Loudly®

Focus On Serving Optical Medical

Product Catalogue

Company Profile

  Yancheng Loudly located in No.22 Xiwang Road, Yancheng, Jiangsu Province, China, it is one of the biggest specialized manufactures engaged in development, production, sales and service in optical field. We possess a high-tech research team, advanced instruments and a welleducated staff team.
Our main products include: Combined Table,Auto Refractometer, Lens Meter, Chart Projector, Ophthalmic Microscope, AB Scanand other processing equipments including Lens Edger etc.
The company has passed ISO9001, some of the products have passed CE. Now most of products have been sold to Europe, America, Southeast Asia and Africa, etc.We focus on devoting innovative achievement in optical field and establishing excellent brand.
  We provide with not only superior products with fashionable design, but also high-quality service. We start from the details, will be your trustworthy cooperator!

Enterprise Honor

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Work Shop Equipments

Optical Tools

Ophthalmic Unit

CMT-360

Features

- Adopt European style in appearance design, simple and fashionable, ergonomic design.
- Universal function and good performance and easy operation.
- Sliding table accommodates two instruments and provides with 90° rotation.
- Hand-operated phoropter arm can swing up and down, left and right.
- Reclining Chair can smoothly lift up and down, forward and backward with low noise.
- It can be used with kinds of ophthalmic instruments, and it's the ideal choice for hospital, clinic and optical shops.

Specifications

Unit Size	1190*1055*1850mm
Table Size	890*405mm
Table rotation range	90°
Table movable range	335mm
Swing arm oscillation angle	+35°
Chair rotation range	60°
Chair up and down range	540-690mm
Chair loading ability	200-250kg
Chair backrest obliquity	160°
Lamp	LED (24V, 3W)
Electric Voltage	AC110V/220(60/50HZ)
Weight	200kg

CMT-500

Features

- Smart European style in appearance designing.
- Human-oriented design, complete functions makes operation be more conveniently.
- The chair could up and down, rotate left and right, and with tiltable backrest.

Specifications

Unit size	1100*800*2100mm
Table Size	890*405mm
Table rotation range	90°
Table movable range	335
Swing arm oscillation angle	±35°
Chair rotation range	60°
Chair up and down range	540-690mm
Chair loading ability	200-250kg
Adjustable backrest range	160°
Lamp	LED (24V, 3W)
Electric Voltage	AC110V/220(60/50HZ)

Ophthalmic Unit

CMT-580

Features

- Tabletop can ratate 90°.
- Can use for refractometer,phoropter,auto chart projector and so on.
- Electric chair could up and down.

Specifications

Unit size	1030*1150*1920mm
Tabletop size	1010*480*120mm
Table rotation range	90°
Arm up and down range	180mm
Chair up and down range	200mm
Lamp	20W
Voltage	220V -110V (50/60Hz)
Weight	220kg

CMT-600

Features

- Smart design with counterbalanced phoropter arm.
- Built-in counterbalance adjustment mechanisms can be easily accessed in each arm.
- Table can up and down automatic.
- Fountional operation panel provides with different funtions.

Specifications

Unit size	1200*800*2100mm
Table Size	400*500mm
Swing arm oscillation angle	±35°
Table up and down range	790~990mm
Lamp	220V,25W
Electric Voltage	AC110V/220(60/50HZ)
Weight	110kg

Ophthalmic Unit

CMT-680

Features

◆ Chair can up and down movement with lower noise.
◆ Able to be equipped with auto refractometer, auto lensmeter, projector and so on.
◆ Economical background illumination, comfortable.
◆ Reasonable construction and clipper-built shape.

Specifications

Unit Size	1400mm*1000mm*1990mm
Table size	840*405mm
Arm tilting angle	±30°
Table rotate angle	90°
Table sliding movement	330mm
Chair rotate	±60°
Chair height	150-200mm
Loading for chair	150Kgs
Lifting height for piollow	≤150mm
Voltage	AC220V -110V (50/60Hz)
Backrest obliquity	90°~135°
Illumination bulb	15W

CMT-700A

Features

◆ Two Tables and can up and down automatic .
◆ With lower noise.
◆ Can hold auto chart projector,phoropter,Slit Lamp and so on.

Specifications

Up/Down angle of swing arm	±30°
Table size	500*350mm
Table rotate angle	90°
Lifting height for table	350mm
Chair rotation range	360°
Lifting height for chair	150mm
Loading for chair	150kg
Lifting height for pillow	300mm
Input voltage	AC110V/220V (60/50Hz)
Lamp	5W 110V / 16W 220 AC
Weight for table	190kg

Ophthalmic Unit

CMT-720

Features

- Adopts Europe style in appearance designing, small and exquisite, used for small room.
- The comfortable and beautiful chair with electric elevator, stable and low noise.
- Easy operation with a well positioned control panel.
- Unique design of arc shaped worktable, creative and useful.

Specifications

Unit size	1100mm*1000mm*2110mm
Table size	670mm*400mm
Arm tilting angle	±30°
Table rotate angle	90°
Chair loading	150KGS
Chair height	500-700mm
Weight	150KGS
Power	AC110V/220(60/50HZ)
Illumination bulb	15W
Lifting height for chair	150-200mm
Fuse	5A 250V AC
Power without load	1W

CMT-780

Features

- Well-made,from the thickness of the sheet metal to fastening of plug-in,even the choice of the screw,each detail is our focus.
- Table with 90 degree rotation,is more convenient for entrance Fancy material for table.
- Simple mobile sliding table for placing refractometer and ophthalmotonometer.
- 10mm solid plate cutting is used in the main bearing plate.

Specifications

Unit size	1140*1460*1670mm
Table size	950*470*120mm
Table rotating scope	90°
Arm left-right moveing scope	60°
Arm lifing Range	200mm
Chair lifting Range	200mm
Power	AC110V/220(60/50HZ)
Main Unit Package .Size	1050*580*980mm
Chair Package Size	730*820*1460mm
Table-board Package Size	1130*730*450mm
Weight	240kg

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Ophthalmic Unit

CMT-800

Features

- ◆ Professional manufacturer.
- ◆ Electronically.
- ◆ Elevation is steady and with less noise.
- ◆ Chair is elevated electronically, able to bear the heavy weight.
- ◆ The arm for Phoroptor can up and down.
- ◆ The arm for Phoroptor could be rotated for 90 degree.
- ◆ The table could hold one instrument, easy to conduct.

Specifications

Tabletop size	1060*494*30mm
Elevation range for table	698-848mm
Sliding board size	290*420mm
Voltage	AC110V/220(60/50HZ)
Weight of chair	150kg
Lamp	20W
Electronic chair up and dwon range	520-670mm
Electronic chair weight	45kgs

CMT-860

Features

- ◆ Well designed and layout.
- ◆ Smooth movements and good practical functions.
- ◆ Operated both by control panel and remote control.
- ◆ Electric up/down chair,with rotate function.
- ◆ Phoropter arm can be electric up/down,and can be rotated 90 degree in the highest.
- ◆ Desktop can place two sets of optical instrument.
- ◆ Trial lens set can be placed inside of the table drawer.

Specifications

Unit size	1120*1050*1630mm
Tabletop size	1010*480mm
Swing arm up/down range	300mm
Rotate range for arm	4~90°
Elvation range for chair	150mm
Rotate range for table	90°
Voltage	AC110V/220(60/50HZ)
Weight of chair	200kg
Lamp	20W
Electronic chair up and dwon range	520-670mm

Ophthalmic Unit

CMT-900

Features

- Facilitating equipment including refractometer,slit lamp and projector,improving the convenience,simplicity and accuracy of the facility operation.
- Considering the personal factors represented by the angle and height of the user.
- Operation table able to rotate forward at 900,simplifying the switch between equipment

Specifications

Unit size	870*700*1850mm
Table lifting range	200mm
Power	80W
Electric Voltage	AC220V/110V 50HZ
Weight	100kg

CMT-900B

Features

- Luxurious design and graceful structure.
- The Y shape table is designed for saving space, it can hold three instruments.
- Hand-operated phoropter arm can swing up and down, left and right.
- Reclining chair can smoothly lift up and down, forward and backward with low noise.

Specifications

Unit size	1200*1055*1850mm
Table Size	400*490mm
Table rotation range	360°
Chair up and down range	540-690mm
Swing arm oscillation angle	± 35°
Chair loading ability	200-250KG
Adjustable backrest range	160°
Lamp	LED(24V, 3W)
Electric Voltage	AC220V/110V (50/60Hz)
Weight	200KG

Ophthalmic Unit

CMT-960

Features

- Luxurious design and graceful structure.
- Tabletop slidable range 400mm, table can also rotate 90°.
- Reclining chair go up/down, rotate and move forward/backward smoothly.
- Electromagnetic lock can tabletop stable with no ratation if necessary.
- Controlling panel potentiometer supply optional voltage for the slit lamp, keratometer.
- Retinoscope and ophthalmoscope's charging outlet.

Specifications

Unit size	1200*1100*1900mm
Table size	780*420*100mm
Tabletop up and down range	90mm
Arm up and down range	280mm
Chair up and down range	170mm
Tabletop sliding range	400mm
Chair reclining range	160°
Voltage	AC110V/220(60/50HZ)
Weight	220kg

CMT-1000

Features

- It will be installed electric phoropter arm which can move up and down and left and right, easy to operate.
- The tabletop can be moved electrically left and right, very smooth, and no noise.
- Equipped with lens box drawer, it's easy for optometrists to operate refraction process.
- Comfortable leather chair can electrically lift up and down and rotation with low noise and able to bear big force.
- The most important thing is that it can achieve automated optometry through the operation Panel of the digital vision tester.

Specifications

Unit size	1190*1050*1850mm
Table Size	890*405mm
Table rotation range	90°
Swiming arm swing angle	±35°
Table movable range	335mm
Chair rotation range	60°
Chair up and down range	540-690mm
Chair loading ability	200KG
Adjustable backrest range	160°
Electric Voltage	AC220V/110V (50/60Hz)
Weight	220kg

Mini Ophthalmic Unit

CS-180A

Features

- ◆ Small ophthalmic unit for phoropter, refractor, projector use.
- ◆ Low noise, quality motor, suit for laboratory, hospital & eye glasses shop.
- ◆ Reclining Chair can smoothly lift up and down with low noise.
- ◆ A smart drawer for some necessary use.

Specifications

Unit size	900*600*710mm
Tabletop Size	880*500mm
Drawer size	540*380mm
Arm up and down range	170mm
Chair up and down distance	170mm
Electric Voltage	AC220V/110V (50/60Hz)
Light	20W
Power	120W
Weight	72kg

CS-200

Features

- ◆ Small Ophthalmic unit for phoropter,refractor, Projector Use.
- ◆ Low noise,quality motor.
- ◆ Suit for laboratory.
- ◆ Hospital & Eye glasses shop.

Specifications

Unit size	1050*1100*1600mm
Tabletop Size	880*500mm
Drawer size	540*380mm
Arm up and down range	200mm
Chair up and down distance	170mm
Electric Voltage	AC220V/110V (50/60Hz)
Light	20W
Power	120W
Weight	72kg

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Mini Ophthalmic Unit

Loudly

CS-280

Features

◆ Small ophthalmic unit for phoropter,refractor,projector use.
◆ A smart drawer for some necessary use,it can put trial lens set inside.

Specifications

Unit size	1200*1100*1900mm
Table top Size	400*490*100mm
Table drop up and dowm	90mm
Arm up and down	280mm
Weight	220kg
Tabletop Rotate Range	360°
Chair Slide Range	160°
Voltage	AC220V/110V (50/60Hz)

CS-500

Features

◆ Smart European style in appearance designing.
◆ Human-oriented design, complete functions makes operation be more conveniently.
◆ The chair could up and down, rotate left and right, and with tiltable backrest.
◆ It can used with phoropter.

Specifications

Unit size	1100*800*2100mm
Table size	900*605mm
Elevation range for table	670 - 830mm
Electric Voltage	AC220V/110V (50/60Hz)
Net weight	80Kg

Motorised Table Series

ET-20/50/60

ET-20

Features

◆ Motorised table use to hold ref/keratometer,slit lamp and so on.
◆ Common Iron Pipe ; Plastic foot wheel.

Specifications

Model	ET-20
Table size	40*48cm or 48*48cm or 50*80cm
Max Loadding weight	75Kg
Table lfting height	63 to 82cm
Electric Voltage	220V -110V (50/60Hz)
Weight	20kg
Packing Dimension	61*53*30

ET-50

Features

◆ Motorised table use to hold ref/keratometer,slit lamp and so on.
◆ ET-50 With iron Drawer, it can put trial lens set inside.
◆ Common Iron Pipe ; Metal foot wheel.

Specifications

Model	ET-50
Table size	42*68*12cm
Max Loadding weight	75Kg
Table lfting height	63 to 82cm
Electric Voltage	220V / 50HZ or 110V / 60HZ
Weight	32Kg
Packing Dimension	61*53*25/ 76*49*20cm

ET-60

Features

◆ Motorised table use to hold ref/keratometer,slit lamp and so on.
◆ Lifter, Low noise, smooth lifting.
◆ ET-60 Hydraulic lifting
◆ Arc-shaped Aluminium Pipe; Rubber foot wheel.

Specifications

Model	ET-60
Table size	48*55cm
Max Loadding weight	75Kg
Table lfting height	63 to 82cm
Electric Voltage	220V / 50HZ or 110V / 60HZ20KG
Weight	22Kg

Motorised Table Series

Loudly

ET-70A

Features

- Table used for Slit Lamp, Keratometer and so on.
- Low noise, quality motor.
- Suit for laboratory, hospital and eye glasses shop.

Specifications

Table Size	580*470mm
Elevation range for table	670~860 (mm)
Input voltage	110V/60Hz or 220V/50Hz
Weight	16KG

ET-70B

Features

- Motorised table can hold computer ,slit lamp and so on.
- Table lifting height.

Specifications

Table Size	580*470mm
Elevation range for table	670~860 (mm)
Input voltage	110V/60Hz or 220V/50Hz
Weight	16KG

ET-80

Features

- Table used for Slit Lamp, Keratometer and so on.
- Low noise, quality motor.
- Suit for laboratory, hospital and eye glasses shop.

Specifications

Table Size	900*420mm
Range of lifting	180mm
Max Loading	75kg
Power	120W
Electric Voltage	AV220V -110V (50/60Hz)
Unit size	900*500*820mm
Weight	60kg

Motorised Table Series & Pneumatic Chair

ET-150

Motorised Table Series

Features

◆ Motorised table can hold computer ,slit lamp and so on.
◆ Table lifting height.

Specifications

Unit size	1020*1230*1580mm
Table size	1220*690*870mm
Max Loading weight	75Kg
Tabletop UP and down range	175mm
Electric Voltage	AC220V/110V (50/60Hz)
Weight	60kg

LD-1/LD-2/LD-3

Pneumatic Chair

LD-1	LD-2	LD-3

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Electric Chair

EC-1-EC-2

EC-1

Specifications	
Chair height	780-930mm
Back height	330mm
Seat width	440mm
Lift height	150mm

EC-2

Specifications	
Chair height	1010-1170mm
Back height	500mm
Seat width	470mm
Lift height	160mm

EC-3-EC-4

EC-3

Specifications	
Chair height	1010-1170mm
Back height	500mm
Seat width	450mm
Lift height	160mm

EC-4

Specifications	
Chair height	1200-1360mm
Back height	620mm
Seat width	500mm
Lift height	160mm

Electric Chair

EC-5A-EC-6A

EC-5A

EC-6A

Specifications	
Chair height	1200-1360mm
Back height	720mm
Seat width	540mm
Lift height	160mm

Specifications	
Chair height	1200-1360mm
Back height	690mm
Seat width	510mm
Lift height	160mm

EC-7-EC-8

EC-7

EC-8

Specifications	
Chair height	1250-1410mm
Back height	740mm
Seat width	500mm
Lift height	160mm

Specifications	
Chair height	1340-1500mm
Back height	780mm
Seat width	500mm
Lift height	160mm

Handheld Refractometer

MRT-180

Features

- Pupilla vision refractometer helps find vision problems early.
- With pupilla vision refractometer, you can know your vision situation without professional ophthalmologist's help at outdoors, home, travel, work and any time. If you have vision problems, you can find it early. If you are under myopia, amblyopia correction, you can check your visual acuity every day on your own.

Specifications

Suitable for	Children, adolescents and audlts
Color	China Red(R), Sapphire(B), Harvest Yellow(G), Pink Drerm (P), Roland Purple(V),Titanium crystal Gray(S)
Spherical range	-12D to +6D
Spherical degree wide interval	0.5D
Spherical degree of tolerance	±0.25D
Lighting	LED backlight, and the light is uniformity, constant, not reflective and not dazzling
Switch mode	LED lamp touch switch, instrument will shut down automatically after three minutes' shelving
Power	Three 7# batteries(AAA)
Net weight	299G
Packing size	200*100*65mm

HAR-580

Features

- Objective and accurate refractive assessment
- Ideal for challenging patients such as infants, disabled patient
- Revolutionary design brings superior user experience

Specifications

Sphere	-10.0D to +10.0D
Sphere tolerence	±0.5D
Cylinder range	-5.0D to +5.0D
Cylinder tolerence	±0.5D
Axis of astigmatism range	1° - 180°
Data acquisition timeExternal	1s/eye
External	External must connect to PC and IPAD
Net weight	360g

Handheld Refractometer

SW-800

Features

◆ The portable auto refractometer can check the refractive error precisely for different groups of people using the ultrasonic ranging, cross line, flashing light and sound technology and then to find out the probably potential refractive problems.

◆ Ideal for babies, seniors and patients with language barrier.

Ultrasonic Ranging & Auto Focus Screening is performed from 1 m away

Specifications

Optometry	Automatic
DS	Range: -7.50D to +7.50D, Resolution: 0.25D/0.01D
	Accuracy: ±0.50D
DC	Range: 0.00D to 3.00D, Resolution: 0.25D/0.01D, Accuracy: ±0.50D
Axis	Range: 1° to 180° Axis: Range 1° to 180°
	Resolution: 1° ; Accuracy: ±5°
Pupil size	Range: 4.0mm to 9.00mm
Resolution	0.1mm Accuracy: ±0.1mm
Pupil distance	Range: 35mm to 80mm
	Resolution: 1mm, Accuracy: ±1mm
Gaze	0° to 20°
Measuring distance	1m±5cm
Time per measurement	~1s
Fixation target	Light flash, attractive sound
Date interface	Wi-Fi, USB
Battery	Rechargeable lithium batteries, 6 hours of duration, Replaceable
Size	180mmX130mmX110mm
Display	5 inch touch screen
Weight	0.8KG
Optional accessories	Camera tripods, printer, etc

Handheld Refractometer

HAR-800/880

Features

◆ **Non-contact and non-invasive**
The light power is safe for eyes; There is 35cm(14 inches)between the instrument and the eyes.

◆ **Child-friendly**
Little cooperation is required, suitable for infants and those who have a language barrier.

◆ **Speedy Inspection**
One Key operation to complete the automatic detection of two eyes

◆ **Accurate Result**
The advanced optical detection principle provides an accurate result including   myopia, hyperopia, astigmatism, axial and anisometropia.

◆ **Comprehensive detection modes**
Infant mode is specially designed for infantsl Myopia model is customized for myopia people and even high myopia people (HAR-880 only); Adult mode is suitable for all adults.

◆ **Easy targeting**
Luminant cross-shape facilitates the targeting for operator.

◆ **Ultrasonic distance measurement**
Automatically monitor the distance with audiable and visual hint.

◆ **Printer**: Thermal printer is connected by infrared.

Specifications

FUNCTION PARAMETERS	Working distance	Adult/infant mode	335 ± 10mm	Confidence level	10
		Myopia mode(HAR-880 only)	268 ± 10mm		
	Output of the laser radiation		150 to 200μW	Wavelength	850 ± 20nm
	Data acquisition time		2s/eye	Battery voltage	D.c.11.1V
	Distance measurement		Automatic, with audible and visual hint		
	Battery life		More than 6 hours of continuous usage		
	Low- Battery warning		Indicates 15 minutes us age remains		

OPTICAL PARAMETERS	Mode		Infant mode	Adult mode	Myopia mode(HAR880 only)
	Sphere range		-6.0D to +8.0D	-6.0D to +8.0D	-9.0 to +2.OD
	Sphere intervals		0.25D/0.1D	0.25D/0.1D	0.25D/0.1D
	Sphere tolerence		±0.5D	±0.5D	±0.5D
	Cylinder range		-3.0D to +3.0D	-3.0D to +3.0D	-3.0D to +3.0D
	Cylinder intervals		0.25D/0.1D	0.25D/0.1D	0.25D/0.1D
	Cylinder tolerence		±0.5D	±0.5D	±0.5D
	Axis of astigmatism range		1° to 180°	1° to 180°	1° to 180°
	Axis of astigmatism intervals		1°	1°	1°
	Axis of astigmatism	0.25D to 1.00D	±10°	±10°	±10°
	tolerence	1.25D to 3.00D	±5°	±5°	±5°

Auto Refractometer/Auto Ref-keratometer

FA-6000A

Features

- Auto/manual focus function.
- 5.6"color TFT LCD screen.
- Auto PD measurement.
- Faster ang more accurate measurement.
- More broad measurement range of Min.pupil size toΦ2.0mm.
- Convenient user menu setting.
- Easy to operate.one-hand control.
- Auto fog chart.

Specifications

Vertexdistance	0mm,12mm,13.75mm
Spherical	-20 to +20D(VD=12) 0.12/0.25D step
Cylinder	-8 to +8D 0.125D step
Axis	0° to 180° (1°step)
Cylinder form	-,+,±
Pupil distance	45 to 88mm,1mm step
Min Pupil Size	ø2.0mm
Chart	Auto fog
Print	Thermal printer
Power supply	220V -110V (50/60Hz)
Dimensions	280*492*462mm
Weight	15.5kg

FA-6100/FA-6100K
FA-6100A/FA-6100AK

Features

- Keratometry and refactometry mode select.
- Auto/manual focus function.
- 5.7"color TFT LCD screen.
- Auto PD measurement.
- More broad measurement range of Min,pupil size toΦ2.0mm.

Specifications

	FA-6100K/FA-6100AK	FA-6100 /FA-6100A
Vertexdistance	0mm,12mm,13.75mm	
Spherical	-20 to +20D (VD=12) 0.125D step	
Cylinder	-8 to +8D 0.125D step	
Axis	0° to 180° (1°step)	
Cylinder form	-,+,±	
Pupil distance	45 to 88mm,1mm step	
Min Pupil Size	ø2.0mm	
Radius of curvature	5.0 to 10mm (increment: 0.01mm)	
Corneal power	33.75 to 67.50D (when corner equivalent refractive index is 1.337) (increment selectable from 0.12, 0.25D)	/
Corneal astigmatism	0.0 to 8.00D (increment selectable from 0.12,0.25D)	/
Axis	1 to 180° (increment:1°)	/
Corneal diameter	2.0 to 14.0mm (increment: 0.1mm)	/
Memory of data	10 measure value for each right and left eye	/
Chart	Auto-fog	
Print	Thermal printer	
Power supply	110V to 240V (50Hz 60HZ)	
Dimension	469mm*308mm*522mm.	
Weight	15.5kg	

FA-6100/FA-6100K

FA-6100A/FA-6100AK

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Auto Refractometer/Auto Ref-Keratometer

Loudly

ARK-700

Features

◆ **Measurement Mode**

REF/KER Mode: Continuous Refractometry and Keratometry.

REF Mode: Refractometry.

KER Mode: Keratometry.

CLBC Mode: Contact Lens Base Curve Measurement.

Specifications

Power Measurement	Cornea Vertex Distance (VD)	0.0, 12.0, 13.5, 15.0
	Spherical Power	-25.00 to +22.00D (0.125/0.25D STEP)
	Cylinder Power	0.00 to ±10.00D (0. 125/0.25D STEP)
	Axis	1 to 180 (1°STEP)
	Cylinder Location	-, +,±
	Pupil Distance (P.D)	O to 85mm
	Minimal Pupil Size	Φ2. 0mm
Cornea Measurement	Cornea Curvature Radius	5.0 to 10.0mm (0.01STEP)
	Cornea Power	33.70 to 67.50D
		(Cornea equivalence power=1.3375)
		(0.05/0.12/0.25D STEP)
	Cornea Cylinder Power	0.00 to +/-10.00D (0.05/0.12/0.25D STEP)
	Cornea Cylinder Axis	1 to 180" (1°STEP)
	Cornea Diameter	2.0 to 14.00mm (0.1mm STEP)
Others	Inner Printer	Built-in Printer
	Monitor	6. 4"TFT color LCD
	Power	AC110V-220V (50/60Hz)
	Size	275 (W)*528 (D)*482 (H) mm
	Weight	17.2kg

AR-810/ARK-810

Features

◆ Automatic focus function,which makes measurement be more convenient.

◆ Automatic or manual measurement models are alternative.

◆ Automatic up and down function for the chinrest ,operator can easily adjust height of chinrest.

Specifications

Cornea Vertex Distance(VD)	0.0, 12.0, 13.5, 15.0
Measuring range: Sphere	-20.00 to +20.00D (In case of VD=12mm)
Cylinder	0.00 to ±10.00D (0.12/0.25D step)
Axis	0 to 180°, step: 1°
Pupil Distance	30 to 85mm, step: 1mm
Min.Pupil Size	Ø2.0mm
Display	5.7" TFT LCD
Radius of Curvature(ARK-810)	5.0-10mm
Corneal Refractometry(ARK-810)	33.00 - 67.00D
Corneal Astgmatism (ARK-810)	0.00 to -15.00D (0.12/0.25D Steps)
Corneal Diameter (ARK-810)	2.0 to 12.0mm
Print	Thermal Printer
Electric Voltage	AC110-240V (50/60Hz)
Dimensions	484(L)*282(W)*440(H)mm
Weight	17KG

Auto Refractometer/Auto Ref-Keratometer

FA-6500/FA-6500K

Features

◆ 7" tiltable color LCD for user friendly operability.

◆ PD Automatic measurement function, automatically PD value.

◆ One key lock function, quickly locking mobile platforms.

◆ Motorized chinrest.

◆ Auto detachment printer.

◆ FA-6500k with keratometer function.

Specifications

Refractive measurement	Sphere	-20~+20D (VD=12) 0.125D step
	Cylinder	-8~+8D,0.125D Step
	Axis	0~180° (1°step)
	PD	45~88mm, 1mm step
	VD	0mm, 12mm, 13.75mm
	Min.Pupil Size	Φ2mm
Corneal curvature measurement FA-6500K	Radius of curvature	5.0~10mm (increment:0.01mm)
	Corneal Power	33.75-67.50D (when corner equivalent refractive index is 1.337) (increment selectable from 0.12, 0.25D)
	Corneal astigmatism	0~8D (increment selectable from 0.12, 0.25D)
	Axis	1~180°(increment:1°)
	Corneal diameter	2.0~14 mm (increment:0.1mm)
	Memory of data	10 measure vature for each right and left eye
Hardware specificatio	Chart	Follow up colorful fogging chart system
	Display	7" TFT LCD
	Print	Thermal printer
	Power supply	220V -110V (50/60Hz)
	Dimension	478*268*472mm
	Weight	15.5kg

FA-6800/FA-6800K

Features

◆ 7" tiltable color LCD for user friendly operation.

◆ Automatic Up/Down chin rest.

◆ Automatic tracing focus.

◆ Keratometer is optional.

◆ One key lock function, quickly locking mobile platforms.

Specifications

Range of measurement	Sphere	-20~+20D(VD=12) 0.125D step
	Cylinder	-8~+8D 0.125D step
	Axis	0°~180° (1°step)
	PD	45-88mm,1mm step
	VD	0mm,12mm,13.75mm
	Min Pupil Size	ø2.0mm
Keratometry FA-6800K	Radius of curvature	5.0~10mm (increment:0.01mm)
	Corneal astigmatism	0~8D (increment selectable from 0.12, 0.25D)
	Axis	1~180° (increment:1°)
	Corneal diameter	2.0~14 mm (increment:0.1mm)
	Memory of data	10 measure vature for each right and left eye
Others	Chart	Follow-up colorful fogging chart system
	Display	7" TFT LCD
	Print	Thermal print
	Power supply	110V~240V (50HZ/60Hz)
	Dimension	514mm*284mm*465mm
	Weight	15.5kg

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Auto Refractometer/Auto Ref-Keratometer

FA-8000/FA-8000K

Features

◆ 9" tiltable color LCD for user friendly operability.

◆ PD Automatic measurement function, automatically PD value.

◆ One key lock function, quickly locking mobile platforms.

◆ Motorized chinrest.

◆ Auto detachment printer.

◆ FA-8000k with keratometer function.

Specifications

K/R Mode		FA-8000K	FA-8000
Refractive measurement	Vertex Distance	0mm, 12mm, 13.75mm	
	Sphere	-20~+20D(VD=12) 0.125D step	
	Cylinder	-8~+8D 0.125D step	
	Axis	1°~180°(1° step)	
	Pupil Distance	45~88mm,1mm step	
	Min. pupil diameter measurable	Φ 2.0mm	
	Target	Automatic fogging target	
Corneal curvature measurement	Radius of curvature	5~10mm (0.01mmstep)	/
	Corneal Power	33.75-67.50D	/
	Corneal Astigmatism	0~8D (0.12, 0.25D)	/
	Angle of corneal	1°~180° (1°step)	/
	Corneal diameter	2.0~14 mm (increment:0.1mm)	/
	Memory of data	10 measure vature	/
Hardware specification	Chart	Follow up colorful fogging chart system	
	Display	9" TFT LCD	
	Print	Thermal printer	
	Power supply	AC100~240V (50/60Hz), 50w	
	Dimensions	483*268*452mm	
	Weight	16kg	

Auto Refractometer/Auto Ref-Keratometer

RM-9000/KR-9000

Features

◆ Using the ARM processor and the latest domestic image processing, the system is fast and the image is clear.

◆ One key lock function, quickly locking mobile platforms.

◆ Innovative designs, accord with the structure of human body engineering, to bring customers good aesthetic feeling and comfortable.

◆ PD Automatic measurement function,automatically PD value.

◆ Data transmission with CV-7200, improved efficiency of online.

◆ With corneal curvature and dioptre measurement function (KR-9000).
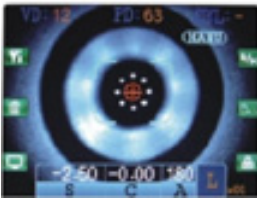
5.7 inch Color

Most each record 10 times automatic display represertative value

Intuitive Interace, convenient adjustment, the VD value, the precision and print mode,ect.

Specifications

K/R Mode		KR-9000	RM-9000
Refractive measureme	Vertex Distance	0.0, 12.0, 13.75, 15.0mm	
	Sphere	-20~+20D (VD=12) 0.125D step	
	Cylinder	0.00~±10.00D (0.12/0.25D step)	
	Axis	0°~180° (1°step)	
	PD	30~85 mm	
	Min Pupil Size	⌀2.0mm	
	Target	Automatic fogging target	
Corneal	Radius of curvature	5~10mm (0.01mmstep)	/
Curvature	Corneal Refraction	30.00~67.00D (0.12/0.25Dstep)	/
Measurement	Corneal Astigmatism	0.00~-15.00D (0.12/0.25Dstep)	/
	Angle of corneal	1°~180° (1°step)	/
	Corneal diameter	2.0~12.00mm	/
Hardware	Monito	5.7" TFT LCD	
specification	Printer	Fast thermal printer	
	Power supply	AC110V-220V (50/60Hz), 50W	
	Dimension	288(W)*500(D)*480(H)mm	
	Weight	14KG	

Auto Refractometer/Auto Ref-Keratometer

RM-9200/KR-9200

Features

- More fashion model,more intelligent control.
- Light rack with integrair casting,CNC machining,measuring system is more stable,good consistancy.
- Electric up/down chin rest,automatic tracing focus (Y-AXIS direction).
- 5.7 inch tillable color LCD.
- Date transmission with computerized vision tester, improved efficiency of online.
- With Corneal curvature and diopter measurement function (KR-9200).

5.7inch tiltable color LCD

Electric up/down chinrest

Auto detachment

Specifications

K/R Mode		KR-9200	RM-9200
Refractive measurement	Vertex Distance	0.0,12.0,13.75,15.0 mm	
	Sphere	-20.00~+20.00D (0.12/0.25D step)	
	Cylinder	0.00~±10.00D (0.12/0.25D step)	
	Axis	1°~180°(1° step)	
	Pupil Distance	30~85 mm	
	Min. pupil diameter measurable	Φ 2.0mm	
	Target	Automatic fogging target	
Corneal curvature measurement	Radius of curvature	5~10mm (0.01mmstep)	
	Corneal Refraction	30.00~67.00D (0.12/0.25Dstep)	/
	Corneal Astigmatism	0.00~-15.00D (0.12/0.25Dstep)	/
	Angle of corneal	1°~180° (1°step)	/
	Corneal diameter	2.0~12.00mm	/
Hardware specification	Monitor	5.7 inch Color LCD	/
	Printer	Fast themal printer	
	Power saving function	OFF, 5, 15 mins (selectable)	
	Power supply	AC100~240V (50/60Hz), 50w	
	Dimensions	288(W)*500(D)*480(H)mm	
	Weight	14kg	

# Auto Refractometer/Auto Ref-Keratometer

RM-9600/KR-9600

Features

◆ 7" tiltable color and touch screen.with keratometer function.

◆ Auto detachment printer.

◆ Auto tracking on Y Axis.

◆ Amotorized chinrest.

◆ Motorized joystick.

◆ One key lock .

◆ IOL function, can measure the eye whose eye with cataract or other eye surgical before.

Auto tracking (Y axis)
The auto tracking function provides the focusing more.fast, and reducing the work load sufficiently.
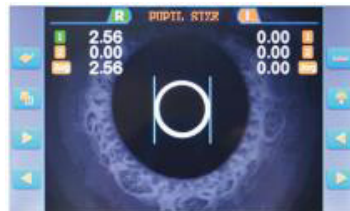
Pupil size measurement
With the pupil size measurement function, which enable to record the pupil size and refraction resultin different measurement environment, and provide areference for the prescription.

Specifications

K/R Mode		KR-9600	RM-9600
Measurement mode	K/R	Refractive and Keratometer measurement.	
	REF	Refractive measurement	
	KER	Keratometry measurement	
Refractive measurement	Vertex Distance	0.0,12.0,13.75,15.0 mm	
	Sphere	-25.00~+22.00D (0.12/0.25D step)(VD=12mm)	
	Cylinder	0.00~±10.00D (0.12/0.25D step)	
	Axis	0°~180°(1° step)	
	Pupil Distance	10~85 mm	
	Min. pupil diameter measurable	Φ2.0mm	
	Target	Automatic fogging target	
Keratometry measurement	Radius of curvature	5~10mm (0.01mmstep)	/
	Refractivre power	33.75D~67.50D (0.12/0.25Dstep)	/
	Cylindrical power	0.00~-15.00D (0.12/0.25Dstep)	/
	Axis	0°~180°(1°step)	/
	Corneal diameter	2.0~12.00mm	/
Hardware specification	Monitor	7 inch Color touch LCD	
	Printer	Thermal printer with easy loading and auto culter	
	Power saving	OFF, 5, 15 mins (selectable)	
	Data output	RS232/Bluethooth	
	Power supply	AC100~240V (50/60Hz), 50w	
	Dimensions/weight	262(W)*487(D)*467(H)mm/17.5kg	

Auto Refractometer/Auto Ref-Keratometer

ARK-7800A/ARK-7800B

Features

- ◆ ARK-7800A: Auto Ref-Keratometer(Manual).
- ◆ ARK-7800B: Auto Ref-Keratometer(Auto).
- ◆ TFT touch screen, can move front and back freely.
- ◆ Auto paper-cutting printer.

▶ Eye Socket Range

Start instrument, quickly move the device intothe measuring areatblack partl

▶ Auto Tracking and Focusing

When move the device into the range of the patient'seye socket, it will track down a measuring focus oftiheeye aulomaticaly by the light sensors and 3Dmechanism system inside(AF mode)

▶ Auto Measuring

After aulo focusing successfully, auto measuringIA mode) is perfarmed. By these performances, an inexperienced user can alsocomplete the measurement perfectly

Specifications

Refractive measurement	Vertex Distance	0.0,12.0,13.75,15.0mm
	Sphere	-30.00~+25.00D (0.12/0.25D step)(VD=12mm)
	Cylinder	0.00~±10.00D (0.12/0.25D step)
	Axis	1°~180° (1° step)
	Pupil Distance	10~86mm
	Min. pupil diameter measurable	Φ2.0mm
	Chart	Auto fog
Corneal curvature measurement	Radius of curvature	5~10mm (0.01mmstep)
	Corneal Refraction	33.00~67.00D
	Corneal Astigmatism	0.00~-15.00D (0.06D/0.12/0.25Dstep)
	Angle of corneal	1°~180° (1°step)
Hardware specification	Monitor	7 inch Color LCD
	Printer	Thermal printer with easy loading and auto cutter
	Power supply	220V -110V (50/60Hz)
	Dimensions	680(W)*400(D)*640(H)mm
	Weight	22kg

Auto Refractometer/Auto Ref-Keratometer

FR-710/FRK-710

Features

◆ 9.0 "Touch LCD monitor.

◆ Automatic fogging target.

◆ It is simple to operate and measures the refraction and comeal curvature of the eye. The position of the touch panel can be adjusted to accommodate the user's preferred position. The auto start function facilitates quick measurements under the optimal condition.

Specifications

Diopter measurment	Vertex distance (VD)	0mm,12.0mm,13.75mm,15.00mm
	Spherical refractive power	-20.00D~+20.00D
	Cylindrical refractive power	0D~6D
	Direction of astigmatic axis	0°~180°
	PD measurement	45mm~85mm
	Minimum pupil diameter	Φ2.0mm
Corneal curvature measurement	Cornea curvature radius	6.5mm~9.4mm
	Direction of corneal	0°~180°
	Astigmatic axis Cornea diameter	2.0mm~12.0mm
Product Specifications	Monitor	9.0 "Touch LCD monitor
	Printer	Imported Thermal Printer
	Saving mode	1/5/10/20/40 minutes automatic screensaver
	Power supply	AC230V 50Hz 75VA
	Dimensions	300(W)*450(D)*500-530(H)mm
	Weight	20Kg

Manual Lensmeter

ML-50

Features

♦ Exquisite exterior shape.
♦ Advanced mechanical features.
♦ It is portable to test in hand or on desk at any time or anyplace.

Specifications

Vertex power range	-15D to +15D step 0.125D, 0.25D
Prismatic power range	4 prism diopter (Step 1diopter)
Cytindrical axis range	0 to 180 degrees (Step 1°)
Max.Len diameter	80mm
Eyepiece focusing	-5D to +5D
DC and AC	DC: 2 AA batteries AC: 110V/220V (50/60Hz)
Weight	1kg

NJC-4

Features

♦ Outering Reading.
♦ Beautiful appearance.
♦ Wide observation vision field.
♦ Compensation Prism Device OPTION.

Specifications

Eyepiece focusing	-5D to +5D
Vertex range	-20 to +20D
Minium measurement value	0.125D
Prism range	5 △ step 1 △
The prism shaft range	0 - 180 °
Lenses accommodated	Diameter 20mm to 85mm

NJC-5

Features

♦ Internal Reading.
♦ Beautiful appearance.
♦ Wide observation vision field.
♦ Compensation Prism Device OPTION.

Specifications

Eyepiece focusing	-5D to +5D
Vertex range	-20 to +20D
Minium measurement value	0.125D
Prism range	5 △ step 1 △
The prism shaft range	0 - 180 °
Lenses accommodated	Diameter 20mm to 85mm

Manual Lensmeter

CCQ-400

Features

◆ LED light source: the more energy efficient, without having to replace light bulbs, and to meet EU requirements on light sources.
◆ User-friendly design: Adds silicone on tablet RBI handle,makes user feel more comfortable; Using more softer materies on measurement holder, to avoid scratches on the lenses.
◆ Internal reading.

Specifications

Range of measurement	-25D ~ +25D
Minimum scale value	-5D ~ +5D; 0.125D;
	-5D ~ -25D, +5D~+25D: 0.25D
Astigmatism axis angle of cylindrical lens	1° ~ 180°
Prism degree	Model A 0~5 △ Minimum scale value 1
	Model B (with prism compensator)
	0~20 △ value 1
Prism basal angle	0~180°Minimum scale value 1°
Range of ocular visibility adjustment	-5D~+5D
Size of measured lens	Φ16~Φ80mm
Overall dimensions	280mm(L)*150mm(W)*450mm(H)
Weight	5KG
Lamp of illumination	220V / 110V

CCQ-500

Features

◆ LED light source: the more energy efficient, without having to replace light bulbs, and to meet EU requirements on light sources.
◆ Can be converted to battery power supply (special order).
◆ User-friendly design: Adds silicone on tablet RBI handle,makes user feel more comfortable; Use more softer materials on measurement holder, to avoid scratches on the lenses.
◆ Security power: switch power adapter, low voltage, safer.
◆ Outer reading

Specifications

Range of measurement	-25D~+25D
Minimum scale value	-5D~+5D; 0.125D;
	-5D~-25D,+5D~+25D; 0.25D
Astigmatism axis angle of cylindrical lens	0~180° Minimum scale value 1°
Prism degree	Model A 0~5 △ Minimum scale value 1
	Model B (with prism compensator)
	0~20 △ Minimum scale value 1
Power requirement	110v/220v,60hz/50hz
Prism basal angle	0~180° Minimum scale value 1°
Range of ocular visibility adjustment	-5D~+5D
Size of measured lens	Φ16~Φ80mm
Overall dimensions	280mm(L)*150mm(W)*450mm(H)
Weight	5KG

Auto Lensmeter

JD-2000

Features

◆ 7" LCD,Adjustable LCD display screen, touch screen.

◆ A graph helps the operator to improve accuracy and speed in the measurement of near and far vision.

◆ Automatic reconition of single and progressive lens.

Specifications

Measure scope	Sphere	0~±25D (0.01/0.12/0.25D steps)
	Cylinder	0~±9.99D (0.01/0.12/0.25D steps)
	Axis	0~180°(1°step)
	Addtion	0~±9.99D (0.01/0.12/0.25D Steps)
	Prism	0~15 (0.01/0.12/0.25Δ steps)
Measurment Mode	Measuring mode	Single / progressive/Lens auto recognition
	Cylinder	+,+/-,-
	Prism	X-Y, P-B
	Contact lens	Soft/hard lens
Specifications	Pupil distance	40~90mm,0.5mm steps
	Measuring speed	0.1 second
	Lens diameter	ø20~108mm
	Display	7" LCD/TFT
	Print	Thermall Printer
	Power Supply	220V -110V (50/60Hz)
	Package	530*330*370mm
	Weight	6kg

JD-2600

Features

◆ 7" LCD,Adjustable LCD display screen, touch screen.

◆ A graph helps the operator to improve accuracy and speed in the measurement of near and far vision.

◆ Automatic reconition of single and progressive lens.

Specifications

Measure scope	Sphere	0~±25D (0.01/0.12/0.25D steps)
	Cylinder	0~±9.99D (0.01/0.12/0.25D steps)
	Axis	0~180°(1°step)
	Addtion	0~±9.99D (0.01/0.12/0.25D Steps)
	Prism	0~15 (0.01/0.12/0.25Δ steps)
Measurment Mode	Measuring mode	Single / progressive/Lens auto recognition
	Cylinder	+,+/-,-
	Prism	X-Y, P-B
	Contact lens	Soft/hard lens
Specifications	Pupil distance	40~90mm,0.5mm steps
	Measuring speed	0.1 second
	Lens diameter	ø20~108mm
	Display	7" LCD/TFT
	Print	Thermall Printer
	Power Supply	220V -110V (50/60Hz)
	Package	530*330*370mm
	Weight	6kg

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Auto Lensmeter

JD-2600A/JD-2600B

Features

- JD-2600A : 7" color touch tilt screen.
- JD-2600B : 5.6" color touch tilt screen.
- JD-2600A and JD-2600B the only difference is the screen size, Others are same.
- With UV PD printer .

Specifications

Sphere	-25~+25D; 0.01/0.12/0.25D steps
Cylinder	-9.99~+9.99D; 0.01/0.12/0.25D steps
Axis	0° ~180° (1° Steps)
Add.	0-9.99 D ; 0.01/0.12/0.25D step.
Prism degree	0~15Δ ; 0.01/0.12/0.25Δ
Cylinder	+, +/-, −
Prism	X-Y, P-B
Contact Lens	Soft/hard;
Measuring mode	Single/progressive/automatic recognition
Diameter of lens	20-108mm;
PD	40-90mm, 0.5mm step;
Speed of measurement	0.1s
Printer	Thermal Printer
Weight	5.5kg/7kg
Power supply	AC 100-240V (50/60Hz)

JD-2500

Features

- 7.0 inch color LCD touch panel.
- Hartmann sensor with 108 multiple measure points.
- Green measurement light beam.
- Dyeing lens, sunglasses measured easily.
- With PD Printer, with UV test.

Specifications

Sphere	-25.00D-+25.OOD
Axis	0°~180° (1°step)
Cylinder	0 ~ ±9.99D 0.01/0.12/0.25D steps
Prism degree	0 ~ 15D 0.01/0.12/0.25D steps
ADD	0 ~ ±9.99D 0.01/0.12/0.25D steps
Prism base angle measurement scope	0°~360° (1°step)
Prism degree measurement scope	Horizontal 0~20 △ ,step0.01 △
	Vertical 0~20 △ ,step0.01 △
Display	7.0" TFT LCD
Printer	Thermal Printer
Package	375mm(W)×465mm(D)×340mm(H)
Weight	About 6.6kgs
Power Supply	AC100~240V (50/60Hz)
Lens PD measurement scope	40mm - 82mm step 0.25mm
Lens PH difference A PH measurement scope	0mm 50mm ,step 0.25mm

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Auto Lensmeter

TL-6500

Features

◆ 7" color touch tilt screen.

◆ Hartman sensor.

◆ Green measurement light.

◆ Dyeing lens, sunglasses measured easily.

Specifications

Sphere	-25.00~+25D（steps 0.01/0.06/0.12/0.25D ）
Cylinder	-9.99~+9.99D（steps 0.01/0.06/0.12/0.25D ）
Axis	0°~180°（steps：1°）
Add	0-10 D（steps 0.01/0.06/0.12/0.25D ）
Prism degree	0~20Δ（steps 0.01/0.06/0.12/0.25Δ）
Measurable lens diameter	Ø 10 to 90 mm
Cylinder	+,MIX, −
Prism	X-Y, P-B
PD measurement	20-45mm（monocular）Single vison PD, Progressive lens far vision PD
Wavelength/Measuring point	535nm（green）/108 within nosepiece
Printer	Thermal Printer
Dimensions	255(W)*224(D)*434(D)MM
Weight	5kg
Power supply	220V -110V (50/60Hz)

TL-6800

Features

◆ 7.0 inch color LCD touch panel, with uv pd printer , green light , blue light .

◆ Green measurement light beam;UV/Blue light measurement function.

◆ LCD angle adjustable , which provides more easy observe and more comfortable operation.

Specifications

Sphere	-25.00D-+25.OOD (step:0.01/0.06/0.12/0.25D)
Cylinder	0.00D-±10.00D (step:0.01D/0.06D/0.12/0.25D)
AXIS	0°-180° (1°STEPS)
ADD	0.00D-±10.00D (step:0.01D/0.06D/0.12/0.25D)
Prism	0.00Δ-20.00Δ (step:0.01/0.06/0.12/0.25D)
Measureable lens diameter	Φ10 to 90mm
Cylinder	+,MIX, −
Prism	X-Y, P-B
PD measurement	42-82mm Single vison PD, Progressive lens far vision PD
PD measuring range	40-90mm
Wavelength/measuring point	525 nm(Green) /145 within nosepiece
Display	7"color and touch screen
Printer	Thermal Printer
Power supply	240V -110V (50/60Hz)
Dimensions	203(W)*233(D)*471(D)MM
Weight	5 KG

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Auto Lensmeter

LM-700

Features

- LM-700 Lensmeter can measure the single focal, Bi-focal and progressive lens simply, quickly and accurately.
- More accurately measurement under the Hartmann principle.
- QR code printing without paper.
- The all-in-one printer provides better solution for printing paper replacement.
- High-resolution true color screen.
- User-friendly menu for progressive measurement.
- Self-calibration function of software.

Specifications

Sphere	0 to ±25D (0.01D/0.06D/0.12D/0.25D steps)
Cylinder	0 to ±10D (0.01D/0.06D/0.12D/0.25D steps)
Axis	0°to 180°(1°step)
Under plus degree	0 to 10D
Prism basal angle	0° -360°
Cylinder mode	+, +/-, -
Prism degree	Horizontal Direction 15 Vertical Direction 20
Lens size	7~110mm
Lens thickness	<=20mm
UV transmissvity	yes
Range of PD	30~100mm
Range of PH	4~55mm
Power source	AC100 (±10%) ~240 (±10%) V, (50/60Hz), 40VA
Power Adapter	AC110V~20V
Weight	5kg
Dimensions	203×240×480mm(W×D×H)

FL-800

Features

- 5.6 inch Color and touch screen, LED green light.
- Displaying the PH value in screen.
- There are seven Language can choose:English, German, Italian, Spanish, Portuguese, Turkish, Russian.

Specifications

Sphere lens	-25.00D-+25.OOD
Contact lens	-25.00D-+25. ODD (BC=6.00-9.00) (0.01D/0.12D/0.25D steps)
Cylinder	0.00D-±10.00D (0.01D/0.12D/0.25D steps)
Axis	0°-180°(1°Steps)
Add	0.00D-±10.00D (Add and Ad2)
Prism	0.00Δ-15.00Δ (steps 0.01Δ)
PD measure	40mm-85mm
Lens diameter	Φ15mm-Φ100mm
Display	5.6 inch colorful touch LCD screen
UV	>100% (±15.00D~±25.00D, >20%)
Dot method	Ink pad/Ink cartridge
Printing	High speed thermal printer
Power supply	AC100-240V (50-60Hz)
Dimensions/ Weight	194(W) x 210(D)x408 (D)MM/ 3.6kg
Max power	40W
Digital connector	RS-232C

Auto Lensmeter

TL-900

Features

- Green LED light source, ABBE compensation no required.
- Hartman testing method, CPU high-speed precise computing.
- Automatic identifying the lens type, Automatic measurement, Automatic reading and memorying the data.
- 5.7 inch high resolving power LED screen.
- Broad contents, strong performances, simple and convenient operation.
- Latest international designing concept of collecting technology, mode and individuality.

Specifications

Measuring range	Sphere: 0 to ±35D (0.01D/0.06D/0.12D/0.25D steps)
	Cylinder: 0 to ±10D (0.01D/0.06D/0.12D/0.25D steps)
	Axis: 0°to 180°(1°step)
	ADD: 0 to 10D (0.01D/0.06D/0.12D/0.25D steps)
	Prism: 0 to 15 △ (0.01 △)
Cylinder mode	+, +/-, -
Prism mode	X-Y: cartesian coordinates H:I,O; V:U,D.
	P-B: polar coordinates
	mm: mm expression
Reading resolving power	0.01D,0.06D,0.12D,0.25D
Display	5.7" TFT LCD
Lens diameter	20mm~100mm
Power source	240V -110V (50/60Hz), 40VA
Power consumption	40W
Weight	4kg
Dimensions	190*210*420mm (W*D*H)

D910

Features

- Measurement Screen
  Easy to use with recognizable icons, providing a user-friendly graphical interface for an immediate understanding.
- Hi-speed UV measurement
  Just holding the lens through the sensor, the display will easily indicate the UV measurement by the progress bar.

Specifications

Sphere	-25.00D-+25.OOD
Axis	0°- 180° (1°step)
Cylinder	0 - ±9.99D 0.01/0.12/0.25D steps
Prism degree	0 - 15D 0.01/0.12/0.25D steps
ADD	0 - ±9.99D 0.01/0.12/0.25D steps
Cylinder	+, +/-, -
Prism	X-Y, P-B
Contact lens	Soft/hard
Measuring Mode	Single/progressive/automatic recognition
Diameter of Lens	φ12-φ112mm
PD	40-90mm, 0.5mm steps
Speed of measurement	0.1s
Display	7.0" TFT LCD
Printer	Thermal Printer
Dimension	180(L)*255(W)*455 (H) mm
Weight	12kgs
Power Supply	240V -110V (50/60Hz)

Manual Phoropter

MP-10

Features

◆ TWO Colors: Black and White

Specifications

Sphere power range	-19.00D~+16.75D （step：0.25D)
Cylinder power	-6.00D~0.00D （step：0.25D)
	-8.00D~0.00D when additional lens of -0.200D
Cylinder Axis range	1°~180°（5° step)
Cross cylinder	± 0.25D
Rotary prisms range	0 △ ~20 △ （Step: 1 △)
P.D.adjustment	50~75mm
Convergence adjustment	∞，380mm （when P.D.64mm)
Forehead adjustment	16mm
Vertex distance	12mm
Standard accessorial lens	Cicinal lens,double even lens
Size	318*96*292mm
Weight	4.5kg

MP-10A

Features

◆ TWO Colors: Black and White

Specifications

Sphere power range	-19.00D~+16.75D （step：0.25D)
	or 0.12D （when +0.12D auxiliary lens or optional
	± 0.12D lens is in use）
Cylinder power range	-6.00D~0.00D With minimum reading 0.25D
	or 0.12D （when auxiliary lens is in use）
	-8.00D~0.00D （when -2.00D auxiliary lens is in use）
Cylinder Axis range	1°~180°(5° step)
Cross cylinder	± 0.25D
Rotary prisms range	0 △ ~20 △ （Step: 1 △)
P.D.adjustment	50~80mm
Forehead adjustment	16mm
Effective field of view	19mm
Size	323*315*85mm
Weight	5kg

Manual Phoropter

MP-30

Features

◆ Capable of checking up all-sided visual functions, accurate and comfortable in measurement.
◆ Unique design of butterfly-shape appearance.
◆ Exquisite manufacturing technique, with comfortable feel.
◆ High grade plated-film used in all optic lenses.

Specifications

Sphere power	-19.00D~+16.75D Step: 0.25D
	When applied with auxiliary lens +0.12D Step: 0.12D
Cylinder power	Range: 0~-6.00D
	When applied with auxiliary cylinder lens : 0~-8.00D (Step: 0.25D)
	When applied with auxiliary cylinder lens +.012 (Step: 0.12D)
Cylinder axis	0~180° Step: 5°
Cross cylinder	± 0.25D
Rotary prism	0~20Δ Step: 1Δ
PD adjustment	50~75mm Step: 1mm
Convergence adjustment	∞ , 380mm (When PD 64mm)
Forehead reat adjustment	16mm
Vertex distance	13.75mm (From corneal point to standard lens surface)
Dimension	335(L)*320(W)*98(H)mm
Weight	5kg

MP-50

Features

◆ New design, high quality .
◆ There are black , white, gray , silver color optional.
  Normally, black and white in stock.
◆ With LED design.

Specifications

Sphere power	-19.00D~+16.75D, Step: 0.25D
Cylinder power	± 0 to 6.00D, Step: 0.25D (when auxiliary lens is used)
	or 0 to 8.00D (when 2.00D auxiliary lens is used)
Cylinder axis	0~180°; Step: 5°
Cross cylinder	±0.25D
Rotary prism	0 to 20Δ
PD adjustment	50-75mm; Step: 1mm
Accessories	Near card and rod, phoropter cover, auxiliary lenses
Standard Accessory lenses	Two 0.12D and -2.00 cylinder lenses, two plano
	lenses for sealing front opening
Dimensions	31.8*9.6*29.3(cm)
Net weight	4.5kg

Manual Phoropter & Auto Phoropter

MP-60

Manual Phoropter

Specifications

Sphere power range	-19.00D~+16.75D （step：0.25D or 0.12D）
Cylinder power	-6.00D~0.00D （step：0.25D or 0.12D）
	-8.00D~0.00D when additional lens of -0.200D
Cylinder Axis range	0°~180° （5° step）
Cross cylinder	± 0.25D
Rotary prisms range	0 △ ~20 △ （Step: 1 △）
Interpupillary adjustment	48~80mm (right and left synchronized)
Convergence adjustment	∞, 380mm （when P.D.64mm）
Forehead adjustment	16mm
Vertex distance	12mm
Convergence	The optical axes of the lenses are algned at a distance of 400mm from the vertexes of thecomeas (2mm each for right and left Inward) Interpupll lary d stance enabling conwergence -57mm to 80mm
Corneal distance device	2mm forward and 5mm backward from standard plane with scale
Effective field of view	19mm
Size	323*315*85mm
Weight	5kgs

VT-100

Auto Phoropter

Features

◆ Contour design is elegant with sphere fast rotating disk, enabling the rapid adjustment of 3.00m-1.

◆ The unique Cross Cylinder design, convenient and flexible.

◆ Can be easily used to measure near visual acuity.

Specifications

Sphere range	-29.00~+26.75D (Step:0.25D,3.00D)
Cylinder range	0.00 ~ -9.75D (Measuring Range With
	Accessories 0.00~-8.00D(Step:0.25D)
Pupillary Distance	Distant range:45~75mm (0.5/1.00mm steps)
	Close range: 45~75mm 0.5/1mm steps
Working Distance	35-70cm (step: 5cm)
Cylinder axis	0 to 180°,(5°steps)
Cross Cylinder	±0.25D
Rotary prisms	0~20 △ （Step: 1 △ ）
P.D.adjustment	45~80mm (Step: 1mm)
Dimensions	338(L)*99(W)*292(H)mm
Net Weight	5Kg

Auto Phoropter

VT-700

Features

- The 9.7 inch touchable screen.
- Easy to update the program.
- The 180°rotating screen providing the direct communication with customers.
- Various near visual and facilitating icons built in.
- Abundant online functions.
- Elegant With exquisite workmanship.

Specifications

Sphere	-29.00D~+26.75D (0.12D/0.25D/0.50D/1.00D//2.00/3.00D)
Cylinder	0.00D~+8.75D (0.25D/0.5D/1D/2D/3D steps)
Axis angle	0~180° (1°/5°/30°/45°steps)
Pupillary Distance	Distant range:45~75mm (0.5/1.00mm steps)
	Close range: 45~75mm 0.5/1mm steps
Working Distance	35-70cm (step: 5cm)
Rotary Prism	0~20 (0.1/0.2/0.5/1/2 steps)
Cross Cylinder Lens	Cross cylinder 0.25D, cross cylinder 0.50D
Plane Retinoscope	+1.50D(67cm) +2.00D(50cm)
Auxiliary Lens	
Pinhole Lens	1.0mm
Maddox	Right eye (horizon), left eye (vertical)
Red and green lens	RL(Right eye),GL(Left eye)
Polaroid	Right eye (135°,45°); Left eye (45°,135°)
Prism	Right 6 BU, Left 10BI
Solid Suprachiasmatic cylinder	Cross Cylinder ±0.50D Axis=90°
Visual degree	32°
Power Supply	AC110V-240V (50/60Hz), 90VA
Net Weight	7.1kg

Auto Phoropter

CV-7200

Features

- Data transmission with auto refractometer and auto projector.
- Built-in LED for near vision illumination.
- 7.0-inch color LCD touch screen.
- Stylish and compact design.
- Auto detachment printer .
- Independent PD adjustment.

(7.0 Inch touch screen)   (Auto detachment)   (Reverse side)   (near vision test)

Specifications

Sphere	-19.00D~+16.75D (0.12D/0.25D/0.50D/1.00D/3.00D steps)
Cylinder	-6.00D~+6.00D (0.25D steps)
Axis angle	0~180° (1°/5°steps)
Pupillary distance	Distant range: 52~80mm 0.5/1mm steps
	Close range: 48~76mm 0.5/1mm steps
Rotary prism	0~20 Δ (0.1Δ /0.5 Δ /1.0Δ steps)
Cross cylinder Lens	±0.25D
Plane retinoscope	+1.50D (67cm) +2.00D (50cm)
Auxiliary lens	PH Binoculus (1.0mm)
	RMV,RMH
	RL (Right eye),GL (Left eye)
	Polaroid (Right eye 135°/45°; Left eye 45°/135°)
	Prism (Right 3 △ BU ,3 △ BU),(Left 3 △ BD ,10 △ BI)
	Cross Cylinder Lens (±0.50D Axis=90°)
	PD Lens
Phoropter size	365mm*280mm*110mm 3.8kg
Keyboard size	230mm*195mm*190mm 1.2kg
Power box size	236mm*126mm*115mm 2.1kg
Power supply	AC220V/110V (50/60Hz),90W
Net weight	7.1kg

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Auto Phoropter

CV-7600

Features

- Bluetooth wireless communication , easy to operate.
- Portable bluetooth printer.
- Independent PD adjustment.
- Built-in LED for near vision illumination.
- Data transmission with auto refractometer and auto projector.

Compact and slim design,with smaller size, lens switchfast and smoothly, providemore comfortable optometry experience.

Left and right PD independent adjustment, to achieve more accurate measurement.

Near-point card with various charts. Built-inwhite LED lighting offers clear and safe illumination environment.

Dismountable face shield and forehead rest, easy to clean and maintain, provide clean testing environment.

Specifications

Sphere	19.00~+16.75D (0.25D/0.50D/1.00D/3.00D steps)
Cylinder	-8.75D~+8.75D (0.25D steps)
Axis angle	0~180° (1°/5°steps)
Pupil distance	Distant range 52~80mm
	Close range 48~76mm 0.5/1mm steps
Rotary Prism	0~20 Δ (0.1/0.5Δ steps)
Cross Cylinder Lens	±0.25D
Retinoscope	+1.50D (67cm), +2.00D (50cm)
Auxiliary Lens	PH, Binoculus (Ø =1.0mm）
	RMV/RMH
	PD Lens
	RL (Right eye), GL (Left eye);
	Polaroid (Right eye 135°/45°), (Left eye 45°/135°)
	Prism (Right 3 BU , 6 BU), (Left 3 BD, 10 BI);
	Cross Cylinder Lens(±0.50D Axis=90°)
CV head size	381mm*286mm*111mm 3.8kg
Table size	243mm*171mm*7mm 0.5kg
Power supply	AC220V/110V (50/60Hz), 90W

Phoropter Arm

PA-1

Especially designed for small optometry room.
1. installing on the wall
2. Save space

PA-2

Can install on any ophthalmic unit

PA-3

Especially designed for small optometry room.
1. Installing on the wall
2. With lamp

PA-4

Two color can choose:Black and Whrite
Place on table

PA-5

Especially designed for small optometry room.
1.Place on ground
2.With lamp

PA-6

Especially designed for small optometry room.

PA-7

N.W./G.W   50kgs/70kgs
Figure size   580mm*560mm*1670mm

Auto Chart Projector

ACP-6

Features

- Body rotation and flexible: Spherical Pillarless projector to facilitate multi-angle rotation.
- Grating function: With grating function can be realized view single or in a separate display.
- Filter function: Filter function can be realized red / green display.
- Clear picture of the High-definition projection screen.

Specifications

Icon	32 selections
Icon to select speed	0.3 Seconds
Show	The whole site as the standard display
	Single visual target display
	Separate visual target display
	A single visual target display
Filter Color	Red / Green
Projector Distance	2.0m-7.0m (5m is Standard)
Image expansion of multiple	30× (5m)
Projection size	φ252mm , 330(W)×225(H)mm(5m)
Tilt	Ball Joints
Light	6V 20W (Halogen), or 5V 5W (LED Light) Optional
Voltage	AC110-240V, (50/60Hz)
Auto-standby function	3-10minutes
NW	Host: 6.0kg Remote:180g

ACP-100

Features

- Filtering Function :Red/Green Filter .
- Chart: 39 kinds .
- Lamp:LED .
- Weight:5kg.

Specifications

Projection distance	3m to 6m
Charts	39 selections
Masking function	No mask, Horizontal line mask, Vertical line mask, Single letter mask
Filtering function	Red/Green filter
Chart changeover speed	Average of 0.2 seconds or less
Chart size	336 (W)*225(H)mm (at the distance of 5m)
Lamp	LED
Weight	5kgs
Dimensions	Main body:208(W)*287(H)*346(L)mm
Voltage	AC100-240V, (50/60Hz)
Power	36W

Auto Chart Projector

Loudly

ACP-200

Features

- Inspecting 30 charts and 35 masks.
- Provide with five kinds of chart of binocular balance.
- Provide with different charts (Chart B and C) in order to satisfy needs of different countries.
- Filter function can be realized red / green display.
- Lamp:Halogen OR LED.

Specifications

Projection Distance	1.5 ~ 7 meter
Projection Magnification	30x (at 5m)
Projection Size	330*270mm (at 5 m)
Chart Switching Speed	0.01~0.02S
Mask Number	1 Open, 5 Horizontal Lines, 8 vertical lines,21 single letters, 1 red/green
Mask Switching speed	One mask per 0.01~0.02s
Program	2 sets programs, each program contains up to 30 steps
Lamp	Halogen lamp: 12V, 50W, OR LED:12V,10W
Power Saving function	Will automatically standby in 10 min
Power source	AC 220V ,50Hz or 110V, 60Hz
Power consumption	80W
Dimensions	320mm*218mm*240mm
Net Weight	7.2kg
Standard Accessories	Remote control, polarozed metal screen, halogen lamp, Polarized glasses, fuses (2), battery (2)
Optional Accessories	Floor Stand, wall Stand

ACP-300

Features

- Body rotation and flexible: Spherical Pillarless projector to facilitate multi-angle rotation.
- Grating function: With grating function can be realized view single or in a separate display.
- Filter function: Filter function can be realized red / green display.
- Clear picture of the High-definition projection screen.

Specifications

Icon	33 selections
Speed of choosing icon	0.3Seconds
Display	The whole site as the standard display
	Single visual target display
	Single row visual target display
	Single visual target display
Filter Color	Red / Green
Projector Distance	2.0m-7.0m (5m is Standard)
Image expansion of multiple	30× (5m)
Projection size	252(L)mm*330(W)*225(H)mm(5m)
Tilt	Ball Joints
Light	6V 20W (LED)
Power	AC220V+/-10%, 50/60Hz
Auto-standby function	3-10minutes

LCD Chart Monitor

LCP-100A

Features

◆ Providing several visual target and visual function icons.
◆ Switching visual targets smoothly and quickly.
◆ Space-saving wall-hanging design.
◆ Thinner and more aesthetic desige.

Specifications

Screen size	19 inch
Maximum brightness	300cd/m
Maximum contrast	2000:1
Signal response time	5ms
Screen ratio	16:9 or 16:10
Screen dot spacing	0.284mm
Maximum screen resolution	1440*900
Standard power consumption	About 45W
Use Distance	1-7 m
Total weight	5.0kg
Vision acuity record method	The decimal English scores recording
Remote-controlled distance	Noless than 8 m
Installation method:	Bracket can be installed and hang on the wall

LCP-200

Features

◆ Providing several visual target and visual function icons.
◆ Switching visual targets smoothly and quickly.
◆ Space-saving wall-hanging design.
◆ Thinner and more aesthetic desige .

Specifications

Screen size	19 inch
Maximum brightness	300cd/m
Maximum contrast	2000:1
Signal response time	5ms
Screen ratio	16:9 or 16:10
Screen dot spacing	0.284mm
Maximum screen resolution	1440*900
Standard power consumption	About 45W
Use Distance	2-8 m
Total weight	5.0kg
Vision acuity record method	The decimal English scores recording
Remote-controlled distance	Noless than 8 m
Installation method	Bracket can be installed and hang on the wall

LCD Chart Monitor

LCP-300

Specifications

Screen size	22"
Screen resolution ratio	1680*1050@60Hz
Dot pitch	0.282mm
Screen ratio	TFT
Screen type	16: 9
Visible angle	473. 76mm*296. 1mm
Color	H: 170/V: 160
Visible size	16.7M
Max. Brightness	300cd/m2
Max.contrast ratio	2000: 1
Signal response time	5ms
Overal,I size(mm)	532*411*200mm
Weight	5.5Kg(6. 8Kg)
Effective distance	2m~8m(Adjustable)
Emote-contolling distance	Imperial fraction, or decimal
Electrical source	AC220V/110V (50/60Hz)
Rated power	60W
Standby power	2W

LCP-400

Specifications

Screen size	21.5"
Standby power	＜ 2W
Screen resolution ratio	1920* 1080
Dot pitch	0.248mm
Screen ratio	16:9
Screen type	TFT_ LED
Visible angle	H: 170/V: 160
Color	16.7M colors
Visible size	478. 8*271. 3mm
Max. Brightness	250cd/ m2
Max. contrast ratio	1000: 1
Singnal response time	5ms
Overall size(mm)	545*405*44
Effective distance	1m - 6m (adjustable)
Record of vision test result	Imperial fraction, or decimal
Electrical source	240V -100V (50/60Hz)
Rated power	60W

LCD Chart Monitor

LCP-500

Specifications

Power	AC100W-240V/50Hz/60Hz
Standard Power	45W
Stand-by Power	< 2W
Maximum Screen Resolution	1440x900@60Hz
Distance	0.284mm .
Screen Type	TFT
Screen Ratio	16:9
Screen size	23"
Visual Size	43mmx237mm
Visual Angel	H:170/V:160
Color	16.7M
Maximum Brightness	300cd/m²
Maximum Contrast	2000:1
Time	5ms
Outer Size	660x380x50mm
Weight	5KG
Working Distance	1M-6.5M adjustable
Whether with 3D function	With 3D polarization
Record Method	Decimal and Imperial Fractions
Distance of Control	The maximum remote control distance ≥ 8m
Screen	Horizontal / vertical / single-character
Test Graph	Alphabet Vision Chart / Children's Vision Chart / Red and Green Blind Test Chart E Vision Chart / C Vision Chart / WOTH Four-point Visual Standard / Digital Vision Chart / Cross Vision Standard / Contrast Sensitivity Test Table / Red / Green Vision Standard / Cellular Vision Standard / Markov rod sights / Disc disc sights, etc.

PLB-22

Portable lens box

Specifications

Power	AC100W-240V/50Hz/60Hz
Standard Power	60W
Stand-by Power	< 2W
Maximum Screen Resolution	1680x1050@60Hz
Distance	0.284mm .
Screen Type	TFT
Screen Ratio	16:9
Screen size	21.5"
Visual Size	530mmx335mm
Visual Angel	H:170/V:160
Color	16.7M
Maximum Brightness	300cd/m²
Maximum Contrast	2000:1
Time	5ms
Outer Size	578x380x74mm
Weight	6.7KG
Working Distance	1M-6.5M adjustable
Record Method	Decimal and Imperial Fractions
Distance of Control	The maximum remote control distance ≥ 8m
Screen	Horizontal / vertical / single-character
Test Graph	Alphabet Vision Chart / Children's Vision Chart / Red and Green Blind Test Chart E Vision Chart / C Vision Chart / WOTH Four-point Visual Standard / Digital Vision Chart / Cross Vision Standard / Contrast Sensitivity Test Table / Red / Green Vision Standard / Cellular Vision Standard / Markov rod sights / Disc disc sights, etc.

LCD Chart Monitor

LCP-1900

Features

- ◆ 23-inch high contrast and bright display.
- ◆ Smooth and quiet operation.
- ◆ Wireless Remote control.
- ◆ Wide range of test types.
- ◆ Precise distance adjustment.
- ◆ Easy mounting.
- ◆ IRandom test sequence.

Specifications

Display	23"LCD (color) High resolution monitor
Brightness	250 cd/m²
Chart versions	E,C ABC, 123,Child, Special version chart
Chart acuity	6/3-6/150 20/10-20/500 0.04-2.0
Distance	2.0~7.0m
Power supply:Imput	AC100-240V (50/60Hz)
Power consumption	≤33W
Dimension	531mm(W)x 394mm(H)X121mm(D)
Weight	4.72KG (Net weight)
Remote	IR
Batteries for remote control	3A

LCP-901

Features

- ◆ High Resolution 17-inch LCD.
- ◆ Vector Optotypes and charts.
- ◆ Video and Audio Playing.

Specifications

LED size	17 inch XGA Panel
Working distance	2-7m, (Step 0.1m)
	6 inch-feet (Step 0.5foot)
Remote Control	IR
Battery of remote control	AA
LCD brightness	≥200cd/m2
Vision icon	E,C,Alphabet,Figure,Children,Allen pictures
	Schober test,Worth test, Cross grid, Coincidence test
Testing function	ETDRS, Stereo test, Astigmatism test, Fixation point test
	Ishihara test, Cross cylinder, Red green panel and so on
Unit	5-Grade,Decimal,LogMAR,Snellen(ft),Snellen(M)
Other functions	Optotype random disply,Auto entering standby mode real
	time adjustment of red and green test chart and so on
Power supply:Imput	AC110-220V AC+/-10%,50/60Hz

Polarized Video Display

PG-12

Polarized Video Display

Features

◆ This machine is designed for testing if lens have polaried function.After machine start,you could only see the white screen and hear the sound.Only when you wear the polarized lenses or put the big polarized frame on the front of the machine,screen will show real video.

Specifications

Sreen size	12"
Packing Dimension	48*8*35cm
G.W.	2kg

CP-27B

Vision Testing Software

Features

◆ Vision Testing Software---Compatible with Win XP, Win 7, Win 8 system.
◆ The products can be installed on the personal computer with the LCD screen 14'',17'',19''.
◆ It is combined with a installation CD,a USB dog,and a romote control, afterwe install the software on the computer,and plug into the USB watchdog and the remote control receiver, then we can operate the softwareeasily by the remote control and change the charts conveniently.

Specifications

PC	USB watching
Available LCD computer	14 inches, 17 inches, 19 inches
Control	Remote control
Charts includes	E Snellen, C Landolt, ABC letters, Numbers, Children, Astigmatism, Achromatopsia, Synthesis, Ophthalmic pictures;
Selectable distance	6.3 m, 5 m, 4 m, 3 m , 2.5 m, 2 m, 1.5 m, 1.2 m, 1 m
Dimension	21.7(L)*17.7(w)*4.2(H)cm
Weight	0.5kg
Include	Installation CD X 1
	Remote Control X 1
	USB Watchdog X 1
	Standard Ruler X 1
	User's Manual X 1

Visual Acurity Chart

VAC-03 Series

VAC-03-E

VAC-03-C

VAC-03-H

Features

◆ Test Distance: 5m
◆ Unit G.W.:2.4kg/ size:101*9*35cm
◆ Packing Quantity:5 pcs/ctn
◆ CTN G.W.: 13.2KG/Size:104*39*465cm

VAC-05 Series

Features

◆ Test Distance: 5m.
◆ Unit G.W.:3.3kg/ size:95*9*50cm.
◆ Packing Quantity:5 pcs/ctn.
◆ CTN G.W.: 17.8KG/Size:100*42*55cm.
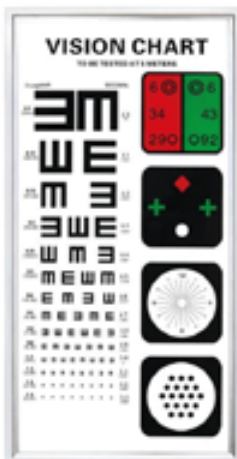
VAC-05-E

VAC-05-H
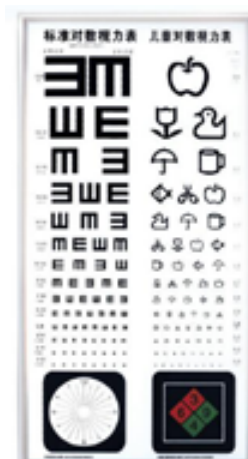
VAC-05-A

Near Vision Tester

NV-100

Features

- Measurement of visual acuity.
- Accurate determination of presbyopic additions and other near corrections.
- Near vision astigmatism tests.
- Amplitude of accommodation including monocular measurements under binocular conditions.

Specifications

Test Distance	36cm
Distant Control	60cm
Size	220(H)*210(W)*42(D)mm
Weight	780g
Power Supply	LR6 AA/1.5V×3

NV-37C/NV-23H/NV-23S

Features

- Test Distamce:25cm.
- LED background chart.
- NV-37C input :110V-240V;50/60HZ.

NV-37C

NV-23H

NV-23S

PD Ruler

PD Ruler

001
Soft Ruler

002
Hard Ruler

003
Soft Ruler

004
Hard Ruler

005
Soft Ruler

006
Hard Ruler

007
Soft Ruler

008
Soft Ruler

009
Hard Ruler

010
Soft Ruler

011
Metal Ruler
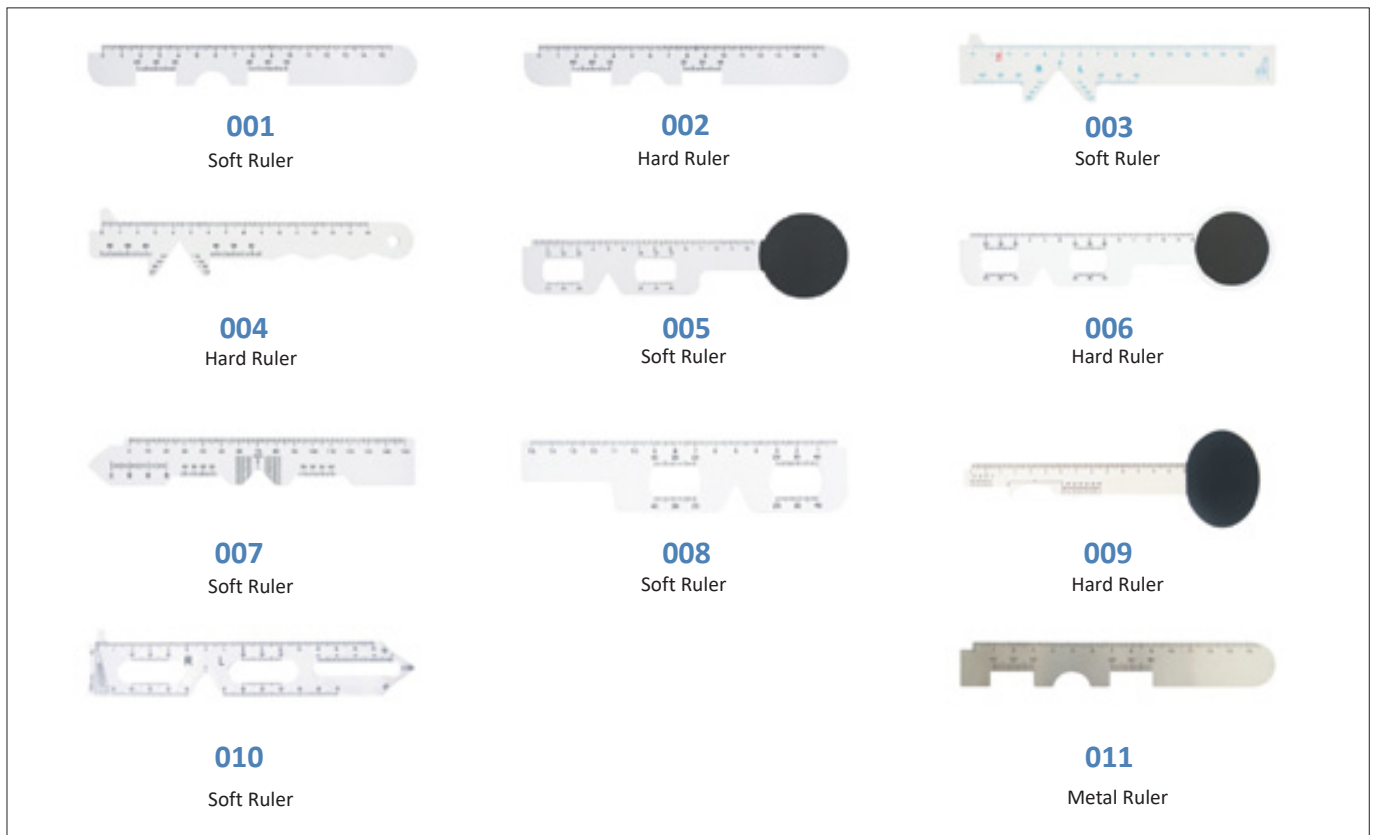
Digital PD Ruler

Features

◆ It is a digital precision optical instrument used to measure distance between human pupils in the process of optometry for fitting spectacles.

◆ **Detailed Product Description:**

1. It employs precise optical structure, the line of light is very clear and precise measurement. The measurement results are displayed digitally, and the left eye and right eye measuring values are displayed separately.

2. Simple and rapid measuring operation, and free operation of the direct PD adjustment lever are possible.

3. When the measuring operation is finished, the auto power off and memory function, enable to save the power and not to lose the data.

4. It can also be used in monocular the left eye and right eye separately.

PD-5

Specifications

Range of measurement	47.1~76.2mm(Both eyes)
Power requirement	23A 12V battery
Package size	21.5*12.2*44 mm
Net weight	200g

Digital PD Meter

PD-20

PD-20C

PD-30

PD-50

PD-50C

PD-60

PD-70

Features

◆ The PD Meter is a digital precision optical instrument used to measure distance between human pupils in the process of optometry for fitting spectacles.

◆ **Detailed Product Description:**

1. It employs precise optical structure, the line of light is very clear and precise measurement. The measurement results are displayed digitally, and the left eye and right eye measuring values are displayed separately.

2. Simple and rapid measuring operation, and free operation of the direct PD adjustment lever are possible. Combining with the adjustable viewing distance selecting lever for measuring all kind of the viewing distances, the PD measurement is simple and precise.

3. When the measuring operation is finished, the auto power off and memory function, enable to save the power and not to lose the data.

4. It can also be used in monocular the left eye and right eye separately

Specifications

Model	PD-20/PD-20C	PD-30	PD-50/PD-50C
Range of measurement	45~82mm (Both eyes)	50~80mm (Both eyes)	45-82mm (Both eyes)
Indication error	≤0.5mm	≤0.5mm	≤0.5mm
Distance of target	30cm to ∞	30cm to ∞	30cm to ∞
Electric Voltage	DC 3V (2pcs 5# AA battery)	DC 3V (2pcs 7# AAA battery)	DC 3V (2pcs 5# AA battery)
Power	10W	10W	10W
Weight	0.9kg	0.9kg	0.9kg
Volume	28(L)*20(w)*10(H)cm	33(L)*23(w)*12(H)cm	28(L)*20(w)*10(H)cm

Model	PD-60
Range of measurement	45-82mm (Both eyes)
Indication error	≤0.5mm
Distance of target	30cm to ∞
Electric Voltage	DC 3V (2pcs 5# AA battery)

Model	PD-70
Range of measurement	46 - 82 mm (Both eyes)
Indication error	≤0.5mm
Target distance	30cm to ∞
Voltage	DC 3v (2 aa battery)
Net weight	0.7 kg
Inner box size	28 (l)*19 (w)*10 (h) cm

Prism Set

PL-58

There are 58 pcs of prism lens.
Double of the following power.
0.12 0.25 0.25 0.50 0.50 0.75 1.00 1.25 1.50 1.75
2.00 2.25 2.50 2.75 3.00 3.25 3.50 3.75 4.00 4.50
5.00 5.50 6.00 6.50 7.00 7.50 8.00 9.00 10.00
Plastics rim
38MM diameter

VB-15+HB-16

VB-15
Diopter(△):1,2,3,4,5,6,8,10,12,14,16,18,20,25,30
HB-16
Diopter(△):1,2,4,6,8,10,12,14,16,18,20,25,30,35,40,45

LP-16

LP-16H
Loose Prisms(With handle)

LP-16/LP-16H
0.5,1,2,4,6,8,10,12,15,20,25,30,35,40,45,50,RF

LP-22

LP-22H
Loose Prisms(With handle)

LP-22/LP-22H
0.5,1,2,3,4,5,6,7,8,9,10,12,14,16,18,20,25,30,35,40,45,50,RF

Trial Lens Set

Progressive Trial Lens

JS-22

Progressive Trial Lens:
Lens diameter 36mm.

Metal rim , rim diameter is 38mm

22pcs progressive lens

ADD 1.00 1.25 1.50 1.75 2.00 2.25   2.50 2.75   3.00   3.50

Each power 2pcs inside .

Trial Lens Set

Aluminum case and Metal Rim

Trial lens set	68PCS
Spheres	28 pairs each of concave and convex
Cylinders	12 pairs each of concave or convex

JSQ-68

68pcs,Metal Rim,Aluminium Case

SLC-158

158pcs,Plastic Rim,Aluminium Case

JSQ-158

158pcs,Metal Rim,Aluminium Case

Leather/aluminum case and metal/plastic rim available

Trial lens set	158PCS
Spheres	25 pairs each of concave and convex
Cylinders	12 pairs each of concave and convex
Prisms	4 pieces
Accessories	6 pieces
Cross cylinder	x0.25

Trial Lens Set

SLC-232

232pcs,Plastic Rim,Aluminium Case

JSQ-232

232pcs,Metal Rim,Aluminium Case

JSC-232

Colourful Metal Rim Aluminium Case

Leather/aluminum case and Plastic Rim/Colourful Metal Rim can be available

Trial lens set	232PCS,Colourful Metal
Spheres	35 pairs each of concave and convex
Cylinders	17 pairs each of concave and convex
Prisms	12 pieces
Accessories	12 pieces
Cross cylinder	x0.25,x0.25

JSQ-266

266pcs,Metal Rim,Aluminium Case

SLC-266

266pcs,Plastic Rim,Aluminium Case

JSC-266

Colourful Metal Rim Aluminium Case

Leather/aluminum case and Plastic Rim/Colourful Metal Rim can be available

Trial lens set	266PCS,Colourful Metal
Spheres	40 pairs each of concave and convex
Cylinders	20 pairs each of concave and convex
Prisms	12pieces
Accessories	14 pieces
Cross cylinder	x0.25,x0.25

Trial Frame

TF-A

Material:Abs
PD option: 52/54/56/58/60/62/64/66/68/70
Lens Holders:4pcs/side
Color: Grey or colorful

TF-T

Material:Titanium
PD option: 52/54/56/58/60/62/64/66/68/70
Lens Holders:4pcs/side

AF-4880

Material:Metal
PD adjustable range: 48~80mm
Lens Holders:4pcs/side

AF-4880A

Material:Metal
PD adjustable range: 48~80mm
Lens Holders:4pcs/side

STF-5470

Material:Titanium
PD adjustable range: 54~70mm
Lens Holders:4pcs/side

UTF-5080

Material:Metal
PD adjustable range: 50~80mm
Lens Holders:5pcs/side

AF-5080

Material:Metal
PD adjustable range: 50~80mm
Lens Holders:5pcs/side

TF-R

Material:Plastic
PD adjustable range: 48 or 80mm
Lens Holders:4pcs/side

Accessories

Progressive Trial Frame

TF-P

PD option: 52/54/56/58/60/62/64/66/68/70

TF-TP

PD option: 58/60/62/64/66

Trial Clip

Imitative Eye

TC-1

IE-1

Retinoscopy Board Lens
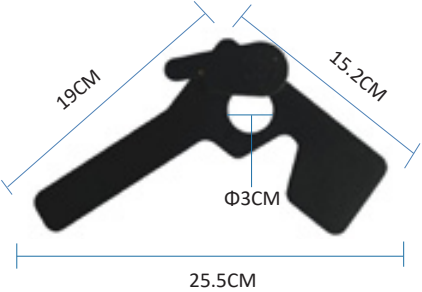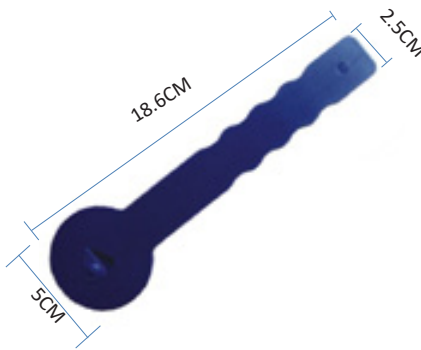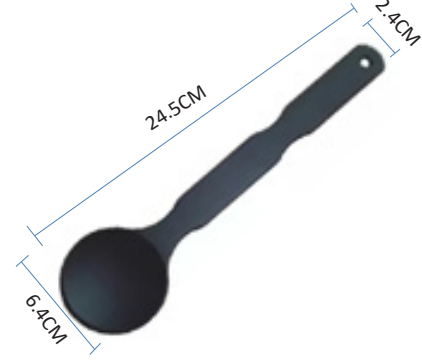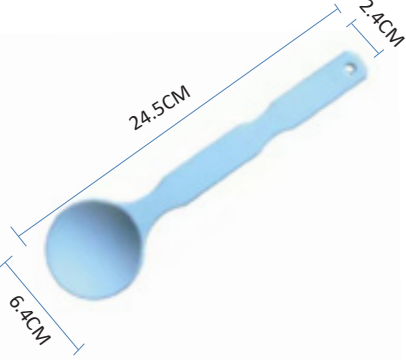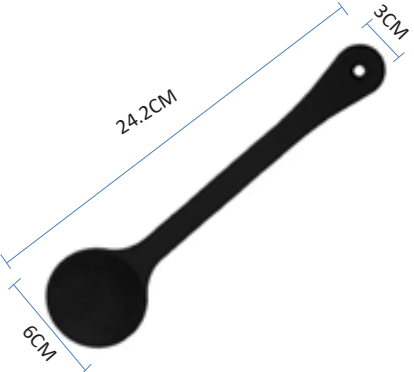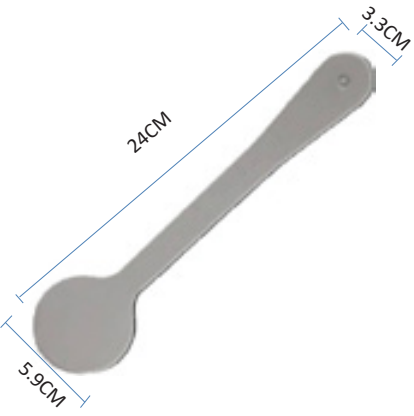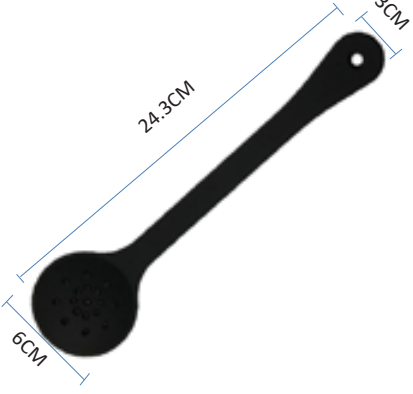
BL-1

0.50D 1.00D 1.50D 2.00D 2.50D 3.00D 3.50D 4.00D
5.00D 6.00D 7.00D 8.00D 9.00D 10.00D 12.00D 15.00D

BL-2

Hand Occluder

HO-1

Multi-Pinhole Occluder

19CM · 15.2CM · Φ3CM · 25.5CM

HO-2

18.6CM · 2.5CM · 5CM

HO-3

Black

24.5CM · 2.4CM · 6.4CM

HO-3

White

24.5CM · 2.4CM · 6.4CM

HO-3B

24.5CM · 2.5CM · 6.4CM

HO-4

Black or White

24.2CM · 3CM · 6CM

HO-5

24CM · 3.3CM · 5.9CM

HO-6

With holes

24.3CM · 3CM · 6CM

HO-7

Hand Occluder and Maddox Test

6cm · 5.3cm · 22cm

Optical Flipper and so on

Optical Flipper

| FL-1 | FL-2 | FL-3 | FL-4 |

Red and Green / Coss Cylinder

| FL-5 | RG-2 | CC-1 | CC-1 |
| | | With box | Without box |

Maddox Test / Four-Point Light
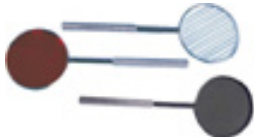
| MT-1 | MT-2 | SGN 101 |

Ishihara Book 38 Places / Polarized Lens / Lens Holder Stand

| ISHI-38-2 | PL-1 | ST-1 |

Chin Rest

CR-1-CR-5
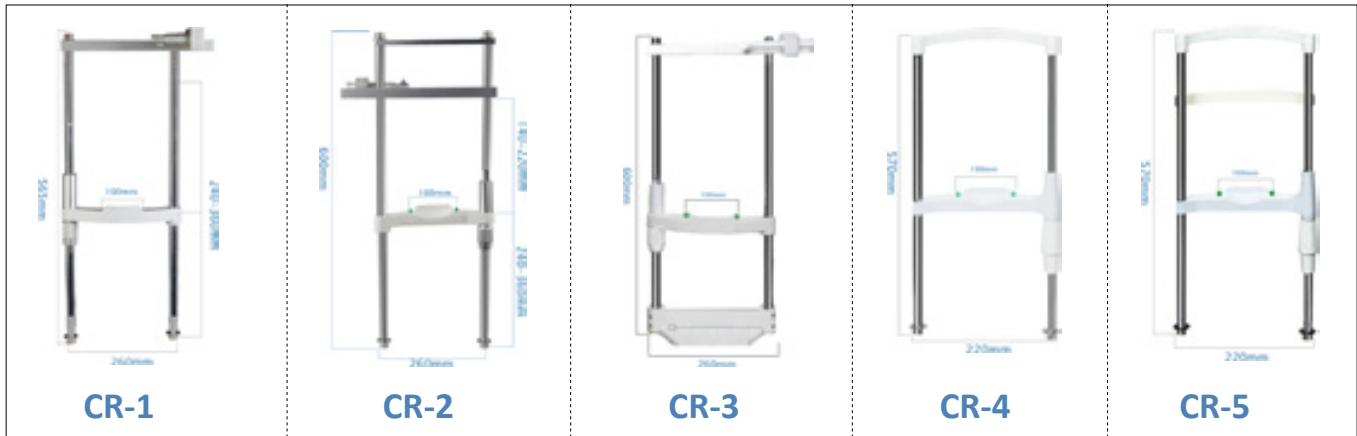
| CR-1 | CR-2 | CR-3 | CR-4 | CR-5 |

Specifications

Model	CR-1	CR-2	CR-3	CR-4	CR-5
Height	StyleA:600mm	StyleB:565mm		570mm	
Width	260mm			220mm	
Lifting pitch	95mm				
Base to chin rest distance	240-360mm		260-355mm		260-355mm
Chin to head distance	140-220mm		105-200mm		
Material	Plastic ,aluminum ,alloy				
Weight	2.5kg		2.4kg	1.35kg	1.4kg

CR-6-CR-10

| CR-6 | CR-7 | CR-8 | CR-9 | CR-10 |

Specifications

Model	CR-6	CR-7	CR-8	CR-9
Height	570mm		610mm	
Width	220mm		200mm	
Lifting pitch	95mm			
Base to chin rest distance	260-355mm		110-210mm	
Chin to head distance	105-200mm		270-400mm	
Material	Plastic, aluminum, alloy			
Weight	2.2kg	1.7kg	1.42kg	1.81kg

Model	CR-10
Width	210mm
The height of the headrest to the bracket surface	385mm
Headrest to the ground	440mm
Chin to the headrest of the head	150-220mm
Bracket thickness	50mm
Bracket face width	110mm

Handheld Slit Lamp

PL-200

Features

◆ Small and Light weight.
◆ High Luminance White LED.

Specifications

Microscope Type	Converging Microscope
Objective Magnifications	2 step magnifications
Magnifications	10x, 16x
Diopter Adjustment	±7D
Pupil Distance	45mm-70mm
Working Distance	60mm
Slit Width	0-10mm continuously adjustable
Diamater of Light Spot	1mm, 3mm, 5mm, 10mm
Filter	Heat absorption, Grey, red-free, Cobalt Blue
Slit Angle	±30°
Light Source	LED
Maximal Illumination	≥30000Lx
Power	7.4V 2200mA Li Battery ,Rechargable
Working Time	2A batteries (more than 2 hrs working life
Packing Volume	216mm*100mm*225mm
Net Weight	900g

PL-300

Features

◆ Controllable illumination from maximum to zero.
◆ Enhanced portability during examination.

Specifications

Microscope Type	Converging Microscope
Objective Magnifications	2 step magnifications
Magnifications	10x, 16x
Diopter Adjustment	±8D
Pupil Distance	50mm-75mm
Working Distance	60mm
Slit Width	0 --12mm continuously adjustable
Diamater of Light Spot	0.2mm,1mm,5mm,12mm
Filter	Color temperature compensation,redfree, cobalt blue
Slit Angle	±30°
Light Source	LED
Maximal Illumination	≥3000Lx
Power	7.4V 2200mA Li Battery
Working Time	2A batteries (more than 2 hrs working life
Packing Volume	216mm*100mm*225mm
Net Weight	900g

Handheld Slit Lamp & Slit Lamp

Loudly

HSL-600

Handheld Slit Lamp

High magnification and real-time display

High definition image and stable performance

Easy operation, fast and smooth capture

Professional optical design and large view

Features

- High definition and stable image.
- With Wifi function and Micro SD memory card.
- White LED illumination.
- Easy one-handed operation and excellent portability.

Specifications

Magnification	10X
Working distance	80mm
Slit width	0-12mm continuously adjustable
Aperture diameter	0.2mm, 1mm, 5mm, 12mm
Filter	Heat-absorption, Red-free, Cobalt blue
Light source	White LED/IR
Image resolution	1920*1080
Screen	3.5" color
Power supply	3.7V Lithium Battery
Interface	Mini USB/Wifi
Weight	580g
Size	140mm*118mm*225mm

LS-3

Slit Lamp

Features

- Parallel type, Galilean system
- Haag-Streit type slit lamp with broad beam, wide field and high depth of field
- 3 step magnification
- Interface for laser and applanation tonometer reserved

Specifications

Microscope	LS-3	Slit image lengh	1mm - 14mm continuously adjustable
Ilumination Type	Haag Streit Type	Slit image angel	0- 180°coninuously adjustable
Microscope type	Parallel type. Galilan system	Illumination tilting	5° 10° 15° 20°
Magnification changer	Revolving drum	Slit aperture size	φ14 φ10 φ5 φ3 φ1 φ0.2 (mm) & 1~14mm
Eyepiece	12.5X		continuously
Magnification	10x 16X 25X	Filter	Heat absorption, Grey. Redfree (green). Cobalt blue
Visual Field Diameter	6X:33mm 10X:22mm 16X:14mm	Fixation	Red LED 3.5V
	25X-8.5mm 40X:5 .5mm	Illumination	German OSRAM Halogen 12V30W
Diopter	-7D~+7D	Image collector	None
Pupil range	52mm ~ 82mm	Background illumination	None
Brightness	Continuously adjustable	Input power	70VA
Slit image width	0mm - 14mm continuously adjustable	G/Weight	23kgs

Slit Lamp

LS-4

Features

- Parallel type, Galilean system
- Haag-Streit type slit lamp with broad beam,wide field and high depth of field
- 5 step magnification
- Interface for laser and applanation tonometer reserved.

Specifications

Microscope	LS-4
Ilumination Type	Haag Streit Type
Microscope type	Parallel type. Galilan system
Magnification changer	Revolving drum
Eyepiece	12.5X
Magnification	6X 10X 16X 25X 40X
Visual Field Diameter	6X:33mm 10X:22mm 16X:14mm
	25X-8.5mm 40X:5 .5mm
Diopter	-7D~+7D
Pupil range	52mm ~ 82mm
Brightness	Continuously adjustable
Slit image width	0mm - 14mm continuously adjustable
Slit image lengh	1mm - 14mm continuously adjustable
Slit image angel	0- 180°coninuously adjustable
Ilumination tilting	5° 10° 15° 20°
Slit aperture size	φ14 φ10 φ5 φ3 φ1 φ0.2 (mm) & 1~14mm
	continuously
Filter	Heat absorption, Grey. Redfree (green). Cobalt blue
Fixation	Red LED 3.5V
Illumination	German OSRAM Halogen 12V30W
Image collector	None
Background illumination	None
Input power	70VA
G/Weight	23kgs

Slit Lamp

YZ-5J

Features

◆ Tow-step magnifications: 10×,16× .

◆ Optical lenses are moisture-proof, mildew-proof and anti-reflection treated.

◆ Excellent optical performance.

◆ Convenient and compact.

Specifications

Microscope Type	Converging stereoscope microscope
Eye Piece	10x
Magnifications (Field of View)	10x(φ18mm),16x(φ14.5mm)
Pupilary Adjustment	55 mm~82 mm
Diopter Adjustment	±6D
Slit Width	0~9mm adjustable
	(slit is round when the slit width is 9mm)
Slit Height	1mm~8mm adjustable
Slit Angle	0°~180° adjustable
Slit Inclination	5°, 10°, 15°, 20°
Diameter of Light Spot	φ9mm, φ8mm, φ5mm, φ3mm, φ2mm, φ1mm, φ0.2mm
Filter	Heat Absorption, grey, red-free, cobalt blue
Illumination Bulb	12V/30W Halogen Bulb
Input Voltage	AC 220V/110V±10%
Packing Volume	720 mm*495 mm*480 mm
Total Weight	23 Kg

Slit Lamp

YZ-5F

Features

- Converging stereoscope microscope provides the clear images.
- Imported Schott optics from Germany reduces optical distortion, Increases clarity and depth of focus.
- All the optical lenses are moistureproof, mildewproof and anti-reflected treated.

Specifications

Microscope Type	Converging stereoscope microscope
Objective Magnification	Two Steps Magnifications
Eyepiece	10x and 16x
Magnifications(Field of View)	10x(φ18mm),16x(φ14.5mm) 16x(φ11.25mm),25.6x(φ9mm)
Pupil Distance	10x Eye Piece 55mm~82mm 16x Eye Piece 51mm~78mm
Diopter Adjustment	10x Eye Piece ±8D 6x Eye Piece ±10D
Slit Width	0~9mm adjustable
	(slit is round when the slit width is 9mm)
Slit Height	1mm~8mm adjustable
Slit Angle	0°~180° adjustable
Slit Inclination	5°, 10°, 15°, 20°
Diameter of Light Spot	φ9mm, φ8mm, φ5mm, φ3mm, φ2mm, φ1mm, φ0.2mm
Filter	Heat Absorption, grey, red-free, cobalt blue
Illumination Bulb	12V/30W Halogen Bulb
Input Voltage	AC 220V/110V±10%
Packing Volume	720 mm*495 mm*480 mm
Total Weight	23 Kg

Slit Lamp

YZ-5X

Features

- ◆ Advanced converging stereoscopic microscope.
- ◆ 14mm Aperture provides broader and clearer field of view.
- ◆ Compact and flexible structure ensures the convenient use.

Specifications

Microscope Type	Converging stereoscope
Objective Magnification	Two steps magnifications
Eye Piece	10x
Magnifications (Field of View)	10x(φ 18mm), 16x(φ 14.5mm)
Pupil Distance	55mm~82mm
Diopter Adjustment	±6D
Slit Width	0mm~14mm adjustable (slit is round when the slit width is 14mm)
Slit Height	1mm~14mm adjustable
Slit Angle	0° ~180° adjustable
Diameter of Light Spot	φ 14mm, φ 9mm, φ 5.5mm, φ 0.3mm
Slit Inclination	None
Filter	Heat Absorption, Redfree, Cobalt Blue
Illumination Bulb	6V20W Halogen Bulb
Input Voltage	AC110-220V
Total Weight	23Kg
Packing Volume	720mm*495mm*480mm

Slit Lamp

S260(LED)/S260S(LED) /S280S

Features

◆ Slit Lamps provide rotational drums for doctors to switch between different magnifications.

◆ The scales are engraved by laser and durable for long time use.

◆ S260 offers 5 magnifications (6X,10X,16X,25X40X).

◆ S260S/S280S offers 3 magnifications (10X,16X,25X).

Specifications

Model		S260/260S	S280S
Microscope	Microscope Type	Galilean Type	
	Magnification Change	Revolving Drum (3 or 5 steps)	
	Total Magnification	10X, 16X, 25X ; 6X, 10X, 16X, 25X, 40X	
	Eyepieces	12.5X	
	Angle between Eyepieces	13°	
	Pupillary Adjustment	52mm-78mm	
	Diopter Adjustment	±6D	
	Field of View	Ø34.7mm, Ø22mm, Ø13.5mm, Ø8.5mm, Ø5.5mm (S260)	
		Ø22mm, Ø13.5mm, Ø8.5mm (S260S/S280S)	
Slit Illumination	Slit Width	0~14mm continuous (slit becomes a circle at 14mm)	
	Slit Length	1~14mm continuous	
	Aperture Diameters	Ø14mm, Ø8mm, Ø3.5mm, Ø0.5mm	
	Slit Angle	0°~180°	
	Filters	Heat-absorbing filter, Red-free filter, Cobalt Blue filter	
	Lamp	3V LED Module (S260); 6V/20W Halogen Lamp (S280S)	
	Luminance	≥60KLX (S260/S260S); ≥50KLX (S280S)	
Instrument Base	Longitudinal Movement	110 mm	
	Lateral Movement	110 mm	
	Vertical Movement	30 mm	
	Fine Base Movement Chin-rest	15 mm	
	Vertical Movement	80 mm	
	Fixation	LED	
Power supply	Input Voltage	220V/110V~±10%	
	Input Frequency	50HZ/60HZ	
	Power Consumption	10 VA (S260/S260S); 30 VA (S280S)	
	Output Voltage	lamp 6V,Fixation 3V	
	Dimension	770mm*470mm*0570mm (L/W/H)	
	Gross weight/Net weight	23kg/15kg	

Slit Lamp

S350 /S350S /S360 (LED)/S360S (LED)

Features

◆ S350 Slit Lamps provide rotational drums for doctors to switch between different magnifications.

◆ The scales are engraved by laser and durable for long time use.

◆ S350/S360 offers 5 magnifications (6X,10X,16X,25X40X).

◆ S350S/S360S offers 3 magnifications (10X,16X,25X).

Specifications

	Model	S350 /S350S	S360 /S360S
Microscope	Microscope Type	Galilean Type	
	Magnification Change	Revolving Drum(5 or 3 steps)	
	Total Magnification	6X, 10X, 16X, 25X, 40X	10X, 16X, 25X
	Eyepieces	12.5X	
	Angle between Eyepieces	13°	
	Pupillary Adjustment	52mm-78mm	
	Diopter Adjustment	±6D	
	Field of View	Ø34.7mm, Ø22mm, Ø13.5mm, Ø8.5mm, Ø5.5mm (S360/S350)	
		Ø22mm, Ø13.5mm, Ø8.5mm (S360S/S350S)	
Slit Illumination	Slit Width	0~14mm continuous (slit becomes a circle at 14mm)	
	Slit Length	1~14mm continuous	
	Aperture Diameters	Ø14mm, Ø10mm,Ø5mm, Ø3mm, Ø2mm,Ø1mm,Ø0.2mm	
	Slit Angle	0°~180°	
	Filters	Heat-absorbing filter, ND filter,Red-free filter, Cobalt Blue filter	
	Lamp	6V/20W Halogen Lamp	
	Luminance	≥50KLX (S350/S350S); ≥60KLX (S360/S360S)	
Instrument Base	Longitudinal Movement	110 mm	
	Lateral Movement	110 mm	
	Vertical Movement	30 mm	
	Fine Base Movement Chin-rest	15 mm	
	Vertical Movement	80 mm	
	Fixation	LED	
Power supply	Input Voltage	220V/110V~±10% (50HZ/60HZ)	
	Power Consumption	30 VA	
	Output Voltage	lamp 6V,Fixation 3V	
	Dimension	770mm*470mm*570mm (L/W/H)	
	Gross weight/Net weight	24kg/ 16kg	

Digital Slit Lamp

LS-5

Features

◆ Outstanding Optic Quality Ensure the Comfortable View

◆ Precision Machining Makes the Smooth and Flexible Movement

◆ Professional & Multifunctional Software With Simple Humanized Human-computer Interface & Easy Operation

◆ Have both image capturing function and video capturing function

◆ Image processing for better Symptoms Diagnose

◆ Backup patient data base easily guarantee data salety

◆ Highest Quality Images Captured Which Impressive Every User

◆ Aspecial designed black cross in right eyepiece which enable to synchronise the image sharpness in eyepiece and LCD.Ensure what you see,what you get.

Specifications

Microscope	LS-5
Illumination Type	Haag Streit Type
Microscope type	Parallel type. Galilan system
Magnification changer	Revolving drum
Eyepiece	12.5X
Magnification	6X 10X 16X 25X 40X
Visual Field Diameter	6X:33mm 10X:22mm 16X:14mm 25X-8.5mm 40X:5 .5mm
Diopter	-7D~+7D
Pupil range	52mm ~ 82mm
Brightness	Continuously adjustable
Slit image width	0mm - 14mm continuously adjustable
Slit image lengh	1mm - 14mm continuously adjustable
Slit image angel	0- 180°coninuously adjustable
Ilumination liting	5° 10° 15° 20°
Slit aperture size	φ14 φ10 φ5 φ3 φ1 φ0.2 (mm) & 1~14mm continuously
Filter	Heat absorption, Grey. Redfree (green). Cobalt blue
Fixation	Red LED 3.5V
Illumination	German OSRAM Halogen 12V30W
Image collector	DSLR
Background illumination	Coaxial
Case storage	Conigured
Software	Conigured
Input voltage	100V- 240V 48 - 62Hz
Input power	300VA
Extenal packing	Carton box
Dimension	740*640*450mm
G/Weight	27kgs

Digital Slit Lamp

LS-6

Features

◆ High definition professional DSLR,18M pixel

◆ Adopt high definition slit lamp

◆ Easy to use, High Cost Effective

◆ LED Non-coaxial (independent) and removable background ilumination operation.

◆ Diaphragm on beam sliter makes wonderful images captured

Iris posterior synechia

Anterior chamber hyphema

Subconjunctival haemorrhage
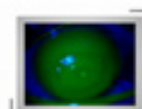
Cornea Fluorescein

Anterior chamber intraocular lens

Nuclear cataract

Specifications

Microscope	LS-6
Illumination Type	Haag Streit Type
Microscope type	Parallel type. Galilan system
Magnification changer	Revolving drum
Eyepiece	12.5X
Magnification	6X 10X 16X 25X 40X
Visual Field Diameter	6X:33mm 10X:22mm 16X:14mm
	25X-8.5mm 40X:5 .5mm
Diopter	-7D~+7D
Pupil range	52mm ~ 82mm
Brightness	Continuously adjustable
Slit image width	0mm - 14mm continuously adjustable
Slit image lengh	1mm - 14mm continuously adjustable
Slit image angel	0- 180°coninuously adjustable
Ilumination liting	5° 10° 15° 20°
Slit aperture size	φ14 φ10 φ5 φ3 φ1 φ0.2 (mm) & 1~14mm
	continuously
Filter	Heat absorption, Grey. Redfree (green). Cobalt blue
Fixation	Red LED 3.5V
Illumination	German OSRAM Halogen 12V30W
Image collector	DSLR
Background illumination	Non-coaxial
Case storage	Conigured
Software	Conigured
Input voltage	100V- 240V 48 - 62Hz
Input power	300VA
Extenal packing	Carton box
Dimension	740*640*450mm
G/Weight	27kgs

Digital Slit Lamp

S350DC

Specifications

Microscope	Microscope Type	Galilean Type
	Magnification Change	Revolving Drum(5 or 3 steps)
	Total Magnification	6X, 10X, 16X, 25X, 40X
	Eyepieces	12.5X
	Angle between Eyepieces	13°
	Pupillary Adjustment	52mm-78mm
	Diopter Adjustment	±6D
	Field of View	Ø34.7mm(6X),Ø22mm(10X), Ø13.5mm(16X). Ø8. 5mm(25X) Ø5.5mm(40X)
Slit Illumination	Slit Width	0~14mm continuous (slit becomes a circle at 14mm)
	Slit Length	1~14mm continuous
	Aperture Diameters	Ø14mm, Ø10mm,Ø5mm, Ø3mm, Ø2mm,Ø1mm,Ø0.2mm
	Slit Angle	0°~180°
	Silt Inclination	5°, 10°, 15°, 20°
	Filters	Heat-absorbing filter, ND filter,Red-free filter, Cobalt Blue filter
	Lamp	6V/20W Halogen Lamp
	Luminance	≥50KLX (S350/S350S); ≥60KLX (S360/S360S)
Instrument Base	Longitudinal Movement	110 mm
	Lateral Movement	110 mm
	Vertical Movement	30 mm
	Fine Base Movement Chin-rest	15 mm
Chin-rest	Vertical Movement	80 mm
	Fixation	LED
Power supply	Input Voltage	220V/110V~±10% (50HZ/60HZ)
	Input Frequency	50Hz/60Hz
	Power Consumption	30 VA
	Output Voltage	lamp 6V,Fixation 3V
Packing	Dimension	770mm*470mm*570mm (L/W/H)
	Gross weight/Net weight	26kg/ 19kg

Digital Slit Lamp

YZ-5T

Features

- Image processing system is not only a working platform for ophthalmic diagnosis, but also a case database. It can easily capture digital photos of the cornea, sclera,anterior chamber, iris, lens, retina and set up patients files and effectively manage them.
- What doctors see from eyepieces is showed synchronously on camera display screen, which is very convenient for the doctors to capture the best and clearest pictures.
- Photos taken by the 12.4 megapixel camera.
- Background illumination specifically designed for darkroom environment.
- Fine photos immediately taken by the button on joystick.
- Used for establishing the full data of patients, processing images, measuring the length, area and so on.

Specifications

Microscope Type	Galilean stereoscopic microscope
Magnification	5-step drum magnifications
Eyepiece	12.5X
Magnification Ratio(Field of View)	6 x (33mm) ,10x (22.5mm), 16x (14mm), 25x (8.8mm), 40x (5.5mm).
Rangeof PupilDistance	45 mm~75 mm
Adjustment of Diopter	5D ~+3D
Slit Width	0mm~14mm adjustable (slit is round when the slit width is 14mm)
Slit Height	1mm~14mm adjustable
Aperture Diameter	φ14mm,φ10mm,φ5mm,φ2mm,φ1mm,φ0.2mm
Slit Angle	0°~180° adjustable
Slit Inclination	5°,10°,15°,20°
Filter	Heat absorption, grey, redfree, cobalt blue
Collecting Medium	Digital Single Lens Reflex
llumination Type of Taking Picture	Background llumination
Input Voltage	AC110-220V
Illumination Bulb	12v30w Halogen Bulb
Maxial Illuminance	≥280000 Lx
Preceding Mirror	-58.7D
lluminations Type of Filming	Background Light

YAG Laser & Accessories for Slit Lamp Microscope

MD-920

YAG Laser

Features

◆ **Clinical Application**

Utilizing the light-induced explosion of 1064nm laser pulse to tissues, the Device is intended to be used for ophthalmologic lens capsulotomy, incision or excision of iris, vitreous surgery and other clinical surgeries for therapy of the non-pigmented tissue lesions of anterior segment for eyes.

◆ **General Description**

YAG Laser System for Ophthalmology produces 1064nm wavelength laser pulse. The laser pulse and dual-spot aiming beam can position precisely on the ocular tissue to be treated through slit-lamp microscope. The YAG laser energy is concentrated and focused on a spot of about 30μm, producing light-induced explosion effect in the action of such a high optical power density, to dissociate ocular tissue rapidly for a purpose of surgery.

Specifications

Wavelength	1064nm
Pulse Output	1, 2, 3 pulses
Pulse Width	4.5ns
Pulse Repetition Rate	2.5Hz
Spot Size	30um
Aiming Beam Wavelength	630 ~ 680nm

EA-1

Eyepiece Adapter

Features

◆ Converts smart phones into professional digital eyepieces for the traditional optical instruments.

◆ Just attach the equipped smart phone to the slit lamps,microscopes,telescopes, Spotting scope, Binccular or Monccular etc. With built-in camera app, you can take sharp images,capture videos,and then share all information via email,SMS,twitter,facebook.

Specifications

◆ Adjuestable support case dimension makes it avaliable for the most mainstream smart -phones.the sizes of the smart-phones can be from 4" to 5.5".

◆ Ultra–durable Polycarbonate plastic body with aluminum chuck.

◆ Three jaw aluminum chuck design for fast installation,easy operation.

◆ Send out high–res images directly from your phone via email,SMS,twitter or 3rd party apps.

◆ It is designed to work with eyepieces that are 1"–1.8" in diameter (24mm–41mm).

◆ Work with slit lamp,Microscopes,Telescopes,Binoculars,Spotting scopes and other Optical instruments.

20D/78D/90D

Aspheric Lenses

20D	78D	90D

Applanation Tonometer

T/R/X

R Type

30R

T Type

X Type

Features

◆ The product is designed on the principle basis of Goldman tonometer.

◆ R and T type are suitable for aig streit type slit lamp.While X type is suitable for carl zeiss type slit lamp.

Specifications

Model	T R X
Measuring range	0~1064Kpa
Light ring displacement	1.53*2=3.06mm
Diameter of prism head	7mm
Moving range of prism head	3mm

SM-T

Features

◆ **Applanation Tonometer Double-reading design -- Convenient operation**
Digital reading+Mechanical reading.
Synchronous indication of intraocular pressure value.

◆ **Applanation Tonometer Three models optional-- Apply to multi-brand slit lamps.**

Specifications

Measurement Accuracy	≤0.49mN (0.066kpa)
Digital display acuracy	≤0.1mmHg
Measurement range	0-80mmHg (0-10. 64kpa)
Probe movement range	3mm
Duration	≥30 hrs
Battery	1 * CR2450 Button Battery 3V
Weight	450g

Tonometer

YZ-7A

Schiotz Tonometer

Features

- The product is an indentation tonometer,used to measure the intraocular pressupe by measuring the depth produced on the surface of the cornea by a load of a known weight.
- Pressure needle and corneal contact and pedal pipe parts are made of high-quality
- stainless steel, which is Instrument is safety, reliable and practical, non-rust, acid-fast, and have no side effects on the biological tissue can provide accurate measurement, and easy carrying.

SW-500

Rebound Tonometer

Features

- With vertical and horizontal two working modes, wireless output print data.
- The equipment is used to measure intraocular pressure, using the principle of : The probe hits the surfaces of different hardness at a certain speed, has different reaction when the probe rebounds.
- Be of advantages of high accuracy.
- Portable, without anesthesia, without the cross-infection etc.

Specifications

Measuring Range	3mmHg~70mmHg
Measuring Error	± 1.5mmHg (3mmHg≤ Intraocular pressure≤ 25mmHg)
	± 2.5mmHg (25mmHgMeasurement can go along both in standing and lying posture)
	Wireless data printing
	Esay to learn, easy to use
	Light weight and handy
	No anesthesia, avoiding discomfort reaction

Tonometer

Reichert 7

Features

◆ Easy-to-use, touch screen user interface.

◆ One-touch, single or multiple-measurement mode.

◆ Clearly displays all measurement data.

◆ EMR connectivity via USB port.

◆ Internal printer simplifies record keeping.

Specifications

Multiple-measurement mode
Reichert 7 features an all-new, one-touch, multiple-measurement mode that delivers 3 or 4 measurements with a single press. This new feature saves time, increases accuracy, and ensures the highest level of comfort for your patients.

Soft puff and quiet operation
Reichert 7 is designed to make the entire measurement process a comfortable and non-intimidating experience for patients.The instrument features the quietest operation and softest air puff of any NCT available.

Left/Right sliding headrest
A sliding headrest enables easy patient positioning to ensure fast and comfortable measurements. The operator simply slides the headrest to the left or right position and the patient positions their head against the comfortable headrest pad.
Reichert 7 automatically detects which eye is being measured.

Bright LED array for fast fixation
The Reichert 7 nosepiece contains an array of bright LEDs. These provide an obvious visual cue to the patient for fast fixation and alignment, thereby reducing exam time.

Specifications

Height	19.75 in. (50.2 cm)
Width	10.5 in. (26.7 cm)
Depth	14 in. (35.6 cm)
Weight, unpacked	23 lbs. (10.43 kg)
Voltage	100-240 VAC
Frequency	50/60 Hz
Measurement Range	7 - 60 mmHg (ISO 8612 Tonometer Standard)

Portable Auto Keratometer

SW-100

Portable Auto Keratometer

Features

◆ Electronic and optical integration, ultra small corneal curvature tester.

◆ It is mainly used to measure the corneal curvature radius and diopter.

◆ Wireless output print data.

◆ Observe the eyes directly through the screen.

Specifications

Measuring range	6.5~9.5MM
Precision	±0.05MM
Resolution of curvature radius of cornea	0.01MM
Single measuring time	0.03s
Output	Wireless infrared thermal printer
Weight	<0.5KG (with batteries)
Dimension	240*90*60mm

YZ-9

Ophthalmostatometer

Features

◆ The product can precisely measure the level of exophthalmia over the
or bital margins, on the principal basis that both vertexes of cornea and
scaleplate are projected to the front of prism by total reflection on the bevel,
with the special structure of the isosceles right-angled triangle prism.

Specifications

Measuring Range of the Exophthalmia	0~35mm
Adjustable Range of the Orbital Distance	80~120mm

Auto Keratometer

BL-8002

Specifications

Corneal radius of curvature	5.5-11mm
Minimum reading	0.02mm
Corneal refractive power	30-60D
Minimum reading	0.25D
Axis of corneal astigmatism	0 – 180 °
Minimum reading	1°
Diopter adjusting scale	0- ±5dptr.
Illumination Bulb	12V 50W halogen lamp
Voltage/frequency	AC 220-100V (50/60Hz)
Dimensions	450(L)*300(W)*450(H)mm
Weight	16KG

YZ-38

Features

- Surface of cornea, and the axis and diopter of cornea astigmatism. Also, it can measure.
- The diopter of implanting lens assisted by A ultrasonic.

Specifications

Measuring Range	Curvature Radius 5.511mm
Measuring Range	Diopter 30-60D
Minimum Division	Radius 0.02mm
Minimum Division	Diopter 0.25D
Minimum Surface	R=5.5mm φ1.65mm
Area Required by	R=7.5mm φ2.36mm
Measurement	R=11mm φ3.36mm

Direct Ophthalmoscope

YZ-11

Features

◆ Elegant appearance.

◆ It is convenient for mobile inspection.Both common dry.

◆ Cell and rechargeable battery power are applicable.

Specifications

Illumination Form	Large Spot, Middle Spot,Small Spot, Red Free
Diopter Compensation	0 ±1 ±2 ±3 ±4 ±5 ±6 ±8 ±10 +12 ±15 ±20 -25 -35D
Illumination Source	2.6V/0.78W,Incandescent Bulb
Power Supply	2#Alkalescent battery,rechargeable battery

YZ-11D

Features

◆ Imported halogen bulb provides high and adjustable brightness and good color rendering.

◆ Equipped with special charger, quick and convenient recharging, against over recharging.

◆ Anti-recharging and anti-discharging function protects the battery.

Specifications

Illumination Form Large	Spot, Small Spot, Slit,Net,Red Free
Diopter Compensation	0 ±1 ±2 ±3 ±4 ±5 ±6 ±8 ±10 +12 ±15 ±20 -25 -35D
Illumination Source	3.5V/2.8W,Halogen Bulb
Power Supply	Li Battery Pack 3.7V,Rechargeable
Input Voltage	AC220V±22V/50Hz, AC110V±11V/60Hz

Direct Ophthalmoscope

YZ-6H

Features

- LED cold light source. It is durable enough with the designed service life of 100000 hours.
- Low heat benefits from the cold light source.
- Imported bulb maintains 3200K color temperature for long time.The illumination is soft and more similar with sunlight.
- Ultraviolet radiation is eliminated to fully protect patient's eyes.
- Even light spot and sharp observed fundus image.
- Soft rubber around the eyeholes protect eyes and stabilize the ophthalmoscope.

Specifications

Illumination Form	Large Spot, Middle Spot,Small Spot, Red Free
Diopter Compensation	0 ±1 ±2 ±3 ±4 ±5 ±6 ±8 ±10+12 ±15 ±20 -25 -35D
Illumination Source	3.5V/1W LED Bulb
Power Supply	AC220V±22V/50Hz, AC110V±11V/60Hz

YZ-6G

Features

- Germany imported bulb provides the high color temperature, good color rendering, even light spot and sharp image.
- Complete types of light spots and filters meet various observation requirements.
- Soft rubber around the eyeholes protect user's eyes and stabilize the ophthalmoscope.
- New functions of soft starting and automatic turn-off extend the service life of bulb.
- Convenient to place and easy to operate. YZ6F replaced on the tabletop and YZ6G mounted on the wall.

Specifications

Illumination Form	Large Spot, Small Spot, Slit, Net, Red Free
Diopter Compensation	0 ±1 ±2 ±3 ±4 ±5 ±6 ±8 ±10 +12 ±16 ±20 -25 -35D
Illumination Source	3.5V/2.8W, Halogen Bulb
Input Voltage	AC220V±22V/50Hz, AC110V±11V/60Hz

Indirect Ophthalmoscope

YZ-25C

Features

- ◆ LED bulb(low-temperature,low-pressure,high-brightness) with long lifetime to make the illumination uniformly and bright. The illumination brightness can be adjusted continuously.
- ◆ Imaging clearly,strong dimensional sense and large field of view range.The main body part of this device adopts engineering plastics and is designed to be compact and exquisite.
- ◆ Super lightweight design, reduce fatigue,operation is very convenient.
- ◆ The portable power supply is suitable for surgery, ward round and consultation.
- ◆ This device is equipped with color filter,teaching mirror and sclera depressor to be more handy in operation.

Indirect Ophthalmoscope

Specifications

Type	Head binocular non-contact ophthalmoscope
Working distance	50.5mm
Pupillary distance	52-74mm
Lathe-hedd	520-640mm
Light spots	Three spots,Large, middle and small
Filters	No red,colorless,cobalt blue
Illumination Source	LED Bulb
Main part's dimension	142*48*128mm
Power Supply	Internal power supply: lithium battery DC7. 4V;
	Charger power supply: AC100-240V 50 60Hz; 280g
Main part's weight	280g
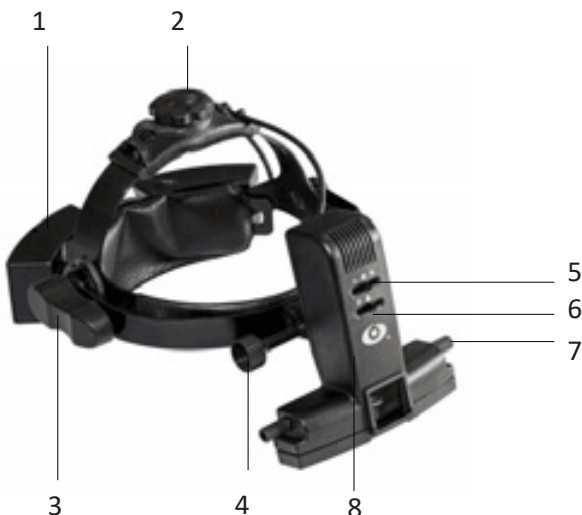
1.	Power control module
2.	Vertical knob
3.	Cir-cum knob
4.	Battery box module
5.	Aperture control
6.	Filter control
7.	Ocular
8.	Optical unit

Streak Retinoscope

YZ-24

Features

- The well positioned filament can be rotated 360° and move upward and downward. Brightness of the streak can be adjusted.
- Quickly and precisely measure the astigmatism axis.
- The light can be converged, radiated and paralleled.
- Automatic turning off effectively protects the bulb.
- Two-steps adjustable illumination: S(Bright),W(Dark)

Specifications

Working Distance	1m
Adjustable Range of Streak	3mm-20mm
Streak Rotation	360°
Illumination Source	3V/2.1W,Halogen Bulb
Power Supply	AC 220-100V (50/60Hz)

YZ-24B

Features

- Quickly and precisely measure the astigmatism axis.
  The light can be converged, radiated and paralleled.
- Continuously adjustable brightness.
  Anti-recharging function protects the battery.
- Can also be connected with the head of ophthalmoscope.

Specifications

Working Distance	0.67m
Streak	3mm-20mm
Illumination Source	3.5V/2.8W halogen bulb
Streak Rotation	360°
Input Voltage	AC 220-100V (50/60Hz)
Power	Li+ battery pack DC: 3.7V

Opthalmoscope & Retinoscope

Loudly

YZ24B+YZ11D

Two handle

Features

- Imported halogen bulb provides high and adjustable brightness and good color rendering.
- Equipped with special charger, quick and convenient recharging, against over recharging.
- Anti-recharging and anti-discharging function protects the battery.

Specifications

Illumination Form	Large Spot, Small Spot, Slit,Net,Red Free
Diopter Compensation	0 ±1 ±2 ±3 ±4 ±5 ±6 ±8 ±10 +12 ±15 ±20 -25 -35D
Illumination Source	3.5V/2.8W,Halogen Bulb
Power Supply	Li+ Battery Pack 3.7V,Rechargeable
Input Voltage	AC220V±22V/50Hz, AC110V±11V/60Hz

Features

- Quickly and precisely measure the astigmatism axis.
- The light can be converged, radiated and paralleled.
- Continuously adjustable brightness.
- Anti-recharging and anti-discharging function protects the battery.
- Can also be connected with the head of ophthalmoscope.

Specifications

Working Distance	0.67m
Streak	3mm-20mm
Illumination Source	3.5V/2.8W halogen bulb
Streak Rotation	360°
Input Voltage	AC220-110V (50/60Hz)
Power(Main Body of Ophthalmoscope)	Li+ battery pack DC: 3.7V

One handle

Ophthalmoscope+ Retinoscope

DR-1900

Features

◆ 3.5V Coaxial Ophthalmoscope.

◆ 3.5V Streak Retinoscope.

Specifications

3.5V Coaxial Ophthalmoscope	
Diopter	0D, ±1D, ±2D, ±3D, ±4D, ±5D, ±6D,±7D, ±8D,
	±9D, ±10D, +12D, ±15D, ±20D,-25D,+40D
Aperture	Large aperture,
	Small aperture,
	Micro aperture,
	Slit aperture,
	Cobalt blue aperture,
	Fixation aperture.
Filter	Red free filter / Polarizing filter
Bulb	3.5 V 2.7 W
Operation mode	Intermittent, On-time should not exceed 2 mins with
	Off-time not less than 5 mins

Specifications

3.5V Streak Retinoscope	
Rotation	≥ 190°
Distance from the device to which the real imagea of the lamp filament is adjustable	≤ 450 mm
Distance from the device to which the virtual imagea of the lamp filament is adjustable	≤ 450 mm
Length of streak imageb	≥ 30 mm
Width of streak imageb	≤ 1.5 mm
Deviation from linearity of the streak image at the focusb	≤ 2 mm
Rotation decentring of centre of streak imageb	≤ 10 mm
A All distances are measured from the light exit of the device	
B When focus at 500 mm	
Electrical Specifications	
Bulb	3.5 V 2.7 W
Operation mode	Intermittent, on-time should not exceed 2 min with off-time not less than 5 min

Ophthalmoscope+ Retinoscope

DW-1100

Features

◆ 3.5V Coaxial Ophthalmoscope.

◆ 3.5V Streak Retinoscope.

◆ 485 Wall Mount Transformer with 485 wall extension unit.

Specifications

3.5V Coaxial Ophthalmoscope	
Diopter	0D, ±1D, ±2D, ±3D, ±4D, ±5D, ±6D,±7D, ±8D, ±9D, ±10D, +12D, ±15D, ±20D,-25D,+40D
Aperture	Large aperture,
	Small aperture,
	Micro aperture,
	Slit aperture,
	Cobalt blue aperture,
	Fixation aperture.
Filter	Red free filter / Polarizing filter
Bulb	3.5 V 2.7 W
Operation mode	Intermittent, On-time should not exceed 2 mins with Off-time not less than 5 mins

Specifications

3.5V Streak Retinoscope	
Rotation	≥ 190°
Distance from the device to which the real imagea of the lamp filament is adjustable	≤ 450 mm
Distance from the device to which the virtual imagea of the lamp filament is adjustable	≤ 450 mm
Length of streak imageb	≥ 30 mm
Width of streak imageb	≤ 1.5 mm
Deviation from linearity of the streak image at the focusb	≤ 2 mm
Rotation decentring of centre of streak imageb	≤ 10 mm
A All distances are measured from the light exit of the device	
B When focus at 500 mm	
Electrical Specifications	
Bulb	3.5 V 2.7 W
Operation mode	Intermittent, on-time should not exceed 2 min with off-time not less than 5 min

Light Bulb

Halogen Lamp—LB11

Fit for YZ-11
Opthalmoscope

Halogen Lamp—LB11D6G

Fit for YZ-11D; YZ-6G
Opthalmoscope

Halogen Lamp—LB24

Fit for YZ-24
Rethoscope

Halogen Lamp—LB24B

Fit for YZ-24B
Rethoscope

Halogen Light—LB19111

Fit for DR-1900; DW-1100
Opthalmoscope

LED Light—LB19112

Fit for DR-1900; DW-1100
Opthalmoscope

Halogen Light—LB19113

Fit for DR-1900; DW-1100
Rethoscope

LED Light—LB19114

Fit for DR-1900; DW-1100
Rethoscope

Eyesight Improver & Synoptophore

LD-N1202N/LD-N1202H

Eyesight Improver

Features

◆ Video input: You can input PAL or NTSC format analog video signal;

◆ HDML video signal;video files on mobile storage devices.

Specifications

Screen definition	480*240
Distance of Visual line	≤70mm
Input Power	≤15VA
Video Input	PAL or NTSC format, Input
	Voltage ≤0.5-1.2Vp-p,HDMI signal input.
Power	AC220V or AC110V
Power adaptor output	DC12V, 1.25A
Audio	Dual input; input voltage<0 5-3V;
	playing2 x 2W stereo sounds.
Body Tilt Angle	-10°~ 45°
Fuse number	M-060 (16V 1.1A fuse patch)
Power adaptor fuse number	250V 1A

YZ-23B

Synoptophore

Features

◆ Diagnosis and treatment combined with the functions of simultaneous perception, fusion,stereopsis, red reflex and after-image.

◆ Equipped with a pair of Haidingers Brush and 20 pairs of pictures with different functions.

◆ Using transflective reflector in the design of viewing system to facilitate the user to observe ocular position.

◆ Using advanced LED light in the illumination with even illumination, low heat and long service life.

◆ Pictures designed by new technology are anti-broken and has long service life.

◆ Manual or automatic coruscation with accurate frequency and various type is at user's option.

◆ Optional pictures are provided for quantitative measuring of stereopsis acuity (40"~1000").

Specifications

Magnification	1.65×
Diameter of Field	≥56mm
Red Light	λ = 640nm coruscation system
Pictures of left and right can be moved up and down according optical axis	±10Δ
Pictures of left and right rotate around optical axis	±20°
Pupilary Adjustment	45~75mm
Darkroom Illumination	LED bulb with symmetry design
Adjustable Haidingers Brush	50~100 round/minute
Coruscation Form	Manual or automatic
Automatic Coruscation Frequency	10-Steps, 30~300 times/minute
Range of Automatic Coruscation (each cycle)	1/4 on 3/4 off, 1/2 on 1/2 off, 3/4 on 1/4 off
Type of Automatic Coruscation	Left and right can be turned on or off at the same time
	Left and right can be turned on or off alternatively
	One on and the other off
	One on or off while the other can be turned on or off

Synoptophore

TSJ-1/TSJ-2

TSJ-1

TSJ-2

Features

◆ **TSJ-1/ TSJ-2 type same-view machine: three-level function check three-level function training white light flashing, red light flashing**

◆ Adjustable distance, adjustment range: 45mm-75mm

◆ Left and right lens barrel (observation tube) can be rotated around the vertical axis, the range of rotation: set 50 °, open 40 °

◆ The picture of the left and right lens barrels can move up and down relative to the optical axis. The moving range is ±6mm.

◆ The chin rest adjustment range: up and down can be adjusted 30mm

◆ Flicker control: flicker frequency: 0.5Hz - 5Hz adjustable Automatic flicker control mode: left and right simultaneously.

> The left and right sides are always on, and the other side is always off or blinking.
>
> The left and right sides are often off and the other side is always lit or flashing.

◆ Auto flashing mode: flickering left and right at the same time or flashing left and right. always bright and often off control:

> Left and right artboard lighting brightness control: left and right light brightness can be adjusted separately.
>
> Left and right drawing board lights work mode: one side is always bright and the other side is often off
>
> Left and right at the same time, always bright or left and right at the same time.

◆ Picture: Each instrument is equipped with 9 pieces of pictures that can be used for three-level function check and training.

Specifications

Light source	5mm LED light tube *10
The use of the environment	Ambient temperature 5 ~ 40 ° C
Relative humidity	No more than 85%
Atmospheric pressure	80.0KPa----106.0KPa
the size	280*240*370
lens barrel adjustment range	320-340mm ± 1mm
Input power	< 50VA
Input voltage	AC220V±10% 50HZ±1HZ

Binocular Loupes

SLE

Binocular Loupes
(with Titanium frame)

SLF

Binocular Loupes
(with sport frame)

SLH

Binocular Loupes
(with headband)

Features

◆ 2.5X is the most popular model. It offers the widest field of view and longest depth of focus.

◆ Multi-coated, high grade glass lenses produce crisp, clear images.

◆ The Loupes which employ eyepiece of very large view field diameter. The depth of focus is deep and object can be seen stereoscopically with actual feeling of distance.

◆ The angle of the loupes can be adjusted between 0°~40° with ease and fatigue is minimized even after prolonged use.

◆ 6mm up and down displacement. Pupil distance can be adjusted individually which could be suited for all kind of faces.

◆ Smart design, convenient for mobile diagnosis.

Specifications

Magnification	Working dstance	Field of view
2.5x	340mm	80mm
2.5x	420mm	100mm
2.5x	460mm	110mm
2.5x	500mm	120mm
Magnification	Working dstance	Field of view
3.0x	340mm	70mm
3.0x	420mm	84mm
3.0x	460mm	92mm
3.0x	500mm	100mm
Magnification	Working dstance	Field of view
3.5x	340mm	60mm
3.5x	420mm	72mm
3.5x	460mm	78mm
3.5x	500mm	84mm

Headlight & Loupes Combined Set

HL8000 Headlight combined with SLH Binocular Loupes

Wireless HL8000 Headlight combined with SLH Binocular Loupes

HL8300 Headlight combined with SLF Binocular Loupes

HL8300 Headlight combined with SLE Binocular Loupes

Specifications

HL-8000	With Portable Battery Pack	With Wireless Battery Pack
Diameter of the light spot at a distance of 420mm	20-80mm	
Illumination at 200mm working distance	>50000 Lx	
Fluctuation distance	12.5mm	
Direction of Illumination	Vertical ±25° adjustable	
Weight Head lamp (excluding headband)	69g	
Illumination Source	Extremely bright light,5W LED, life 20,000 hours continuous burn	
Battery	7.4V Lithium battery 4600mAh	7.4V Lithium battery 1800mAh
Battery Run-time	> 8 hours	>3 hours
Input voltage	100-240VAC	
Maximum Power input	15VA	24VA
Electrical Safety standard	IEC60601.1,class II equipment	
HL-8300	With Portable Battery Pack	With Wireless Battery Pack
Illumination at 200mm working distance	>35000 Lx	
Direction of Illumination	Vertical ±25° adjustable	
Weight Head lamp (excluding headband)	21g	
Illumination Source	Extremely bright light,3W LED, life 20,000 hours continuous burn	
Battery	Lithium battery 7.4V 2300mAh	Lithium battery 7.4V 1800mAh
Battery Run-time	> 9 hours	>4.8 hours
Input voltage	100-240VAC	
Maximum Power input	14VA	24VA
Electrical Safety standard	IEC60601.1,class II equipment	

Operation Microscope

YZ-20P5

Features

- The product is a simple coaxial illumination operation microscope for one man. It is portable,compact and applied in mobile hospital.
- Characteristics
- All the lenses are multi-coated,mildewproof and anti-reflective.
- Optional objectives: f250/f300/f350f/f400.
- Column stand can be reflitted to holding stand.It can also be customized according to various operation requirements.

Specifications

Eyepiece Magnification	12.5× 16B
Objective Lens	f=200
Working Distance	190mm
Magnifications for Main Microscope	5.3×,8×,12×
Diameter of Field	Φ37mm,Φ25mm,Φ16.7mm
Diopter Adjustment	±6D
Pupil Distance	50mm~80mm
Maximal Resolution	100LP/mm
Illumination Source	12V/100W,medical cold reflection halogen lamp
Illumination Type	6°+0°Coaxial cold light source illumination
Coaxial Illumination	≥30000lx
Reaching Radius of Arm	870mm
Adjustable Vertical Range	700mm~1100mm
Fine Focusing Range	30mm
Input Voltage	AC220V±22 V / 50Hz, AC110V±11V /60Hz
Power	120VA
Fuse	AC250V T1.25A ,AC125V T2.5A
Packing Volume	0.2m³,1carton
Total Weight	41kg

Operation Microscope

Loudly

YZ-20T4

Features

◆ Assistant microscope can be converted to opponent microscope to meet the operation needs in ophthalmology and other departments.
◆ Internal beam splitter can be connected with teaching tube and CCD system.
◆ Equipped with three different objective lenses(f200/f250/f300)and applicable in ophthalmic surgery, orthopedic surgery and hand surgery.
◆ Oblique illumination can be used as slit illumination with slit width adjustable and 360° rotatable.
◆ Multi-layer coating technology is used on all lenses to prevent mildew and enhance lens transmittance.
◆ X/Y mobile automatic reset.
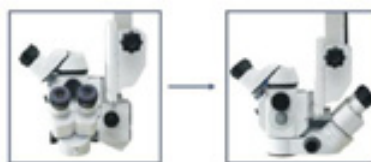
Assistant microscope can be rotated to opponent microscope.

Internal beam splitter can beconnected with teaching tubeand CCD system.

Equipped with three different objective lenses (f200/f250/f300) and applicable in ophthalmicsurgery, orthopedic surgeryand hand surgery.

Oblique illumination can also be used as slit illumination and slitwidth is adjustable.

Specifications

Eyepiece Magnifications	12.5X 18B
Magnifications for Main Microscope	f200: 4X 6X 10X 16X 25X f250: 3.2X 5X 8X 12.8X
	f300:2.7X 4.2X 6.7X 11X 17X
Working Distance	f200:190mm f250:240mm f300:290mm
Magnifications for Assitant Microscope	f200: 6X 10X 16X f250: 5X 8X 12.8X f300: 4.2X 6.7X 11X
Adjustable Diopter	±7D
Adjustable Range of Pupil Distance	50mm ~ 75mm
Maximal Resolution	112LP/mm
Illumination Source	12V/100W,cold reflection halogen bulb for medical use
Illumination Type	6°+0° coaxial illmination of cold light source 25°Oblique llumination (It can be used as slit illumination) Slit Vidth is adjustable ,and its angle is 360° rotation.
Coaxial Illumination	≥50000lx
Oblique Illumination	≥ 45000lx
Reaching Radius of Arm	1040mm
Adjustable Vertical Range	850mm~1350mm
Fine Focusing Speed and Range	≤2mm/s, 50mm
Speed for X/Y and Range	≤2mm/s, 50mm×50mm
Input Voltage	AC220V±22 V / 50Hz, AC110V±11V /60Hz
Power	300VA
Fuse	AC250V T4.0A（51S-040H), AC125V T8.0A (51S-080L)
Packing Volume	0.727m³,5carton
Total Gross Weight	210kg

Operation Microscope

SOM-2000D

Features

- Germany imported Schott optics ensures the surgeon bright, balanced, and fine observation.
- Apochromatic technology used in the optical design, ensures coaxial light focus and provides clearer field of view.
- Lock device under the microscope arm ensures the safe distance and prevent accidents from happening.
- Independent electrical control box with the function of automatic diagnosis, which is very convenient for installation and repair if necessary.

Specifications

Eyepiece Magnifications	12. 5X 18B
Objective Lens	F=200mm
Working Distance	170mm
Magnification for Main Microscope	4.6X ~ 27X motorized and manual control continuous magnification
Magnification for Assistant Microscope	6X. 10X. 16X
Diameter of Field	Φ.46mm~Φ85mmt
Adjustable Diopter	±6D
Adjustable Range for Pupil Distance	55mm ~ 75mm (main microscope is 45mm ~ 80mm)
Maximal Resolution	119 LP/mm
Focus for Assistant Microscope	≥ 30mm
Illumination Source	12V/100W,cold reflection halogen lamp for medical use
Illumination Type	6°+0° coaxial illumination of cold light source, 26° oblique illumination
Coaxial llumination	≥ 60000lx, 1~ 9 level,panel operated
Oblique llumination	≥ 60000lx,1~ 9 level, panel operated
Reaching Radius of Arm	1230mm
Adjustable Vertical Range	880mm ~ 1420mm
Fine Focusing Speed and Range	≤ 2mm/s, 50mm
Speed for XY and Range	≤2mm/s, 50mm X 50mm
Input Voltage	AC100V-240V (50/60Hz)
Power	170VA
Fuse	AC250V T3.15 A (51S-032H) . AC125V T6.3A(51S-063L)
Packing Volume	O.756m³, 5cartons
Total Gross Weight	215kg

Operation Microscope

SOM-2000DX

Features

- ◆ It provides an amazingly clear, fine observations by using Xenon light source.
- ◆ -2° +6° coxial illumination greatly improves the intension and range of red light reflex.
- ◆ UV-proof and heat absorption reduces the harm to intraocular tissues and makethe patient feel more comfortable.
- ◆ Germany imported Schott optics ensure the surgeons a bright, balanced and fine observation.
- ◆ Apochromatic technology used in the optical design, ensures coaxial light focus and makes a clearerfield of view.
- ◆ Lock device under the microscope arm prevents accident from happening.
- ◆ Fine focusing knob is under the bottom of assistant binocular. The obervation of theassistant s microscope can be finely focused independently from the main microscope,to avoid the different observations from the surgeon.

Specifications

Eyepiece Magnifications	12. 5X 18B
Objective Lens	F=200mm
Working Distance	170mm
Magnification for Main Microscope	4.6X - 27X motorized and manual control continuous magnification
Magnification for Assistant Microscope	6X. 10X. 16X
Diameter of Field	Φ.46mm~Φ8.5mm
Adjustable Diopter	±7D
Adjustable Range for Pupil Distance	55mm ~ 75mm (main microscope is 45mm ~ 80mm)
Maximal Resolution	126 LP/mm
Focus for Assistant Microscope	≥ 30mm
Illumination Source	120V/100W Medical Xenon L amp and 12V/100W Halogen Lamp. Dual-source hand- switched
Illumination Type	6°+2° coaxial illumination of cold light source, 26 oblique illumination
Filter	UV-IR filter, yellow spot protection filter, redfree, GG435, GG475
Coaxial llumination	≤180000lx (xenon); ≥ 2000lx (Halogen), 1~ 99level, Foot/panel operated
Oblique llumination	≤180000lx (xenon); ≥ 2000lx (Halogen), 1~ 99level, Foot/panel operated
Reaching Radius of Arm	1230mm
Adjustable Vertical Range	925mm ~ 1465mm
Fine Focusing Speed and Range	≤ 2mm/s, 45mm
Speed for XY and Range	≤2mm/s, 50mm*50mm
Input Voltage	AC100V-240V (50/60Hz)
Power	280VA
Fuse	AC250V T3.15 A (51S-032H) . AC125V T6.3A (51S-063L)
Electrical Safety Standard	Executive standard:GB9706.1-2007
Packing Volume	O.856m³, 5cartons
Total Gross Weight	230kg

Visual Field Perimeter

APS-6000BER

Features

- ◆ The APS-6000B/C automatic Perimeter is designed and developed on windows system.
- ◆ Users can get an intuitive report with examined perimeters results.

Specifications

Stimulus Type	LED
Stimulator Screen	Hemispherical bowl, radius 30cm integrated
Stimulus source	Light Emitting diode
Stimulus Size	Goldman III
Stimulus Intensity	≤10000asb
Stimulus Duration	Adjustable 0.2 to 2 Second
Stimulus color	Yellow; Red
Stimulus step	TOTAL 27, STEP 1
Minimum Inter-stimulus delay	Adjustable 0.2 to 2 seconds
Background Illumination	4 abs
Lens Holder diameter	35mm (optional)
Stimulus Points	144(0-60D),72 (0-30D), 61(0-10D red), 114 (Blind spot)
Chin-rest moving range	Vertical 70mm, horizontal 90m
Fixation Method	Automatic monitoring with two options. Available blind spot method, Eye tracking method. In both methods, fixation errors are to be immediately announced by visual and audible warnings.The standard video camera should provide visual of the patient's eye for additional monitoring.
Test Range	Default test (0-60D), Yellow spot test (central 0-10D), Central 0-30D test, Quadrant test, Peripheral test (60-90D), Blind spot test, Custom Test.

Visual Field Perimeter

APS-6000CER

Features

◆ Computer Built-in

◆ Users can get an intuitive report with examined perimeters results.
Touch Screen or no touch screen you can choose.

Specifications

Stimulus Type	LED
Stimulator Screen	Hemispherical bowl, radius 30cm integrated
Stimulus source	Light Emitting diode
Stimulus Size	Goldman III
Stimulus Intensity	≤10000asb
Stimulus Duration	Adjustable 0.2 to 2 Second
Stimulus color	Yellow; Red
Stimulus step	TOTAL 27, STEP 1
Minimum Inter-stimulus delay	Adjustable 0.2 to 2 seconds
Background Illumination	4 abs
Lens Holder diameter	35mm (optional)
Stimulus Points	144(0-60D),72 (0-30D), 61(0-10D red), 114 (Blind spot)
Chin-rest moving range	Vertical 70mm, horizontal 90m
Fixation Method	Automatic monitoring with two options. Available blind spot method, Eye tracking method. In both methods, fixation errors are to be immediately announced by visual and audible warnings. The standard video camera should provide visual of the patient's eye for additional monitoring.
Test Range	Default test (0-60D), Yellow spot test (central 0-10D), Central 0-30D test, Quadrant test, Peripheral test (60-90D), Blind spot test, Custom Test

Visual Field Perimeter

APS-T90/APS-T00

APS-T90

APS-T00

Features

Model No.	Product name	Software	Computer	Features
APS-T90	Split Type Projection Perimeter	With software	without computer,without printer	
APS-T00	Integrated Type Projection Perimeter	With software	With computer (build-in)	Touch Screen

Specifications

Model	APS-T90	APS-T00
Device Type	Split type(PC Computer Type)	Integrated Type
Stimulate point appearing way	Optical projection	
Detection method	Static perimetry	
Detection range	0°-90°	
Background brightness	White:31.5asb; Yellow:315asb	
Visual Target color	Red,blue,white	
Visual Target Brightness	Oasb-10000asb	
Brightness level	0-51db	
Testing Distance	300mm	
Vision Target Interval time,keeping time	Paticnts adaptive,standard,slow,custom	
Pupil Size Measurement	Auto	
Head Movement Way	AEC Eye position monitoring and automatic correction systerm	
Brighteness Measurement	Brightness Auto Measurement and correction	

Visual Field Perimeter

SK-850AE/SK-850AS

Features

- Auto-Calibration after switch on.
- Stable Halogen Light Source.
- Spot Control by Optical
- Accurate and Fast Test Strategies
- Esterman Moncular/Binocular

Specifications

	SK-850AS	SK-850AE
Spot Initialization	Auto-calibration when switch on	
Projective Light Source	Halogen	
Stimulus Size	Goldmann I11	GoldmannI-V
Test Library	Static Test Custom Static Test	Static Test Custom Static Test
		Kinetic Test Custom Kinetic Test
Stimulus Color	White	White, Red, Blue
Brightness Control	Optical Progessive Lens	
Background Illumination	White	White, Yellow
Swap	None	Yes

LD-820A

Features

- Stimulus Light Source:
- Type:Hemispherical Bowl Type (Radius 600mm)

Specifications

AUTO PERIMETER	
Type	Hemispherical Bowl Type (Radius 600mm)
Stimulus Size	Φ2mm
Stimulus Light Source	LED
Stimulus Indicator	256 indicators distributed on screen
	Including 62 red indicators (10° Central Area);
Stimulus Intensitiy	0.5 ~ 318 nit (1.6-1,000ASB)
Stimulus Light Brightness Level	15 levels, each level with 2dB;
Brightness Level of each indicator	Within ±20%
Background Light Luminance	0.02cd/m2, white light
	(Spectrum range: 400-750nm, peak at 470nm)
Fixation Mark	Green, located at the center of the screen;
Stimulus Duration	0.1sec, 0.2sec, 0.5sec
Stimulus Interval	0.5sec, 1.0sec, 2.0sec+
Fixation Monitoring	Camera Monitoring & Blind Spot Monitoring
Distance between Chinrest Center and Screen Center	330±16mm
Moving Range of Chinrest	Vertically: ≥35mm; Horizontally: ≥15mm
Weight	26kg (Main Unit)
Dimensions	770mm*530mm*730mm
Test Report	Graphics, 2D Graph, Symbol Graph, Quantitive Test Report, MS, MD, Total Loss, Average Loss, Blind Spot Detection, Statistics Analysis, etc.

Handheld Fundus Camera

Loudly

HFC-100

Features

- ◆ Optional imaging modules for examination: posterior ophthalmoscope ,anterior segment ophthalmoscope, otoscope, retinoscope, laryngoscope and dermatoscope.
- ◆ Rechargeable battery provides up to more than 4 hours of continuous operation.
- ◆ High definition and stable image.
- ◆ Non-mydriatic and large field of view.
- ◆ Easy one-handed operation and excellent portability.
- ◆ Large data service and a variety of image acquisition mode.
- ◆ Images real-time display, one button magnifying.
- ◆ Non-mydriatic and high definition imaging.
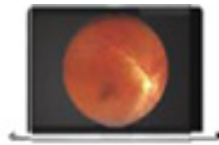
Specifications

FOV	45°
Minimum pupil	2.5mm
Refractive compensation	-20D~+20D
Light source	White LED/IR
Image resolution	1920*1080
Focus Mode	Manual
Screen	3.5" color
Power	≤6VA
Storage	8GB Micro SD card
Power supply	3.7VLithium Battery
Interface	Mini USB/Wifi
N. Weight	450g (Typical)
G. Weight	2.5kg
Size	160mm*90mm*190mm
Packing size	380mm*320mm*180mm

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Handheld Fundus Camera

HFC-900

Features

◆ **Intelligent and advanced fundus screening**

Non-mydriatic and minimum pupil size 2.5mm

Low light LED flash and 480x800 HD touch screen

Auto focus and 8 target fixation

◆ **Fast and HD fundus imaging**

16 mega pixel

◆ **Android system application**

Android system, easier operation and data storage,reading, wireless transfer

DICOM interface

4G networks

No additional computer or mobile device will be required

Integrated design only 560g

Wireless printing
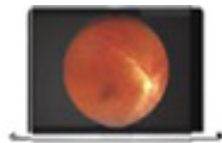
Specifications

FOV	45°	Transmission and storage	Internal capacity 16GB ; USB/Wifi/BT/4G
Minimum pupil	2.5mm	Weight	560g
Refractive compensation	-20D~+20D	Power supply	Lithium Battery 3.7V 3400mAh
Focus way	Auto / manual	The battery Continuousdy working time	6h (Standby time exceeds 24h)
Focus mode	8 targets fixation	Total charging time	3.5-4h
Image resolution	16MP	Operaing system	PC: Windows system; APP: Android
Screen	3.97 inch multi targets touch screen 800*480	ID Card reading and collection	Support
Shoot type	Infrared, white light	NFC card reader	Support
Image format	JPEG	Connect function	Professional software, APP,support DICOM, support cloud service system, patient data management software, support wireless printing

Fundus Camera

Loudly

SK-650A/SK-650B

Features

	Optical Lens	Fundus Observation	Test Mode	Fixation Light	Swing
SK-6S0A	AsphericsSystem	Swithcing Optical anterior-posterior Lens	Optical Redfree, Anterior Segment, Color Picture	9-point Fixation Light	None
SK-6S0B		Moving Platform	Color Picture, Kineticl Flicker/Blue FFA	9-point +external Fixation Light	Yes

SK-650A   **SK-650B**

Specifications

Model / Parameter	SK-650A	SK-650B
Optical lens	Aspherics system	Aspherics system
Test mode	Non-mydriatic fundus	Non-mydriatic and FFA
Fundus Obsevation	Switching Optical anterior-posterior compensation lens	Moved platform
Red-Free	Yes	No
Focus	Split-line aligning focusing	
Digital Camera	CANON EOS Technology	
Color Image Resolution	5184*3456	
Monochrome Image resolution	/	1360*1024
Min.Pupil Size	3.3mm	
Compensation range	-25D -+30D	
Fundus observation para-position indication	Dots overlap	
Fixation target	External eye fixation lamp & 9 internal fixation target (LED dot matrix-Fully controlled by software)	
Maximum angle of view	53°	
Optical head tilting	/	Horizontal ±30° Vertical ±12.5
Working distance	40mm ± 2mm	
software	Support Dicom 3.0, support hospital HIS/PACS system. Image processing, easily operate, strong analysis, support fundus Mosaic, image post processing, measurement, patient profile management	

Fundus Camera

APS-AER/APS-BER

APS-AER (Fundus Camera)

APS-AER (Fundus Camera & FFA)

Features

- With The fifth Generation Leading Optical System in China.
- Othe image clearer, better stereoscopic fundus, perfect present details.
- More accurate and comfortable mechanical motion systems.
- Professional HD SLR camera, up to 24.1 million pixels.
- Five internal fixation, two dots alignment.
- Auto Focus System.
- Auto Exposure System.
- Easier to use and makes it easy to obtain a stable ideal image .

Specifications

Field Scope	Up to 53°
Working distance	40 mm
Non-mydriatic Camera	Supporting
Minimum pupil diameter	3.3mm
Fundus fluorescein angiography	Flash and dynamic angiography
Observation light source	Infrared light
Refractive compensation range	≥ ±15D
Fixation	External fixation
	5 Internal fixation (9 internal fixation optional)
Assisted Alignment	Two round dots alignment
Focus way	Manual, Auto
Exposure way	Manual, Auto
Ineternet interface	Dicom3.0 interface, LAN (Optional)
The second viewing screen	Optional (7" LCD)
Eye position recognition	Auto
Working distance	Horizontal ±30°Up and down ±12.5°
Working distance	42mm±2mm
Moto-table	Electricmoto-table (elevator optional one)
Workstion	Electricmoto-table (elevator optional one)
Printer	High quality inkjet printer

Ultrasound Biomicroscopy

SW-3200S

Features

◆ Full Scale UBMis Used for measuring the structure and the di-agnosis of antenior segment, including comea, chamber angle, ciarybody, ins, anterior chamber,double-angle etc. Has been widely used inglauoma, eye injury and cliary body disease.

Specifications

Probe	50MHz fan scanning UBM probe
Vertical precision	50µm
Lateral precision	50µm
Scanning mode	Fan scan, cornea protection, safty alarm
Gain	20-105dB
SNR	100dB
Gray scale	256 shades
Display resolution	0.01mm
Micro mode	5mm*5mm
Full scale	12mm*10mm
Geometry location precision	Vertical≤5%， Lateral≤10%
Power supply	AC 90~230V, 50* (1±2%) Hz;
Power	10W
Workstation OS	Windows XP, with USB2.0 interface, EMS memory 512 MB
Image store ability	80G for image store in hard disk, and the store ability could be expanded by CD burning

A/B SCAN & Pachymeter

SAB-500

Features

◆ 15"color and touch screen, with keyboard, with mouse , A probe , B probe , wifi. You can use any printer connect to it .There is USB port.

◆ SAB-500 A/B Scan with normal, vitreous body enhancement, retina observation mode, mainly used for diagnosis of intraocular diseases, display the location, shape range of the focus of infection and the relationship with the surrounding tissue. Can be diagnosed vitreous opacity, retinal detachment, eye base tumors etc. eye diseases. A scan is used to measure anterior chamber depth, lens thickness, axial length, calculate diopter of implant IOL as well.

Specifications

B scan:	A scan:
Frequency: 10MHz/20MHz (optional) ,Magnetic driven, noiseless	Frequency:10MHz, with LED
Scanning Mode: Sector Scanning	Depth: 40mm
Magnify:Multi continuous magnification,Real-Time magnification	Precision:±0.05 mm
Resolution: Lateral ≤0.3mm; Vertical≤0.2mm	IOL Formula: SRK-II, SRK-T, HOFFER-Q, HOLLADAY,BINKHORST-II, HAIGIS
Geometry position precision: Lateral ≤10%; Vertical≤5%	Stat. Calculation: Average and standard deviation
Depth:60mm	Store: 10 Scanning results for each eye
Enhance the part of vitreous body and retina	**Others:**
Gain of probe:30dB-105dB	Display Mode :B, B+B, B+A, A
Scanning Angle:53°	Hint: preset keyword
Gray Scale: 256	Case Search:Multi-keywords
False Color: Multi colors. OCT	Screen: 15 inch LCD
measurement type: multigroup distances, perimeters and areas	Built-in battery: can use 4 hours
Image postprocessing: multiple curves processing, Pseudo-color processing curve	User-defined report template poor credit secured loans
Movies: 100 images movie review, AVI JPG format image output	

SW-1000A/SW-1000P/SW-1000AP

Features

◆ All touch screen, easy to operate.
◆ Large color display with backlight and brightness control Portable design and light weight.
◆ Built-in thermal printer.

Specifications

SW-1000:A Scan
Probe: 8MHz,
Precision: ±0.1mm
Measurement: Anterior chamber, lens, vitreous body and total length
Eye mode: Normal/ Aphakic/Dense/PMMA/Silicone/Acrylic;
IOL Formula: SRK-II, SRK-T,BINKHORST-II, HOLLADAY, HOFFER-Q, HAIGIS-STD
SW-1000P:Pachymeter
Probe: 20MHz,Angle of 45 degrees makes easier operation
Precision: ±0.01mm
Measuring range: 0.3mm~1.2mm
Display : single mode and map mode
SW-1000AP:A Scan and Pachymeter

A/B SCAN

Loudly

SW-2100

Features

◆ USB interfaced ophthalmic A/B scan & image workstation is composed of main unit, A probe, B probe, image workstation and so on. The probe contacts the cornea and sends out ultrasound of 10MHz. In A scan mode, the echo wave from front surface and back surface of lens and retina is detected. The signal is processed and then we get the depth of chamber, thickness of lens and axial length. While in B scan mode, the B probe emits and receives the fan scanning waveform. After the signal procession, the transverse images of the eye are presented on the LCD. And the doctors could observe the eye disease as well as the location of the focus.

◆ The ultrasound signal is pre-processed by main unit and then transported to image workstation through USB interface. The image workstation is composed of portable computer and professional ultrasound image procession software. The image process function is as powerful as to review images, measuring multiple groups of data, case output and archiving.
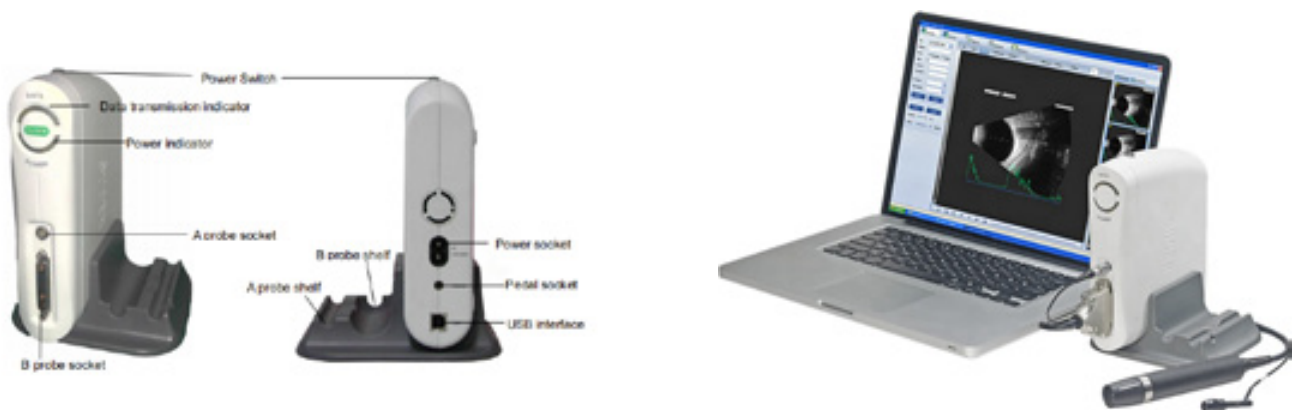
Specifications

A Scan		B Scan	
Frequency	10MHz, with LED	Frequency	10MHz Magnetic driven, noiseless
Depth	AL 15-35mm	Scanning Mode	Sector Scanning
Precision	±0.05 mm	Magnify	Multi continuous magnification, Real-Time magnification
Measurement	Anterior chamber depth, lens thickness	Resolution	Lateral ≤0.3mm; Vertical≤0.2mm
		Geometry position precision	Lateral ≤10%; Vertical≤5%
	Vitreous body length, total length and average	Detect depth	≥ 50mm
		Gain of probe	20dB-105dB
Eye mode	Phakic / Aphakic / Dense / Various IOL	Scanning Angle	53°
IOL Formula	SRK-II, SRK-T, HOFFER-Q, HOLLADAY BINKHORST-II, HAIGIS-STD	Gray Scale	256
		False Color	7 colors
		Measurement type	Multigroup distances, perimeters and areas
Stat. Calculation	Average and standard deviation	Movies	100 images movie review, AVI JPG format image output
Store	10 Scanning results for each eye	Image postprocessing	Multiple curves processing, Pseudo-color processing curve
Display Mode	B, B+B, B+A, A		
Hint	Preset keyword		
Case Search	Multi-keywords		
Working Platform	Windows XP, VISTA, WINDOWS7		
User-defined report template	With		

A/B SCAN

ODM-2200

Features

- 8 color codes
- Operating mode: B, B+A, B+B, A
- High resolution images
- 8 images memory
- 6 steps zoom from 34-60mm
- Variable displaying area
- 5 sections adjustable TGC
- Cineloop for 5.6sec
- Accurate axial measurement under B-mode (SMI-5)
- Manual correction of axial measurement under A-mode (SMI-5)
- Multi-groups of calipers for distance measurement
- Various area measurements
- Measuring mode: contact and immersion
- Groups average with standard deviation (S.D.)
- Save up to 50 groups of IOL calculation results
- B-probe protection: automatic stop after 10 minutes of continuous scanning
- Trackball for easy measurement and operation
- Real-time clock
- Optional image output: video printer or workstation

Specifications

B Scan
Probe with 10MHz
Display Mode: B, B+B, B+A
5 Segments TGC
Delay Depth: 0 ~ 15mm
Dynamic Replay: 5.6 sec
Post Processing: Linear, Logarithmic, Exponential, S-Curve
Distance & Area Measurement
8 Color Mode
A Scan
A Probe with 10MHz
Accuracy: ≤±0.06mm
Measuring Range: 15 ~ 39mm
Measuring Method: Immersion & Contact
Measuring Mode: Normal, Dense Cataract, Aphakic, Special, Manual
IOL Power: SRK/T, SRK-II, BINKHOST-II, HOLLADAY, HOFFER-Q, HAIGIS
15 inch LCD Screen

A/B SCAN

ODM-2300S

Features

- High Definition 10MHz & 20MHz B-scan images.
- High Resolution LCD Touch Screen.
- Image/Video snapped and stored in real time in multiple buffer slots for immediate comparison and review.
- Multiple TGC options for operator's preference including vitreous-enhanced mode.
- Editable clinical report with A-scan/IOL results, B-scan images, and textual comments with configurable entries.
- Reports in .PDF format for sharing and print-out.
- Compatibility with graph/text printer.
- Diverse connections via HDMI and USB 2.0 ports.
- HDMI interface for double-screen showcase.
- Massive storage capacity for over 20,000 exams.

Specifications

B-Scan	
Ultrasound Probes	10MHz, Optional 20MHz Probe
Detection Depth	10MHz:≥60mm;20MHz :≥20mm
Axial Resolution	10MHz:≤0.1mm;20MHz :≤0.08mm
Lateral Resolution	10MHz:≤0.2mm;20MHz :≤0.15mm
Scan depth	10MHz:34mm-60mm, 6-Level selectable 20MHz:22mm-40mm, 6-Level selectable
Scan Angle	53°
Cineloop & Image	Capture and store up to 10s cineloop;Replay in real time, images displayed Continually or separately Separately save individual frames from cineloop as an image
Gray Scale	256 Levels
Gain	1-105dB adjustable
TGC	Default, Vitreous-Enhanced Mode & Customized
AL Measurement	5-Point "Dict-5" Marking Method under B+A Mode
IOL Calculation	SRK-II, SRK-T, BINK-II, HOLLADAY, HOFFER-Q, HAIGIS
Post-Refractive	History-derived, Refraction-derived, SHAMMAS, Double K/SRK-T, ROSA
Post-processing	Measurement (Angle, Area, Distance) Text Annotation & Image Magnification
Biometric A-Scan	
Ultrasound Probe	10MHz with Fixation Red Light
Gain	1-60dB
Measurement Method	Contact or Immersion
Measurement Mode	Manual or Automatic (Normal, Aphakic, Special and Cataract)
Measurements	Axial Length (AL), and Anterior Chamber Depth (AC),
parameter	Lens Thickness (LEN), Vitreous Body Length (VITR),
Average and Standard Deviation for up to 10 scans per exam	
Configurable Tissue Velocities under Special or Manual mode	
AL Measuring Range	15mm-40mm
AL Measuring Accuracy	≤±0.05mm
General	
Display	High-Resolution 12.1" LCD Touch Screen
Printer	Graph/Text Printer and Video Printer (PAL)
Interface	Video-Out (PAL), HDMI, USB2.0 Ports, DICOM 3.0
Input	Touch Screen, Footswitch, Wireless Mouse & Keyboard
HDD	320GB or higher
Power Supply	AC 220-100V (50/60Hz)

A/B SCAN

LD-300L

Features

- ◆ 50MHz High Frequency.
- ◆ Two view ports (8.25mm x 5.5mm & 16.5mm x 11mm), half or sulcus to sulcus images.
- ◆ Alarm and auto-freezing triggered when the probe approaches the cornea.
- ◆ Probe protection: auto-freezing after 5 minutes of continuous scanning.
- ◆ Dynamic cineloop: continually or separately.
- ◆ Massive storage capacity.
- ◆ Image processing and measurement, clinical report storage, search and statistics.

Specifications

Probe Frequency	50MHz
Scan Mode	Linear Scanning
Scanning Lines	15µm between each in sulcus to sulcus view port and 7.5µm between each in half view port
Total Gain	≥105dB
Display Mode	UBM & UBM+A
View Ports	8.25mm x 5.5mm, 16.5mm x 11mm;
Variable Delay Depth	Multi-level Adjustable;
Resolution	Axial≤40µm, Lateral≤40µm;
Dynamic Cineloop	Continually or Separately;
Image Measurement	Distance, Angle, Area & Perimeter;
Automatic alarm triggered when probe approaches cornea	
Real-time clock	
Full-screen Annotation	
Video Port	SVGA
Data Port	USB2.0
Dynamic Video Capture	Dynamic Videos Can Be Saved in *.AVI Format
Footswitch	Scan, Freeze/Save
Real-time Image Capture and Storage	
Powerful Image Post-processing	Gamma/Color Transformation, Color Inversion, Zooming & Annotation
OCT-Style Pseudo-color images with description	
Patient Information System	Support Case Review, Search and Statistics;
Graph/Text Clinical Report Printout, Multi-format Report Templates Selectable	
Ergonomic User Interface	

Corneal Topographer & Phaco Emulsifier

SW-6000

Corneal Topographer

SW-6000 china supplier and cheapest price medical eyes equipments, corneal topographer, topographic equipment for sale

Features

- Ophthalmic equipment corneal Topography, Corneal Topographer, ophthalmic instruments By PLACIDO cone, 31 rings, a total of 7936 points.
- Through calculation and analysis, used in the clinical diagnosis of corneal astigmatism, quantitative analysis of corneal shape, display the corneal curvature by data or different colors, can display axial curvature map, tangential curvature map, height map, simulated corneal lens map and corneal 3D map.
- Can be used in preoperative examination and postoperative effect evaluation of corneal refractive surgery, can guide wearing contact data lens, to improve the accuracy of adaptive contact lens.

Specifications

Working Distance	30mm	
Coverage	0.25mm - 11mm	
Field of View	11mmH 11mmV	
Placido Rings	32	
Illumination source	Profile	Nonvisible Infrared 950nm LED
	Cone	760nm Red LED
	Fixation	530nm Green LED
Curvature	Measurement Range	10~100 Diopter
	Accuracy Test Objects	±0.1D
	Repeatiability Test Objects	<0.1D
Measurement Points	11,520	
Astigmatism	3mm,5mm,7mm	
Contact Lens.	Personalized auto-fit for customized lens	

PE-480

Phaco Emulsifier

Features

- All parts of the system are fully controlled and monitored by Microprocessor Technology.
- Smoothly and efficiently controlling the emulsifier process with digital frequency tracing technology.
- Easy operation and user-friendly interface with large TFT touch screen and functional menu.
- Up to 10 sets of parameters preset meet different requirements and simplify the surgery operation.
- Auto test checks tubing and hand piece problems (e.g.: block or leakage).
- The peristaltic pumps gives complete control of aspiration flow rate as well as freedom from anterior chamber shallowing. This way can give stronger suction when working in I/A.
- Built-in Vitrectomy and Cautery.
- Intelligent Voice Reminder.

Specifications

Ultrasonic Emulsification	
Frequency	40KHz
Operation Mode	Continuous, Linear, Burst, Pulse
Maximum Vacuum	500 mmHg
Maximum Flux Rate	40 ml/min
Irrigation/Aspiration	
Flux Rate	0 ~ 40ml/min
Reflux Rate	20 ml/min
Maximum Vacuum	500mmHg
Vitrectomy	
Cutting Power Source	Air Pump
Cutting Frequency	20 ~ 600/min
Cautery	
Maximum Power	10W ± 20% (200Ω)
Touch Screen	
Voice Guide	

OSE-2000/OSE-2000AS

Features

◆ Optical coherence tomography (OCT) is a new , noninvasive , noncontact , transpupillary imaging,technology which can image retinal structures in vivo with a resolution of 5-8 microns.

◆ Cross-sectional images of the retina are produced using the optical backsattering of light in a fashion analogous to B-Scan ultrasonography and cofocal microscopy. Cross-sectional images of the retina, is revolutionizing the early detection and treatment and greatly enhanced our quality of patient care.
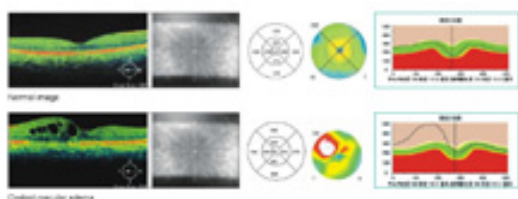
Normal and abnormal image contrast image

Lesions image by image with normal OCT images, the regional thickness values? Topographic maps, diagrams and other multi-thickness contrast, thereby comprehensive judgment of disease.

Specifications

Purpose	Cross-sectional imaging of the retina
Signal type	Photon scattering from tissue
Light source	Super luminescent LED, 840nm
Optical power	≤0.75mW (Cornea)
Axial resolution	5μm in tissue
Lateral resolution	10μm in tissue
Scanners	Galvanometer mirror
Scan mode	Line, concentric ring, repeat, arbitrary-angle
Scan rate	29,000 A-scan/s
Acquisition time	58 pictures per second
Scan depth	2.3mm in tissue
Fundus Imaging	
Signal type	CCD imaging
Field angle	29°x23°
Viewing method	19-inch color flat panel dispal
Illuminator	LED
Internal Fixation	LED dot matrix
External Fixation	Adjustable blinking LED
Minimum Pupil Diameter	2mm

OCT

OSE-3000

Features

- **LSO**

  Equipped with LSO (Line Scanning Ophthalmoscopy),MOcean 3000 provides simultaneously high quality fundus imaging,which is easy for physicians to localize the lesion.

- **Macular HD line**

  High definition OCT imaging reveals small lesions.

- **Macular Six -line Radial**

  Having a glimpse of the retina with HD imaging and quick data analysis.

- **Macular Cube**

  A point-by-point assessment of retinal thichness with a 500X100 dense cube.

- **Anterior HD line**

  High-definition OCT imaging of the cornea enables localization of the Bowman's layer,the interface between corneal stroma and epithelium.

- **Anter Six-Redial**

  The anterior segment scanning through 6 radial lines of equal length can be uesd to measure the central corneal thickness.

- **En-Face Analysis**

  En-Face OCT provides notable ability to precesely localize lesions within specific subretinal layers.

- **Glaucoma(Macular).**
- **Glaucoma(Disc).**
- **Informative Report.**

Specifications

OCT IMAGING	
Methodology	Spectral Domain Oct
Optical Source	Super luminescent diode (SLD), 840nm
Scan speed	36000 A-Scan/s
Axial Resolution(optical)	5 microns (optical) 2.7 microns (digital)
Tranverse resolution	15 microns (optional), 3 microns (digital)
A-Scan depth	2.3MM
Diopter range	-20D to +20D
Scan patterns	Macular :HD line scan (6mm or 12mm),3D scan (6mm*6mm) Anterior:HD Line scan (6mm), 6-line radial scan
FUNDUS IMAGING	
Methodology	Line scanning opthalmoscopoy (LSO)
Frame rate	10fps
Minmum pupil diameter	3.0mm
Field of view	47 degrees
SOFTWARE ANALYSIS	
Macula	Retina thickness analysis,3D view, En-face analysis, Progression analysis
Glaucoma	RNFL analysis, Ganglion cell analysis , Cup-disk analysis,progression analysis ,OU comparative analysis.
Anterior segment	Manual measurement, Corneal thickness analysis
Others	DICOM conformance,Remote viewer software available
ELECTRICAL AND PHYSICAL	
Weight	29kg
Dimension	450mm(l)*250mm(W)*450MM(H)
Source voltage	AC 100-240V
Frequency	50Hz-60Hz
Power input	90VA

OCT

OSE-4000

Features

- **HD SLO + EYE TRACKING**
  45° wide range live SLO imaging
  Ultra ne quality retinal imaging using averaging technique(up to 50 images)
  SLO-based real-time retinal tracking effectively
  reduces artifacts caused by eye movement
- **Real-time widefield SLO image**
  HD OCT IMAGING SYSTEM AT 80,000 A-SCANS/S
  Deep Choroidal Imaging (DCI)
- **Software Analysis**
  RNFL analysis
  Cup-disk analysis
  Calculation circle and circle scan tomogram
  Progression analysis
  OU comparative analysis

Specifications

OCT IMAGING	
Methodology	Spectral Domain OCT
Optical Source	Super luminescent diode(SLD),840nm
Scan speed	80,000 A-scans/s
Axial Resolution(optical)	5 microns (optical), 3.6 microns (digital)
Tranverse resolution	15 microns(optional),3 microns9digital)
A-Scan depth	3 mm
Diopter range	-20D to +20D
Scan patterns	Macular: HD line scan (6 / 12 mm), 3D scan (6 mm x 6 mm), 6-line radial scan,
	Multi (X-Y: 5 x 5),Disc: 3D scan (6 mm x 6 mm)
	Anterior: HD line scan (6 / 16mm), 6-line radial scan

FUNDUS IMAGING	
Methodology	Line scanning opthalmoscopoy(LSLO)
Minmum pupil diameter	3.0mm
Field of view	45 degrees

VASCAN™ OCTA MODULE		
Scanning volume/area	VASCAN Advance	VASCAN Essential
	3mm x 3mm 256 x 256 A-scans	3mm x 3mm 256 x 256 A-scans
	6mm x 6mm 360 x 360 A-scans	12mm x 8 mm 540 x 360 A-scans
	8mm x 8mm 360 x 360 A-scans	
	12mm x 8 mm 540 x 360 A-scans	
Algorithm	C-OMAG	C-OMAG
Segmentation options	Encoded, Vitreousretina Intrerface(VRI), Superfcial retina, Deepfcial retinal,	
	Avascular,Choriocapillaris, Choriod, Custom	
Quantitative analysis	Yes	Not available

ELECTRICAL AND PHYSICAL	
Weight	30.5 kg
Dimension	532 mm (L) x 360 mm (W) x 540 mm (H)
Source voltage	AC 100 - 240 V, 50 Hz - 60 Hz
Power input	90 VA

Patternless Edger

ALE-1000+ST-1200

Specifications

Item	ALE-1000 Main Body	ST-1000 Scanner
Screen	5.7-inch TFT LCD	Touch Screen
Modes/scanning	Optical center / geometric center.	High-precise 3D scanning
Size	620*520*500mm	325*250*205mm
Weight	55kg	5kg
Voltage	AC220V/110V 50HZ/60HZ	AC230/115V 50HZ/60HZ
Power	500W	60W

Features

◆ **The main body of ALE-1000**

It can meet the demand of the industry for its function of several kinds of lens edger progress, including CR-39 rosin lens, high index lens, super hard coating, glass lens, PC lens and Trivex lenses.

◆ ALE-1000 can edging, layout,Polishing

◆ **ST-1200 Scanner**

Touch screen.

Fast data reading.

Shape and size of the scope can be edited.

The integrity design of scanner and center meter.

ALE-1600

Features

◆ ALE-1600 is based on ALE-3000, and better than ALE-3000.

◆ ALE-1600 can edging, layout,Polishing,grooving.

Specifications

The design standard is for indoor use	
Size	705*465*442mm
Weight	75kg
Input Voltage	220V-230V/50Hz, 110V-115V/60Hz
Machine power	1500W
Noise	72db
Operating Temperature	5°C~40°C
Relative humidity	10% - 80%
Pump rated power	<= 150W

Patternless Edger

FE-600+FC-600

Features

- Tracing system:
- Integrating the optical scanning and center finding.
- Accurately getting the size and shape of sample lens only needs 3 seconds.
- Real-time image, leading and confirming if the lens arrived the most appropriate centric positioin
- Automatically avoid the effect of lens degree, prism and artificial parallax
- HR800*600, 8" color touch screen.
- Simultaneously connect 2pcs FE-600 Auto edgers to build a machining center.
- Easy operation ,low breakdown rate and quick service.
  Edging syxtem:
- A variety of material of lens can be processed , rapid edgeing to be molding.
- Bevel or platband can be polished.
- Various grinding pressure meet the demands of different lenses.
- On-line function.

Specifications

Item	FE-600 Main Body	FC-600 Tracer center
Size	650*450*470mm	300*250*350mm
Weight	59kg	7.7kg
Voltage	AC220-110V (50/60Hz)	AC230-115V (50/60Hz)
Power	800W	30W

EC-3200+CT-700

Features

- User-friendly color LCD panel,EC-3200(5.6"LCD/TFT);CT-700(8"LCD/TFT).
- Flexible and versatile.
- Integrated tracing and centering device.
- The display can be tilted.
- The shape imager detects the shape of a pattern,demo lens and horizontal axis automatically.
- The pattern could be stored to improve efficiency. Frame memory save time and storge space.
- 3D lens inspection system.
- Grooving and safety beveling.
- Processing mode for various kinds of lens materials.

Specifications

Processing system	Beveling, flat edging, grooving, polishing and chamfering	
	Auto mode and guide mode	
	Processing lens	Glass, plastic, polycarbonate
	Processing pressure	Approx. 4.5kg (fixed)
Wheels	Roughing wheel for glass lens	100mm in diameter, 17mm in width
	Roughing wheel for plastic lens	100mm in diameter, 17mm in width
	Finishing wheel	100mm in diameter, 23mm in width
	Polishing wheel (for flat edge)	100mm in diameter, 12mm in width
Water supply system	Pump circulation	AC 100-230V (50/60Hz)
Processing accuracy	Size accuracy	±0.05mm
	Axis angle	±1°

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Auto Lens Edger

ALE-400

Features

◆ Added the automatic emendation system in this new model .it can do automatic emendation when the machine start up assure the size of lens (left and right)is uniform and improve the precision.

Specifications

The size of diamond wheel	PC wheel 100x15.6
	Glass wheel 100x16
	V groove wheel 100 x23
	Polishing sheel 100x11
Available lens range	22mm~100mm
The processing type	Pointy edges ,plat band ,bevel polishing
The lens material	CR,Glass,PC
Size	530*500*400
Weight	49kg
Voltage	100-240V (50/60Hz)
Power	500w

ALE-420

Features

◆ Added the automatic emendation system in this new model .it can do automatic emendation when the machine start up assure the size of lens (left and right)is uniform and improve the precision.

Specifications

The size of Diamond wheel	CR Wheel	100*15.6
	Glass Wheel	100*14
	Groove Wheel	100*19
	Polishing wheel	100*19
Available lens range	22mm-100mm	
The processing type	Pointy edges, plat band, bevel polishing	
The lens material	CR,Glass,PC	
Size	530L*500W*400H(mm)	
Weight	50kg	
Voltage	AC100-240V (50/60Hz)	
Power	500w	

Auto Lens Edger

ALE-620

Features

◆ Added the automatic emendation system in this new model .it can do automatic emendation when the machine start up assure the size of lens (left and right)is uniform and improve the precision.

Specifications

The size of diamond wheel	PC Wheel	100*16
	Glass Wheel	100*14
	V Wheel	100*23
	V Polishing Wheel	100*19
Available lens range	22mm~100mm	
The processing type	Pointy edges ,plat band ,bevel polishing	
The lens material	CR,Glass,PC	
Size	530*500*400mm	
Weight	50kg	
Voltage	AC100-240V (50/60Hz)	
Power	500w	

SJG-5189

Features

◆ With the advanced technology and the imported PC wheel,SJG-5189 AutomaticEdger (PC Lens Compatible) gives the best performance in processing PC lens,aswell as the normal CR39 lens and the glass lens.

Specifications

Processing Lens	PC Lenses, Glass Lenses, CR Lenses
Edging Diameter	18mm-80mm
Wheels Diameter	100mm
Power Supply	AC220-110V (50/60Hz); AC 420W
Consumption	400VA
Dimension	510*410*470mm
Weight	48kgs
Water Supply	Circulating Water

Hand Lens Edger

HE-100 Series

Features

◆ Specialized for Glasses&Resin lens edging, trimming, polishing.
◆ Wheel can option：20,30,35W,35WV.
◆ Wheel Holder：Single-wheel Holder.
◆ Electric Voltage:220V/50Hz or 110V/60Hz.
◆ Weight:7.5kg.

20
(size)100*20*14mm

30
(size)100*30*14mm

35W
(size)100*35*14mm

35WV(with V-CUT)
(size)100*35*14mm

Single Support

Specifications

HE-100-20	Wheel width:20mm, normal rough grinding	Graduations: 200# (default), 240#, 280# (optional)
HE-100-30	Wheel width:30mm, large rough grinding	Graduations: 200# (default), 180#，240#，280# (optional)
HE-100-35W	Wheel width:35mm, right rough grinding 16mm, left fine grinding 19mm	Rough grinding:180#, fine grinding280# (default), 320# (optional)
HE-100-35WV	Wheel width:35mm, night rough grinding 16mm, left fine grinding 19mm,trimming	Rough grinding:180#, fine grinding 280# (default), 240# ,320# (optional)

If you need Induction function，please contact me.

Hand Lens Edger

HE-100D Series

Features

- ◆ Specialized for Glasses&Resin lens edging, trimming, polishing.
- ◆ Wheel can option：20,30,35W,35WV,35G.
- ◆ Wheel Holder：Double-wheel Holder .
- ◆ Electric Voltage:220V/50Hz or 110V/60Hz.
- ◆ Weight:7.5kg.

Double Support

20
(size)100*20*14mm

35G(Wheel for glasses)
(size)100*35*14mm

30
(size)100*30*14mm

35W
(size)100*35*14mm

35WV(with V-CUT)
(size)100*35*14mm

Specifications

HE-100D-20	Wheel width:20mm, normal rough grinding	Graduations: 200# (default), 240#, 280# (optional)
HE-100D-30	Wheel width:30mm, large rough grinding	Graduations: 200# (default), 180#, 240# , 280# (optional)
HE-100D-35W	Wheel width:35mm, right rough grinding 16mm, left fine grinding 19mm	Rough grinding:180#, fine grinding280# (default), 320# (optional)
HE-100D-35WV	Wheel width:35mm, night rough grinding 16mm, left fine grinding 19mm,trimming	Rough grinding:180#, fine grinding 280# (default), 240# ,320# (optional)
HE-100D-35G	Wheel for glasses	

If you need Induction function， please contact me.

Hand Lens Edger

HE-150

Features

- High speed rotating wheel .
- 3 wheels operating together, rough, fine, groove grinding .
- With a special lamp, convenient operating .

Specifications

Electric Voltage	AC 220-100V (50/60Hz)
Weight	9KG
Size	40*25*30cm

HE-200

Features

- Glass and plastic lens edging, trimming, polishing.
- It has safe railing with auto-switch.It has auto water-supply system,so
- It's convenient, safe and clean.It's durable in use, as it has large diameter 150 diamond wheel. .

Specifications

Electric Voltage	AC 220-100V (50/60Hz)
Weight	10kg
Size	43.5(L)*31.5(w)*31.5(H)cm

Hand Lens Edger

HE-300

Features

◆ Two choices of configure:#750,#770 .
◆ Gracefull and generous appearance design.
◆ Fireproof and disinfectant plastic cover.
◆ Electronic induction switch.
◆ Water circulation system inside.

Specifications

Rated power(motor)	150W
Rated power(water pump)	3W
Width of diamond wheel	35mm, 30mm, 20mm
Diameter of diamond wheel	100mm
Dimensions	430mm(L)*270mm(W)*280mm(H)
G.W	9.1kgs
N.W	8Kgs
Power supply	AC100-240V (60/50Hz)

HE-400

Features

◆ Double wheels.
◆ Competetive price .
◆ Nice shape.

Specifications

Weight	20kg
Power Requirement	110V/220V
Double wheels	180
Dimensions	600(L)*465(w)*520(H)mm

HE-500-5D-35WV

Features

◆ For an glasses shop in glass and plastic lens edging, trimming, polishing.
  Detailed Product Description:
  1, Big power;high speed rotating grinding wheel,fast grinding.
  2, 3wheels operating together, 35mm of rough grinding, fine grinding, edge groove grinding,and 1 piece of polishing cloth wheel.
  3, It has auto water-supply system,,facilitate water drainage.

Specifications

Electric Voltage	220V/50Hz or 110V/60Hz
Power	100W
Weight	8kg
Volume	39.5(L)x24.5(w)x30(H)cm

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Lens Groover

GM-100 Series

GM-100A

GM-100B

GM-100C

Features

◆ For processing half-frame glasses and rimless-frameglasses's center curve, front curve and rear curve.

Specifications

	GM-100A	GM-100B	GM-100C
Panel	Stainless Steel,Hollow	Stainless Steel	Iron
Blade	PC blade	Common blade	
Suitable for all kinds of glass, resin and PC lenses;			
Groove depth, position adjustment (front - middle - back);			
Adjustable groove depth	From 0 to 0.7cm;		
The width of the slot	0.65mm		
Lens thickness	From 1.5 to 11mm;		
Lens diameter	From 18 to 70cm		

GM-150 Series

Features

◆ For processing half-frame glasses and rimless-frameglasses's center curve, front curve and rear curve.

Specifications

	GM-150A	GM-150B	GM-150C	GM-150AT
Panel	Stainless Steel,Hollow	Stainless Steel	Iron Steel	Stainless Steel,Hollow
Blade	PC blade	Common blade		PC blade
Guide wheel	c=12mm			
Adjustable groove position	Front,Center,& rear			
Adjustable groove depth	0~ 0.7cm			
Groove width	0.65mm			
Lens thickness	From 1.5 to 11mm			
Lens diameter	From 18 to 70cm			
Motor	DC			AC

GM-150A

GM-150B

GM-150C

GM-150AT

Lens Groover

GM-180AD/ADT

Features

- The center slot, front arc groove and rear arc groove for the edge of the half frame or frameless eyeglass lens.
- **Product description**

  GM-180AD adopts copper panel, AC motor, Good blade.

  GM-180ADT adopts copper panel, AC motor, Common blade.

  Suitable for all kinds of glass, resin and PC lenses.

  Groove depth, position adjustment (front - middle - back).

Specifications

Adjustable groove depth	From 0 to 0.7cm;
The width of the slot	0.65mm
Lens thickness	From 1.5 to 11mm;
Lens diameter	From 18 to 70cm
Electric Voltage	AC220-110V (50/60Hz)
Power	80W
Weight	2.9kg
Volume	27(L)*23(w)*22(H)cm

GM-180AM

Muit-function Lens Groover

Features

- Fit for Myopia glasses, Hyperopia glasses, Sunglasses' grooving.
- After shift, lock both knob in opposite direction to prevent movement.
- For grooving 400. 500 600 base of glasses'scenter curve, front curve and rear curve.

Specifications

Packing Dimension	28*24*22cm.
G.W.	3kg
Panel	Copper, Hollow
Blade	Common

600 base
500 base
400 base

Lens Beveller Machine

Loudly

BM-100A/BM-100B

BM-100A

BM-100B

Features

◆ For half-frame glasses and rimless. .frameglasses' lens center curve, front curve andrear curve, and automatic beveling.

Specifications

Technical	Data BM-100A	BM-100B
Unit G.W.	2.6kg	2.6kg
Size	28*24*22cm	28*24*22cm
Clamping Head	Stainless Steel	Copper

BM-100AT

Features

◆ The machine is used for bevelling the inside edge of full frame lens, operate steady and smoothBM, fasion apperance, is the ideal tool tomake high index lenses.

Specifications

Voltage	AC 220-100V (50/60Hz)
Power	80W
Net weight	2.9kg
Inner box size	27 (L)*23 (W)*22 (H) cm

Bevel Adjusting Dial

For thickness lens. bevel can't be processed in one time, should be operatedseveral times by ittle adjustment. The left and right lens dial data should keepthe same, thus the bevel shape will be nice looking.

Tum on the switch only after lens were clampedand head put down.
Blade Sharp! Pay Attention!

sale01loudly@vip.163.com

Lens Beveller Machine

BM-100ATW

Features

◆ The machine is used for bevelling the inside edge of full frame lens, operate steady and smoothBM, fasion apperance, is the ideal tool tomake high index lenses.

Bevel Adjusting Dial

For thickness lens. bevel can't be processed in one time, should be operatedseveral times by ittle adjustment. The left and right lens dial data should keepthe same, thus the bevel shape will be nice looking.

Tum on the switch only after lens were clampedand head put down.
Blade Sharp! Pay Attention!

Specifications

Voltage	AC 220-100V (50/60Hz)
Power	80W
Net weight	2.9kg
Inner box size	27 (L)*23 (W)*22 (H) cm
Machinable lens edge thickness	1.2~ 7.0mm
Machinable lens diameter	22~ 60mm
Lens processing completion time	20s

BM-100ATW
Specification, batch number
Tungsten steel blade
Sharper! More resistant
Use! Quiet!
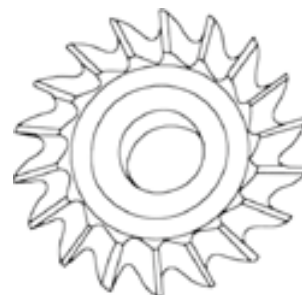
BM-100AT
White steel blade

Auto Lens Groover & Beveller

GM-250 Series

GM-250AT

GM-250A

GM-250B

Features

◆ For processing hal-frame glasses and rimess-frame glasses' center curve, front curve and rear curve, and automatic beveling rimless or hal-frame glasses lens.

◆ Chamfer angles of lenses can be controlled automatically precisely.Suitable for plastic and glass lenses.Automatic chamfering speed quickly.

Specifications

Model	GM-250AT	GM-250A	GM-250B
Panel	Stainless Steel, Hollow		Stainless Steel
Clamping Head	Stainless Steel	Copper	
Lens Groove width	0.65mm.		
Lens diameter	18 to 70cm		
Unit G.W.	3.8kg		
Size	34*26.5*21cm		
Electric Voltage	AC220-110V (50/60Hz) (80W)		
Dimensions	330(L)*260(W)*195(H)mm		
Weight	4kg		

DM-998 Series

Driller Machine

DM-998A

DM-998B

DM-998C

Features

◆ Suitable for boring of PC lens and resin lens.

Specifications

Model	DM-998A	DM-998B	DM-998C
Drill speed adjustment	Yes	No	No
Pipe	Aluminium pipe	Aluminium pipe	Plastic pipe
Light / handrail	Handrail	Light	Without
Motor	Big power motor	Common motor	Common motor
Electric Voltage	AC220-110V (50/60Hz) (25W)		
Weight	3kg		
Volume	23.5(L)*19.5(w)*32(H)cm		

Driller Machine

DM-200

Features

- The operation procedures are highly intelligent and totally digital.
- Compared to the hole position of the pattern lenses, it has higher process accuracy whose process deviation is less than 0.075mm in both X-axis and Y-axis
- It has auto position clamping equipment which allows to remain the same process accuracy after the change of clamps.
- The screen shows the drill position and coordinates data, and gives guidance to the operation.
- The hole position memory function allows to process the set hole positions continuously.
- There're two measure modes to choose which are original pattern measure mode and frame position measure mode.
- It has mirroring mode in the process.
- The head can automatically reposition if it's removed from its position accidently.
- The instrument drills automatically in a set order, and can be corrected by pressing the number button if any hole is missed by wrong operation.

钻头   橙、紫、红、棕、黄、蓝、绿
Drill bit   Orange, purple, red, brown, yellow, blue, green

铣刀，白
Milling cutter, whit

测量顶尖，钻夹头，进给螺丝，倒角刀，扳手，皮带
Probe, Drill chuck, Height adjusting screw Chamfer tool, Chamfer tool, Wrench, Belt

Φ1.0 Φ1.2 Φ1.42 Φ1.5 Φ1.6 Φ1.7 Φ2.0 Φ1.1

Specifications

Voltage	AC100~240V DC24V
Power	50W
Drilling speed	0~5000RPM
Permissible variation of drill non-concentricity	0.03mm
Max X-axis moving range	155mm
Max load of X-axis movement	50KGS
Max Y-axis moving range	38mm
Max load of Y-axis movement	30KGS
Max pickup of clutch	1.5KG
Resolution of encoder resolution	<0.07mm
Dimension	302*228*270mm

Pattern Driller Machine

TH-120/TH-180 Series

TH-120A   TH-120B   TH-120C   TH-120D

TH-180A   TH-180B

Features

◆ Draw Pupil height and PD of the frame pattern lens.

◆ Locate the three holes and then press the handle.

◆ Locate the pattern lens and process.

◆ TH-180A/TH-180B :It can view scale vertically.

Specifications

Technical Data	TH-180A	TH-180B
Packing Dimension	22*20*27cm	
G.W.	4kg	
Packing Quantity	6pcs/ctn	
Carton Size	60*24*56cm	
Approx G.W.	25kg	
Material	Metal Base	Plastic Base

Technical Data	TH-120A	TH-120B	TH-120C	TH-120D
Material	Metal Basel	Plastic Base		
With or without lights	With Light	Without Light	With Light	Without Light
Positioning Bar	Manual	Auto		
Packing Dimension	23*13*22cm			
G.W.	2.5kg			
Packing Quantity	8pcs/ctn			
Carton Size	55*26*46cm			
Approx G.W.	20kg			

Drilling & Notching Machine

DM-100 Series

DM-100A

DM-100B

DM-100C

Features

- Specializecd for rimless lens drilling and grooving.
- It is most applicable to CR lens and PC lens to perforate and groove.
  Opposing taper drill bits system allow hole to be drilled from sides.
- simultaneously for precision placement and avoids chipping and breaking of
  all lenses, especially those made of glass.
- The adjustable groove-cutting device to get accurate depth of groove cutting.

DM-100AT

Specifications

Model	DM-100AT	DM-100A	DM-100B	DM-100C
Light/handrest	With light and handrest			Without light and handrest
Pipe	Aluminium pipe			Plastic pipe
Diameter of hole	0.8mm-2.8mm			
Widthe of groove	0.8-1.0mm			
Drill	With speed adjust	Without speed adjust		
Voltage	AC 220-100V (50/60Hz)			
Power	25W			
Weight	3.5kg			

Ultrasonic Cleaner

Loudly

UC-100

Features

◆ Remarkable cleaning effect,small volume Jange power easy use.
◆ It is equipped with sound walet-prood system.

Specifications

Capacity	0.6L
Power	35W
Materials	SUS 304 & ABS
Size	250*180*170mm
Weight	1kg
Electric Voltage	AC110-220V (50/60Hz)

UC-100G

Features

◆ 5 Cycles adjustable with digital display.180s-280s-380s-480s-90s.

◆ Remarkable cleaning effect,small volume Jange power easy use.

◆ It is equipped with sound walet-prood system.

Specifications

Capacity	0.6L
Power	35W
Materials	SUS 304 & ABS
Size	250*180*170mm
Weight	1.1kg
Electric Voltage	AC110-220V (50/60Hz)

UC-200

Features

◆ High-power ultrasonic transducer for superior cleaning effect.
◆ Large capacity tank for professional cleaning.
◆ 5 Cycles adjustable with digital display.180s-280s-380s-480s-90s.
◆ With radiator for longer time working.

Specifications

Capacity	1.3L
Power	60W
Materials	SUS 304 & ABS
Size	300*240*200mm
Weight	2.15kg
Electric Voltage	AC110-220V (50/60Hz)

Ultrasonic Cleaner

UC-600

Features

◆ Digital program; 5 workingcycles; choose freely.

◆ Stainless steel tank.

◆ Ultrasonic frequency: 42,000 Hz.

◆ Quiet, solid state circuitry.

Specifications

Capacity	0.6L
Power	35W
Materials	SUS 304 & ABS
Size	210*145*140mm
Weight	1.2kg
Electric Voltage	AC110-220V (50/60Hz)

UC-800

Features

◆ Time setting Mechanically adjust 1-30 minute.

Specifications

Capacity	0.8L
Power	60W
Materials	SUS 304
Time range	1-30min
Size	230*200*220mm
Weight	1kg
Electric Voltage	AC110-220V (50/60Hz)

UC-1300

Features

◆ Time setting Mechanically adjust 1 ～ 30 minute;

◆ Temperature Setting Mechanically adjust 20 ～ 80℃ .

Specifications

Capacity	1.3L
Power	60W
Heating power	200W
Heating temperature	20-80℃
Materials	SUS 304
Size	260*260*260mm
Weight	1kg
Electric Voltage	AC110-220V (50/60Hz)

http://www.loudlyoptical.com

Frame Warmer

FH-10

Features

◆ Specialized for frame heating.
◆ The heating speed is fast, the air volume is large, can make the frame evenly heated.

Specifications

Voltage	AC220-110V (50/60Hz)
Power	450W
Weight	0.45 KG
Within the box size	14(L)*14(w)*21(H)cm

FH-50

Features

◆ When the adjustment plate frame glasses for optical shop processing,Heating frame
◆ 1.Heating speed, large air volume, make the frame evenly heated;
◆ 2.Adjustable temperature

Specifications

Voltage	AC220-110V (50/60Hz)
Power	450W
Heating temperature range	70 ℃ -130 ℃
Weight	1KG
Within the box size	20(L)*16 (w)*27 (H) cm

FH-100

Features

◆ Heat fast and evenly.
◆ Temperature adjustable,heating temperature range:70 ℃ -130 ℃ .

Specifications

Heating temperature range	70 ℃ -130 ℃
Weight	1KG
Within the box size	31(L)*14 (w)*19 (H) cm
Power rating	600W
Power of electric motor	12W
Wind speed	1.8m/s
Voltage	AC220-110V (50/60Hz)

Frame Warmer

FH-120

Features

◆ Heat fast and evenly.

◆ Temperature adjustable,heating temperature range:40℃ -150 ℃ .

Specifications

Power	500W
Heating temperature range	40℃ -150 ℃
Within the box size	24(L) *13 (w) *25 (H) cm
Weight	1.8KG
Motor	6W
Power of hearting wires	500W
Wind speed	1.8m/s
Dimension	235mm*125mm*250mm
Voltage	AC 220-100V (50/60Hz)

FH-300/FH-350

Features

◆ It makes features of quick heating,big wind force, the frames uniform heating.

◆ Temperature adjustable with perilla.

◆ FH-300:without LED; FH-350:with LED.

Specifications

Model	FH-300	FH-350
Electric Voltage	AC 220-100V (50/60Hz)	
Power	500W	
Wind speed	2.0m/s	
Temperature	70℃ -130℃	
Weight	1kg	1.5kg
Volume	23(L)*13(w)*21(H)cm	23.5(L)*19.5(w)*32(H)cm

H-300

FH-350

Polisher Machine & Layout Blocker

LD-900A/B

Polisher Machine

N0.129
LD-900A

N0.128
LD-900B
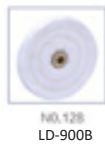
Features

- Used to automatically polish the lens edge.
- Polishing machine exquisite appearance design, advanced mechanical properties;
- Equipped with two computer boards, automatic timing (0-5 minutes);
- Large power, low noise.
- LD-900A good quality woolen wheel.
- LD-900B common wool wheel.

Specifications

Voltage	AC220-110V (50/60Hz)
Power	140W
Packing Dimension	34x28x32cm. G.W.:5.8kg
Packing Quantity	2pcs/ctn. Carton
Size	58*37*34cm. Approx
G.W.	12.4kg

LB-100

Layout Blocker

Features

- For processing eyeglass precision and axial position quickly, set the Center and the Center for displacement.

  Detailed Product Description

- Compact and pretty appearance design,no vision difference on the display screen, no deformation and accurate lens layout obtained, bifocal lens can be positioned quickly and accurately, the small lens can also be put in clear projectile.

- Large observation window directly observed through the mirror in the projection lens on the dial, more intuitive, more accurate, with lights, so that a clearer image, rotation rotary fixation sucker, the suction cup will be fixed at the lens center is more accurate.

Specifications

Electric Voltage	AC220-110V (50/60Hz)
Power	10W
Weight	3kg
Volume	30(L)*24.5(w)*30.5(H)cm

Pattern Maker

PM-100

Pattern Maker

PM-100A

PM-100B

Features

- ◆ PM-100A use Stainless spareparts, imported milling bits.
- ◆ PM-100B use Copper spareparts, common milling bits.
  Etailed product description
- ◆ The direct use of glasses lens or an existing template to produce optical lenses as the benchmark.
- ◆ Standard template,whether new or repair glasses can be applied.
- ◆ Lens clamping device, easy for operation.
- ◆ With three suction cup of Takubo, Briot and Topcon, easy to swap for a different lens edger.
- ◆ Cutting templates speed quickly and processing accurately.

Specifications

Power Supply	AC 220-100V (50/60Hz)
Power	50W
Weight	4.2 kg
Dimensions	34*22*21 cm

PM-300

Lens Cutter

Features

- ◆ Put a lens which has been marked the axis on lens meter and layout blocker into
- ◆ the position of lens and then fix it by the left knob and be ready to cut.
- ◆ Quick speedol cutter.
- ◆ Imnorted miling cut.
- ◆ With a knob lo control the size of lens to cut.

Specifications

Dimensions	29*23*26(cm)
Voltage	AC 220-100V (50/60Hz)
Power	100W

Saw Machine & Tinting Machine

SM-100
Saw Machine

Features

◆ Two pieces of rotated bits including 1.00mm and 0.8mm.
Covenient and quick operation.

Specifications

Electric Voltage	AC220-110V (50/60Hz)
Power	100W
Dimensions	230(L)*160(w)*160(H)mm
Weight	1.5KG

TM-6

Tinting Lens Machine

Features

◆ 6 pots of stainless tinting bath.
◆ Temperature adjustable.
◆ Bath:700ml.

Lens Tester Series

UV Lens Tester

Features

- Available for testing UV-400 lens, anti-radiation lens, true and false currency.
  Detailed Product Description
- Made of the high-precision electronic components;
- Anti-UV rays shading monitor;
- Anti-UV optical lens detector;
- Anti-Radiation monitor;
- Using the UV testing light on this detector, you will be able to tell if the lens can block out UV rays easily.
- There are two black buttons on the upper right corner, with a normal lens, you will see Anti-UV display light to turn to red when you place the lens on the Anti-UV testing positon.If the light turns to green, which neans the lens is the Anti-radiation lens.

UV-100   **UV-100A**   **UV-300**

Specifications

Model	UV-100	UV-100A(adjust)	UV-300
Light	LED	LED	LED
Quantity	One Light	One Light	Three Light
Power Consumption	10W	10W	10W
Acceptable diameter of lens	10-80mm	10-80mm	10-80mm
Unit G.W.	0.7kg	0.73kg	0.83kg
Unit Size	26*14*11cm	26*14*11cm	26*14*11cm
Packing Quantity	20pcs/ctn	20pcs/ctn	20pcs/ctn
CTN G.W.	15kg	15kg	18kg
CTN Size	74*29*46cm	74*29*46cm	74*29*46cm
Power Source	AC 220-100V (50/60Hz)		

Lens Tester Series

UV & Photochromic Lens Tester

Features

◆ Combination tester available for testing UV-400 lens, anti-radiation lens, and photochromic lens .

Detailed Product Description

◆ Innovative products, a multi-purpose machine;

◆ Convenient and quick operation.

Specifications

Electric voltage	AC220-110V (50/60Hz)
Power	20W
Weight	0.6kg
Volume	26(L)*14(w)*10.5(H)cm

UP-400

Photochromic Tester

Features

◆ In indoors or under the sun to test the lens whether photochromic Lens, or test the photochromic Lens's color.

Detailed Product Description

◆ Do not need sunlight to make photochromic Lens change color at once.

◆ Convenient and quick operation.

CA-100　　**CA-200**　　**CA-300**　　**CA-400**

Specifications

Model	CA-100	CA-200	CA-300	CA-400
Unit G.W.	0.5kg	0.74kg	1kg	0.4kg
Size	23*10.5*12cm	27*12*13cm	27.5*23.5*11.5cm	22*13*9cm
Packing Quantity	20pcs/ctn	20pcs/ctn	16pcs/ctn	22pcs/ctn
CTNG.W.	10.2kg	15.7kg	17.4kg	10kg

Lens Tester Series

PR-888
Multifunctional Lens Tester
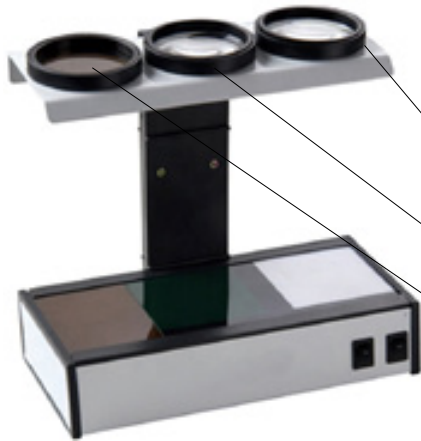
Features

- Stress Testing Point:To test the situation about the stress of the lens.
- Multifocal Testing Point :To check the multifocal lens.
- Surface Testing Point:To test the surface of the lens whether there are any scratches.

Lens scraiches check

Mut-focal lens testing

Stress testing

LY-8C

Contact Lens Analyzer

Features

- Contact Lens Tester and Orthokeratology Lens Checker.
- Adopting Zeiss Magnifying Lens.
- Connectable to HDMI screensy .
- Connectable to computers.
- Especially good for checking contact lens and Orthokeratology Lens.
- Also good for checking jewellery and watchesy .
- Magnification Range from 10x-500xy Image sensor: 5M HD.
- Definition: 12M, 8M, 5M, 3M, 1.3M .
- Battery capacity: 800mha 3.7V.
- Volt Input:' 100-240V 50/60hz.

Strain Gauge & Blue Ray Tester

Loudly

LD-15

Strain Gauge

Features

◆ Observing the light and shade stripes of the lenses, understanding the internal deflection, not only for transparent lenses, but also for a wide range of colored lenses.

◆ **Detailed Product Description**
Can rotate the polarizer rotating disk, adjust brightness;
The lens can be directly placed on the lens seat can be observed, simple and easy to use.

Specifications

Electric Voltage	AC220-110V (50/60Hz)
Power	15W
Weight	0.5kg
Volume	17(L)*12(w)*20(H)cm

LT-828

Blue Ray Tester

Features

◆ This tool is designed to help demonstrate how our new lens can block the 400nm~420nm range of High Energy Visible(HEV)light in addition to UV light.

◆ The kit uses AA batteries X 8.

◆ Open the battery box and place the batteries. Please ensure that+/-is correct.

◆ Make sure that the switch of the battery box is on.Please press the main power switch.

◆ The kit can run continuously for up to 10 houre, so when the light brightness starts to decrease,please change the 8 batteries at that time.

Specifications

Packing Dimension	38*24*16cm
G.W.	1.4kg
Packing Quantity	10pcs/ctn
Carton Size	52*39*78cm
Approx G.W.	15.7kg

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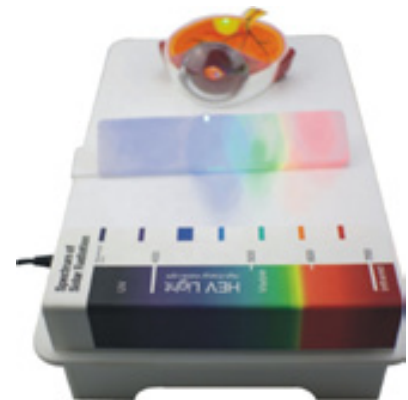
Radian Apparatus

A12	A12A	A12D

Thickness Apparatus

A13	A13A	A13D

Tool Box

B07	B07S	B08

005B	A21F
Spec:253×193×50mm	Spec:Φ60*60*10mm

Blocking Pads

NO:A23S
Spec18mm

NO:A23M
Spec21mm

NO:A23L
Spec24mm

NO:A23MM
Spec18mm

NO:A23NN
Spec18mm

NO:A23D
Spec18mm

NO:A23SR
Spec18mm

NO:A23MR
Spec21mm

NO:A23LR
Spec24mm

NO:A23MMR
Spec18mm

NO:A23NNR
Spec18mm

NO:A23DR
Spec18mm

NO:A23SH
Spec18mm

NO:A23MH
Spec21mm

NO:A23LH
Spec24mm

NO:A23MMH
Spec18mm

NO:A23NNH
Spec18mm

NO:A23DH
Spec18mm

Suction Cups
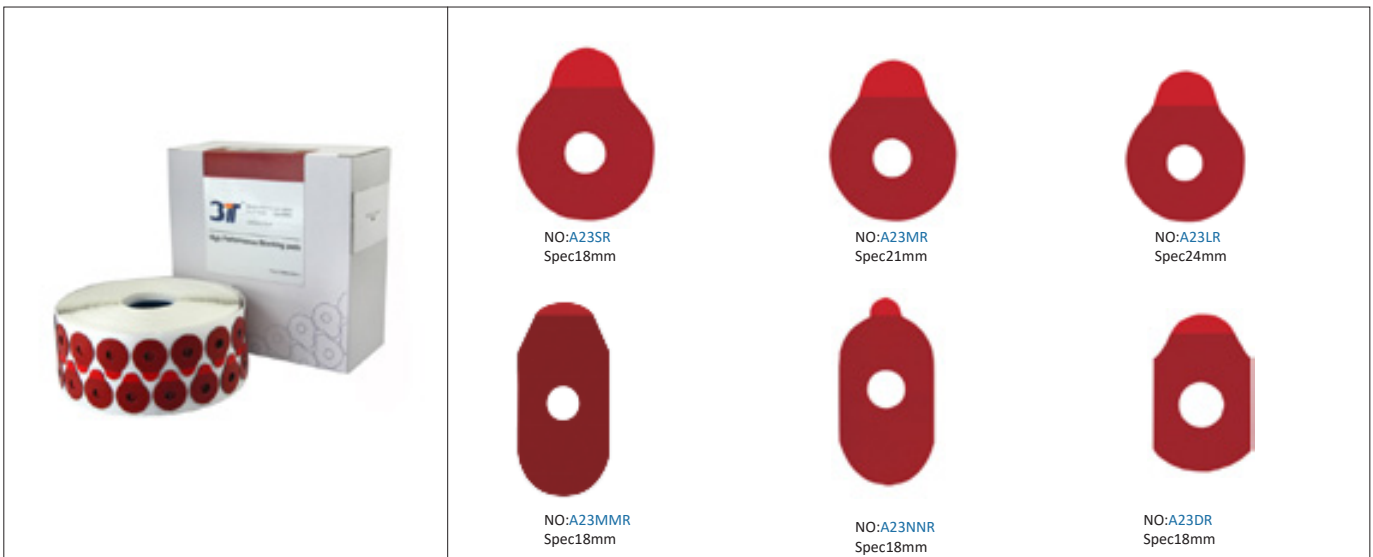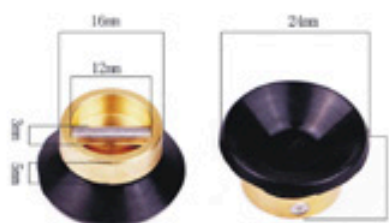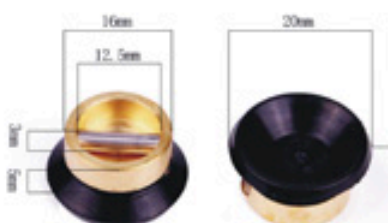
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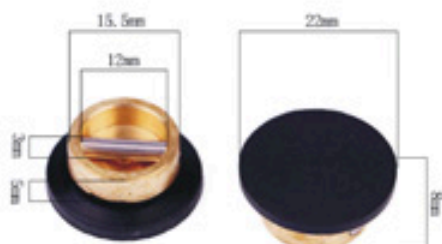
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LF-8203

LF-8204

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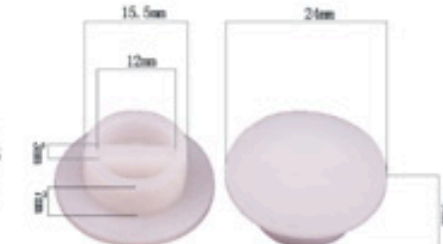
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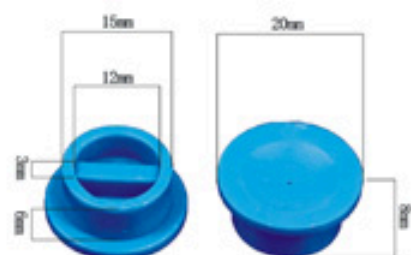
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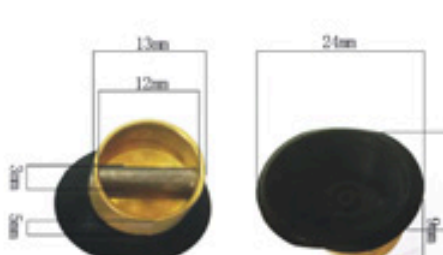
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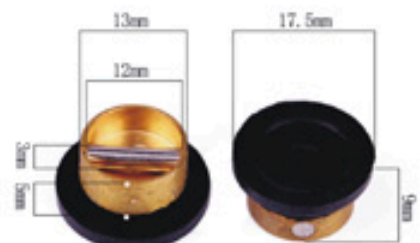
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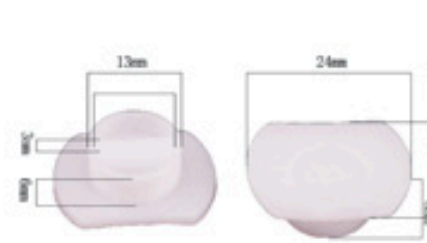
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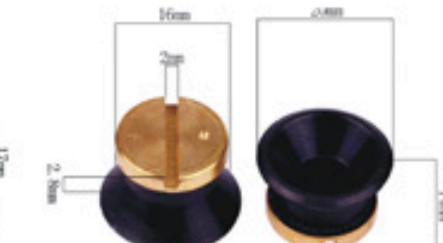
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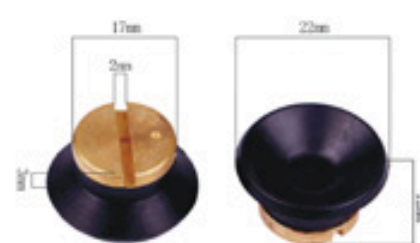
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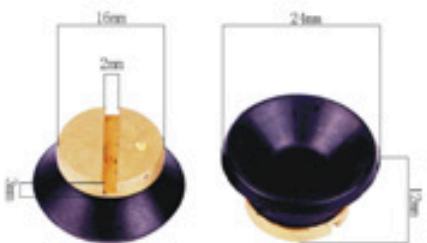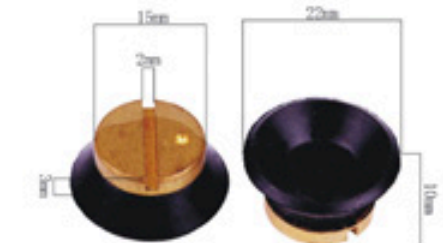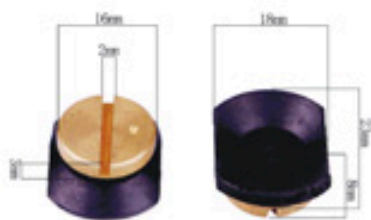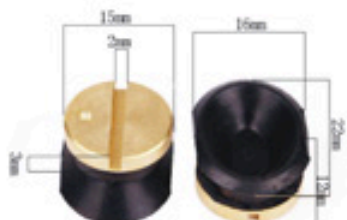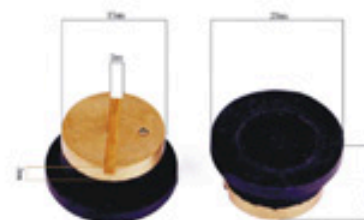
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LF-8217

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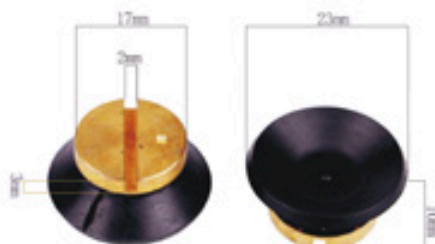
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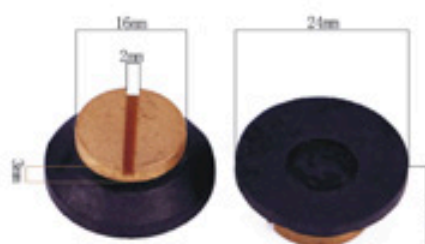
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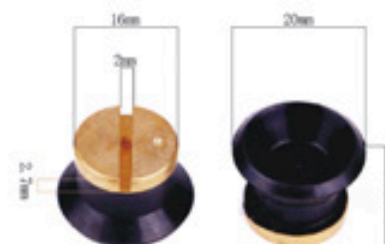
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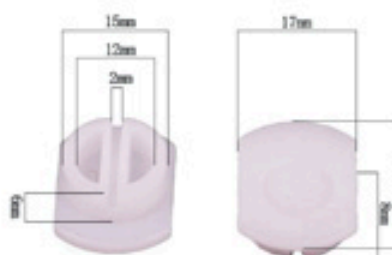
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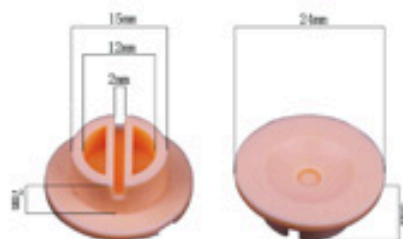
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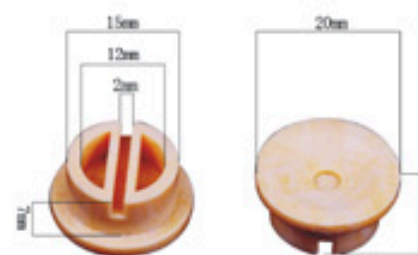
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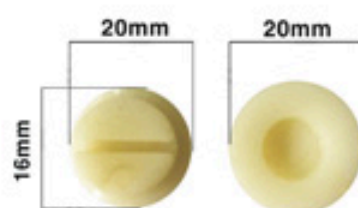
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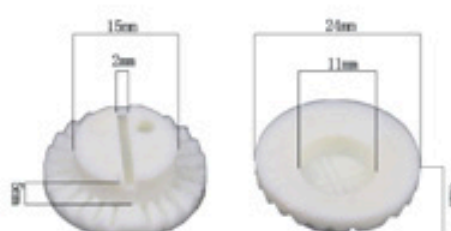
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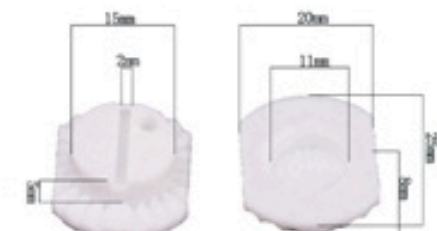
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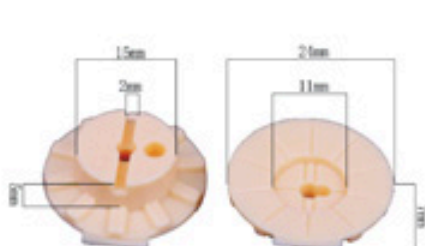
LF-8228

LF-8229

LF-8230

Suction Cups
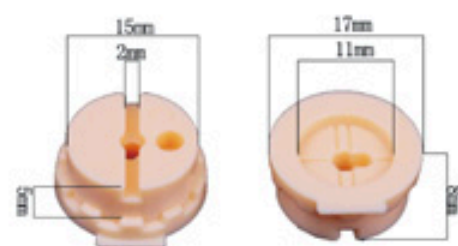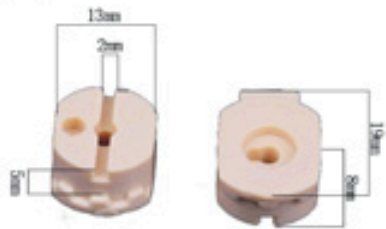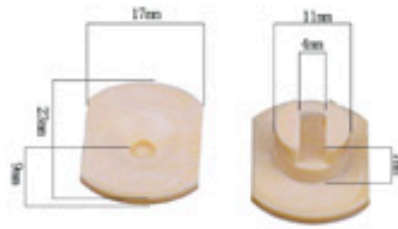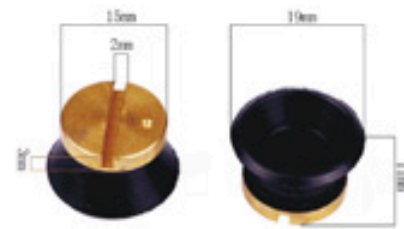
LF-8231

LF-8232

LF-8233
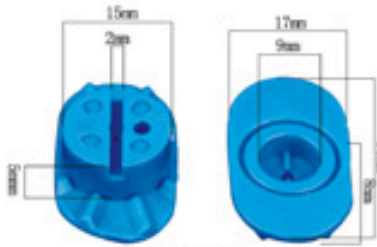
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LF-8235

LF-8236

LF-8237
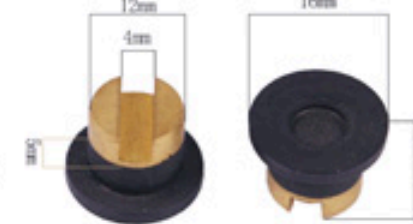
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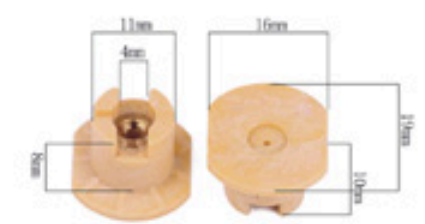
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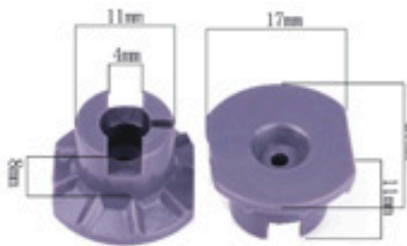
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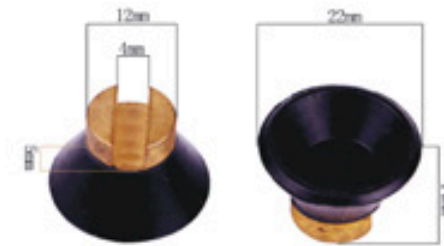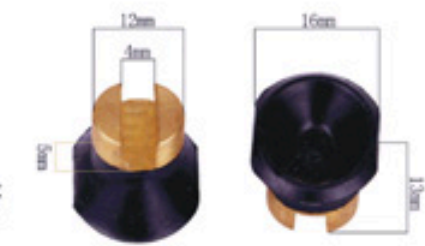
17mm-SET-9pcs

LF-8241

25mm-SET-9pcs

LF-8242

19mm-SET-9pcs

LF-8243

LF-8244

LF-8245

Suction Cups

LF-8246	LF-8247	LF-8248
LF-8249	LF-8250	LF-8251
LF-8252	LF-8253	LF-8254
LF-8255	LF-8256	LF-8257
LF-8258	LF-8259	LF-8260

Suction Cups
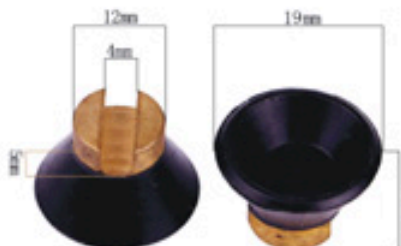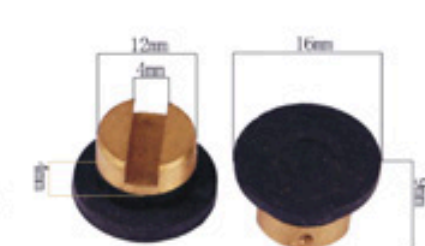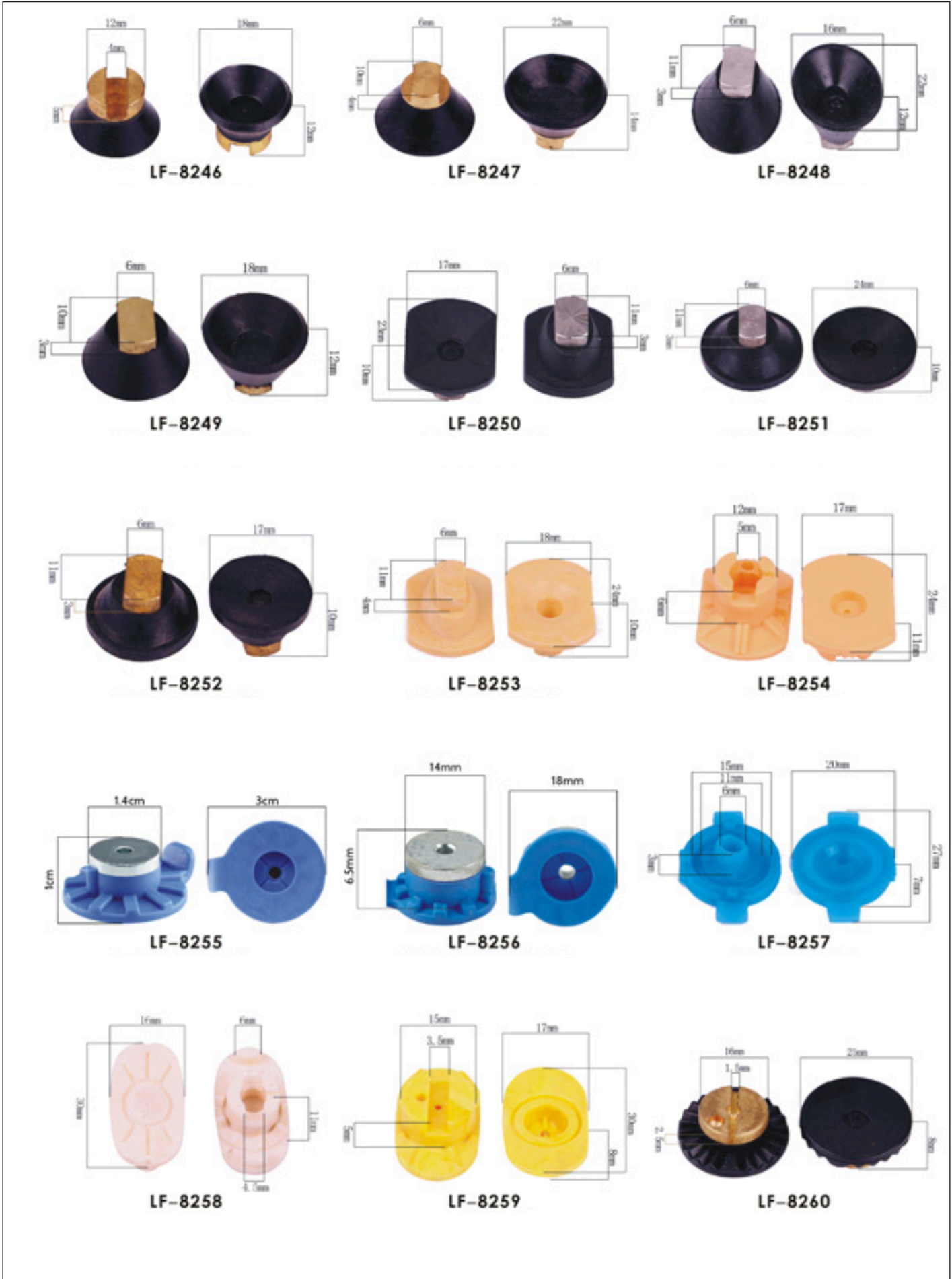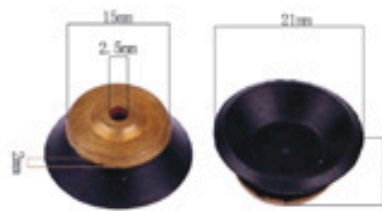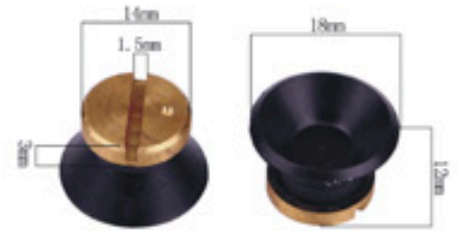
LF-8261

LF-8262

LF-8263

LF-8264
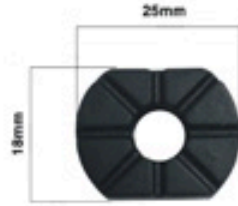
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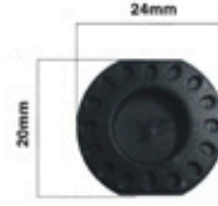
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LF-8266

LF-8267
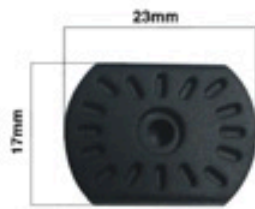
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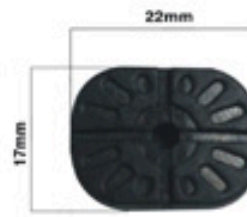
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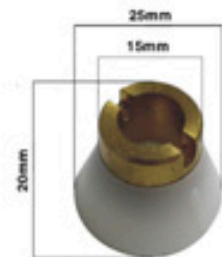
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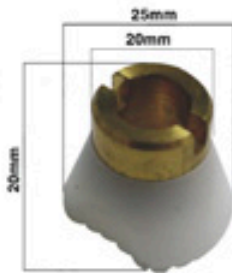
LF-8270-1

LF-8270-2

LF-8270-3

LF-8271

LF-8273

Plier & Screwdriver Set

B01A

Spec:177x140x25mm		
Poetry pliers	AB923	1pc
Poetry Pliers (demolition)	AB924	1pc
Poetry pliers (cut)	AB931	1pc
Pliers plastic head spare parts	AB923A	1pr
Pliers plastic head spare parts	AB924A	1pr
Drilling fixture	019B	2pcs
Reaming needle		1pc
Poetry frame	1.4*7.0	10pcs
Anti-slip film		20pcs
Explosion-proof PVC sheet		10pcs

B01C

Spec:177x140x25mm		
Poetry pliers	AB929	1pc
Poetry Pliers (demolition)	AB930	1pc
Poetry pliers (cut)	AB931	1pc
Pliers plastic head spare parts	AB929A	1pr
Pliers plastic head spare parts	AB930A	1pr
Drilling fixture	019B	2pcs
Reaming needle		1pc
Poetry frame	1.4*7.0	10pcs
Anti-slip film		20pcs
Explosion-proof PVC sheet		10pcs

B07S-A

8 pairs of pliers 6 screwdrivers			
AB14	Flat Semicircular Snipe Nose Plier	A19C-01 ⊖ 1.6	Slot-1.6
AB18	Pad Adjusting Plier	A19C-02 ⊖ 1.8	Slot-1.8
AB21	Inclination Plier	A19C-03 ⊕ 1.5	Slot+1.5
AB28	Nylon Eyewire Shaper	A19C-04 ⊕ 1.8	Slot+1.8
AB47	Screw Cutter	A19C-06 ◎ M2.32	Hex 2.32
AB59	Trident Plier	A19C-09 ◎ M2.82	Hex 2.32
AB901	Multi-purpose Adjusting Plier		
AB923	Mounting Plier (horizontally) for Rimless Frames		
		4 with workbench head	
		⊖ 1.6 ⊖ 1.8	
		⊕ 1.5 ⊕ 1.8	

Plier & Screwdriver Set

B07-A

13 pairs of pliers 6 screwdrivers			
AB15	Curve Semicircular Snipe Nose Plier	A19C-01⊖1.6	Slot-1.6
AB18	Pad Adjusting Plier	A19C-02⊖1.8	Slot-1.8
AB21	Inclination Plier	A19C-03⊕1.5	Slot+1.5
AB28	Nylon Eyewire Shaper	A19C-04⊕1.8	Slot+1.8
AB40	Lens Aligner	A19C-06◎M2.32	Hex 2.32
AB47	Screw Cutter	A19C-09◎M2.82	Hex 2.82
AB50	Screw Cutter		
AB55	Pad Removable Plier		
AB59	Trident Plier		
AB901	Multi-purpose Adjusting Plier		
AB923	Mounting Plier (horizontally) for Rimless Frames		
AB924	Removable Plier (horizontally) for Rimless Frames		

B08AB

8 pairs of pliers 6 screwdrivers			
AB14	Flat Semicircular Snipe Nose Plier	A19C-01⊖ 1.6	Slot-1.6
AB18	Pad Adjusting Plier	A19C-02⊖ 1.8	Slot-1.8
AB21	Inclination Plier	A19C-03⊕1.5	Slot+1.5
AB29	Nylon Eyewire Shaper	A19C-04⊕1.8	Slot+1.8
AB40	Lens Aligner	A19C-06◎M2.32	Hex 2.32
AB47	Screw Cutter	A19C-09◎M2.82	Hex 2.82
AB59	Trident Plier		
AB901	Multi-purpose Adjusting Plier		

B08AC

8 pairs of pliers 6 screwdrivers			
AC14	Flat Semicircular Snipe Nose Plier	A19C-01⊖1.6	Slot-1.6
AC15	Curve Semicircular Snipe Nose Plier	A19C-02⊖1.8	Slot-1.8
AC18	Pad Adjusting Plier	A19C-03⊕1.5	Slot+1.5
AC21	Inclination Plier	A19C-04⊕1.8	Slot+1.8
AC29	Nylon Eyewire Shaper	A19C-06◎M2.32	Hex 2.32
AC47	Screw Cutter	A19C-09◎M2.82	Hex 2.82
AC59	Trident Plier		
AC901	Multi-purpose Adjusting Plier		

Screwdriver Set

Mini Screwdriver set

⊕1.4   ⊕1.6
⊕1.6   ⊖2.0
⊖1.6   ⊖2.02
◎2.32 ◎2.32
◎2.52 ◎2.52

SL020

Tweezers
Length:11.5cm

TS-12

Mini Screwdriver set

⊕1.5   ⊕1.5
⊕2.0   ⊕2.0
⊖1.5   ⊖1.5
◎2.0   ◎2.0
◎2.5   ◎2.5

SL030

Mini Screwdriver set

⊕1.5 ⊕1.7 ⊕2.0
⊖1.5 ⊖1.7 ⊖2.0
◎2.0 ◎2.3 ◎2.5 ◎

SL040

Mini Screwdriver set

⊕1.5   ⊕1.7
⊕2.0   ⊕2.5
⊖1.5   ⊖2.0
◎2.0   ◎2.3
◎2.5   ◎T

SL050

Screwdriver set
Spec:-1.6/-1.8
      +1.5/+1.8

◎2.02 ◎2.52
◎2.32 ◎2.82
◎2.57

A19B

Screwdriver set
Spec:-1.6/-1.8
      +1.5/+1.8

◎2.02 ◎2.52
◎2.32 ◎2.82
◎2.57

A19C

Screwdriver set
Spec:-1.5/-1.8
      +1.8

◎2.32 ◎2.52
◎2.57 ◎2.82

A19E

Plier

AB900	AB901	AB14	AB15	AB18
AB21	AB23	AB28	AB29	AB30
AB36	AB37	AB38	AB39	AB40
AB47	AB49	AB50	AB55	AB59

Plier

AB923	AB924	AB925	AB926	AB929
AB930	AB931	AC900	AC901	AC14
AC15	AC18	AC21	AC28	AC29
AC30	AC36	AC37	AC38	AC39

Plier

AC40	AC47	AC49	AC55	AC59
AC929	AC930	AC931		

Screwdriver

-1.6	-1.8	+1.5	+1.8	⊚2.02
A19C-01	A19C-02	A19C-03	A19C-04	A19C-05

⊚2.32	⊚2.57	⊚2.52	⊚2.82	-1.6
A19C-06	A19C-07	A19C-08	A19C-09	A19B-01

-1.8	+1.5	+1.8	⊚2.02	⊚2.32
A19B-02	A19B-03	A19B-04	A19B-05	A19B-06

⊚2.57	⊚2.52	⊚2.82		
A19B-07	A19B-08	A19B-09		

Screw

Picture	Model Number	Artwork	Size(H*L*M)		Picture	Model Number	Artwork	Size(H*L*M)
	S001		2.0x1.4x2.0			S034		1.8x1.0x5.8
	S002		2.0x1.4x2.2			S035		1.8x1.2x6.0
	S003		2.0x1.4x2.4			S036		2.0x1.4x5.6
	S004		2.0x1.4x2.6			S037		2.0x1.4x6.0
	S005		2.0x1.4x2.8			S038		2.0x1.4x6.5
	S006		2.0x1.4x3.0			S039		2.0x1.4x7.0
	S007		2.0x1.4x3.2			S040		2.0x1.4x7.5
	S008		2.0x1.4x3.4			S041		2.0x1.4x8.5
	S009		2.0x1.4x3.6			S084		2.0x1.4x7.5
	S010		2.0x1.4x3.8			S085		1.8x1.2x12.0
	S011		2.0x1.4x4.0					
	S012		2.0x1.4x4.5					
	S013		2.0x1.4x5.0					
	S014		2.5x1.4x5.0					
	S015		1.4x1.0x3.6			S042		2.5x1.2x10.6
	S016		1.4x1.0x3.6			S043		2.5x1.2x10.7
	S017		1.6x1.0x4.0			S044		1.8x1.2x12.0
	S018		1.6x1.0x3.6			S045		2.5x1.2x12.0
	S019		1.8x1.0x3.6			S046		2.5x1.4x12.0
	S020		1.8x1.0x3.6					
	S021		1.6x1.0x4.2					
	S022		1.6x1.0x4.2					
	S023		1.8x1.2x3.6					
	S024		1.8x1.2x3.6					
	S025		2.5x1.4x3.0					
	S026		2.5x1.4x3.2					
	S027		2.5x1.4x3.6					
	S028		2.5x1.4x4.0					
	S029		2.5x1.4x6.0					
	S030		2.5x1.6x5.5					
	S031		2.5x1.6x5.0					
	S032		2.5x1.6x4.0					
	S111 即可通孔又可不通孔		1.4x0.8x7.0 1.5x0.8x7.0 1.6x0.8x7.0			S074		2.0x1.4x3.0
						S075		2.0x1.4x3.6
						S076		2.0x1.4x4.0
						S077		2.0x1.4x3.4

Color can be customized   **Size can be customized**   **Provide subpackage service**

Nose Pad Set

SB002

Name	Model	Size	Qty
Screw-in sillicon nose pad (L)	CY001	L:13mm	10pairs
Screw-in sillicon nose pad (R)	CY001	L:13mm	10pairs
Screw-in sillicon nose pad	CY006	L:13mm	10pairs
Screw-in sillicon nose pad	CY010	L:13mm	10pairs
Screw-in sillicon nose pad	CY012	L:15mm	10pairs
Round sillicon nose pad	CY014	L:9mm	10pairs
Oval head screw	CY024	L:13mm	10pairs
Round sillicon nose pad	CY027	L:9mm	10pairs

SB005

Name	Model	Size	Qty
Screw-in PVC nose pad	CY079	L:13mm	20pairs
Screw-in PVC nose pad	CY080	L:15mm	20pairs
Push-in PVC nose pad	CY101	L:15mm	20pairs
Screw-in PVC nose pad	CY081	L:13mm	20pairs
Push-in PVC nose pad	CY084	L:13mm	20pairs
Screw-in PVC nose pad	CY087	L:12mm	20pairs
Screw-in PVC nose pad	CY088	L:11mm	20pairs
Push-in PVC nose pad	CY091	L:9mm	20pairs
Push-in PVC nose pad	CY093	L:8mm	20pairs
Screw-in PVC nose pad	CY083	L:14mm	20pairs
Screw-in PVC nose pad	CY078	L:10mm	20pairs
Screw-in PVC nose pad	CY102	L:11mm	20pairs
Screw-in aluminum core PVC nose pad-Golden	CY116	L:14mm	20pairs
Screw-in aluminum core PVC nose pad-Silver	CY120	L:11mm	20pairs
Push-in PVC bridge nose pad for child	CY126	30*20	10pairs

SB008

Name	Model	Size	Qty
Screw-in sillicon nose pad(left)	CY001	L:13mm	10pairs
Screw-in sillicon nose pad(right)	CY001	L:13mm	10pairs
Screw-in sillicon nose pad	CY006	L:13mm	10pairs
Screw-in sillicon nose pad	CY010	L:13mm	10pairs
Screw-in sillicon nose pad	CY012	L:13mm	10pairs
Round sillion nose pad	CY014	L:9mm	10pairs
Oval sillion nose pad	CY024	L:13mm	10pairs
Round sillion nose pad	CY027	L:9mm	10pairs
Push-on sillion nose pad	CY006	L:13mm	10pairs
Push-on sillion nose pad	CY010	L:13mm	10pairs

SN001

Name	Model	Size	Qty
Sillicon nose pad(left)	CY001	L:13mm	20pairs
Sillicon nose pad(right)	CY001	L:13mm	20pairs
Sillicon nose pad(left)	CY003	L:15mm	20pairs
Sillicon nose pad(right)	CY003	L:15mm	20pairs
Sillicon nose pad	CY006	L:13mm	20pairs
Sillion nose pad	CY008	L:15mm	20pairs
Sillion nose pad	CY010	L:13mm	20pairs
Sillion nose pad	CY011	L:14mm	20pairs
Sillion nose pad	CY012	L:15mm	20pairs
Sillion nose pad	CY015	L:11mm	20pairs
Sillion nose pad	CY024	L:13mm	20pairs
Sillion nose pad	CY027	L:19mm	20pairs

Nose Pad

Push-in / Screw-in	13×7 **CY001**	14×7 **CY002**	15×8 **CY003**	17×8 **CY004**

Push-in / Screw-in	12×7 **CY005**	13×7 **CY006**	14×8 **CY007**	15×8 **CY008**

17×10 **CY008-1**

Push-in / Screw-in	12×7 **CY009**	12.5×7 **CY009-1**	13×7 **CY009-2**	13×7.5 **CY009-3**

15×7.5 **CY012**　　16×9 **CY013**

Push-in / Screw-in	Φ9 **CY014**	Φ9.5 **CY015**	Φ11 **CY016**

Push-in / Screw-in	13.5×8 **CY029**	14×8 **CY030**	13.5×8 **CY031**

Nose Pad

Push-in　　Screw-in

14.5×8 **CY033**	15×8 **CY034**	16×10 **CY035**	17×9 **CY036**	19×10.5 **CY036-1**

Push-in　　Screw-in

13×6.5 **CY201**	15×7 **CY202**

Push-in　　Screw-in

31×15 **CY067**	40×15 **CY068**
45×15 **CY069**	27×19 **CY232**
31×17 **CY233**	27×14 **CY234**

Microfiber Cloth

MC001

80% polyester
20% polyamide
Weight(g/sqm) 180g/200g
210g/230g/250g

MC002

Chamois microfiber

MC003

Suede microfiber

MC004

80% polyester
20% polyamide clouds

MC005

Mesh microfiber

MC006

Japanese microfiber

MC007

90% polyester
10% polyamide

MC008

100% polyester one side brushed
Weight(g/sqm) 140g

MC009

100% polyamide emboss
Weight(g/sqm) 140g

MC010

High-shrinkage cloth

MC011

Imported
80% polyester
20% polyamide

MC012

80% polyester
20% polyamide

Microfiber Cloth

Edge

Zigzag-cut

Straight-cut

Crescent

Straight round corner

Ultrasonic saw-cut

Sewn edge

common size	Available colour

15CM

15CM

15CM

15CM

Size can be customized

粉色 Pink	玉兰 Shamrock	黄色 Yellow	浅绿 Light Green
灰色 Gray	白色 White	黑色 Black	
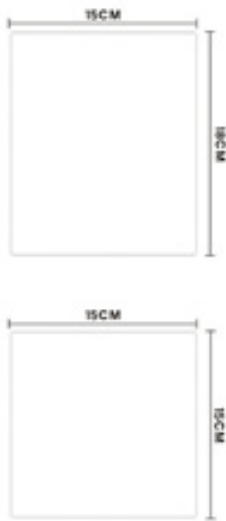
Color can be customized

Printing

Silk screen

Embossed

Hot stamping

Transfer printing

PVC&CARD

OPP&CREWDRIVER

PAPER

Eyeglasses Case

RIC158 **155*55*25mm**	**RIC160** **155*60*30mm**	**RIC160+** **160*60*40mm**	**RIC161** **160*50*35mm**
RIC168 **160*55*43mm**	**RIC188** **160*55*40mm**	**RIC201** **160*60*45mm**	**RIC202** **160*60*45mm**
RIC203 **155*55*32mm**	**RIC205** **155*60*40mm**	**RIC207** **150*45*30mm**	**RIC208** **155*55*30mm**
RIC210 **160*60*30mm**	**RIC211** **95*47*20mm**	**RIC212** **160*55*40mm**	**RIC213** **155*65*36mm**
RPC222 **150*55*40mm**	**RPC224** **150*65*40mm**	**RPC226** **150*70*30mm**	**RPC228** **160*60*30mm**
RPC229 **160*65*45mm**	**RPC230** **170*70*60mm**	**RPC231** **155*45*35mm**	**RPCR1** **155*20*50mm**

Eyeglasses Case

RHC823
160*58*34mm

RHC824
158*54*33mm

RHC844
158*61*35mm

RHC845
157*40*63mm

RHC846
160*55*43mm

RHC847
155*50*30mm

RHC848
150*48*36mm

RHC849
155*48*36mm

E801
170*80*70mm

E802
163*75*55mm

E804
173*90x65mm

E805
160*72*60mm

E811
160*60*40mm

E812
160*60*40mm

E813
160*70*60mm

E814
170*75*50mm

CL C001

CL C002

CL C003

CL C004

CL C005

CL C006

Frame

15959

Total width 142mm	**Frame width** 50mm	**Frame height** 46mm	**Nasal spacing** 20mm	**Long legs** 141mm

Model	15959	Type	Flat mirror
Material	PC	Function	Optician/decoration
Crowd	Unisex	Weight	19G

NO.1/Color

NO.2/Color

NO.3/Color

NO.4/Color

NO.5/Color

3028

Total width 141mm	**Frame width** 53mm	**Frame height** 36mm	**Nasal spacing** 14mm	**Long legs** 137mm

Model	3028	Characteristics	Light
Material	PC/AC	Style	Retro
Crowd	Unisex	Weight	17G

NO.1/Color

NO.2/Color

NO.3/Color

NO.4/Color

NO.5/Color

2360

Total width 135mm	**Frame width** 50mm	**Frame height** 42mm	**Nasal spacing** 17mm	**Long legs** 139mm

Model	2360	Characteristics	Light
Material	PC/AC	Style	Trend
Colors	5	Weight	18G

C4

C5

C6

C7

C8

Frame

2179

Total width 137mm	**Frame width** 47mm	**Frame height** 41mm	**Nasal spacing** 15mm	**Long legs** 138mm

Model	2179	Name	Retro flat mirror
Material	PC	Function	Optician/decoration
Brand	MANNA	Weight	21G

NO.1/Color

NO.2/Color

NO.3/Color

NO.4/Color

NO.5/Color

1526

Total width 140mm	**Frame width** 51mm	**Frame height** 48mm	**Nasal spacing** 18mm	**Long legs** 140mm

Model	1526	Characteristics	Light
Material	metal	Function	decoration
Crowd	Unisex	Weight	21G

NO.1/Color

NO.2/Color

NO.3/Color

NO.4/Color

NO.5/Color

30031

Total width 130mm	**Frame width** 51mm	**Frame height** 37mm	**Nasal spacing** 16mm	**Long legs** 128mm

Model	30031	Function	Optician/decoration
Material	Mental	Weight	16G
Crowd	Unisex		

NO.1/Color

NO.2/Color

NO.3/Color

NO.4/Color

NO.5/Color

Frame

1525

Total width 140mm	**Frame width** 51mm	**Frame height** 41mm	**Nasal spacing** 19mm	**Long legs** 145mm

Model	1525	Function	decoration
Material	Mental	Weight	23.5G
Crowd	Unisex		

NO.1/Color
Bright black

NO.2/Color
Sand black

NO.3/Color
Vintage bag flower

NO.4/Color
Topping tea

NO.5/Color
Transparent powder

1520

Total width 143mm	**Frame width** 52mm	**Frame height** 45mm	**Nasal spacing** 20mm	**Long legs** 140mm

Model	1520	Function	decoration
Material	Metal	Weight	22G
Crowd	Unisex		

NO.1/Color
Bright black

NO.2/Color
Transparent powder

NO.3/Color
Transparent white

NO.4/Color
Topping tea

NO.5/Color
Vintage bag flower

30032

Total width 131mm	**Frame width** 49mm	**Frame height** 39mm	**Nasal spacing** 16mm	**Long legs** 134mm

Model	30032	Function	Optician/decoration
Material	Metal	Weight	21G
Crowd	Unisex		

NO.1/Color
Sand black

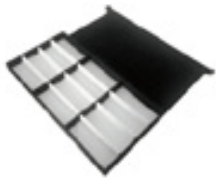**NO.2/Color**
Rose gold - black

NO.3/Color
Nickel white - black

NO.4/Color
Sand gold

NO.5/Color
Gun gray - black

Frame Display

PAIRS:12
QTY:20PCS/CTN
SIZE:48*24*3.2cm
PACK:50*39*51cm

AQ205-12

PAIRS:15
QTY:20PCS/CTN
SIZE:48*24*3.2cm
PACK:50*39*51cm

AQ205-15

PAIRS:18
QTY:10PCS/CTN
SIZE:48*35.5*5.8cm
PACK:58*37*51cm

AQ207

PAIRS:16
QTY:10PCS/CTN
SIZE:32*48*5.8cm
PACK:58*34*51cm

AQ209

PAIRS:32
QTY:5PCS/CTN
SIZE:48.5*32*11cm
PACK:58*34*51cm

AP032

PAIRS:8
QTY:20PCS/CTN
SIZE:17.5*48*6cm
PACK:77*50*38cm

AW008

PAIRS:48
QTY:1PCS/CTN
SIZE:41*23*36.5cm
PACK:43*25*40cm

AS048

PAIRS:64
QTY:1PCS/CTN
SIZE:48.5*22.5*36cm
PACK:50*25*40cm

AS064

PAIRS:80
QTY:1PCS/CTN
SIZE:48.5*22.5*36cm
PACK:50*25*40cm

AS080

PAIRS:288
QTY:1PCS/CTN
SIZE:55*40*98cm
PACK:60*44*101cm

D106 White - blue

PAIRS:288
QTY:1PCS/CTN
SIZE:55*40*98cm
PACK:60*44*101cm

D106 Black -white

PAIRS:288
QTY:1PCS/CTN
SIZE:55*40*98cm
PACK:60*44*101cm

D106 Black

PAIRS:144
QTY:1PCS/CTN
SIZE:59*35.5*56cm
PACK:58*37*62cm

AQ0144

PAIRS:180
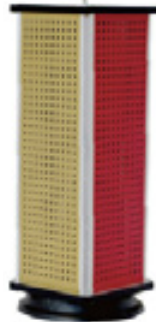QTY:1PCS/CTN
SIZE:46.5*26.5*56.5m
PACK:47*29*60cm

AQ0180
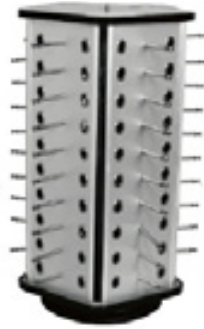
Frame Display

Glasses Display Stand On Table

A4010	A4011	A5050-50	A08	A5045
PAIRS:40	PAIRS:any	PAIRS:50	PAIRS:8	PAIRS:45
QTY:5PCS/CTN	QTY:5PCS/CTN	QTY:5PCS/CTN	QTY:3PCS/CTN	QTY:1PCS/CTN
SIZE:36*36*67cm	SIZE:27*27*67cm	SIZE:44*41*67cm	SIZE:20*22*71cm	SIZE:40*38*66.5cm
PACK:63.5*30.5*44cm	PACK:63.5*30.5*44cm	PACK:44*41*67cm	PACK:72*32*16cm	PACK:66*35*12cm

Glasses Display Stand On The Floor
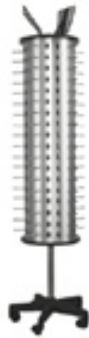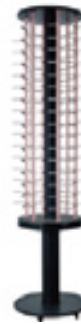
A4068	A5090	A2013	A3021	A3022
PAIRS:68	PAIRS:90	PAIRS:any	PAIRS:96	PAIRS:84
QTY:1PCS/CTN	QTY:1PCS/2CTN	QTY:1PCS/CTN	QTY:1PCS/2CTN	QTY:1PCS/2CTN
SIZE:48*48*159cm	SIZE:48*48* 175cm	SIZE:37*37*190cm	SIZE:40.5*46.5*181cm	SIZE:51*51"187cm
PACK:95*45*11cm	PACK:45*45*16cm	PACK:164*42*13cm	PACK:47*47*22cm	PACK:54*54*23.5cm
	117*17.5*9cm		123*17.5"9.5cm	129*18.5*13.5cm

Glasses Display Shelf Putting On The Wall

HD601	HD602
QTY:9PCS	QTY:14PCS
MEAS:95*23*21CM/13KGS	MEAS:129*23*21CM/17.5KGS

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