprise, food processing and pharmaceuticals industry for elements analysis. It is used in heating for small steel annealing and tempering and high temperature heating for metal and ceramics'firing, dissolution and analysis.

Characteristics:
1. All stainless steel glory hole to make sure its color will not change.
2. Imported double insulation ceramic liner with stable performance.
3. Vacuum forming polycrystalline mullite fibre furnace hearth has characteristics of efficient insulation and three sides heating of special alloy heating wire to provide optimum temperature uniformity.
4. The perfect combination of high precision micro-computer controller and accurate sensor has advantage of precise temperature.
5. Double-shell hollow thermal insulation and double ventillation duct with advantages of excellent ventilation, not hot shell and quick internal cooling.
6. The furnace with multiple safety protection measures, such as thermocouple failure, door opening, door opening electrical outage, over temperature protection, audio-visual alarm, etc.

Additional characteristics of SX4 model:
1. Imported high precision controller and sensor, with sensitive response, high precision of temperature control, and good heating sesistance.
2. The increased exhaust device is good for ashing.
3. Split design, circuit detachable, easy to repair.
4. P type is program temperature control. The additional program temperature controller and multi-stage programmable control could simplify experiment process and realize automatic control and operation.

Optional type:
1. Whole stainless steel outer shell
2. LCD program control: USB data storage, temperature rising curve display, and host computer software, can print the data from computer.
3. Touch screen controller.

Main Parameters:

Model	Voltage(V)	Power (KW)	Inner Chamber Size(LxWxH)(mm)	Exterior Size(mm)	Packing Size(mm)	Tem Precise (°C)	Max Temp (°C)	Tem.rising time(Empty/Min)
Standard Model								
SX3-2.5-12	110/220	1.5	200x120x80/2L	685x450x600	775x580x730			
SX3-5-12	220	3	300x200x120/7.2L	785x530x640	875x660x770			
SX3-8-12		4.5	300x200x200/12L	785x530x720	875x660x850			
SX3-10-12	220/380	6	400x250x160/16L	895x600x700	985x730x830			
High Precision Cotroller and Sensor								
SX4-2-12	220	1.5	200x120x80/2L	685x450x600	775x580x730			
SX4-7-12		3	300x200x120/7.2L	785x530x640	875x660x770	±1	1200°C	≤30
SX4-12-12		4.5	300x200x200/12L	785x530x720	875x660x850			
SX4-16-12	220/380	6	400x250x160/16L	895x600x700	985x730x830			
Program Temperature Control								
SX4-2-12P	220	1.5	200x120x80/2L	685x450x600	775x580x730			
SX4-7-12P		3	300x200x120/7.2L	785x530x640	875x660x770			
SX4-12-12P		4.5	300x200x200/12L	785x530x720	875x660x850			
SX4-16-12P	220/380	6	400x250x160/16L	895x600x700	985x730x830			

Performance parameter testing condition: temperature 20℃， ambient humidity 50% RH



Portable Stainless Steel Pressure Steam Sterilizer

Art No: LAB07001.01
Volume: 8L
Output power: 1.0KW
Size: 310x310x250mm
Auto discharging pressure: 0.145 0.165MPa
Working style: coal & electrical

Art No:LAB07001.02
Volume: 18L
Output power: 2.0KW
Size: 400x400x440mm
Auto discharging pressure: 0.145 0.165MPa
Working style: coal & electrical

Art No:LAB07001.03
Volume: 24L
Output power: 2.0kw
Size: 400x400x540mm
Auto discharging pressure: 0.145–0.165MPa
Working style: coal & electrical



Portable Stainless Steel Pressure Steam Sterilizer

Art No: LAB07002.01
Volume: 18L
Output power: 2.0KW
Size: 280x235mm
Auto discharging pressure: 0.145-0.165MPa
Heating style: electrical
Working style: normal

Art No:LAB07002.02
Volume: 18L
Output power: 2.0KW
Size: 280x235mm
Auto discharging pressure: 0.145-0.165MPa
Heating style: electrical
Working style: auto-control

Art No:LAB07002.03
Volume: 18L
Output power: 2.0KW
Size: 280x235mm
Auto discharging pressure: 0.145-0.165MPa
Heating style: electrical
Working style: microcomputer control
LED display



Portable Stainless Steel Pressure Steam Sterilizer

Art No: LAB07003.01
Volume: 24L
Output power: 2.0KW
Size: 280x235mm
Auto discharging pressure: 0.145-0.165MPa
Heating style: electrical
Working style: normal

Art No:LAB07003.02
Volume: 24L
Output power: 2.0KW
Size: 280x235mm
Auto discharging pressure: 0.145-0.165MPa
Heating style: electrical
Working style: auto-control

Art No:LAB07003.03
Volume: 24L
Output power: 2.0KW
Size: 280x235mm
Auto discharging pressure: 0.145-0.165MPa
Heating style: electrical
Working style: microcomputer control
LED display



3 Times Pre-vacuum Steam Sterilizer

Art No: LAB07004.02 18L,1500W
Art No: LAB07004.03 23L,1700W

The newly-designed model with opening water tank on the top, strictly meets the standard of EN13060, which makes wash and cleaning much more convenient.

1) It adopts European B standard with 3-times pre-vacuum preceding vacuum drying. Residual humidity is less than 0.2%.
2) Vacuum measurement reaches-0.8bar.It sterilizes and sanitizes miscellaneous packed or unpacked medical instruments whether solid or A-type hollow, whether with multi-apertures or inset pipes. It efficiently tides air from every hollow area of any hollow instrument, such as hand-piece, making sure that water steam reaches every corner. Fuzzily computer controlled, digital bright show. The interface is modularized panel for easy operation. It is installed with BOWIE & DICK which measures the penetration of water steam.
3) Mini printer can be attached to record the process of sterilization.



Thermal Vacuum Steam Sterilizer

Art No: LAB07005.02 18L,1500W
Art No: LAB07005.03 23L,1700W

1) Adopting European N standard, with thermal vacuum and drying functions, it can be used for A-type hollow instruments and solid instruments. Thermodynamic vacuum guarantees elimination of cold air from the cavity and makes sure that reachs the optimal effect of sterilization.
2) Various of sterilizing water quantity selections are respectively for different material,which embodies the individualized service.
3) Automatic malfunction detection system makes easy maintaining.



Table Top Sterilizer

Art No: LAB07009

This series sterilizer is using infrared heat sterilization, easy to use, no fire, good resistance of wind, safe. It can be widely used in the biological safety cabinet, purification table, exhaust fan, flow car environment.

Product features:

1. Based on the electronic infrared principle, products are widely used in loop or inoculating needle sterilization, completely replace the alcohol lamp.
2. The temperature of heating hole can reach 800°C, thorough sterilization only takes 5-7 seconds. Products can be used in anaerobic chamber.
3. Small, light, easy to clean. Heating body can adjust angle, easy to operate.
4. Organic substance ashing in the depths of ceramic funnel pipe prevents infectious spatter and cross contamination.
5. Precise temperature control technology, avoids the heating components working overload. Long life.

Technical parameters

Art No.	LAB07009.01	LAB07009.02
	Small	Large
The Center High-Temperature	825°C± 50°C	
Standby Constant Temperature	480°C	
The Max-Diameter Of Sterilizer Goods	Φ14mm	Φ35mm
The Length Of Sterilizer	140mm	100mm
Power	230W	400W
Net Weight	1.3Kg	1.5Kg

Voltage	AC220V/110V,50Hz/60Hz
Working Condition Temperature	10°C~50°C
Relative Humidity	≤90%
Working Condition Maximum Elevation	Not Limited



Distilled Water Plant

Art No:LAB07006.01, Distilled Water Plant, 5L	
Art No:LAB07006.02, Distilled Water Plant, 10L	
Art No:LAB07006.03, Distilled Water Plant, 20L	



Distilled Water Plant, Automatic

Art No: LAB07007.01	Water output: 5L/H
Art No: LAB07007.02	Water output: 10L/H
Art No: LAB07007.03	Water output: 20L/H



Pure Water Distiller

Art No.: LAB07008

It is widely used in laboratory to distill pure water,
Size of the distiller is 70*24*65.
Package is well designed for protecting the glass vessel and condenser from being broken.
Pure water output: 1800ml/h
Power of heating: 1500W
Working Voltage: 220V/110V, 50Hz/60Hz
Heating Tube: Quartz.



Multi-pipeline



Vacuum Freeze Dryer

Art No: LAB08004

It's suitable for freeze-drying experiment in laboratory.
It is bench top equipment.
Technical Parameter

Freeze drying area	0.12㎡
Condenser capacity	3-4 L /24h
Condenser temperature	-55°C(-80°C optional)
Vacuum degree	< 10 Pa
Material tray	Φ200mm,4 layers
Bulk capacity	1.2L,10mm thickness
Vial capacity Φ12mm	920 pcs
Vial capacity Φ16mm	480 pcs
Vial capacity Φ22mm	260 pcs
Cooling	Air,draughty, ambient temperature ≤25°C
Voltage	220V, 50 Hz; 110V, 50Hz; 110V, 60Hz
Dimension	460×625×(370+430) mm
Total power	700W
Host weight	41KG

Multi-pipeline for option



Top Press Vacuum Freeze Dryer

Art No: LAB08005

It's suitable for freeze-drying experiment in laboratory.
It is bench top equipment.
Technical parameter
(LGJ-0 top press type)

Freeze drying area	0.08㎡
Condenser capacity	3-4 L/24h
Condenser temperature	-55°C(-80°C optional)
Vacuum degree	< 10 Pa
Material tray	Φ180mm,3layers
Bulk capacity	0.8L,10mm thickness
Vial capacity Φ12mm	560 pcs
Vial capacity Φ16mm	285 pcs
Vial capacity Φ22mm	165 pcs
Style of press	By hand
Cooling	Air,draughty, ambient temperature ≤25°C
Voltage	220V, 50 Hz;110V, 50Hz;110V,60Hz
Power	700W
Host dimensionr	460×625×(370+430) mm
Host weight	41KG

Multi-pipeline for option



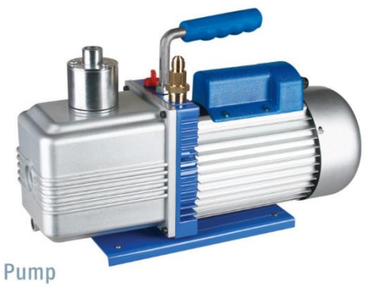


Single Stage Vacuum Pump

Art No:LAB08002

Art No		RS-0.5		RS-1		RS-1.5		RS-2		RS-3		RS-4		RS-6	
Voltage		110V	220V	110V	220V	110V	220V	110V	220V	110V	220V	110V	220V	110V	220V
		60HZ	50HZ	60HZ	50HZ	60HZ	50HZ	60HZ	50HZ	60HZ	50HZ	60HZ	50HZ	60HZ	50HZ
Free Air Displacement	CFM	1.8	1.5	3	2.5	4	3.5	5	4.5	7.0	6.0	9.0	8.0	12	10
Ultimate Vacuum	PA	5		5		5		5		5		5		5	
	Mbar	0.05		0.05		0.05		0.05		0.05		0.05		0.05	
Rotating Speed		1720	1440	1720	1440	1720	1440	1720	1440	1720	1440	1720	1440	1720	1440
Power(HP)		1/4		1/4		1/3		1/3		1/2		3/4		1	
Oil Capacity(ml)		170		220		225		250		250		300		450	
Dimension		243*114*207		260*110*240		275*115*240		290*120*240		310*125*255		360*135*270		430*142*280	
Weight(Kg)		6.5		7.0		7.5		8.5		12		19		24	





Double Stage Vacuum Pump

Art No:LAB08003

Art No	2RS-0.5		2RS-1		2RS-1.5		2RS-2		2RS-3		2RS-4		2RS-5	
	110V	220V	110V	220V	110V	220V	110V	220V	110V	220V	110V	220V	110V	220V
	60HZ	50HZ	60HZ	50HZ	60HZ	50HZ	60HZ	50HZ	60HZ	50HZ	60HZ	50HZ	60HZ	50HZ
Pump Speed (CFM)	2	1.5	3	2.5	4	3.5	5	4.5	7.0	6.0	12	10	14	12
Ultimate Pressure	$3*10^{-1}$Pa		$3*10^{-1}$Pa		$3*10^{-1}$Pa		$3*10^{-1}$Pa		$3*10^{-1}$Pa		$3*10^{-1}$Pa		$3*10^{-1}$Pa	
Rotating Speed	3500	2800	3500	2800	3500	2800	3500	2800	1720	1440	1720	1440	1720	1440
Motor	1/4HP		1/3HP		1/3HP		1/2HP		3/4HP		1HP		1HP	
Oil Capacity(ml)	250		250		330		330		370		500		550	
Dimension(mm)	280*110*215		280*110*215		290*115*220		290*115*220		360*135*275		430*142*280		430*142*280	
Weight(Kg)	7.0		7.5		8		9		11		17		18	



150ML



250ML



300M

Vacuum Dryer

Art No: LAB08006

Product Description:

The vacuum dryer is designed to heat and dry materials under vacuum condition. With a vacuum pump to outgas and dehumidify the test chamber up to required vacuum condition, the dryer can improve material drying rate greatly and save energy at the same time, especially suitable for drying unstable and/or thermal-sensitive materials. The vacuum dryer is of good leak-tightness so that it is also suitable for drying those materials which need to recycle the solvents, and those of intense stimulation and/or toxic gases. This product is widely applied for various industries, such as lab equipment, chemicals, food, health care, precision instruments, etc. It has to be used together with oil-free vacuum pumps.

Product Features:

- It can maintain vacuum degree stably for longe time. The decrease of its vacuum is less than 5% 30 days after the lastest vacuum pumping.
- An externally-installed special vacuum gauge makes it convenient to observe the change of vacuum at all times.
- Produced by injection process and made of imported polycarbonate material, this kind of dryer is of good safety performance to prevent from bursting.
- With high-quality plastic sealing rings and by oil-free sealing way, the sealing effect is better.
- The intake amount can be finely adjusted with precision needle valve.
- The connection of pipeline is convenient and easy.
- The environmental temperature is required within the range from-25℃ to 120℃.

Product Specifications

Art. No.	Product Type	OD(mm)	ID(mm)	Total Height(mm)	Separator Diameter(mm)
LAB08006.01	150ml	173	150	220	120
LAB08006.02	250ml	277	250	320	120
LAB08006.03	300ml	327	300	370	230





Manifolds Vacuum Filtration

Art No: LAB08007

Brief instruction of Manifolds Vacuum Filtration:

Manifolds Vacuum Filtration is used primarily in microbiological and analytical procedures that involve collecting a particulate (bacteria, precipitate, etc.) from a liquid suspension. Liquid poured into a funnel passed through a filter, which retains the particulate, and filtrate can be collected into a filter flask, directly or via a vacuum manifold. Applying vacuum reduces process time compared to gravity flow. Vacuum Filtration Holders and Manifolds are particularly designed and produced for several sample filtration at the same time. Because each filter holder has individual control valve, only one set vacuum pump can sustain the single or manifold filtration operate together. With stainless steel nature of the Vacuum Filtration Holders it can filtrate at 180°C temperature ;and the high-quality extra hard glass is elegant in workmanship, and able to bear up 200°C range of temperature. The clamp of aluminum alloy can make the filter bowl together with the middle filter head an organic, and assure them not to leak. Type 316Lstainless steel resistant to acids and alkalis, and able to bear corrosion, and high-temperature. Therefore, it makes the analysis result much more stable and trustworthy.

Components:

1.SS316L funnel (300ml)
2.SS316L support screen (40μm)
3.Stainless steel holder (SS 316)
4.SS316 valve
5.Clamp of aluminum alloy

Art No.	Specification	Funnel	Valve	Support Screen	Pore size	Connection	Holder
LAB08007. 01	1-branch	300ml SS316L	SS316	SS316L	100μm	Silicon stopper	Ss316
LAB08007. 02	3-branch	300ml SS316L	SS316	SS316L	100μm	Silicon stopper	SS316
LAB08007. 03	6-branch	300ml SS316L	SS316	SS316L	100μm	Silicon stopper	SS316



01



02



03/04

Oilless Diaphragm Vacuum Pump

Art No: LAB08008

About this series:
LH series of diaphragm vacuum pump can run continuously without oil, and with low noise and high efficiency. They have different applications, such as vacuum filtration, for Rotary Evaporator, and two functional pump (both vacuum and pressure) which will save your lab purchasing cost.

Advantage
- Stable pressure, and adjusted by a valve
- Space saving solution for the laboratory, portable
- Continuously running for 24 hours
- Easy to maintain

Application
- Vacuum Filtration
- Drying ovens
- Molecular distillation
- Economical and ecologically sound alternative to water jet vacuum pumps
- Vacuum concentration
- Gel drying

Technical Data

Model	LAB08008. 01	LAB08008. 02	LAB08008. 03	LAB08008. 04
Pumping Speed(L/min)	30		60	30
	>0. 085			>0. 095
Ultimate Vacuum (Mbar)	(150mbar)			(50mbar)
Pressure	None	40		None
Pump Head	1		2	
Motor Power (W)	180			
Size (L×W×H) (mm)	250×135×210		315×135×210	
Weight	7. 5	8	10	10
Diaphragm material	HNBR			
Noise (dB)	<50			
Function	Vacuum	Vacuum & Pressure		Vacuum



Vacuum Pump

Art No: LAB08009

Product description:
This vacuum pump is an important corollary equipment to raise filtering efficiency and enhancing degassing effects. To avoid filtering medium polluted, oil free diaphragm type vacuum pump is a common choice. Oil free diaphragm type vacuum pump forms a vacuum by back and forth movement of rubber diaphragm. Its vacuum pressure is around 0.08Mpa (single-stage). It is specially designed to assort various demands of the laboratory vacuum equipments. It can be used for vacuum concentration, vacuum filtration, and vacuum drying, etc.

Product features:
1. Provide enough motor power to reduce fevers.
2. The vacuum membrane is made of high quality oil and fatigue resistant rubber with 3mm interlayer to strengthen the textile skeleton. Long service life.
3. Compact and practical, simple operation, high efficiency and low noise.
4. Optional regulating type and vent valve configuration.

Parameter

Art No.	LAB08009.01	LAB08009.02
Rate of Flow	26L/min,	
Vacuum Degree	0.08Mpa	
Negative Pressure Adjust Range	0-0.08Mpa	
Filtration Bottle Capacity	250ml	1000ml
Voltage	AC 220V/110V 50HZ/60HZ	
Power	60W	

Notice:
1. Filtration efficiency mainly depends on the flow exhausted per unit time (namely the flow index of the vacuum pump), especially in case of large filtration capacity or high medium viscosity.
2. Besides proper use method (such as reducing inaction continuous boot, avoid solution into the pump body…), the vacuum pump working life also depends on reasonable motor power, design patterns of vacuum membrane, and its fatigue resistance.



Membrane Filter

Art No: LAB08010

The microporous membrane filter is mainly used for the filtration of mobile phase and samples during the chromatographic analysis, especially for preventing chromatographic column and infusion pump line system and sample valve from pollution. They are widely used for gravimetric analysis, microanalysis, colloid separation and sterility test. The filer membrane made of different materials, such as polyetherdsulfone(PES), lon6,Nylon66 MCE and polytetrafluoroethylene (PTFE),PVDF etc., can be provided.

Microporous Membrane Filter Ordering Information

Order No.	Product Name	Diameter (mm)	Pore Size (μm)	Membrane Material	Unit/box
NMF01	Membrane Filter	13	0.45	Nylon 66(from Pall)	100 Pcs/Box
NMF02	Membrane Filter	13	0.22	Nylon 66(from Pall)	100 Pcs/Box
NMF03	Membrane Filter	13	0.45	PES(from Pall)	100 Pcs/Box
NMF04	Membrane Filter	13	0.22	PES(from Pall)	100 Pcs/Box
NMF05	Membrane Filter	25	0.45	Nylon 66(from Pall)	100 Pcs/Box
NMF06	Membrane Filter	25	0.22	Nylon 66(from Pall)	100 Pcs/Box
NMF07	Membrane Filter	25	0.45	PES(from Pall)	100 Pcs/Box
NMF08	Membrane Filter	25	0.22	PES(from Pall)	100 Pcs/Box
NMF09	Membrane Filter	13	0.45	Nylon 6	100 Pcs/Box
NMF10	Membrane Filter	13	0.22	Nylon 6	100 Pcs/Box
NMF11	Membrane Filter	25	0.45	Nylon 6	100 Pcs/Box
NMF12	Membrane Filter	25	0.22	Nylon 6	100 Pcs/Box
NMF13	Membrane Filter	13	0.45	MCE	100 Pcs/Box
NMF21	Membrane Filter	50	0.45	PES(from Pall)	100Pcs/Bag
NMF22	Membrane Filter	50	0.22	PES(from Pall)	100Pcs/Bag
NMF23	Membrane Filter	50	0.45	Nylon 66(from Pall)	100Pcs/Bag
NMF24	Membrane Filter	50	0.22	Nylon 66(from Pall)	100Pcs/Bag
NMF27	Membrane Filter	50	0.45	PTFE(from Pall)	100Pcs/Bag
NMF28	Membrane Filter	50	0.22	PTFE(from Pall)	100Pcs/Bag
NMF29	Membrane Filter	50	0.45	Nylon 6	100Pcs/Bag
NMF30	Membrane Filter	50	0.22	Nylon 6	100Pcs/Bag
NMF31	Membrane Filter	50	0.45	White, MCE	100Pcs/Bag
NMF32	Membrane Filter	50	0.22	White, MCE	100Pcs/Bag
NMF33	Membrane Filter	47	0.45	PES (from Pall)	100Pcs/Bag
NMF34	Membrane Filter	47	0.22	PES (from Pall)	100Pcs/Bag
NMF35	Membrane Filter	47	0.45	Nylon 66(from Pall)	100Pcs/Bag
NMF36	Membrane Filter	47	0.22	Nylon 66(from Pall)	100Pcs/Bag
NMF39	Membrane Filter	47	0.45	PTFE(from Pall)	100Pcs/Bag
NMF40	Membrane Filter	47	0.22	PTFE(from Pall)	100Pcs/Bag
NMF41	Membrane Filter	47	0.45	Nylon 6	100Pcs/Bag
NMF42	Membrane Filter	47	0.22	Nylon 6	100Pcs/Bag
NMF43	Membrane Filter	47	0.45	White, MCE	100Pcs/Bag
NMF44	Membrane Filter	47	0.22	White, MCE	100Pcs/Bag
NMF45	Membrane Filter	47	0.45	MCE (sterile, individually packed)	100Pcs/Box
NMF46	Membrane Filter	47	0.45	Black, MCE	100Pcs/Box
NMF47	Membrane Filter	47	0.22	Black, MCE	100Pcs/Box



Syringe Filter

Art No: LAB08011

Instruction:
Syringe filter is a cost-effective item to improve the quality of HPLC analysis, improve consistency, extend column life and reduce maintenance. By removing particulates before the sample enters the column, Syringe filters allow unimpeded flow. Without particulates to create obstructions, your column will work more efficiently and longer.

Application:
In addition to HPLC, syringe filters have a multitude of other applications. A syringe filter adds a few minutes and a minimal expense to your testing process, but you will see a big return on your investment.

- Small volume venting
- HPLC sample preparation
- Removal of protein precipitates
- Routine QC analysis
- Dissolution testing

Our Advantage:
- Housing material is medical grade polypropylene.
- Precisely designed structure ensures the fluency of the filtration. Reasonable inner space minimize the hold-up volume, so that the waste will be reduced.
- Edge with screws makes operator more easy to use.
- Pore size is accurate, so that your instrument will be well protected .
- Stable membrane quality. No difference between batch and batch assures the analysis result consistent.
- Standard female and male lure lock.

Ordering Information

Order No.	Product Name	Diameter (mm)	Pore Size (μm)	Media Material	Package
NSF02	Syringe Filter	13	0.22	Nylon 66	100 Pcs/pack
NSF03	Syringe Filter	13	0.45	PES	100 Pcs/pack
NSF04	Syringe Filter	13	0.22	PES	100 Pcs/pack
NSF05	Syringe Filter	25	0.45	Nylon 6	100 Pcs/pack
NSF06	Syringe Filter	25	0.22	Nylon 6	100 Pcs/pack
NSF07	Syringe Filter	25	0.45	PES	100 Pcs/pack
NSF08	Syringe Filter	25	0.22	PES	100 Pcs/pack
NSF09	Syringe Filter	25	0.45	Nylon 66	100 Pcs/pack
NSF10	Syringe Filter	25	0.22	Nylon 66	100 Pcs/pack
NSF11	Syringe Filter	13	0.45	MCE	100 Pcs/pack
NSF12	Syringe Filter	13	0.22	MCE	100 Pcs/pack
NSF13	Syringe Filter	25	0.45	MCE	100 Pcs/pack
NSF14	Syringe Filter	25	0.22	MCE	100 Pcs/pack
NSF15	Syringe Filter	13	0.45	PTFE	100 Pcs/pack
NSF16	Syringe Filter	13	0.22	PTFE	100 Pcs/pack
NSF17	Syringe Filter	25	0.45	PTFE	100 Pcs/pack
NSF18	Syringe Filter	25	0.22	PTFE	100 Pcs/pack
NSF19	Syringe Filter	13	0.45	PVDF	100 Pcs/pack
NSF20	Syringe Filter	13	0.22	PVDF	100 Pcs/pack
NSF21	Syringe Filter	25	0.45	PVDF	100 Pcs/pack
NSF22	Syringe Filter	25	0.22	PVDF	100 Pcs/pack



Dental Ultrasonic Cleaner

Specifications:
1. Frequency: 40 kHz
2. Ultrasonic Power: 120W
3. Adjustable Time: 1-60 minutes

Art No: LAB09003
Dimensions of the interior slot: 240×140×100mm
Capacity: 3L

Art No: LAB09004
Dimensions of the interior slot: 240×140×150mm
Capacity: 5L



Dental Ultrasonic Cleaner

Specifications:
Frequency: 40 kHz
Ultrasonic Power: 120W
Range of temp: 20~80 ℃
Adjustable Time: 1-60 minutes
Drainage: No
Use high quality imported components,high ultrasonic transfer effiency, strong power, good cleaning effect.

Art No: LAB09005
Dimensions of the interior slot: 240×140×100mm
Capacity: 3L

Art No: LAB09006
Dimensions of the interior slot: 240×140×150mm
Capacity: 5L



Laboratory Chemical Waste Processor

Art No: LAB09007
Wastes to be processed:
Acidic and Alkalic water
Heavy metal Ions like Lead, Zinc, Nickel,Silver, Copper, Manganese ,etc.
Chrome and Mercury compounds
Phosphor compounds, Arsenic compounds, BOD, COD
Power supply: DC12V



Dental Ultrasonic Cleaner

LAB09001 / LAB09002

Description: Digital control self-excitation ultrasonic source of Generator

Model	LAB09001	LAB09002
Size of internal Slot length×width×height (mm)	240×140×100	240×140×150
Capacity (L)	3	5
Frequency (KHz)	40	40
Ultrasonic Power (W)	120	120
Adjustable Temperature(℃)	20-80	20-80
Adjustable Time(min)	1-60	1-60
Net rack	YES	YES
Lowering- sound Cover	YES	YES
drainage	YES	YES



Sieve Vibrator

Art No: LAB09008

Characteristics:
Particle analysis;
Widely used in the field of pharmaceutical industry, food, cosmetics, grain;
Advanced integrated circuit control;
Easy to operate;
The sieves are chosen by user.

Specifications	
Vibration direction	Vertical vibration
Measurement range	≤325 mesh
Vibration Frequency	3000times/min, 6000times/min
Amplitude selection	0-3mm, continuous adjustment
Vibration mode	fine vibration; intermittent vibration; continuous vibration
Weight (Net)	30kg



Wire Mesh Sieve

Art No: LAB09009

Stainless Steel Standard Test Sieve Manufactured in conformity to ASTM E-11 / ISO3310 Available in full and half height sizes, Full: 2"; Half: 1".

Test sieves of metal wire cloth are widely used in all types of laboratory sampling and particle size analysis:
1. Cloth material: AISI 304/316/304L/316L, Brass Wire , Galvanized , Electroformed, Perforated Metal Plate, etc.
2. Wire dia: 0.02--2mm
3. Sieve dia: 8", 12", 75mm, 100mm, 200mm , 300mm , etc.
4. Mesh: 5—600mesh Aperture: 15μm -- 125mm
5. Frame material: Stainless steel, galvanized, etc.



Disintegration Tester BJ-2

Art No: LAB10001

BJ-2 Disintegration tester:
BJ series of instruments are used for detecting disintegration of solid in prescriptive conditions.

Applicable standards:
- National standard(Chinese codex)/2005/
- Corporate standard(Disintegration tester) Q/12XQ0188-2004

Features:
- There are twelve tubes in two basket assemblies.
- Each test station is driver independently.Auto stop at timing point.
- The bath liquid can achieve an even temperature.
- A MPU is used to automatically control the temperature,time and frequency of nacelle up and down.
- Parameters can be preset at anytime.the preset and real data can be displayed alternately in time.
- Automation: auto-test,auto-diagnosis,auto-alarm.

Specifications:	
Basket assemblies	2
Nacelle up and down frequency	(30～32)/min
Nacelle up and down range	(55±1） mm
Automatic time range	(1～900)min
Temperature range	ambient to 45.0°C
Accuracy of temperature control	±0.5°C
Power	220V/52Hz/600W or 110V/60Hz/600W
Dimension	(400x300x420)m^3



SZC-D Fat Meter

Art No: LAB10002

Description:
1.Full closure of electrical heating,at room temperature～200°C. Arbitrary regulation;
2.Circuit control system for non-contact,an enclosed heating system;
3.Timer alarm.

Description:
Using soxhlet extraction to determinate the weight as the principle, it has soak, extraction, heating, condensation and solvent recovery in one. Automatic temperature control, entirely sealed electric heating. At the same time,6 samples can be tested, there is no leakage of waste, speed fast; Reagent can be recycled. It's well-designed, stable and reproducible, high precision, easy to operate, labor-saving, and time-saving.

Technical parameters:	
Measure Range	Crude fat content 0.5% food, fuel and a variety of oils and fat products
Measure quantity	6 samples at same time,menstruum reclaim rate 80%
Precision	Relative difference 3%,Parallel difference 0.3%
Reclaim rate	99%(backflow Speed 120 drop/minute,Cooling water temperature 30°C)
Heating	Aluminum Alloy plate,electric heating
Working power	220(V)±10%,50～60HZ
Rated power	500W
Temperature control range	Room temperature～200°C
Temperature control precision	±0.3°C



Tablet Hardness Tester YD-1

Art No: LAB11001
Tablet hardness tester is an instrument for detecting breaking hardness of tablet.

Applicable standards:
Corporate standard(Tablet hardness tester)Q/12XQ0186-2005

Features:
- The tablet is loaded and pressed artificially.
- It has high accuracy press sensor and hardness data is displayed on LED.
- It tests tablet hardness continuously.
- Test data is displayed and locked automatically,so test can be reset and cycled.
- Automation: auto-test, auto-diagnose, auto-alarm

Specifications:	
Hardness range	(2～199.9)N
Hardness accuracy	±0.5N
Moving distance of probe	20mm
Power	220V/50Hz/10W or 110V/60Hz/10W
Dimension	(320*200*100)mm^3



Rockwell Hardness Tester HR-150A

Art No: LAB11002
Details:
This tester is a popular type Rockwell hardness testing machine, with its novel appearance and easy operation, can be applied in the workshop of factories and measurement department, for determining the Rockwell hardness of ferrous and non-ferrous metals.

Specifications		
Preliminary test force(N)	98	
Total test force(N)	588，980，1471	
Max height of speciments(mm)	170mm	
Distance from Indenter's Center to Outer Wall	165mm	
Machine Size(DXWXH)(mm)	510×230×750	
Weight(kg)	85	
Hardness Range	HRA：20～88	
	HRB：20～100	
	HRC：20～70	



Hardness Tester GY Series

Art No: LAB11003

Details:
The fruit hardness tester series has three kinds of models, used to test apple, pear, strawberry, and grape's hardness. It is suitable for the fruit tree scientific research department, the fruit company, the fruit tree farm, unit and technical college agriculture college and university, to judge fruit's mature degree. This instrument is small and light, can be carried conveniently, specially suitable for the scene determination, the result comes out directly.

Model	LAB12003.01(GY-1)	LAB12003.02(GY-2)	LAB12003.02(GY-3)	
Indication scale	2-15kg/cm^2(×10^6Pa)	0.5-4kg/cm^2(×10^5Pa)	0.5-12kg/cm^2(×10^6Pa)	0.5-24kg/cm^2(×10^5Pa)
Pressure Head size	Φ3.5mm	Φ3.5mm	Φ11mm	Φ8mm
Precision	±0.1	±0.2	±0.1	
Insertion Depth	10mm			
Size	140×60×30mm			
Weight	0.3kg			



LX-A1/C1/D1
Single Needle



LX-A2/C2/D2
Dual Needle



LX-A3/C3/D3
Digital



LX-A4/C4/D4
Digital

Shore Hardness Tester

Characteristics:
1.Needle indicates, easy to read, high accuracy.
2.After testing the top value the driven needle will stop, convenient to read.
3.Handheld design, easy to carry, handheld to measure, also can be installed with matching test stand.

Art No: LAB11004
Art No.: LAB11004.01 LX-A1
Art No.: LAB11004.02 LX-A2
Art No.: LAB11004.03 LX-A3
Art No.: LAB11004.04 LX-A4

Art No: LAB11005
Art No.: LAB11005.01 LX-C1
Art No.: LAB11005.02 LX-C2
Art No.: LAB11005.03 LX-C3
Art No.: LAB11005.04 LX-C4

Art No: LAB11006
Art No.: LAB11006.01 LX-D1
Art No.: LAB11006.02 LX-D2
Art No.: LAB11006.03 LX-D3
Art No.: LAB11006.04 LX-D4

Function:
1) LX-A shore A hardness tester is widely used in the low and medium hardness plastics,all kinds of rubber, multi-dimensional fat, leather, wax, etc.This product refers to ISO868 and the ISO7619 international standard, conforms to GB/T531, JB6148 and the JJG304 standard.

2) LX-C shore C hardness tester is used in measuring the hardness of oak model micro porous material which includes vesicant when the compression ratio is 50%, the stress above 0.5kg/cm2. It also can be used in other similar hardness materials.

3) LX-D shore D hardness tester is suitable for hardness test of high degree hardness material, such as common hard rubber, hardened resin, acryl, Plexiglas, thermos plastic rubber, printing plate, fibre. This product conforms to HG/T2489 and other related standard request.

Specification	Type A	Type C	Type D
Dial value	0~100HA	0~100HC	0~100HD
Needle stroke		2.5mm	
Measure range	10~90HA	10~90HC	10~90HD
Needlepoint size	Φ0.79mm	SR 2.5mm	SR 0.1mm
Weight		0.5kg	



Digital Indicator

Art No: LAB11007

Function:
1.Zero setting at any position
2.Metric/Inch system interchangeable at any position

Specifications

Art No.	LAB11007.01	LAB11007.02	LAB11007.03	LAB11007.04
Resolution	0.01mm/0.0005"		0.001mm/0.00005"	
Measuring Range	0~12.7mm/0.5"	0~25.4mm/1"	0~12.7mm/0.5"	0~25.4mm/1"
Power	SR44,1.5V			
Operating Temperature	0~40°C			
Storage temperature	-20~70°C			
Relative Humidity	≤80%			



Digital Tension Gauge

Art No: LAB11008

It's a kind of tension-test equipment with wide scope of application,high precision and so on, can be used to relay contact pressure, electronic switch, micro auto-phone equipment and armature pressure and so on .

Characteristics:
1. Portable:light weight,small size,easy to carry,operation by one hand.
2. Digital display:LCD display and easy for reading.
3. Unit switch:It has five units:N,Kg,Lb,Oz and g,and can switch into each other.
4. Automatic shut down when no operation or lower power.
5. Ultra-low standby power and long using time.
6. It can be used more than 100 thousand times continuously.

Model	02	03	05	10	20	30	50	100	200	300	500
Max. Load	2N	3N	5N	10N	20N	30N	50N	100N	200N	300N	500N
	0.2Kg	0.3Kg	0.5Kg	1Kg	2Kg	2Kg	5Kg	10Kg	20Kg	30Kg	50Kg
	0.45Lb	0.65Lb	1.1Lb	2.2Lb	4.5Lb	6.5Lb	11Lb	22Lb	44Lb	65Lb	110Lb
Division	0.001N			0.01N				0. 1N			
	0.0001Kg			0.001Kg				0.01Kg			
	0.0001Lb			0.001Kg				0.001Kg			
Precision	±0.5%										
Power	3.7V Li Battery										
Use life	≥300 times										



Hydraulic Compression Testing Machine YES-2000

Art No: LAB11009

PRODUCT DESCRIPTION:
This series of product is hydraulic-powered, using manual loading of brick, concrete, cement and other building materials to test the mechanical properties by compression.Digital display of the value of loading force and speed. The computer can be configured to display the loading curve and data acquisition and processing, and the experimental results can be directly printed and stored.

Model: YES-2000		
Capacity: 2000KN	Accuracy class: Lever 1	Piston stroke (mm) : 120
Size of top compression plate (mm) : 240x240	Compression space (mm) : 320	Power (KW) : 1.0
Size of bottom compression plate (mm) : 350x260	Weight (kg) : 830	
Dimension (mm) : 900×400×1250		



Digital Oxygen Bomb Calorimeter XRY-1A

Art No: LAB12001

Summary:

The instrument is designed as per the National Standard of GB/T213 "Test Methods for Calorific Value of Coal", GB/T384 "Test Methods for Calorific Value of Petroleum Products" and Calibration Regulation of JJG672 "Oxygen Bomb Calorimeter", as well as Company Standard of Q/YXYY 10 "XRY-1 Series Oxygen Bomb Calorimeter".
The heat capacity of the instrument is 14400~14500 J/K, and it is suitable for the determination of water-free oil products (gasoline, jet fuel, diesel oil and fuel oil, etc.) and combustible material such as coal, coke, paraffin wax content determination of calorific value.

Main technical features:

1. The instrument uses a self sealed oxygen bomb, all the structure of stainless steel, the strength is sufficient to withstand the maximum pressure generated by solid combustion (70 ~ 60 ATM), and can withstand the pressure of liquid fuel generated by the greater pressure.
2. The inner tube of the instrument is made of stainless steel sheet, pear section, the barrel of water is 3000 grams, water cylinder with electric blender, to ensure the temperature uniformity of inner tube water bath .
3. The external water jacket is a double wall container and when filled with water, the water jacket mixer in cylinder ensures the temperature uniform, and meets the test requirements of the constant temperature environment.

Main technical specifications:

1. Heat capacity: (14000~15000)J/K;
2. Temperature resolution: 0.001K;
3. Thermal error: ≤60J/g;
4. Temperature measurement range: 10 °C~35 °C;
5. Repeatability error: ≤0.2% (Grade C);
6. Pressure endured by Oxygen bomb: 20 Mpa;
7. Ambient temperature: 15 °C~28 °C (room temperature), The temperature fluctuation during each test should be not more than 1°C;
8. Storage of Temperature data: 31
9. Ambient humidity: less than 85%;
10. Power supply: AC(220±5%)V, 50Hz;
11. Total power consumption: less than 150W.
12. Dimensions: 600 mm×460 mm×430 mm (length×width×height, PC is not included).

Note:

If the test sample is pulverized coal, in order to obtain better test results, we recommend separately of the cake press machine.



Cleveland Open-Cup Flash Point Tester

Art No: LAB12002

Summary:

This instrument is designed as per standards GB/T3536-2008 Petroleum Products - Determination of Flash and Fire Points - Cleveland Open Cup Method and ASTM D 92 Standard Test Method for Flash and Fire Points by Cleveland Open Cup Tester. It is applicable to all petroleum products with flash points above 79°C and below 400°C except fuel oils.

Main technical features:

1. It adopts special heating furnace to ensure the safety of test. The heating power is continuously adjustable. It can meet requirements of test.
2. The instrument adopts desktop structure. The stainless steel working table and furnace shell make it beautiful and elegant.
3. The instrument is fully self-contained. The operator can do determination as long as connected with coal gas or other civil gas.
4. It's equipped with flame extinguishing cover in accord with requirements of test.

Main technical specifications:

1. Power supply:AC(220±10%)V, 50Hz.
2. Heating device:Quartz tube furnace heating, no naked fire, explosion prevented. The power is adjustable from 0W to 600W.
3. Test flame applicator: It applies the test flame automatically.
4. Thermometer:(-6~400)°C. It is the same as thermometer ASTM 11C.
5. Igniting device: (1) Ignition source: coal gas(or civil gas) (2) Flame diameter is 3.2mm~4.8mm
6. Ambient temperature: (-10~50)°C
7. Relative humidity:≤85%
8. Maximum power consumption:650W
9. Dimension: 350mm×290mm×350mm (thermometer not included)



Dual Temperature Control Dry Bath Incubator

Art No: LAB13001

Product description:

This series of dual temperature control dry bath incubator has high precision of temperature control and good sample preparation parallelism with microprocessor-controlled thermostat to replace the traditional water bath devices. It can be widely used in the cultivation and preservation of samples ,DNA amplification, the electrophoresis of denaturation and serum coagulation. Application sectors throughout pharmaceutical, chemical, food safety, environment, quality inspection, etc., with compact appearance and excellent performance.

Product features:

1. Unique dual temperature control slot can individually control temperature to make sure of noninterference.One equipment to meet the demand for more experiments.
2. OLED display, simple interface, double time and temperature setting,means simultaneous temperature and diminishing time display.
3. Fast heating speed, uniform heating, accurate temperature control, high stability, low energy consumption and no noise.
4. Built in temperature calibration function, automatic fault detection and buzzer alarm function.
5. Built in over-temperature protection device, safe and reliable, enhance the service life of the machine.
6. Product designed compact and tight, occupying little space.
7. Various blocks for convenient replacement, easy for cleaning and disinfection.
8. Perfect high module sealing cartridge with cover can make 15 / 50ml high module totally enclosed with dry bath
9. Heated model can configure external sensors to control temperature more accurately and directly.

Technical Parameters

Model No.	LAB13001. 01(Dual Heating)	LAB13001. 02 (Dual Cooling)	LAB13001. 03 (Cooling Heating mixing type)
Temp. Control Range	R.T.+5°C~100°C	-10°C~100°C	Heating:R.T.+5°C~100°C Cooling:-10°C~100°C
Temp. Stability@100℃	≤±0.5°C		
Max Temp. Difference@40℃	0.3°C		
Block Temp. Uniformity	≤±0.3°C		
Display Accuracy	0.1°C		
Heating Time	≤15min (20℃~100℃)		
Time Range	1min~99h59min		
Max Temperature	100°C		
Cooling Time	/	≤25min (R.T.down to 25℃), (Nature down to 26℃)	
Input Voltage	AC 220/110V 50/60Hz		
Power	150W	200W	170W
Fuse Protector	250V,2A/4A,Φ5×20		
Dimension	W.240×D.260×H.168 mm		
Net Weight	2.6kgs		

Exchangeable blocks

Type	Tube Diameter	Tube Quantity	Max Capacity
BT-A	0.2ml Centrifuge tube	24×0.2ml	8 Pieces
BT-B	0.5ml Centrifuge tube	12×0.5ml	8 Pieces
BT-C	1.5ml Centrifuge tube	6×1.5ml	8 Pieces
BT-D	2ml Centrifuge tube	6×2.0ml	8 Pieces
BT-E	0.2ml Centrifuge tube	96X0.2ml	2 pieces Standard PCR plates
BT-F	15ml Centrifuge tube	6×15ml	4 Pieces
BT-G	50ml Centrifuge tube	3×50ml	4 Pieces
BT-H	Customized	Customized	Customized



BT-A BT-B BT-C BT-D BT-E BT-F BT-G



Dry Bath Incubator DKT200 Series

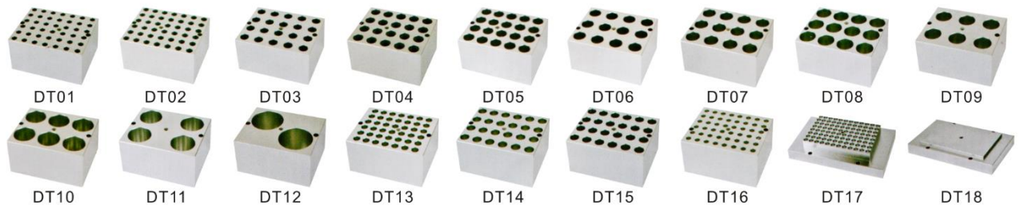
Art No: LAB13002

Product description:
DKT200 series dry bath incubator is a microprocessor-controlled device, high precision of temperature control, sample preparation parallelism, as an alternative to the traditional water bath device. It can be widely used in various sample cultivation, preservation and reaction. Application of industry includes pharmaceuticals, chemicals, food safety, environment,and quality inspection.

Product features:
1. LCD display,cool and compact design.
2. Fast heating speed, uniform heating, accurate temperature control, high stability, low energy consumption and no noise.
3. Built in temperature calibration function, automatic fault detection and buzzer alarm function.
4. Built in over-temperature protection device, safe and reliable, enhance the service life of the machine.
5. Product designed compact and tight, occupys little space.
6. Various blocks for convenient replacement, easy for cleaning and disinfection.

Product technical parameters

Model No.	DKT200-1	DKT200-2	DKT200-4
Temperature Control Range	R.T.+5°C - 150°C		R.T.+5°C - 120°C
Heating Time	⩽ 30min (20°C to 150°C)		⩽ 30min (20°C to120°C)
Temperature Control Accuracy@100~150°C	⩽ ±1°C		
Temperature Control Accuracy @40~100°C	⩽ ±0.5°C		
Block Temp Discrepancy@40°C	0.3°C		
Block Temperature Uniformity	⩽ ±0.5°C		
Display Accuracy	0.1°C		
Timing Range	99h59min		
Maximum Temperature	150°C		120°C
Maximum Power	200W	400W	600W
Dimension (mm)	230x220x95	260x220x95	360x220x95
Block Selection	Refer to "Exchangeable blocks for DKT series"		



Exchangeable blocks for DKT series

Type	Hole Bottom Shape	Specification	Hole Diameter (mm)	Block Dimension (mm)
DT01	Round	6mm x 42	6.5	95.5X76.5X50
DT02	Round	7mm x 42	7.5	95.5X76.5X50
DT03	Round	10mm x 20	10.5	95.5X76.5X50
DT04	Round	12mm x 20	12.5	95.5X76.5X50
DT05	Round	13mm x 20	13.5	95.5X76.5X50
DT06	Round	15mm x 12	15.5	95.5X76.5X50
DT07	Round	16mm x 12	16.5	95.5X76.5X50
DT08	Round	19mm x 12	19.5	95.5X76.5X50
DT09	Round	20mm x 6	20.5	95.5X76.5X50
DT10	Round	26mm x 6	26.5	95.5X76.5X50
DT11	Flat	28mm x 4	28.5	95.5X76.5X50
DT12	Round	40mm x 2	40.5	95.5X76.5X50
DT13	Cone	0.5mL x 42	8	95.5X76.5X50
DT14	Cone	1.5mL x 24	10.8	95.5X76.5X50
DT15	Round	2mL x 24	10.8	95.5X76.5X50
DT16	Cone	0.2mL x 48	6.1	95.5X76.5X50
DT17	Cone	0.2mL x 96	6.7	95.5X153.5X335
DT18	Flat	Plate(no holes)	Top size: 76x116x4	95.5X135X22.5





Blood Type Reagent Card Storage Frame



Microplate Storage Frame

Air Bath

Art No: LAB13003

Product description:
The air bath is a multipurpose incubator with built in micro-processor and PID control. It is suitable for sample incubating in micro-plates, Gel cards, beakers, culture dishes, etc.

Product features:
1. It looks neat and concise. Transparent cover makes experimentation visible.
2. LCD displays temperature and time.
3. Various sample containers such as micro-plate, reagent card frame, beaker, culture dish, etc. can be put into the incubation space.
4. Micro-processor controls temperature and time. Safe and reliable. Beep alarm when time ends.
5. Incubate simultaneously for various containers to improve experiment efficiency.

Technical Parameters

Model	LAB13003
Temperature Range	R.T+5 ~60°C
Timing Range	1min ~99h59min
Temperature Uniformity	±0.5°C
Temperature Stability	±0.2°C
Temperature Display Accuracy	0.1°C
Fan Speed Range	1200~3200rpm
Power Supply	220V / 110V 300W
Incubation Space Size	245x 215 x 85 mm
Dimension	395 x 275 x 130 mm



MT/ST Series Micro-Plate Incubator

Art No: LAB13004

Product description:
This series Micro-plate incubator is a well-designed incubator with micro processor combined with PID control. It is mainly used for solution incubation of ELISA plate (96-/384-well), cell culture plate (24-/48-/96-well) at proper temperature.

Product features:
1. LCD display, set and actual temperatures displayed simultaneously, time and shaking speed (for ST series) displayed.
2. Humanized touch operation interface, streamlined appearance, convenient to clean.
3. Two-side heating of micro plates allows achieving exact correspondence of the set and actual temperatures in wells of the micro plates.
4. The microprocessor controls the time, temperature and shaking speed. Good linearity of temperature control, speed accurate, small fluctuation.
5. Can configure 4 standard microtiter plates and plates, alarm after operation ends.
6. Power restore function, equipment can restore to operate as the original set automatically (for ST series)
7. DC brushless motor drive, long service life, free of maintenance.

Technical Parameters

Model No.	MT70-2 Micro-Plate Incubator	MT60-4 Micro-Plate Incubator	ST70-2 Micro-Plate Shaker Incubator	ST60-4 Micro-Plate Shaker Incubator
Temperature Control Range	RT+5°C-70°C	RT+5°C-60°C	RT+5°C-70°C	RT+5°C-60°C
Block Temperature Uniformity	⩽ ±0.5°C			
Temperature Control Accuracy	⩽ ±0.2°C			
Heating Platform Temperature Accuracy	<0.3°C @37°C			
Heating Time	<25 min (from 20°C to 70°C)	<25 min (from 20°C to 60°C)	<25 min (from 20°C to 70°C)	<25 min (from 20°C to 60°C)
Timing Range	0 - 99h59min			
Capacity	2 pieces of plates	4 pieces of plates	2 pieces of plates	4 pieces of plates
Shaking Speed	/	/	300-1200 rpm	
Shaking Orbit	/	/	3mm(horizontal)	2mm(horizontal)
Power	150W	250W	150W	250W
Dimension (LxWxH)	284 x 264 x 157mm	345 x 310 x 178mm	284x264x157mm	345 x 310 x 178mm



DTH/C-100 Dry Bath Incubator

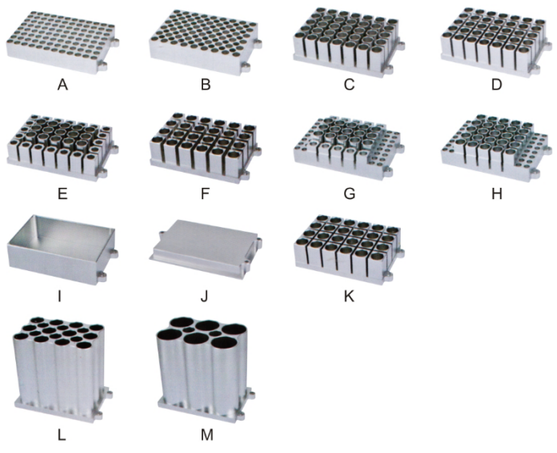
Art No: LAB13005

Product description:
DTC-100 DRY BATH INCUBATOR(cooling)is a microprocessor-controlled device, high precision of temperature control, sample preparation parallelism, as an alternative to the traditional water bath device. It can be widely used in sample cultivation, preservation and reaction, and DNA amplification, electrophoresis of denaturation and serum coagulation. Application of industry includes pharmaceuticals, chemicals, food safety, environment, quality inspection.

Product features:
1, LCD display, simple interface, double time and temperature settings. Simultaneous display of set temperature and time diminishing .
2, high heating speed, uniform heating, accurate temperature control, high stability, low energy consumption and no noise.
3, Built in temperature calibration function, automatic fault detection and buzzer alarm function.
4, Built in over-temperature protection device, safe and reliable use, prolong the service life of the machine.
5, product designed compact and tight, small occupied space.
6, Various blocks for convenient replacement, cleaning and disinfection.
7, Power recovery function can restore the original running automatically after recovered.
8, Programmable function. It can set continuous operation by uncertain time.

Technical Parameters

ModelNo.	DTH-100 Dry Bath Incubator(heating)	DTC-100 Dry Bath Incubator (cooling)
Temperature Control Range	RT+5°C-100°C	-10°C-100°C
Temperature Control Accuracy @100°C	⩽±0.5℃	
Block Temp Difference 40°C	0.3°C	
Block Temperature Uniformity	⩽±0.3°C	
Display Accuracy	0.1°C	
Heating Time	⩽15min(from 20°C to 100°C)	
Timing Range	99h59min	
Maximum Temperature	100°C	
Cooling Time	/	⩽30min from RT to RT- 30℃,(detect at 26°C)
Maximum Power	150W	
Net Weight	2.2Kg	
Dimension (LxWxH)	270x196x170 mm	
Block Selection	Refer to " Exchangeable blocks for DTH-100/DTC-100 series"	



Exchangeable blocks for DTH-100/DTC-100 series

Type	Description
A	96×0.2ml PCR plate
B	54×0.5ml
C	35×1.5ml
D	35×2.0ml
E	20×0.5ml+15×1.5ml
F	24×Dia. ⩽φ12mm
G	32×0.2ml+25×1.5ml
H	32×0.2ml+10×0.5ml+15×1.5ml
I	103×67×30mm(water bath block)
J	96×0.2ml(flat bottom)
K	24×5ml
L	12×15ml
M	6×50ml
N	Customized Block



Mini Dry Bath Incubator

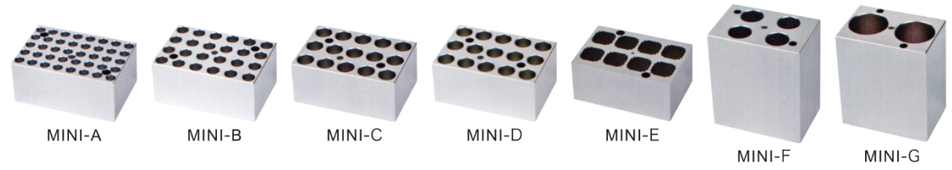
Art No: LAB13006

Product description: The mini dry bath is a micro-processor controlled heating block with heater (heating types) or semiconductor refrigeration (cooling types). Type 100F is with fan for heat dissipation, which makes temperature down much faster than cooled by nature.

Product features:
1. Unique design, smart and light, convenient to move, suit for various occasions.
2. LCD simultaneously displays set and actual times and temperatures. Temperature calibration function.
3. Automatic fault detection function with buzzer alarm.
4. 24V DC input power, built-in over-temperature protection device.
5. Various of blocks for option. Convenient for replacement. Easy for cleaning and disinfection.

Technical Parameters

Model No.	MINIB-100F	MINIB-100	MINIB-100I	MINIC-100	MINIC-100I
Temperature Control Range	R.T.+5°C～100°C			-10°C～100°C	
Temp. Control Accuracy@100°C	⩽±0.5°C				
Block Temp Difference@40°C	0.3°C				
Block Temp. Uniformity	⩽±0.3°C				
Display Accuracy	0.1°C				
Heating Speed	⩽15min(20°C～100°C)				
Voltage	DC24V Adapter				
Timing Range	0-999min				
Max. Temp.	100°C				
Max. Power	60W			120W	
Cooling Time	fan cooling	natural cooling		⩽30min (from R.T. to R.T.-20°C	
Net Weight:	⩽1.0kg			⩽1.4kg	
With Thermo Lid	NO	NO	YES	NO	YES
Block Selection	Refer to "Exchangeable Blocks for Mini Dry Bath Series"				



Exchangeable Blocks for Mini Dry Bath Series"

Type	Block(mm)	Diameter of Hole(mm)	Specification	Hole Bottom Shape
MINI-A	71x47x32	6.1	40×0.2ml	Cone
MINI-B	71x47x32	8	24×0.5ml	Cone
MINI-C	71x47x32	10.8	15×1.5ml	Cone
MINI-D	71x47x32	10.8	15×2.0ml	Round
MINI-E	71x47x32	8～12.5	8 x Cuvette	No
MINI-F	71x47x82	16.9	4x15ml	Flat
MINI-G	71x47x82	29.2	2x50ml (cover can't be closed)	Flat



Thermo Shaker Incubator MTC/H -100 Series

Art No: LAB13007

Product description:
Thermo Shaker Incubator MTC/H-100 series is themo shaker incubator with fast mixing speed and integrates functions of mixing, shaking, heating and Cooling(for MTC-100).Combined with intelligent operation design, it not only can mix various micro volume tubes, PCR plates, deep hole plates and micro plates and other common laboratory supplies, but also is equipped the functions of votexing and heating all kinds of tubes. It can meet the needs of different users.

Product features:
1. Perfect radius and excellent dimensional mixing technology with adjustable mixing speed.
2. Programmable. Efficient shaking and temperature control.
3. Restore from power off, recover the pre-status automatically.
4. Microprocessor controlled incubator. Good linearity of temperature control. Precise control of the shaking speed.
5. Timing function. Time range is from 0 to 100hours.Uncertain time to run continuously is also available.
6. Various blocks to exchange, convenient to replace.
7. Built-in temperature calibration function and short mixing function.
8. DC brushless motor drive, long life and free of maintenance.
9. Multiple safety protection function. Conform to CE safety standards, safe and reliable.

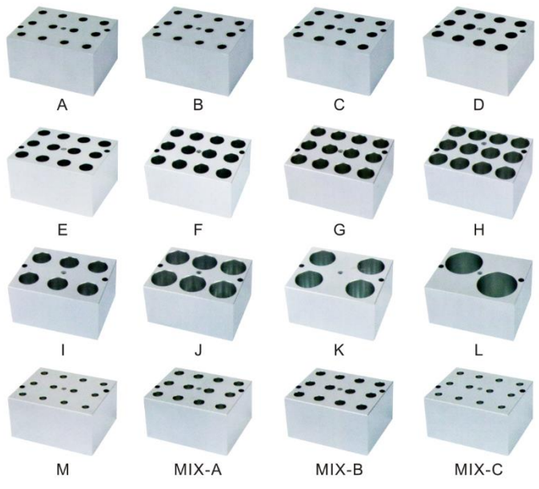
Technical parameters

Model No.	MTC-100(cooling)	MTH-100(heating)
Temperature ControlRange	0°C - 100°C	R.T.+5°C - 100°C
Block Temperature Uniformity	⩽±0.3°C	
Temperature Control Accuracy	±0.3°C	
Display Accuracy	0.1°C	
Shaking Speed	300-1500rpm	300-2000rpm
Shaking Orbit	3mm (horizontal)	
Timing Range	99h59min or continuous	
Heating Time	<15min (from 20°C to 100°C)	
Cooling Time	⩽330min from R.T. to R.T.-20°C (detected below 30°C)	/
Maximum Power	200W	
Dimension (LxWxH)	270x196x170 mm	
Block Selection	Refer to " Exchangeable blocks for MTH-100/MTC-100 series"	

3 Shaking and Incubating Methods:

1.Plate(shaking and mixing)	2.Tube holers(shaking and mixing)	3.Blocks (shaking,mixing,incubator)
1)PCR plates (skirted, semi-skirted, unskirted)	1)0.2 ml PCR tube and PCR strip stand	Refer to " Exchangeable blocks for MTH-100/MTC-100 series"
2)384 well PCR plate	2)PCR tube and PCR strip stand	
3)96- and 384- deepwell plates	3)0.5 ml Micro-test tube stand	
4)MTPs，enzyme labeled plate	4)1.5 ml/2.0ml Micro-test tube stand	

Conventional configuration
MTC-100A / MTC-100B / MTC-100C / MTC-100D / MTC-100E　MTH-100A / MTH-100B / MTH-100C / MTH-100D / MTH-100E
E.g.: MTC-100C means selecting the type MTC-100 with Block type C.



Exchangeable blocks for MTH-100/MTC-100 series

Type	Description
A	96×0.2ml PCR plate
B	54×0.5ml
C	35×1.5ml
D	35×2.0ml
E	20×0.5ml+15×1.5ml
F	24×Dia. ⩽φ12mm
G	32×0.2ml+25×1.5ml
H	32×0.2ml+10×0.5ml+15×1.5ml
I	103×67×30mm(water bath block)
J	96×0.2ml(flat bottom)
K	24×5ml(High cover)
L	12×15ml(High cover)
M	6×50ml(High cover)
MIX-A	96 x 0.2ml tube stand
MIX-B	24 x 0.5ml tube stand
MIX-C	24 x 1.5/2.0ml tube stand



NK200-1B Sample Concentrator (visible)

Art No: LAB14001

Product description:
The nitrogen sample concentrator (visible) NK200-1B is mainly used for concentrating or preparing samples in drug screening, hormone analysis, liquid phase and mass spectrometric analysis. It works by blowing nitrogen onto the surface of sample which is being heated to accelerate evaporating and separating the solvent in the samples without oxygen. Instead of the rotary evaporation instrument, nitrogen sample concentrator can efficiently concentrate dozens of samples simultaneously. The sample surface in the tube can be observed while concentrating.

Product features:
1. Synchronously working with heating by dry bath in the bottom and nitrogen blowing on the surface accelerates liquid evaporation and sample concentration.
2. The position of gas needle in air cavity can be adjusted to suit different types of tubes.
3. The height of the air cavity can be adjusted. The length of a standard gas needle is 150mm.
4. Sample surface in the tube can be observed while concentrating.
5. Gas needle is controlled independently. Separate blow and flow regulating of each needle are available to avoid gas waste.
6. The entire equipment can be put into ventilation cabinet if the concentration sample in toxic solvents.
7. Built-in overheat protection, automatic fault detection and fault beep alarm devices.
8. LED displays immediate temperature and diminishing time. Operation is simple and convenient.

Technical Parameters

Model No.	NK200-1B
Temperature Range	R.T.+5°C ~ 150°C
Heating Time	⩽30min (from 40°C to 150°C)
Temperature Accuracy (40~100°C)	±0.5°C
Temperature Accuracy (100~150°C)	±1°C
Temperature Uniformity (100°C)	±0.5°C
Temperature Display Accuracy	0.1°C
Blocks Quantity	1 block
Time Range	99h59min or continuous
Needle Plate Max. Lift Stroke	285mm
Nitrogen Flow	0~10L/min
Nitrogen Pressure	⩽0.1MPa
Power	400W
Dimensions	260 x 220 x 525 (mm)
Blocks Selection	Refer to "Exchangeable blocks for NK200-1B"

Conventional configuration:
Optional blocks from NK01 to NK07. Block can be interchanged easily.
NK04 and NK05 are common.
Optional flow regulating valve.

Blocks replacement for NK200-1B Series

Type	Tube Diameter	Tubes	Block Size (mm)
NK01	10 mm	12	153.5 x 96 x 49
NK02	12 mm	12	153.5 x 96 x 49
NK03	13 mm	12	153.5 x 96 x 49
NK04	15 mm	12	153.5 x 96 x 49
NK05	16 mm	12	153.5 x 96 x 49
NK06	19 mm	12	153.5 x 96 x 49
NK07	20 mm	12	153.5 x 96 x 49



Exchangeable blocks for NK200-1B



NDK200-1A Sample Concentrator

Art No: LAB14002

Product description:

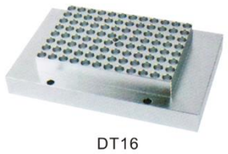
The nitrogen sample concentrator (96-gas-needles) NDK200-1A is mainly used for concentrating or preparing sample in drug screening, hormone analysis, liquid phase and mass spectrometric analysis. It works by blowing nitrogen onto the surface of sample which is being heated to accelerate evaporating and separating the solvent in the samples without oxygen. Instead of the rotary evaporation instrument, nitrogen sample concentrator can efficiently concentrate dozens of samples simultaneously.

Product features:

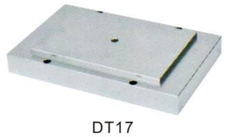
1. The heater allows samples to be heated rapidly to the evaporation temperature, through the gas blow to the solution surface via needle at the same time, prompting rapid evaporation and concentration of solution.
2. The height of the air cavity can be adjusted, the length of standard gas needle is 80 mm.
3. Each blow needle is controlled independently, separate blow, separate flow regulation, no waste of gas.
4. The entire system can be put into the ventilation cabinet when processing concentration of toxic solvents,
5. Built-in over-temperature protection device, automatic fault detection and alarm function.
6. LED display, temperature and time diminishing display, the operation is simple and convenient.
7. configured standard gas chamber and special adjustable bracket.

Technical Parameters

Model No.	NDK200-1A Concentrator(96-gas-needles)
Temperature Range	R.T.+5°C ~ 150°C
Heating Time	≤30min (from 40°C to 150°C)
Temperature Accuracy (40~100°C)	±0.5°C
Temperature Accuracy (100~150°C)	±1°C
Temperature Uniformity (100°C)	±0.5°C
Block Quantity	1block
Temperature Display Accuracy	0.1°C
Time Range	99h59min
Needle Plate Max. Lift Stroke	275mm
Nitrogen Flow	0~10L/min
Nitrogen Pressure	≤0.1MPa
Power	400W
Dimensions	260 x 220 x 500 (mm)
Block Selection	Refer to "Exchangeable blocks for NDK200-1A"



DT16



DT17

Conventional configuration:

Supply 2 types of optional blocks – DT16 and DT17. Block can be interchanged easily.
Optional flow regulating valve.

Exchangeable blocks for NDK200-1A

Type	Specification	Dia of Hole	Hole Bottom Shape	Block Size(mm)
DT16	0.2ml x 96	6.7mm	Cone	78 x 114 x 26
DT17	96 hole enzyme plates	Top size: 76x116x4mm	Flat Plate	81 x 123 x 19

DT16, DT17 is specially configured for NDK200-1A



NDK200-1/2 Sample Concentrator

Art No: LAB14003

Product description:

The nitrogen sample concentrator (visible) NK200-1B is mainly used for concentrating or preparing samples in drug screening, hormone analysis, liquid phase and mass spectrometric analysis. It works by blowing nitrogen onto the surface of sample which is being heated to accelerate evaporating and separating the solvent in the samples without oxygen. Instead of the rotary evaporation instrument, nitrogen sample concentrator can efficiently concentrate dozens of samples simultaneously. The sample surface in the tube can be observed while concentrating.

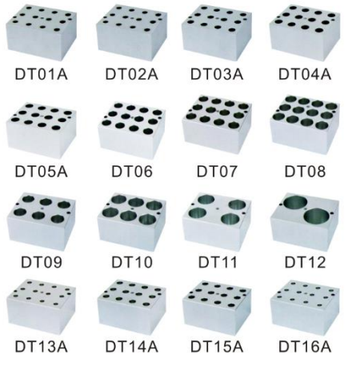
Product features:

1. Synchronously working with heating by dry bath in the bottom and nitrogen blowing on the surface accelerates liquid evaporation and sample concentration.
2. The position of gas needle in air cavity can be adjusted to suit different types of tubes.
3. The height of the air cavity can be adjusted. The length of a standard gas needle is 150mm.
4. Gas needle is controlled independently. Separate blow and flow regulation of each needle are available to avoid gas waste.
5. The entire equipment can be put into ventilation cabinet if the concentration sample in toxic solvent.
6. Built in overheat protection, automatic fault detection and fault beep alarm devices.
7. LED displays immediate temperature and diminishing time. Operation is simple and convenient.
8. Standard configured air cavity and adjustable bracket.

Technical Parameters

Model No.	NDK200-1 nitrogen concentrator	NDK200-2 nitrogen concentrator
Temperature range	RT+5°C to 150°C	
Heating time	≤30min(from40°C to 150°C)	
Temperature accuracy(40~100°C)	±0.5°C	
Temperature accuracy(100~150°C)	±1°C	
Temperature uniformity(100°C)	±0.5°C	
Temperature Display Accuracy	0.1°C	
Block Quantity	1piece	2piece
Time range	99h59min or continuous	
Needle Plate Max. Lift Stroke	285mm	
Nitrogen flow	0-10L/min	
Nitrogen pressure	≤0.1MPa	
Power	200W	400W
Dimensions	230x200x500 mm	260x220x500 mm
Blocks Selection	Refer to the "Exchangeable blocks for NDK Series"	





DT01A DT02A DT03A DT04A
DT05A DT06 DT07 DT08
DT09 DT10 DT11 DT12
DT13A DT14A DT15A DT16A

Conventional configuration is block DT06.

Optional blocks from DT01A to DT17. Blocks can be interchanged easily.
Flow regulation valve optional.

Blocks replacement for NDK Series

Type	Description	Block Dimension (mm)
DT01A	Φ6mm x 12	95.5 x 76.5 x 50
DT02A	Φ7mm x 12	95.5 x 76.5 x 50
DT03A	Φ10mm x 12	95.5 x 76.5 x 50
DT04A	Φ12mm x 12	95.5 x 76.5 x 50
DT05A	Φ13 mm x 12	95.5 x 76.5 x 50
DT06	Φ15 mm x 12	95.5 x 76.5 x 50
DT07	Φ16 mm x 12	95.5 x 76.5 x 50
DT08	Φ19 mm x 12	95.5 x 76.5 x 50
DT09	Φ20 mm x 12	95.5 x 76.5 x 50
DT10	Φ26 mm x 6	95.5 x 76.5 x 50
DT11	Φ28 mm x 4	95.5 x 76.5 x 50
DT12	Φ40 mm x 2	95.5 x 76.5 x 50
DT13A	0.5ml centrifuge tube x 12	95.5 x 76.5 x 50
DT14A	1.5ml centrifuge tube x 12	95.5 x 76.5 x 50
DT15A	2.0ml centrifuge tube x 12	95.5 x 76.5 x 50
DT16A	0.2ml tube x 12	95.5 x 76.5 x 50
DT17	Flat (96-hole Enzyme Plate)	78 x 114 x 26



Thermal Cycler A200/300

Art No: LAB15001

Gradient Model A200/300:
Newest Generation Peltier-based Technology, more Steady, Reliable and Durable.
7"Color Full Touch Screen, Graphical Display of Protocols.
Effortlessly Interchangeable Reaction Modules that Swap in Seconds without Tools.
Unlimited storage of Protocols with USB Flash Drive.

Heat Lid
Innovatively Designed Two-in-One (Open/Lift) Lid
Auto Shut-off Heating Function of Lid at Low Temperature (<30°C) of block
Steplessly Adjustable Lid, accommodates all kinds of PCR tubes,strips and plates

Software
1. Max.30 Steps
2. 100 Typical Cycles, max. 60,000 nesting cycles
3. Time/Temp. Increment/Decrement is available for performing Long PCR and Touchdown PCR
4. Auto Pause; Auto restart after power failure
5. An Infinite incubation time at low temperature for overnight working
6. Multi-user log in with password-based authentication prevents from view, copy and alteration of protocols, ensure user's privacy and safety
7. Tm calculator automatically calculates the melting and annealing temperature through input of two primary sequences, greatly improve work efficiency
8. Program wizard provides a quick method for creating PCR protocols in a few steps
9. Display recently run 10 programs for easy access
10. Get detailed running report, providing objective and precise information for the whole experiment
11. Effortlessly Combine up to 50 units of A200/300 for remote control and management by computers

Model No.	A200	A300
Optional Module		
9 6 Module	96wells×0.2ml	96wells×0.2ml(with gradient)
9677Module	96wells×0.2ml+77wells×0.5ml	96wells×0.2ml+77wells×0.5ml(with gradient)
384 Module	384wells(with gradient)	384wells(with gradient)
Multi-purpose Module	9677 Module+In-situ Adapter	9677 Module+In-situ Adapter(with gradient)
Temperature		
Block Temperature Range	0°C~105°C	
Max. Ramping Rate	5°C/sec	6°C/sec
Temperature Uniformity	≤±0.2°C(at 95°C)	
Temperature Accuracy	≤±0.1°C(35℃-100°C)	
Display Resolution	0.1°C	
Mode of Temperature Control	Sim-tube & Block mode	
Gradient		
Gradient Accuracy	≤±0.1°C (35°C-100°C)	
Column Uniformity	≤±0.2°C (at 95°C)	
Gradient Range	30°C~105°C	
Temp. Differential Range	1~30°C	
Gradient Capability	12 Column	
Other Features		
Wide Range Power Supply	85V-265V, 47-63Hz	
Communication Ports	USB2.0, LAN	2 USB2.0, LAN
Power Consumption	Max.600W	
Dimension(L×W×H)	362×256×255mm	



Horizontal Electrophoresis

Art No: LAB15003

Product description:
This Horizontal Gel Electrophoresis Unit is a one-body electrophoresis Unit, which has compact design, stable performance, easy operation and good reproducibility and cost performance. On one hand, unique design, it assures the uniformity of electric field in unit. On the other hand, as the bubble produced by platinum electrode is separated, buffer PH has good stability. It is widely used in chemical field, ideal for teaching, scientific research, food and medical treatment. Horizontal gel electrophoresis unit is mainly used for separation and test of nucleic acid.
1、New and unique appearance, mini and portable; The electrophoresis tank and power can be separated.
2、The cover with safey design, flip cover immediately power off, to ensure safety;Transparent cover+ open hole design, easy to heat dissipation and observation; Top handle design, easy to pick and place.
3、One-key select 135V, 100V, 70V, 50V, 35V, 25V, 18V seven desired output voltage, convenient and efficient, saving standby consumption.
4、Specially designed Electrophoresis shape, reducing the temperature difference between the buffer, while the heat benefit is improved. Put the gel into a limited position without drift.
5、With the pause function, timing function, can leave after press the start button, with Alarm function, buzzer alert at the end.
6、Highlight digital tube displays the set parameters, default remember the output voltage and time Settings of the previous operation.
7、When the electrophoresis current exceeds the peak current, will automatically adjust the voltage to reduce the current value, improve the experimental reproducibility.
8、Equipped with variety of specifications of gel trays / combs, compatible with a variety of experimental needs, compatible with high-throughput electrophoresis and multi-channel pipette operation.

Parameter:

Model No.	Horizontal Gel Electrophoresis Unit
Capacity	Max 500ml (please increase or decrease according to the size of the gel)
Inner Diameter Dimension (W×D×H)	150×150×47mm
Multi-channel Suitability	Suitable for multi-channel pipettor
Timing Function	1min~999min or continu, with pause function
Security Settings	The power is automatically paused when the cover is lifted
Storage Function	Automatically memorize the previous operating voltage and time
Input Power	AC100~240V、AC50/60Hz
Output Voltage	Constant peak voltage(140V), impulse control
Dimensions(W×D×H)	260×170×68mm
Net Weight	0.78kgs



Electric Thermostatic Incubator

DHP

Art. No	DHP9052	DHP9082	DHP9162	DHP9272
Working Size(cm)	415x345x370	500x400x400	500x500x650	600x600x750
Power(Kw)	240	350	550	750
Timing	1-9999min	1-9999min	1-9999min	1-9999min
Temperature Range(℃)	RT+5~65	RT+5~65	RT+5~65	RT+5~65



Co2 Incubator

HH.CP

Art. No	HH.CP-T	HH.CP-01	HH.CP-TW	HH.CP-01W
Working Size(cm)	500x400x400	500x500x650	500x400x400	500x500x650
Power(Kw)	450	750	680	950
Timing	Air-jacketed	Air-jacketed	Air-jacketed	Air-jacketed
Temperature Range(℃)	RT+5~50	RT+5~50	RT+5~50	RT+5~50
CO2 Range	0-20%	0-20%	0-20%	0-20%



Electric Air Drying Oven

DHG

Art. No	DHG-0A	DHG-1A	DHG-2A	DHG-3A
Working Size(cm)	35x35x35cm	45x45x35cm	55x55x45cm	75x60x50cm
Power(Kw)	1.6	3	3	5
Working Temperature(℃)	10~300	10~300	10~300	10~300



Vacuum Drying Oven

DZF

Art. No	DZF6020	DZF6050	DZF6090
Working Size(cm)	300x300x275	410x345x370	450x450x4500
Power(Kw)	≧300	≧1000	≧1200
Working Temperature(℃)	50~180	50~250	50~250



Water-jacket Thermostatic Incubator

GHP

Art. No	GHP9050	GHP9080	GHP9160	GHP9270
Working Size(cm)	350x350x410	400x400x500	500x500x650	600x600x750
Power(Kw)	450	650	850	1350
Timing	1-9999min	1-9999min	1-9999min	1-9999min
Temperature Range(℃)	RT+5 ~ 65	RT+5 ~ 65	RT+5~65	RT+5~65
Heating Method	Water temperature	Water temperature	Water temperature	Water temperature



Mould Incubator

Temperature range: 5 ~ 50℃
Humidity range: 45 ~ 95%

Art No: MHP150	Capacity: 150L
Art No: MHP250	Capacity: 250L
Art No: MHP300	Capacity: 300L



Biochemical Incubator

Temperature range: 5 ~ 50℃

Art No: SHP080	Capacity: 80L
Art No: SHP150	Capacity: 150L
Art No: SHP250	Capacity: 250L
Art No: SHP300	Capacity: 300L
Art No: SHP450	Capacity: 450L



PH Incubator

PH

Art. No	PH010	PH030	PH050	PH070
Working Size(cm)	350x350x410	400x400x500	500x500x650	600x600x750
Power(Kw)	850	850	1100	1500
Timing Range	1-9999min			
Temperature Range(℃)	RT+5~80/ 80~220			



Forced Air Oven WGL/WGLL Series

Product description:
This new device is widely used for drying, baking, wax melting, solidification and thermal treatment in the school laboratory, mining, food processing, biochemistry, agriculture, and pharmaceutical industry for samples.

Characteristics:
1. New Vertical type, made of cold rolled steel with electrostatically coated exterior.
2. Adopts the new style design, bottom air fan and heater well coordinated and vertical double air passage circulation ensures the high temperature evenness. When the temperature up to the set temperature, the users can turn off the fan to avoid the powder or other small samples moving in the inner chamber.
3. Stainless steel inner chamber, semicircular arcs at corners for easy cleaning. The space between the shelves is adjustable. The two sides heating air passage and bottom heating cover can be quickly assembled and disassembled.
4. PID micro-computer intelligent temperature controller with functions of timing(0-9999min), fixed temperature, over-temperature alarm, automatical stop, dual display, precise temperature control and convenience to read. And it has the function of protecting the parameters by recovering after power the data because of power out or system failure.
5. With vertical double duct lining and turbine of centrifugal force air, temperature is more uniform. The special air forced heat radiation construction ensures the low noise and fan temperature less than 50℃, so the fan can be used longer.
6. High quality heat insulation door with wide glass observation window, adjustable air-tight buckled lock and silicon rubber seal.

Note: WGL-625B fan on the top of inner chamber.
Optional accessories: shelves, RS485 interface, printer, recorder, external communication, remote control, program temperature control device, wireless SMS alarm, USB data storage.

Main parameters

Art No.	WGL-30B	WGL-45B	WGL-65B	WGL-125B	WGL-230B	WGL-625B
voltage	220V/50Hz					380V/50Hz
Tem. Range (°C)	RT+10~300°C					
Tem.Fluctuation (°C)	±1.0°C					
Tem. Resolution Ratio	0.1°C					
Ambient tem. (°C)	5-40°C					
Heating power (kw)	0.8	1.2	1.6	2.3	3	5
Inner Champer Size (mm)	310×310×310	350×350×350	400×360×450	500×450×550	600×500×750	660×760×1250
Exterior Size (mm)	450×490×685	490×530×730	540×540×830	640×630×930	730×670×1220	890×880×1820
Load per rack (Kg)	15kg 2pcs				25kg 2pcs	25kg 3pcs
Timing range	0-9999min					



Forced Air Oven WGLL Series

Product description:
This new device is widely used for drying, baking, wax melting, solidification and thermal treatment in the school laboratory, mining, food processing, biochemistry, agriculture, and pharmaceutical industry for samples.

Characteristics:
1. New Vertical type, made of cold rolled steel with electrostatically coated exterior.
2. Adopts the new style design, bottom air fan and heater well coordinated and vertical double air passage circulation ensures the high temperature evenness. When the temperature up to the set temperature, the users can turn off the fan to avoid the powder or other small samples moving in the inner chamber.
3. With vertical double duct lining and turbine of centrifugal force air, temperature is more uniform. The special air forced heat radiation construction ensures the low noise and fan temperature less than 50℃, so the fan can be used longer.
4. With adjustor to adjust the fan speed, the user can choose use the fan and adjust the speed ensure the high temperature evenness, or not use the fan to avoid the powder or other small samples move in the inner chamber.
5. Big size LCD display displays multiple sets of data. The unique navigation operating key used more humanized. The LCD display with functions of timing of operation (0-9999min), fixed temperature control and convenient to read. And it has a function of protecting the parameters memory to recover after power on in the situation of data loss because of power out and system halted.
6. Independent audible and visible temperature-limit alarm system, cut off the power automatically when over the temperature limit, ensures experiments run safely and no accident would happen.
7. High quality heat isolation door with wide hollow tempered glass observation window, adjustable air-tight buckle lock and silicon rubber seal.
Note: WGLL-230BE and WGLL-625BE without fan speed adjustor.
WGLL-625BE fan on the top of inner chamber.
Optional accessories: Shelves, RS485 interface, printer, recorder, External communication, remote control, Program temperature control device, wireless SMS alarm, USB data storage

Main parameters

Art No.	WGLL-30BE	WGLL-45BE	WGLL-65BE	WGLL-125BE	WGLL-230BE	WGLL-625BE
voltage	220V/50Hz					380V/50Hz
Tem. Range (°C)	RT+10~300°C					
Tem. Fluctuation (°C)	±1.0°C					
Tem. Resolution Ratio	0.1°C					
Ambient tem. (°C)	5-40°C					
Heating power (kw)	0.8	1.2	1.6	2.3	3	5
Inner Champer Size (mm)	310×310×310	350×350×350	400×360×450	500×450×550	600×500×750	660×760×1250
Exterior Size (mm)	450×490×685	490×530×730	540×540×830	640×630×930	730×670×1220	890×880×1820
Load per rack (Kg)	15kg 2pcs				25kg 2pcs	25kg 3pcs
Timing range	0-9999min					



Constant-Temperature Drying Oven/Incubator

Art No: WHL-25A/AB Drying Oven
Art No: WP-25A/AB Incubator

Product description:
This device is used for drying, baking and thermal treatment in mining, food processing, biochemistry, agriculture, organisms and pharmaceuticals industry for the samples.

Characteristics:
1.High-quality cold rolled steel with electrostatically sprayed exterior.
2.Stainless steel or cold rolled sheet inner chamber, semicircular arcs at corners for easy cleaning, space between shelves adjustable.
3.With PID temperature control system, it has dual digital display, light-touch operation button, function of timing(0-9999min), fixed temperature operation, over-temperature alarm, and automatic stop.
4.High quality heat insulation door with wide hollow tempered glass observation window, adjustable air-tight buckled lock and silicon rubber seal.
Optional accessories: Shelves, RS485 interface, printer, recorder, External Communication, remote control, Programmable temperature control device, wireless SMS alarm, USB data storage.

Main parameters

Art No.	Voltage	Tem. Range (°C)	Tem. Fluctuation(°C)	Ambient tem.(°C)	Power(W)	Inner Chamber Size(mm)	Exterior Size(mm)	Timing
WHL-25A	200-240V/50-60Hz 100-120V/50-60Hz	RT+10~300℃	±1.0°C	5-40°C	60	260×260×260	410×410×620	0~9999min
WHL-25AB								
WP25A		RT+5~65℃	±0.5°C	5-40°C	180			
WP25B								



WHL-B



WHLL-BE

Constant-Temperature Drying Oven

Art No: WHL-B
Art No: WHLL-BE

Product description:
This new device is widely used for drying, baking, wax melting, solidification and thermal treatment in the school laboratory, mining, food processing, biochemistry, agriculture, and pharmaceuticals industry for the samples.

Characteristics:
1. New Vertical type, made of cold rolled steel with electrostatically coated exterior.
2.Stainless steel inner chamber, semicircular arcs at corners for easy cleaning. The space between the shelves in the chamber is adjustable. The two sides heating air passage and bottom heating cover can be fast assembled and disassembled.
3.PID micro-computer intelligent temperature controller with functions of timing(0-9999min), fixed temperature, over-temperature alarm, automatic stop, precise temperature control and convenience to read.
4.High quality heat insulation door with wide hollow tempered glass observation window, adjustable air-tight buckled lock and silicon rubber seal.
5.Heating power with high and low gears, the user can choose different heating power as required.

BE Type has the following characteristics other than the above ones:
1.Large LCD screen shows the multiple data, has the function of timing and over-temperature protection.
2.Independent audible and visible temperature-limit alarm system, cut off the power automatically when over temperature limit, ensures experiments run safely and no accident would happen.
Optional accessories: Shelves, RS485 interface, printer, recorder, external communication, remote control, programmable temperature control device, wireless SMS alarm, USB data storage.

Main parameters:

Art No.	High brightness digital tube	WHL-30B	WHL-45B	WHL-65B	WHL-125B
	Large LCD screen	WHLL-30BE	WHLL-45BE	WHLL-65BE	WHLL-125BE
Voltage	200-240V/50-60Hz 100-120V/50-60Hz				200-240V/50-60Hz
Tem. Range(℃)	RT+10~300℃				
Tem. Fluctuation(℃)	±1℃				
Tem.Resolution Ratio(℃)	0.1℃				
Ambient tem.	5-40℃				
Power(Kw)	0.8	1	1.5	2.5	
Inner Champer Size(mm)	310×310×310	350×350×350	400×360×450	500×450×550	
Exterior Size(mm)	450×490×685	490×530×730	540×540×830	640×630×930	
Load per rack(Kg)	15kg 2pcs for standard configuration				
Timing	0-9999min				



Constant-Temperature Incubator

Art No: WPL-BE Series

Product description:
This equipment applies to industrial enterprises, food processing, agriculture, biochemistry, biology, and medicine industry for bacterium and microorganism culturing experiments etc.

Characteristics:
1.Natural convection heating circulation and gentle breeze circulation ensure temperature evenness.
2.Stainless steel inner chamber, semicircular arcs at corners for easy cleaning, height adjustable; and removable shelves for convenient cleaning.
3.Large LCD screen, multiple groups of data to be displayed at a time; functions of timing and over-temperature protection.
4.Independent temperature safety device to stop automatically when over temperature limit to ensure experiment run safely.
5.High quality heat isolation door with wide hollow tempered glass observation window, adjustable air-tight buckled lock and silicon rubber seal.

Optional accessories:
Shelves, RS485 interface, printer, recorder, External Communication, remote control, Programmable temperature control device, wireless SMS alarm, USB data storage.

Main parameters

Art No.	WPL-30BE	WPL-45BE	WPL-65BE	WPL-125BE	WPL-230BE
Tem. Range (°C)	RT+10~80°C				
Tem.Resolution Ratio	0.1℃				
Tem. Fluctuation	±0.2℃				
Ambient tem.	5-40°C				
Power (W)	150	250	500	600	700
Timing	0~9999min				
Inner Chamber size (mm)	310×310×310	350×350×350	400×360×450	500×450×550	600×500×750
Exterior size (mm)	450×490×685	490×530×730	540×540×830	640×630×930	730×670×1220
voltage	220V50Hz/110V/60Hz				
Load Per rack(kg)	15kg 2pcs for standard configuration				



Constant-Temperature Incubator

Art No: DH-II/BII Series

Product description:
This device is widely applicable in the school laboratory, mining, food processing, biochemistry, agriculture, and pharmaceutical industry for bacterium and microorganism culturing.

Characteristics:
1. High quality cold rolled steel with electrostatically sprayed exterior.
2. Stainless Steel or cold rolled sheet inner chamber, semicircular arcs at corners for easy cleaning, space between shelves adjustable.
3. Micro-computer intelligent control system with PID program, large screen digital display and touch operation key.
4. PID micro-computer temperature controller with functions of timing(0-9999min), fixed temperature, over-temperature alarm, and automatic stop.
5. Double doors (Inside is the high quality glass door, the outside is magnetic steel door), the user can see the sample condition through the inner glass door.

Optional accessories: Shelves, RS485 interface, printer, recorder, External Communication, remote control, program temperature control device, wireless SMS alarm, USB data storage.

Ordering Information

Art No.	DH3600II/DH3600BII	DH4000II/DH4000BII	DH5000II/DH5000BII	DH6000II/DH6000BII
Voltage	220V/50Hz			
Tem-Range (℃)	RT+5~65℃			
Tem.Resolution Ratio	0.1℃			
Tem. Fluctuation	±0.2℃			
Ambient Tem.	5-40℃			
Heating Power(W)	250	250	500	600
Inner Champer size (mm)	350×350×350	400×450×350	500×450×450	600×580×600
Exterior size (mm)	480×480×580	530×480×680	630×570×780	730×700×830
Load per rack(Kg)	15/kg,2pcs			
Timing range	0-9999min			

B means : Intelligent Controller and Stainless Steel Inner Chamber
Without B means : Intelligent Controller and Steel Inner Chamber



SW-CJ-1D



SW-CJ-2D

Laminar Flow Cabinet

Art No:	SW-CJ-1D	SW-CJ-2D
No. Index/Model	SW-CJ-1D single-person single-side (vertical air flow) clean bench	SW-CJ-2D double-person single-side (vertical air flow) clean bench
Cleaning level	Grade 100(209E U.S. Federal)	
Several colonies	≤0.5 per utensil hour(90mm petri dish)	
The average wind speed	0.25~0.45m/s	
Noise	≤62dB	
Power	AC 220V/ 50Hz	
Illumination	≥300LX	
Half ventilation peak value	≤ 3μm(XYZ direction)	
Max. power consumption	300W	800W
Weight	<85Kg	150kg
Dimension of working area(W1×D1×H1)	700×490×515mm	1140*485*515mm
Overall dimension W*D*H	855×550×1600mm	1300*550*1600mm
Efficient filter specifications and quantities	695×460×38×①	1135*460*38*①
Specification and number of fluorescent lamp or UV lamp	8w×1 /10w ×1	8w *2/ 10w *2
Suited number	One person one side	Two persons one side



Clean Biological Safety Cabinet BSC-A2 Series

Art No: BSC-A2

Product description:
Clean biological safety cabinet is necessary in animalcule lab, especially in the condition needing protection measure, such as medicine, pharmacy, scientific research and so on.

Main characteristics:
1 It accords with physical engineering principle, 10° inclination design, so the operating feel is more excellent.
2 Air insulation design to avoid cross pollution inside and outside air circulation. 70% Air Recirculation, 30% Air Exhaust,vertical laminar negative pressure.
3 Equipped with spring up/down movable door in the front and back of work bench, flexible and convenient to locate
4 Equipped with special filter in ventilation to keep vented air conforming to national standard.
5 Contact switch adjusts voltage to keep wind speed in working area in an ideal state all the time.
6 Operate with LED panel.
7 The material of the working area is 304 stainless steel.

Parameter / Model	BSC-1000IIA2	BSC-1300IIA2	BSC-1600IIA2
Cleaning level	100 Level(USA Federal Standard 209E)@0.5um		
Descending wind speed	≥0.35m/s		
Wind speed in	≥0.55m/s		
Noise	≤58dB(A)		
Half ventilation peak value	≤3μm		
Power supply/Max. power consumption	AC220V/50HZ/1KW		
Biological safety	Personnel protection: impact type sampler: CFU≤10,		
	Product protection: all sampling vessels: CFU≤5		
	Cross contamination protection: all double dishes: CFU≤2		
working area	1000*650*620	1300*650*620	1600*650*620
Overall dimension	1195*720*1950	1495*720*1950	1795*720*1950
Specification of air-supply filter	955*545*50*①	1290*554*50*①	1590*554*50*①
Specification and number of fluorescent lamp or UV lamp	20W*1/20W*①	30W*1/30W*①	30W*1/30W*①
Illumination	≥650LX	≥650LX	≥650LX
Weight(kg)	300	340	380
Suited number	Single	Double	Double



Rotary Evaporator

Art No.: RE-52A

Use profile:

This equipment is for purification and distillation test.It rotates and shapes a thin film in negative pressure condition by heating and evaporating efficiently,and then condenses and recollects solvent to purify and separate.

Product features:

- Main engine:0-150 r/min, With stepless speed regulation, Manual lifting, stable and reliable.
- Cooler: Vertical, interlayer is ice container.
- Temperature: Automatic control room temperature~99°C±1°C, digital display.
- Heating bath: Stainless steel and teflon composite pot, corrosion resistant.
- Standard receiving flask: 500ml 1pc
- Rotation bottle: 250ml 1pc



Technical Parameters

Model	Rotary bottle capacity	Collection bottle capacity	Rotation speed (r.p.m)	Heating power(W)	Power voltage(V)	Size of instrument (MM)	Instrument weight(KG)	Operating temperature
RE-52A	50~2000ml	50~2000ml	0~150	1000	~220V 50/Hz	640x400x850	17.5	room temperature ~99℃ ±1°C

Liquid Nitrogen Container

Art No:	
YDS05	Capacity 5L
YDS10	Capacity 10L
YDS13	Capacity 13L
YDS16	Capacity 16L



Rotary Evaporator

Model		N1100-V	N1100-L
Ambient temperature (°C)		5~35	
Rotary speed(rpm)		10~180	
Evaporating speed(ml/min)		20	
Achievable vacuum(Pa)		<3mmHg(<399.9Pa)	
Temperature range(°C)		Room temp~100	
Temperature display		Keypad input, Digital display	
Speed-setting		Knob setting, Digital display	
Power Supply(V/Hz)		220/50	
Rotary motor(W)		25	
Heater wattage(kW)		1.5	
Condensing tube	Type	Vertical type	Lean type
	Condenser(m^2)	0.12	
Rotary bottle (L)		0.5~2	
Collecting bottle(L)		1	
Vacuum sealing		Double sealing rings made of Teflon+Vinton materials	
Water Bath size(mm)		Φ260x140	
Water Bath volume(L)		7.4	
Function of lifting table		Weight balancing gliding elevating+manual lifting	
Elevating stroke(mm)		100+150	
Dimensions(mm)		560Lx320Wx660H	750Lx320Wx540H
Weight(kg)		9.5	