

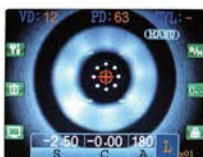
COLOR LCD SCREEN
BLACK & WHITE CCD

FEATURES

- 1) Using the ARM processor and the latest domestic image processing, the system is fast and the image is clear.
- 2) Japan's mature optical path system, humanized automatic mist measurement process, to reduce the error caused by adjustment, more precise measurements.
- 3) Light rack with integral casting, CNC machining, measuring system is more stable, good consistency.
- 4) Color LCD display, 5.7 inches man-machine interface is more comfortable.
- 5) PD automatic measurement function, automatically PD value
- 6) One key lock function, quickly locking mobile platforms
- 7) Innovative designs, according with the structure of human body engineering, to bring customers good aesthetic feeling and comfortable
- 8) Data transmission with CV7200, improved efficiency of online



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5.7 inch color LCD screen



Most each record 10 times, automatic display representative value



Intuitive interface, convenient adjustment, the VD value, the precision and print mode, etc.



Automatic mist target, effectively reduce the measurement error caused by adjusting



One key lock function, convenient and practical

SPECIFICATIONS

Measurement Range

- Vertex distance.....0.0, 12.0, 13.75, 15mm
- Sphere.....-20D~+20D(0.12/0.25D step)
- Cylinder.....0~±10D(0.12/0.25D step)
- Axis.....1~180°(1° step)
- Pupil distance.....30~85mm
- Minimum pupil diameter.....∅2.0mm
- Target.....automatic fogging target

Hardware specifications

- Monitor.....5.7" color LCD
- Printer.....Fast thermal printer
- Power saving function.....OFF, 5/15 mins (selectable)
- Power supply.....AC110~220V, 60/50Hz, 50W
- Dimension/weight.....288x500x480mm(14kgs)



Fast thermal printer



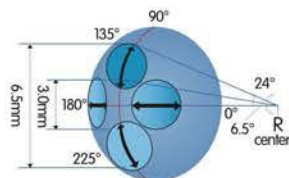
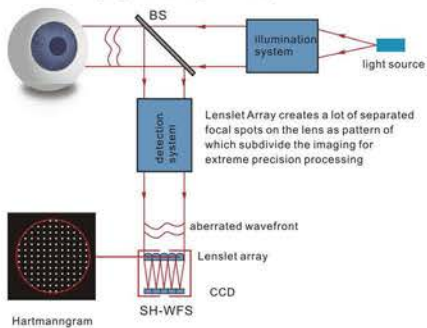
FEATURES

- New optical system, unique imaging impression
- Hartman imaging analyzing and processing technology, accurate measurement result
- TFT touch screen, can move front and back freely
- Motorized chinrest
- Auto paper-cutting printer
- Auto tracking and focusing during measuring



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Hartmann imaging processing technology



Measure peripheral keratometry precision of eyes with contact lenses fitting



Adjustable 7" LCD Touch Screen



Motorized Chin Rest



Auto Paper-Cutting Thermal Printer

SPECIFICATIONS

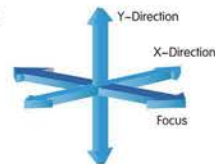
•Refractometry:

Vertex Distance(VD).....	0,12,13.75,15mm
Sphere(SPH).....	-30.00~+25.00(wide range) (VD=12mm,0.01,0.06,0.12 or 0.25D)
Cylinder(CYL).....	0.00~±10.00D(0.06,0.12 or 0.25D)
Axis(AX).....	1~180°(increment:1°)
Sign of cylinder.....	-,+±
Pupil Distance(PD).....	10~86mm
Pupil diameter.....	∅2.00~∅8.00mm
Minimum pupil diameter.....	∅2.0mm

•Others:

Monitor.....	Sharp 7 inch color TFT LCD touch screen (Angle of view adjustable)
Built-in Printer.....	57mm thermal printer, auto paper-cutting
Measuring Time.....	<0.5 second
Measuring light energy.....	<30μw(Insure measuring safety)
Memory of Data.....	10 measured values for each eye, both Refractometry and Keratometry
Power supply.....	AC 100~240V, 50/60Hz
Packing dimension.....	680(W)X400(D)X640(H)mm
Net weight/Gross weight.....	22kgs/26.5kgs
Data output.....	RS-232 Interface

3D Measuring System



Eye Socket Range



Start instrument, quickly move the device into the measuring area (black part)

Auto Tracking and Focusing



When move the device into the range of the patient's eye socket, it will track down a measuring focus of the eye automatically by the light sensors and 3D mechanism system inside(AF mode)

Auto Measuring



After auto focusing successfully, auto measuring(A mode) is performed. By these performances, an inexperienced user can also complete the measurement perfectly

•Keratometry:

Radius of curvature.....	5.00~10.00mm(increment:0.01mm)
Corneal power.....	33.00~67.00D (in case that the corneal equivalent refractive power is 1.3375)
Corneal astigmatism.....	0.00~15.00D (Increments0.06/0.12/0.25D)
Axis.....	1~180°(increment:1°)
Corneal diameter.....	2.01~14.00mm(increments: 0.1mm)

Operation interface function



Built-in Digital Image System
with professional photo and video

FEATURES

- The design was inspired from the shape of firefly. The smart design largely saves space for doctors with built-in camera.
- We have preset many camera setups so the user does not need to set many parameters before using the device. The user can operate the machine directly once the installation has been finished.
- The device carries Auto focus, auto exposure, auto gain, auto white balance, auto OS/OD indicator for photo shooting and processing when equipped with our software.

Manage Software

Convenient Patient Management

The patient management system enable doctors to build up and edit patient record, search information by inputting key words. Doctor can easily record symptoms and manage the data.

Functional Image Processing

Doctors can measure the pathology area with our powerful software tools and change the contrast and brightness of the images. Doctors can also compare several images at one time to analysis the symptoms and pathology.

Orthokeratology Treatment Assistance

The doctors can collect and store high resolution fluorescein photos and real time video without recording time limit.

Doctors can compare the photos and videos of patients' wearing different lenses to decide the most suitable lens for each patient.

SPECIFICATIONS

Microscope

Microscope type.....	Galilean Type
Magnification change.....	Five position revolving drum
Eyeieces.....	12.5X
Angle between eyepieces.....	13°
Total magnification(Field of view).....	40X (5.5mm), 25X (8.5mm), 16X (13.5mm), 10X (22mm), 6X (34.7mm)
Pupillary adjustment.....	52mm~78mm
Diopter adjustment.....	±6D

Slit Illumination

Slit width.....	Continuously variable from 0 to 14mm (slit becomes a circle at 14mm)
Slit length.....	Continuously variable from 1mm to 14mm
Aperture diameters.....	∅14mm, ∅10mm, ∅5mm, ∅3mm, ∅2mm, ∅1mm, ∅0.2mm
Slit angle.....	4 steps: 5°, 10°, 15°, 20°
Slit inclination.....	0°~180°
Filters.....	heat-absorbing, ND, Red-free, cobalt blue
Lamp.....	Type S390H: 6V20W Halogen bulb Type S390L: 3V/3W LED Module
Intensity of illumination.....	S390H ≥50KLX/S390L ≥60KLX

Power

Input voltage.....	220V, 50Hz/110V, 60Hz ±10%
Power consumption.....	30VA (S390H)/10VA (S390L)
Back ground illumination.....	LED 6V
Fixation light.....	LED 3V



Adjustable Aperture



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Capture system

Built-in image sensor.....	5 mega pixels
Photo resolution.....	2592X1944 pixel
Video resolution.....	1280X960, 25fps
Focus mode.....	Auto Focus
Exposure Mode.....	Automatic exposure, Automatic gain
Transmission interface.....	USB 2.0 High-speed 480Mbps port

DIGITAL MODULE

WITH BEAM SPLITTER

FEATURES

- With the digital module, foot capture and professional software, a normal slit lamp can be easy to upgrade to a digital slit lamp.
- Built in camera system can save space for doctors.
- Aperture can be adjusted at 7 different levels
- 3 kinds of beam splitters to choose:
DM-T Topcon type
DM-H Haag-streit type
DM-M S350 series
- The HDMI output can be used to connect the slit lamp with monitor.



Digital module with beam splitter



Foot capture



software



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SPECIFICATIONS

Microscope

Item no.	YZ-5X1	YZ-5X
Type	Galileo magnification changer with converging	Converging stereoscope
Model of magnifying	5 steps by drum rotation	Two-step magnifications
Eyeiece	12.5 X	10 X
Total magnification rate (Field-of-view)	6X(∅33mm), 10X(∅22.5mm), 16X(∅14mm), 25X(∅8.8mm), 40X(∅5.5mm)	10X(∅18mm), 16X(∅14.5mm)
Range of P.D. Adjustment	55mm to 75mm	55mm to 82mm
Diopter adjustment	-5D to +3D	±6D

For both YZ-5X1 & YZ-5X:

Illumination

Slit projection magnification.....	1, 16X
Slit width.....	continuous from 0mm to 14mm (become a circle at 14mm)
Slit height.....	continuous from 1mm to 14mm
Aperture diameter.....	14mm, 9mm, 5.5mm, 0.3mm
Slit angle.....	0° to 180° continuously adjustable from vertical to horizontal
Filter piece.....	Heat-absorbing, red-free, blue illumination bulb..... 6V 20W halogen bulb

Dimension and weight

Packing box.....	720mm X 495mm X 480mm
Total weight.....	23kgs
Net weight.....	17kgs

Chin-rest parts

Vertical movement.....	80mm
Fixation target.....	Red LED

Movement base

Fore and back movement.....	90mm
Left and right movement.....	100mm
Fine movement.....	15mm
Vertical movement.....	30mm

Power source

Input voltage.....	AC110V/220V ±10%
Input frequency.....	50/60Hz
Input power.....	30VA
Output voltage.....	illumination bulb 4V, 5V, 6V/Fixation target 6V
Electric safe standard.....	Conform to Standard IEC601-1, Class I Type B

YZ-5F1 SLIT LAMP

5 STEPS

FEATURES

The optical lens is made of glass which imported from Germany.
All the lens are multi-coated, mildew-proof and anti-reflection.
All the adaptors are universal.

SPECIFICATIONS

Type.....Galilean type drum
Magnification.....Five-step drum magnifications
Eye piece.....12.5X
Total Magnification.....6X(Φ33mm),10X(Φ22.5mm),16X(Φ14mm),
(Diameter of Visual Field) 25X(Φ8.8mm),40X(Φ5.5mm)
Diopter Adjustment.....-5D~+3D
Slit Height.....1mm~8mm continuously adjustable
Slit Width.....0mm~9mm continuously adjustable
Light Spot Diameter.....Φ9, Φ8, Φ5, Φ3, Φ2, Φ1, Φ0.2(mm)
Slit Angle.....0~180°
Slit Inclination.....5°, 10°, 15°, 20°
Filter.....heat absorption, grey, redfree, cobalt blue
Input Voltage.....110V/220V, 60/50Hz
Input Power.....58W
Illumination Bulb.....12V 30W halogen bulb
Fixation Bulb.....(red) LED
Whole Packing Volume.....0.18CBM
G/Weight.....25kgs



POWER BOX

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YZ-5J SLIT LAMP

2 STEPS

FEATURES

The optical lens is made of glass which imported from Germany.
All the lens are multi-coated, mildew-proof and anti-reflection.
Two step magnifications, 10X, 16X for choice.

SPECIFICATIONS

Microscope Type.....Converging stereoscope
Magnification.....two-step magnifications
Eye piece.....10X
Total Magnification and field of View(mm).....10X(Φ18),16X(Φ14.5)
Range of Pupil Distance(mm).....55~82
Adjustment of Diopter.....±6D
Slit Width(mm).....0~9 adjustable
Slit Height(mm).....1~8 adjustable
Slit Angle.....0~180°
Light Spot Diameter (mm).....Φ9, Φ8, Φ5, Φ3, Φ2, Φ1, Φ0.2(mm)
Filter.....heat absorption, grey, redfree, cobalt blue
Illumination Bulb.....12V/30W halogen bulb
Input Voltage/frequency.....AC220V ± 10%/50Hz ± 1Hz,
AC110V ± 10%/60Hz ± 1Hz,
Input Power.....58W
Electrical Safety Standard.....Conform to Standard
IEC 601-1.Class 1 Type B
Whole Packing Volume.....0.18CBM
G/Weight.....24kgs



POWER BOX

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YZ-5S DIGITAL SLIT LAMP**FEATURES**

It has built-in beam splitter and digital camera adaptor.
The digital camera should be CANON DSLR.
It covers all the functions and characteristics of YZ-5F1 with
big light spot.
It has background illumination system.
Photos can be taken by the button on the joystick.

OPTIONAL ACCESSORIES

R style or T style tonometer
Measurable ocular
Trihedron lens
Anterior chamber angle lens (single side lens or four sides lens)
Eyeground contact lens
Aspheric surface lens.

CAMERA RECOMMENDED SETTING

STEP 1) Turn the <Mode dial> to <M>.
STEP 2) Set the shutter speed 1/10 to 1/30 sec
STEP 3) Image-recording quality select <M>.
STEP 4) ISO setting: select ISO speed "ISO 800" at least
STEP 5) White Balance: select "Tungsten"



The camera should be Canon DSLR camera
(EOS digital) like EOS600D

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YZ-5T ANALYZE DIGITAL SLIT LAMP

This 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

FEATURES

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 17.9 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.
Famous for its excellent optics.



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YZ-5T = YZ-5S + software

KJ-5S1 HANDHELD SLIT LAMP

SPECIFICATIONS

Microscope type.....Binocular Crossed Stereoscope
 Eyepiece.....10X, 16X
 Objective Magnification.....1X
 Diameter of Light Spot.....1mm, 3mm, 5mm, 10mm
 Pupil Distance.....48mm to 70mm
 Adjustable Diopter.....-7D to +7D
 Working Distance.....80mm
 Slit width.....0-10mm adjustable
 Slit height.....1-10mm adjustable
 Slit Angle.....horizontal± 30°
 Filter.....Heat-absorption, Grey, Redfree, Cobalt blue
 Illumination Bulb.....white LED
 Power.....7.2V, Lithium Battery, Rechargeable
 Working Time.....5-6 hours
 Packing volume.....40x20x23cm
 Net weight.....750g
 Gross weight.....2600g

Standard Configuration

Carrying case(1pc) , Battery(2pc), Battery Charger(1pc),
 Forehead support(1pc), Diopter adjustment bar(1pc),
 16x Eyepiece (1pair), 10x Eyepiece (1pair)



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Optional
 Camera Adaptor
 Smartphone Adaptor

YZ-30 APPLANATION TONOMETER

SPECIFICATIONS

Measurement Range.....0-10.64Kpa
 Light Ring Displacement.....1.53X2=3.06mm
 Diameter of the testing head.....7mm
 Average Error±70pa
 Type.....R type/T type



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Three Prism Head B2101 as standard accessory



Applanation Tonometer(R type)
 For YZ-5F1,YZ-5J, YZ-5S



Applanation Tonometer(T type)
 For YZ-5F1,YZ-5J, YZ-5S

ACCESSORIES OF SLIT LAMP

OPTIONAL for YZ serie slit lamp

BEAM SPLITTER & ADAPTOR



B1131
 Beam Splitter(90° type)
 for digital camera



B1133
 C-mount Adapter suitable for
 CANON EOS series EF mount



Assembled combination



B1132
 Beam Splitter(180° type)
 for video



B1134 1/2" CCD Adapter



B1135 1/3" CCD Adapter

Assembled combination



B1136
 Teaching Tube



B1124
 Diffusion Lens



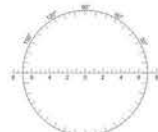
B1125
 Hruby Lens



B1122
 Yellow Filter



B1123
 Measuring Eyepiece



Goldmann lens



B1126
 Eye ground contact lens



B1127
 Anterior chamber angle lens-single side lens



B1128
 Trihedron lens/3 mirror lens



B1129
 Anterior chamber angle lens-four side lens

SLM-2ER-L SLIT LAMP

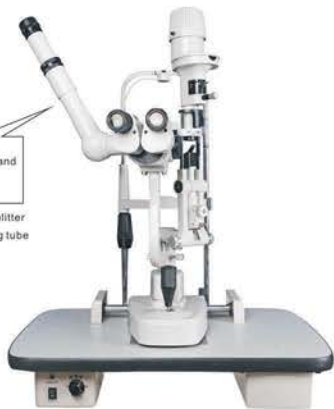
3 STEPS ECONOMICAL

Technical Specification

Microscope Type.....	Galileo Parallel
Magnification Change Way.....	Drum Three Magnifications
Eyepiece Magnification.....	12.5X
Total Magnifications.....	10X, 16X, 25X
Diopter Adjustment.....	-5D~+5D
Illumination.....	Three steps
Slit Width.....	0-14mm Continuous
Slit Height.....	1-14mm Continuous
Slit Angle.....	0-180 Adjustable
Slit Inclination Angle.....	5, 10, 15, 20
Light Spot Diameter.....	0.2mm, 1mm, 2mm, 5mm, 10mm, 14mm
Filter.....	Heat Absorption, Grey, Red-free, Cobalt Blue
Fixation.....	Red LED
Illumination Bulb.....	OSRAM halogen Tungsten Lamp 12V/50W
Input Voltage.....	110V/220V(+/-10%)
Input Power.....	60VA
Diffuse Lens.....	Yes
Preset Lens.....	Yes
Laser Interface.....	Optional
Applanation Tonometer Interface.....	Yes

Beam splitter and teaching tube are optional

B1431 Beam splitter
B1436 Teaching tube



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SLM-2ER SLIT LAMP

5 STEPS ECONOMICAL

Technical Specification

Microscope Type.....	Galileo Parallel
Magnification Change Way.....	Drum Five Magnifications
Eyepiece Magnification.....	12.5X
Total Magnifications.....	6X, 10X, 16X, 25X, 40X
Diopter Adjustment.....	-5D~+5D
Illumination.....	Three steps
Slit Width.....	0-14mm Continuous
Slit Height.....	1-14mm Continuous
Slit Angle.....	0-180 Adjustable
Slit Inclination Angle.....	5, 10, 15, 20
Light Spot Diameter.....	0.2mm, 1mm, 2mm, 5mm, 10mm, 14mm
Filter.....	Heat Absorption, Grey, Red-free, Cobalt Blue
Fixation.....	Red LED
Illumination Bulb.....	OSRAM halogen Tungsten Lamp 12V/50W
Input Voltage.....	110V/220V(+/-10%)
Input Power.....	60VA
Diffuse Lens.....	Yes
Preset Lens.....	Yes
Laser Interface.....	Optional
Applanation Tonometer Interface.....	Yes



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MP-650 PHOROPTOR

ECONOMICAL

FEATURES

- It's a new generation of phoropter reference the foreign similar produce.
- This equipment use the comprehensive centralized operation and large dial.
- Improve the operating performance.
- The cross cylinder is auto connecting with the cylinder lens coordinate.
- Build-in astigmatic lens and axis knob are synchronism linkage.
- Settle the axis and astigmatic examine at one go.
- Build-in various auxiliary lens. Overall check the ophthalmic function.



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Black color is optional

Cylinder mark: 15° scale is optional

SPECIFICATIONS

Sphere powers range.....	+16.75D to -19.00D, with minimum reading 0.25D or 0.12D (When +0.12D auxiliary lens or optional +/-0.12D lens is in use) +26.75D to -29.00D(When optional +/-10.00D lens is in use)
Cylinder powers range.....	0.00D to -6.00D, Step:0.25D or 0.50D (When lens auxiliary is in use) 0 to -8.00D (when -2.00D auxiliary lens is in use)
Astigmatic axis scale.....	0° to 180°, Step:5°
Cross cylinder.....	+/-0.25D or +/-0.50D optional
Rotary prism.....	0 to 20°D in 1°D
Interpupillary adjustment.....	48mm to 75mm in 1mm step (right and left synchronized)
Forehead rest adjustment.....	16mm backward and forward
Convergence.....	The optical axes of the lenses are aligned at a distance of 400mm from the vertexes of the corneas (2mm each for right and left inward) Interpupillary distance enabling convergence=51mm to 80mm
Corneal distance device.....	2mm forward and 5mm backward from standard plane
Effective field of view.....	19mm

B

C

FEATURES

- All the lens are anti-reflection coated.
- All Cross-Cylinder lens are Manus lens.
- Fingertip adjustment for sphere power control.
- Measuring astigmatism
- Cross cylinder ($\pm 0.25D$)
- Rotary prism
- Unique new convergence system mechanism
- Wide range of auxiliary lens combinations
- Precision machined to finest tolerances
- Net weight: 5kgs
- Dimension: 318 X 315 X 90mm

AUXILIARY LENS

Right eye	Left eye
O (Open aperture)	OC (Occluder)
± 50 (Fixed cross cylinder)	
6 Δ U (6 prism diopter base up)	10 Δ I (10 prism diopter base in)
PH (Pinhole) +12 (+0.12D sphere lens)	
RL (Red filter)	GL (Green filter)
RMH (Red maddox rod, horizontal)	WMH (White maddox rod, horizontal)
RMV (Red maddox rod, vertical)	WMV (White maddox rod, vertical)
P45° (Polarizing filter, axis 45°)	
P135° (Polarizing filter, axis 135°)	
R (Retinoscopic lens. +2.00D, for 50cm)	



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Cylinder mark: 15° scale is optional

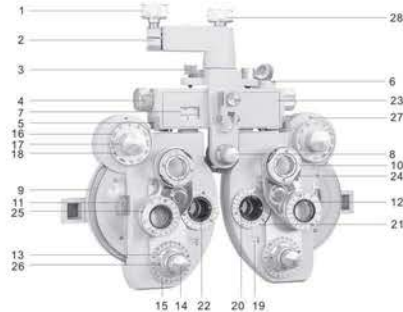


SPECIFICATION

- Sphere powers range.....+16.75D to -19.00D, with minimum reading 0.25D or 0.12D
(when +0.12D auxiliary lens or optional $\pm 0.12D$ lens is in use)
+26.75D to -29.00D (when optional $\pm 10.00D$ lens is in use)
- Cylinder powers range.....0 to -6.00D, with mini reading 0.25D or 0.12D (when auxiliary lens is in use)
0 to -8.00D (when -2.00D auxiliary lens is in use)
- Astigmatic axis scale.....0 to 180° in 5° steps
- Cross cylinder..... $\pm 0.25D$, reversal type, $\pm 0.50D$ optional
- Rotary prism.....0 to 20 Δ D in 1 Δ D step
- Interpupillary adjustment.....48mm to 80mm in 1mm step (right and left synchronized)
- Forehead rest adjustment.....16mm backward and forward
- Convergence.....The optical axes of the lenses are aligned at a distance of 400mm from the vertexes of the corneas
(2mm each for right and left inward) Interpupillary distance enabling convergence = 57mm to 80mm
- Corneal distance device.....2mm forward and 5mm backward from standard plane; with scale
- Effective field of view.....19mm



Black color is optional



1. Locking knob
2. Clamp bracket
3. Leveling knob
4. Interpupillary adjustment knob
5. Convergence lever
6. Level
7. Interpupillary scale
8. Forehead rest adjusting knob
9. Sphere power control ring
10. Cross cylinder
11. Sphere power reading window
12. Rotary prism
13. Cylinder lens axis control ring
14. Cylinder lens power control knob
15. Cylinder lens axis scale
16. Sphere power rapid feed dial
17. Auxiliary lens control knob
18. Auxiliary lens symbols
19. Astigmatism scale
20. Cylinder lens axis index
21. Cylinder lens axis scale
22. Accessory lens pinhole
23. Near point scale receiver
24. Cross cylinder rotating knob
25. Rotary prism knob
26. Astigmatic axis index
27. Auxiliary lens mark
28. Rotate tighten knob

ACCESSORIES:



Near Point Holder



Rotating Near Point Chart



Near Point Rod



Auxiliary Lenses(-0.12C/-2.00C)



Face shield



Rotating Near Point Set

FEATURES

- Unique design butterfly-shape appearance.
- Capable of checking up all-sided visual functions, accurate and comfortable in measurement.
- Exquisite manufacturing technique, with comfortable feel.
- All the lens are anti-reflection coated.



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SPECIFICATIONS

Sphere powers range.....	+16.75D to -19.00D, with minimum reading 0.25D or 0.12D (When +0.12D auxiliary lens or optional ±0.12D lens is in use) +26.75D to -29.00D (When optional ±10.00D lens is in use)
Cylinder power range.....	.0 to -6.00D, with minimum reading 0.25D or 0.12D (when auxiliary lens is in use) 0 to -8.00D (when -2.00D auxiliary lens is in use)
Astigmatic axis scale.....	.0 to 180° in 5° steps
Cross cylinder.....	±0.25D, reversal type (synchronized with astigmatic axis)
Rotary prism.....	.0 to 20ΔD in 1ΔD step
Interpupillary adjustment.....	48mm to 80mm in 1mm step (right and left synchronized)
Forehead rest adjustment.....	16mm backward and forward
Convergence.....	The optical axes of the lenses are aligned at a distance of 400mm from the vertexes of the corneas (2mm each for right and left inward)
Interpupillary distance enabling convergence.....	.57mm to 80mm
Corneal distance device.....	2mm forward and 5mm backward from standard plane; with scale
Effective field of view.....	19mm
Weight.....	.5kgs
Size.....	323×315×85mm

STANDARD ACCESSORIES

Near Point Rod, Near Point Card, Retaining Screw, Accessory Box, Face Shield, Hexagon Screw Driver, Accessory Lens

FEATURES

- Top-grade quality View Tester
- Elegant design of butterfly-shape appearance
- Dust-proof design
- Sphere power reading use control knob design.
- High grade plated-film used in all optic lenses
- This device is applicable to ophthalmology department of hospitals and spectacle stores for precision measurement of visual functions such as myopia, hyperopia, astigmatism, eyesight balance, heterophoria, stereoscopic vision and eyesight amalgamation



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Dust proof design

SPECIFICATIONS

Sphere powers range.....	+16.75D to -19.00D(When +0.12D auxiliary lens or optional±0.12D lens is in use)	+26.75D to -29.00D (When optional ±10.00D lens is in use)
(with minimum reading 0.25D or 0.12D)		
Cylinder power range.....	.0 to -6.00D(when auxiliary lens is in use)	0 to -8.00D (when -2.00D auxiliary lens is in use)
(with minimum reading 0.25D or 0.12D)		
Astigmatic axis scale.....	.0 to 180° in 5° steps	
Cross cylinder.....	±0.25D, reversal type (synchronized with astigmatic axis)	
Rotary prism.....	.0 to 20ΔD in 1ΔD step	

FEATURES

- All the machines such as ACP-8, RK-80, and PCs are connected and used by one cable, using RS-485 network method.
- By maximizing compatibility among MEDOP products, you can deal with the information about Visual Acuity Test easily. S/C/A information tested by RK-80 automatically comes out, and you can save this information in Digital Refractor body, only by pressing [LOAD] button.
- A wider and clearer screen on 6.4" TFT COLOR LCD improves data recognition, so that allowing more accurate visual test possible.
- Lens operation is speedy, and consecutive operation of jog shuttle does not skip any data, allowing more accurate and prompt vision test possible.
- To minimize control power interruption, an auto-shielding function works, when a lens more than $\pm 0.5D$ operates.
- You can run complex functions easily with SHIFT and ALT keys, and it is convenient to execute various options for test.
- It supports short distance PD (45 ~ 75mm) and short distance work (35 ~ 70cm) to make a perfect short-distance Convergence Test.
- Help files and real-time guide help a fast and easy unit-test.
- By installing a printer in the operation panel, you can print the test result promptly.
- It inputs eye-test information without lens operation, and offers PRESET function that put in the lenses at once.
- New programs are always available thanks to easy and fast update of the programs, which uses USB and Serial Cables of the PC.



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Near point chart set



Control Keyboard



SPECIFICATIONS

Measuring Range

Spherical Lens.....	-29.00 ~ +26.75D (Regular)
	-19.00 ~ +16.75D (Cross Cylinder, Prism Test)
	(Step: 0.12D / 0.25D / 0.5D / 1D / 2D / 3D)
Cylinder Lens.....	0.00 ~ $\pm 8.75D$
	(0.25/1.00/2.00D increments)
Cylinder Axis.....	0~180°(1°/5°/10°/15°/20°/45° increments)
PD.....	Far:48~80mm (0.5mm/1mm increments)
	Near:45~75mm (0.5mm/1mm increments)
Rotary Prism Lens.....	0 Δ ~20 Δ
	(0.1 Δ /0.2 Δ /0.5 Δ /1 Δ /2 Δ increments)
Cross Cylinder.....	Jackson: $\pm 0.25D, \pm 0.50D$
Retinoscopy Lens.....	+1.5D, +2.0D (Test Distance 67cm, 50cm)
Working distance.....	35~70cm (step 5cm)

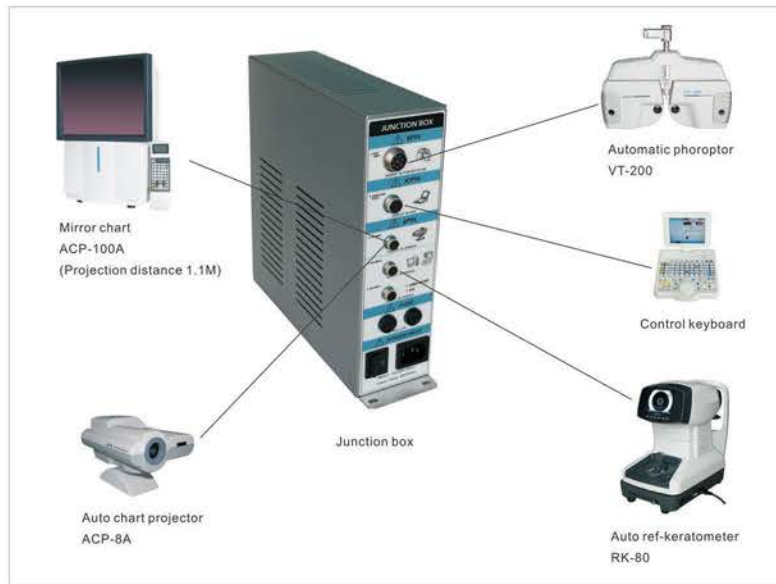
Packing & Power

Body.....	447(W)X119(D)X337(H)mm, 6.5kgs
Controller.....	214(W)X286(D)X171(H)mm, 1kg
Junction Box.....	266(W)X72(D)X240(H)mm, 1.3kg
Power Supply.....	AC 110V/60Hz, AC 220V 50Hz
Power Consumption.....	140VA

Auxiliary Lens:

Open/Close Lens.....	01mm
Pinhole Plate.....	01mm
Maddox Rod.....	Right eye(Red, Horizontal), Left eye(Red, Vertical)
Red/Green Filter.....	Right eye(Red), Left eye(Green)
Polarizing Filter.....	Right eye(135°, 45°), Left eye(45°, 135°)
Split Prism.....	Right eye(6 BU), Left eye(10 BI)
PD Test Lens.....	
Fixed Cross Cylinder Lens.....	$\pm 0.50D$, Axis fixation 90°
Vision Degrees.....	32°

NETWORK POSSIBILITY



NH-L8 DIGITAL PUILOMETER (PD METER)

MECHANICAL

SPECIFICATIONS

Results are displayed digitally.
 3 measurements are given..... Right, Right+left, left
 Results are accurate to within 0.25mm
 Measurement can be made for a single eye or for both eyes
 Automatic shut time, about one minute after stopping
 Method of measurement..... Cornea reflection light
 coincidence method
 Range of measurement..... 48~77mm(Both eyes),
 24~38.5mm(Each eye)
 Graduations:0.5mm
 Range of focusing point..... 30cm~∞
 Power supply..... 4.5V DC(AAA batteries X3)
 NH-L8 Mechanical Pointer Pupillary Distance Meter
 White light LED



CE FDA

**PD-6 DIGITAL PUILOMETER (PD METER)**

MECHANICAL

SPECIFICATIONS

Data range..... Binocular PD 46~82mm
 Monocular PD 23~41mm
 Distance range..... 30cm~infinity ∞
 Indication error..... ≤0.5mm
 Rounding error..... ≤0.5mm
 Asymmetric error..... ≤0.5mm
 Power source..... DC 6V(4pcs AA batteries)
 Including automatic standby function right after
 2 minutes without using
 Instrument size..... 232(L)X163(W)X71(H)mm
 Net weight..... 800g



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CX-8 DIGITAL PUILOMETER (PD METER)**SPECIFICATIONS**

Data show range..... two eyes PD 44~83mm
 Effective measure range..... two eye PD 45~82mm
 Minimum show equivalent..... 0.5mm
 Instrument measure accurate..... 0.5mm
 Target distance..... 30mm~∞
 Power supply..... direct current 6V(4 AA cell)
 Automatic shut time..... about one minute after stopping
 One eye isolator..... offer
 Instrument size..... 214(L)X150(W)X51(H)mm
 Net weight..... 600g



CE FDA

CP-32A DIGITAL PUILOMETER(PD METER)

MECHANICAL

SPECIFICATIONS

Data range..... Binocular PD: 45~82mm
 Monocular PD: 22.5~41mm
 Distance range..... 30cm~infinity ∞
 Indication error..... ≤0.5mm
 Rounding error..... ≤0.5mm
 Asymmetric error..... ≤0.5mm
 Power source..... DC 4.2V(1pcs Lithium batteries, included
 or 2pcs AA batteries, not included)
 Automatic standby..... 1 minutes
 Instrument size..... 320(L)X230(W)X110(H)mm
 Net weight..... 800g



CE FDA

CP-32AT DIGITAL PUILOMETER(PD METER)

MECHANICAL

SPECIFICATIONS

Data range..... Binocular PD: 45~82mm
 Monocular PD: 22.5~41mm
 Distance range..... 30cm~infinity ∞
 Indication error..... ≤0.5mm
 Rounding error..... ≤0.5mm
 Asymmetric error..... ≤0.5mm
 Power source..... DC 1.5V(1pcs AA batteries)
 Automatic standby..... 1 minutes
 Instrument size..... 320(L)X230(W)X110(H)mm
 Net weight..... 800g



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CP-30 DIGITAL PUILOMETER (PD METER)

Simple & Convenient

SPECIFICATIONS

Effective measuring range... Binocular pupil distance: 46~80mm
 Indication error..... ≤0.5mm
 Asymmetry error..... ≤0.5mm
 Rounding error..... ≤0.5mm
 Power supply..... 1pc of 12VDC 23A Battery
 Auto-shutdown..... When the instrument is kept flat
 Instrument size..... 175X85X30mm
 Net weight..... 180g



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FEATURES

•Including sufficient test charts

5 standard optotypes (can be changed randomly), 13 special test charts, 7 different masks for optotypes

•Clear and sharp screen display

Use vectorgraph, the brightness reaches 160cd/m²(min).

•Faster operating speed

Improved IC technique makes optotypes random changing much faster. Auto memory design helps to change optotype in no delay.

•Easy to upgrade

The newest program can be upgraded easily, and also the video in the USB disk can be played.

•Small size, ultra-thin design



Ultra-thin design



CE FDA



New Remote

NEW IMPROVEMENT

•New CNT test, which is more scientific, effective, and directive. CNT curve will be formed and displayed on the screen when the test is finished.

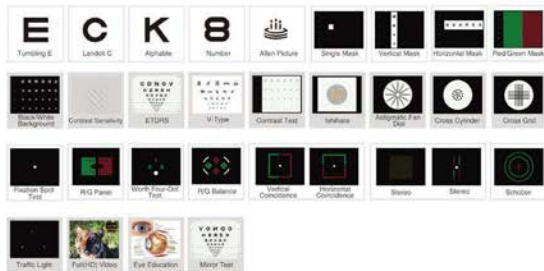
•Better users experience. All tests icons are listed on home interface.

•Quick test list. Pick ten or less frequently used tests to establish your own quick test list.

•V style optotype arrangement. Avoid optotypes congested on the screen.

•Excellent programming give full play to the features of CPU.

Some typical charts



SPECIFICATIONS OF VISION CHART

LED monitor.....	17-inch XGA Panel, 1280x1024 pixels, 200CD/m ²
Optotype.....	E(Tumbling), C(Landolt), Alphabet, Numbers, Children
Visual unit.....	Decimal(0.04-2.0), Snellen(f. 20/20)(500-10), Snellen (M, 6/6)(150-3), LogMAR(-0.3-1.4), 5-Grade(3.6-5.3)
Distance.....	2M-7M (in steps of 0.1m) 6ft-24ft(in steps of 0.5ft)
Low vision.....	0.4M-1.5M(in steps of 0.1m)
Mask type.....	Single mask, Horizontal mask, Vertical mask, Red/Green mask, White/Black mask, Contrast adjustment, Red/Green adjustment
Special test masks.....	Ishihara Test, Cross cylinder, Astigmatism Test, Cross Grid, Fixation point Test, Red/Green Panel, Worth Test, Red/Green Balance, Traffic light, Coincidence Test, Stereo Test, Schobert Test, ETDRS
Other functions.....	Contrast Test function, Contrast Sensitivity Test, Randomization Optotypes Playing function, Real time R/G setting function, Video playing function, Mirror function, Screen-saver function, standby function

SPECIFICATIONS PARAMETER

Input power.....	100-240V AC +/-10%, 50/60Hz
Output power.....	12V DC
Power consumption.....	20 Watt(max)
Remote controller.....	IR remot, 2xAAA batteries
Packing dimension.....	540 mm X420 mm X250mm (L/W/H)
Net Weight.....	3.6kgs
Gross Weight.....	6kgs

Standard Accessories

Red/Green Filter
(Use it to do Stereo test)

Optotype Cards



Wall Mount Bracket



Table stand



Floor stand

SETTING PANEL



SPECIAL NEW FUNCTIONS

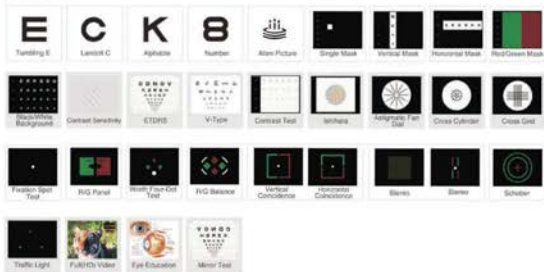
- 1) ETDRS (More optotypes added)
The test (optotypes) include E(Tumbling), C(Landolt), Alphabet, Numbers and Children.
- 2) Low vision chart
Enter the ETDRS chart and use the up arrow key to do low vision test. The standard test distance of low vision is from 0.6m to 1.5m in step of 0.1m.
- 3) Optotype card
With the optotype card, it's convenient to help the person who can not speak to do the examination.

Optional Accessories

- With C900 vision chart transformer, normal monitor(15" to 24") can be easily upgraded to vision chart.
- With full functions of C901 vision chart.
- If with polarized lenses and on polarization monitor, polarized test will be available.
- With two LED light on both sides for driving license examination.



Some typical charts



SPECIFICATIONS

Optotype.....	E(Tumbling), C(Landolt), Alphabet, Numbers, Children, Alien pictures(Normal and Uncrowded type)
Mask type.....	Single mask, Horizontal mask, Vertical mask, Red/Green mask, White/Black mask, Contrast adjustment, Red/Green adjustment
Special test masks.....	ETDRS, Contrast Sensitivity Test, Contrast Test, Ishihara Test, Cross cylinder, Astigmatic Fan Test, Cross Grid, Fixation point Test, Stereo Test, Red/Green Panel, Worth Four dot Test, Red/Green Balance, Traffic light, Horizontal Coincidence, Vertical Coincidence, Schober Test, Polarized charts, Low vision chart(E, C, Alphabet, Numbers, Children, Alien pictures) Uncrowded Optotypes
Visual unit.....	Decimal(0.05~2.0), Snellen(ft, 20/20)(400~10), Snellen (M, 6/6)(120~3), LogMAR(-0.3~1.3), S-Grade(3.7~5.3)
Distance.....	2M~7M (in steps of 0.1m) 6ft~24ft(in steps of 0.5ft)
Low vision.....	0.4M~1.5M(in steps of 0.1m)
Other functions.....	Video Playing, Image browsing, Randomization Optotypes Playing, Randomization Optotypes Playing Function, Mirror Function, Screen-saver Function, Standby Function

SPECIFICATIONS PARAMETER

Input power.....	100~240V AC \pm 10%, 50/60Hz
Power consumption.....	30 Watt(max)
Remote controller.....	IR remote, 2xAAA batteries
Packing dimension.....	190 mm X23 mm X300mm (L/W/H)
Net Weight.....	0.6kgs

Standard Accessories



Remote controller

Red/Green Filter
(Use it to do Stereo test)

Optotype Cards



Wall Mount Bracket

FEATURES

- Smart size**
As small as 30cm x 18.5cm x 2.3cm(Min.), 600g only.
- Monitor-friendly**
Applicable to monitor from 15" to 24" (Resolution 1920X1080) With HDMI/ DVI-D interface and VESA
- LED light glare sensitivity test**
Designed for driving license examination Integrated with two LED light on right/left side Switch on/off the LED light by remote controller
- Polarized charts**
Available on polarization monitor Test easily with polarized lenses
- Full HD video play**
Play eye education videos to your patients Play videos to advertise your optical shop/clinic/hospital
- Flexible working distance**
Range from 2m/6ft to 7m/24ft in step of 0.1m/0.5ft
- Contrast sensitivity test**
Gamma calibration bring you the accurate test result Contrast sensitivity graph output
- Free lifetime software upgrading**
Install updated software by USB disk

•Big size monitor, clear display

23" TFT-LED monitor, 1920x1080 pixels, 250CD/m²

•3D polarization vision chart

Apply to binocular balance test and stereo visual function test

•Optotypes can be changed randomly**•Result-speaking function**

When the patient answers with direction keys on the controller, the system will show the result by voice.

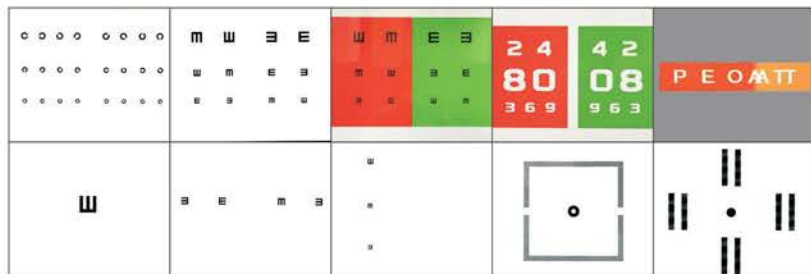


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Both table stand and wall mount are as standard accessories



Polarized filters

**FEATURES**

1. Unique intelligent function: Customer uses direction keys on the controller to answer instrument according to his/her judgment of the optotypes randomly appeared on the screen, system automatically speaks out the best value of eyesight.
2. Screen brightness can be adjusted to be fit for the environment. The maximal screen brightness is 250cd/m² according to national standard.
3. Delicate design, high definition display: This instrument is designed with professional video and audio multimedia processing technology, with rapid response and convenient operation.
4. With Protecting function to ensure long life of the screen.
5. Compatible with multifold types of video and audio files.
6. Accurate and exact, effective distance is 1-6m, can be adjust to the minimum distance (1m) for crowded area.
7. With the maximum 3 lines and 8 rows of optotypes showing on screen, convenient for test.
8. Numerous option of optotypes: Landolt chart(C), Tumbling chart (E), Alphabet chart, children chart, numeric chart, Astigmatic optotypes, cross optotypes, Binocular balance optotypes, Ishihara optotypes, and so on. 3D-type instrument is designed with stereo polarization specially used for examine of stereo vision and binocular balance.
9. Convenient and quick installation: simply hang or place on solid surface, easy to maintenance.
10. LED screen with the minimum 0.248mm of dot pitch and high resolution, vivid to display optotypes.
11. Powerful extended function: instrument can be used as a computer display, or as a multimedia player with U disc.
12. Allows to connect with AV or YPbPr signal;

SPECIFICATIONS OF VISION CHART

LED monitor.....	23-inch TFT Panel, 1920x1080 pixels, 250CD/m ²
Optotype.....	E(Tumbling), C(Landolt), Alphabet, Numbers, Children
Visual unit.....	Decimal(0.05-2.0)
Distance.....	1M-6M (in steps of 0.1m)
Mask type.....	Single mask, Horizontal mask, Vertical mask, Red/Green mask, White/Black mask, Contrast adjustment, Red/Green adjustment
Special test masks.....	Ishihara Test, Cross cylinder, Astigmatism Test, Cross Grid, Fixation point Test, Red/Green Panel, Worth Test, Red/Green Balance, Traffic light, Coincidence Test, Stereo Test, Schober Test, ETDRS
Other functions.....	Randomization Optotypes Playing function, R/G setting function, Video playing function, Screen-saver function, standby function

Standard accessories

Wall mount



U disc



Adapter



NH-500LED AUTO CHART PROJECTOR
WHITE LED LAMP

FEATURES

LED illumination comparing with halogen illumination have many advantages:

- 1) Lower voltage, LED lamp is 3.7V/5W, halogen lamp is 12V/30W;
Lower temperature (heating); but have bigger luminosity.
- 2) Light is white and bright, so charts are clearer and sharp.
- 3) Much longer life. More than 5000 hours life compare with less than 600 hours of halogen lamp.

SPECIFICATIONS

Number of charts and masks.....50 charts and 38 masks
Luminance.....min.80-max. 320CD/m²(200CD/m² at 5m)
Chart and mask selection speed.....0.3 second
Program.....2 kinds(48 charts or masks)
Tilting angle.....±10°
Auto power off.....After 5 min.
Lamp.....3.7V, 5W LED lamp
Projection distance.....2-7m
Projection magnification......30X(at 5m)
Projection size.....335mmX222mm(at 5m)
Dimension.....248(W)X336(L)X234(H)mm
Net weight.....4kgs
Power source.....100-240V
Power consumption.....90VA



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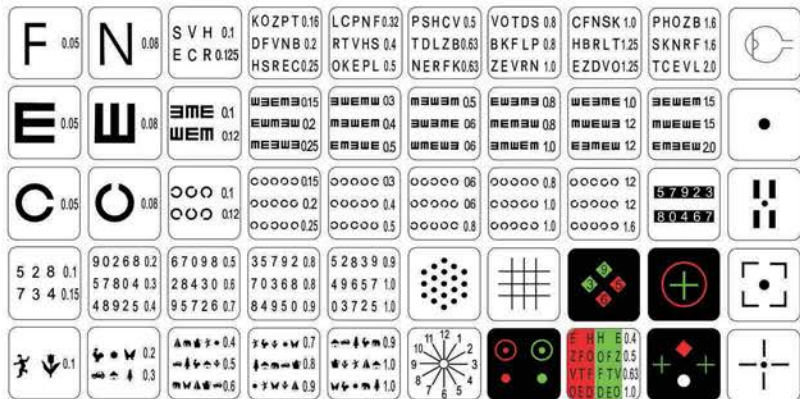
remote

STANDARD ACCESSORIES:

Remote control, screen, test scale sheet, dust cover and spare fuse.

OPTIONAL ACCESSORIES:

Table base stand, wall mount, chart projector arm, polarized filter glasses, R&G glasses and deviator.



ACP-8 AUTO CHART PROJECTOR

White LED lamp

FEATURES

ACP-8 is suitable for optometry. There are 31 icons including "E" type in this instrument controlled by remote device. It will make optometry be more external, exact and convenient.

SPECIFICATIONS

Chart.....31 selections
Selection speed.....average 0.3sec
Projection distance.....2.0m-7.0m, 5m is standard
Projection magnification......30X[5m]
Projection size.....Ø252mm,330mm(W)X225mm(H)[5m]
Tilt angle.....±10°
Light.....6V20W, can last for 2000 hours
Power source.....AC 110V/AC220V 50/60Hz
Power consumption.....50VA
Auto OFF function.....after 5-10 minutes
Dimension.....265mmX230mmX360mm
Net weight.....6kgs



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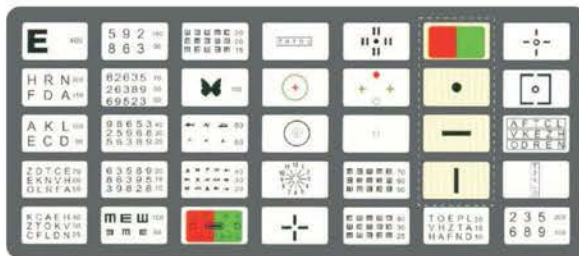
remote



polarized filter

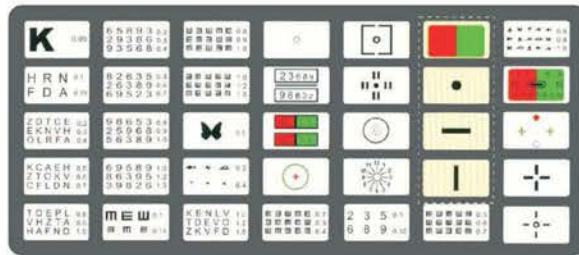
TYPE C ACP-8C

Snellen Feet



TYPE A ACP-8A

Decimal



FEATURES

The refractive tests include:

- Measurement of visual acuity using Snellen letter and illiterate E-chart, and Times Roman reading types.
- Accurate determination of presbyopic additions and other near corrections.
- Near vision astigmatism tests.
- Amplitude of accommodation including monocular measurements under binocular conditions.

The Binocular balance tests include:

- Fixation disparity test for uncompensated heterophoria motor eye dominance. Accommodation-convergence relationship.
- Quantitative evaluation of foveal suppression in heterophoria patients.
- Near point of convergence.
- Targets for subjective cover tests for heterophoria and harmonious ARC.

SPECIFICATIONS

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

The NV-100 near vision tester enable a complete refractive and binocular vision investigation to be carried out with the head and eyes in their normal posture at any working distance. It's in English. But French and Dutch version are also available.



Include remote & polarized lens

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DISTANCE VISUAL ACUITY CHART

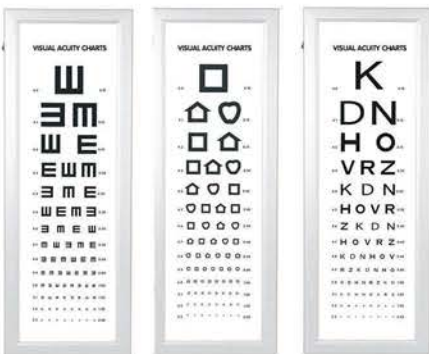
SEPECIFICATIONS

LED type

Test distance.....	5 or 6 meters
Power.....	Input AC100 to 240V, output DC 12V 2A
Brightness.....	.80-320CD/M ²

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5 meters

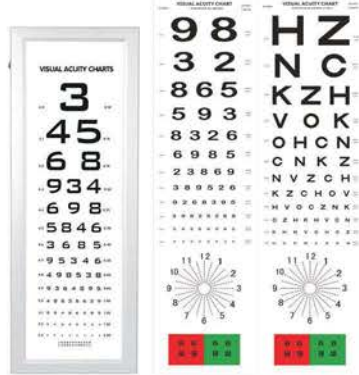


DV-01-LED

DV-02-LED

DV-03-LED

6 meters



DV-05-LED

DV-12-LED

DV-13-LED

LED lamp

FEATURES

- Double side display(2 charts). Amsler grid is the standard chart for the other side.
- 1100mAh rechargeable Li-ion battery offer longer working hour.
- The angle of the base can be adjusted.

SPECIFICATIONS

Test distance.....	30cm to 40cm
Dimension.....	196X145X10mm
Power supply.....	AC adaptor, rechargeable Li-ion battery

STANDARD ACCESSORIES:



Table stand

Vertical chart



NV-195

Lateral chart



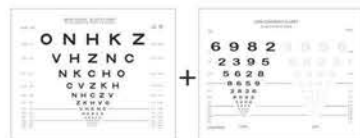
NV-145

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AMSLER GRID back side of NV 195 and NV 145



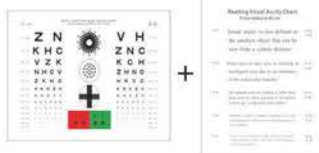
More charts of near vision chart



Letter chart

Low contrast

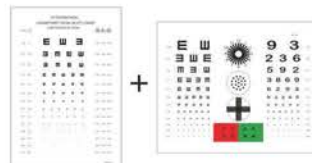
NV-194



Letter and function chart

Reading chart

NV-134



E chart

E and function chart

NV-191





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ID: Ø26mm

- C-68PL.....68pcs, Colored Plastic Rims
- C-104PL.....104pcs, Colored Plastic Rims
- C-158PL.....158pcs, Colored Plastic Rims
- C-232PL.....232pcs, Colored Plastic Rims
- C-266PL.....266pcs, Colored Plastic Rims

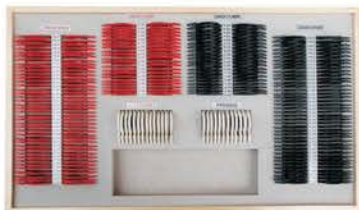


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ID: Ø36mm

- C-68M.....68pcs, Shiny Metal Rims
- C-104M.....104pcs, Shiny Metal Rims
- C-158M.....158pcs, Shiny Metal Rims
- C-232M.....232pcs, Shiny Metal Rims
- C-266M.....266pcs, Shiny Metal Rims



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New rim

ID: Ø26mm

- C-68PTA.....68pcs, Colored Plastic Rims
- C-104PTA.....104pcs, Colored Plastic Rims
- C-158PTA.....158pcs, Colored Plastic Rims
- C-232PTA.....232pcs, Colored Plastic Rims
- C-266PTA.....266pcs, Colored Plastic Rims



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ID: Ø36mm

- C-68MC.....68pcs, Colored Metal Rims
- C-104MC.....104pcs, Colored Metal Rims
- C-158MC.....158pcs, Colored Metal Rims
- C-232MC.....232pcs, Colored Metal Rims
- C-266MC.....266pcs, Colored Metal Rims

F



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ID: Ø24.5mm

- C-68PLM.....68pcs, Colored Plastic Rims with metal line
- C-104PLM.....104pcs, Colored Plastic Rims with metal line
- C-158PLM.....158pcs, Colored Plastic Rims with metal line
- C-232PLM.....232pcs, Colored Plastic Rims with metal line
- C-266PLM.....266pcs, Colored Plastic Rims with metal line

Standard case



ALUMINUM-ABS CASE

Optional case



LEATHERETTE CASE



WOODEN CASE



F

TF-12 TRIAL FRAME

PD Range: 48-80mm



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TF-10 TRIAL FRAME

PD Range: 48-80mm



CE FDA

TF-19 TRIAL FRAME

PD Range: 54-70mm

TITANIUM



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TF-32 TRIAL FRAME

FIXED PD



PD range: 52mm, 54mm, 56mm, pink

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PD range: 58mm, 60mm, 62mm, 64mm, blue



PD range: 66mm, 68mm, 70mm, grey

TF-23 TRIAL FRAME

FIXED PD

PD range: 56mm, 58mm, 60mm, 62mm and 64mm are available
Net weight: 40g



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Strong metal frame



TF-13-48mm TRIAL FRAME FOR KIDS

PD range: 48mm

FIXED PD



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TF-13-56mm TRIAL FRAME FOR KIDS

PD range: 56mm

FIXED PD



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TC-1 TRIAL CLIP



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It has spring piece, hold the trial lens in.

F

F

YZ-25B INDIRECT OPHTHALMOSCOPE

WITH POWER CORD

FEATURES

- Illumination adjust button is on the helmet, convenient for doctor
- Advanced optical design, no reflection, wide and clear visual field
- Super light, comfortable
- 20D aspheric lenses

SPECIFICATIONS

Observation Angle.....	45°±5°
Adjustable Pupil Distance.....	52mm~74mm
Adjustable Range of Head Bracket.....	Head Circumference: 530~630mm, Depth: 85mm~125mm
Illumination Brightness.....	>500lx
Illumination Source.....	6V/10W, Halogen Bulb
Power.....	AC 110V/60Hz; AC 220V/50Hz
Dimension(mm).....	142(L)X48(W)X128(H)
Weight of Main Body.....	320g



1. Adjustable locking button and illumination control button ensure comfortable observation angles.
2. Filters and reflection mirror with building in dust-proof device ensure good observation.
3. Filter: Redfree, Cobalt Blue, Compensation Light Spot: big(60mm), middle(40mm), small (20mm, suitable for various pupils).
4. Teaching mirror, double-sided spectroscopie ensure the synchronous observation.
5. Two types of smooth iris presser avoid damaging relevant issues.



IRIS PRESSER



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ASPHERIC LENS: 20D as standard accessory

YZ-25C INDIRECT OPHTHALMOSCOPE

CORDLESS WITH CHARGEABLE BATTERY

Advanced optical design avoids the glistening and provides the broad field.

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 light weight 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.

SPECIFICATIONS

Adjustable Pupil Distance.....	52mm~74mm
Headband.....	Head Circumference: 520~640mm Depth: 85mm~125mm
Illumination Brightness.....	>500lx, continuous adjustment
Light spots.....	big(60mm), middle(40mm), small(20mm) suitable for various pupils
Illumination Source.....	LED Bulb
Filter.....	Red-free, white and cobalt blue
Power.....	DC 7.4V, Li+ battery, 15VA AC 100V~240V; 60Hz/50Hz, 50VA
Dimension(mm).....	142(L)X48(W)X128(H)
Weight of Main Body.....	230g



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G

G

YZ-11D RECHARGEABLE OPHTHALMOSCOPE

SPECIFICATIONS

Illumination Source.....	3.5V 2.8W halogen bulb
Recharging Unit.....	
Input Voltage.....	110V/220V
Diopter Compensation.....	0, ±1, ±2, ±3, ±4, ±5, ±6, ±8, ±10, ±12, ±16, ±20, -25, -35(D)
Illumination Form.....	big spot, small spot, slit, central network, red-free
Power(main body).....	Li+ battery pack 3.7V, rechargeable



YZ-24B RECHARGEABLE STREAK RETINOSCOPE

SPECIFICATIONS

Working distance.....	0.67m
Adjustable range of streak.....	3mm~20mm
Streak rotation.....	360°
Illumination source.....	3.5V/2.5W Halogen bulb
Input voltage.....	AC220V/50Hz; 110V/60Hz
Power(main body).....	Li+ battery pack DC3.7V

WORKING CONDITION

Temperature.....	5°C~40°C
Relative Humidity.....	30%~75%
Atmospheric Pressure.....	700hPa~1060hPa
Power.....	Charger: AC100-240V, 50-60Hz Retinoscope: DC 3.7V Li + Battery



YZ11D-YZ24B RECHARGEABLE OPHTHALMOSCOPE & STREAK RETINOSCOPE

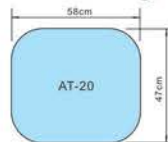
FEATURES

- It's composed of 1 pc of ophthalmoscope YZ-11D, 1 pc of streak retinoscope YZ-24B and 1 pc of charger with 2 charging holes for both of them.
- The two instruments can be charged at the same time in 1 charger.



AT-20 POWER TABLE

Improved Table Top: surface PVC blister/HDF



SPECIFICATIONS

Table top size.....	58X47cm
Height adjustment.....	650~840mm
Max. load.....	60kgs
Gross weight.....	18.5kgs
Input voltage.....	220V/50Hz; 110V/60Hz



Two power supply sockets



One power supply socket

Both 110V American socket and 220V European socket are available.



Improved castor makes the table move more smoothly. Bigger brake makes it easier to lock the table by foot instead of by hand.

I2101

AT-20B POWER TABLE

FEATURES

Bigger table top size for two machines: 90X50cm
Other functions are same as AT-20

OPTIONAL ACCESSORIES

Enhanced metal plate support under the table top



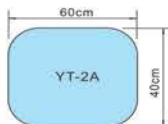
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YT-2A POWER TABLE**FEATURES**

Its design, functions and quality reach international advanced level and it is ideal table for medical, optical and other use, especially for slit lamp.

SPECIFICATIONS

Table Size.....60X40cm
 Elevation Range.....640~860mm
 Input Voltage.....AC220V/110V,50Hz/60Hz
 Packing Size.....690mmX580mmX265mm(LXWXH)
 Maximal load.....50kgs



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AT-22 POWER TABLE**FEATURES**

Special design for refractometer.

SPECIFICATIONS

Table top size.....54X48cm
 Height adjustment.....650~840mm
 Max. load.....60kgs
 Gross weight.....18.5kgs
 Input voltage.....220V/50Hz; 110V/60Hz



CE FDA

CP-31ADT POWER TABLE**FEATURES**

- New design with strong metal drawer for trial lens set
- Big power AC motor
- Strong castors
- Move up and down stably and low noise

SPECIFICATIONS

Table size.....42.5X68cm
 Height adjustment.....630~820mm
 Max. load.....50~75kgs
 Input voltage.....220V/50Hz, 110V/60Hz



Drawer size: 53x39x5.5cm



CE FDA

COS-680 POWER TABLE**FEATURES**

- Big table with drawers for trial lens set
- With computer bracket

SPECIFICATIONS

Table size.....92X52cm
 Height adjustment.....690~900mm
 Net weight.....47kgs

CE FDA

**COS-430 POWER TABLE**

SLIDE TYPE

FEATURES

- Sliding table for two machines
- Strong and stable structure for heavy load

SPECIFICATIONS

Table size.....90X46cm
 Height adjustment.....700~900mm
 Net weight.....40kgs



CE FDA

COS-100 POWER TABLE

SYMMETRICAL MOTORS

FEATURES

- Big table top with three high-voltage sockets for three machines
- With two high quality symmetrical motors
- 4 different heights can be memorized
- Strong PU mute wheels with break

SPECIFICATIONS

Table size.....	1400mmX640mm
Table elevator height.....	680-973mm
Power input.....	110V 60HZ/220V 50HZ
Net weight.....	61kgs



CE FDA

COS-590 POWER TABLE**FEATURES**

Big table for wheel chair user

SPECIFICATIONS

Table size.....	925mmX615mm
Table elevator height.....	690-900mm
Power input.....	110V 60HZ/220V 50HZ
Net weight.....	40kgs



CE FDA

CP-180A COMBINATION TABLE

WITH SLIDING PLATE

FEATURES

- Simple but multifunction, with phoropter arm and projector stand
- Phoropter arm can be moved up and down, and turn around by manual
- Sliding table makes it easy to move the refractometer.

SPECIFICATIONS

Unit size.....	900x520x1710mm
Table size.....	900x500mm
Sliding plate size.....	300x400mm
Drawer size.....	543x370x50mm
Phoropter arm up and down range.....	190mm
Height of projector stand.....	1510mm
Power of lamp.....	110V/220V, 60HZ/50HZ, 15W
Power of unit.....	110V/220V, 60HZ/50HZ, 80W
Packing / Weight.....	980x590x420mm/60kgs



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CP-180AT COMBINATION TABLE AND CHAIR

WITH SLIDING PLATE

Full functions of CP-180A, with electric chair
 Chair up and down range: 150mm



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CP-180B COMBINATION TABLE

WITH SLIDING PLATE

Full functions of CP-180A, but without projector stand



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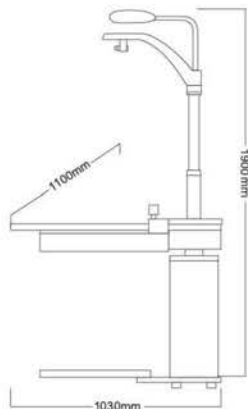
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ELECTRIC PHOROPTOR ARM

SPECIFICATIONS

Table-top size.....	103x50cm
Slide plate size.....	30x40cm
Drawer size.....	54.5x37x5cm
Unit Size.....	103x83x186cm
Range ability of small tabletop.....	6 to46cm
Range ability of phoroptor arm.....	156 to 186cm
Height of projector stand.....	150cm
Chair Size.....	68x59x134.5cm
Range ability of chair.....	119.5 to 134.5cm
Power of lamp.....	15W,110/220V,60/50Hz
Power of unit.....	165W



FEATURES

- Phoroptor arm can rotate 90° automatically
- Big table top with sliding plate
- Big drawer for trial lens set

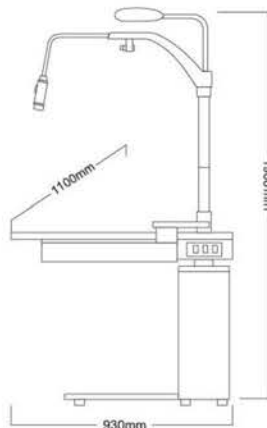


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MANUAL PHOROPTOR ARM

SPECIFICATIONS

Table-top size.....	89x49cm
Slide plate size.....	30.5x45cm
Drawer size.....	54.5x37x5cm
Unit Size.....	103x83x186cm
Range ability of small tabletop.....	6 to46cm
Range ability of phoroptor arm.....	156 to 186cm
Height of projector stand.....	150cm
Chair Size.....	68x59x134.5cm
Range ability of chair.....	119.5 to 134.5cm
Power of lamp.....	15W,110/220V,60/50Hz
Power of unit.....	165W



FEATURES

- Big table top with sliding plate
- Big drawer for trial lens set



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Control panel: Press the switch to control the lamp, chair, phoroptor arm



Phoroptor arm: It can work up and down, and rotate 90° automatically



Table top: Big table top can rotate 90°, small table top can move left and right and with a locking device



Table top: Big table top can rotate 90°, small table top can move left and right



Phoroptor arm: It can work up and down, and rotate 90° by hand



Chair: It can connect the combined table to work up and down.

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TR-300 OPTHALMIC UNIT & CHAIR

ELECTRIC PHOROPTOR ARM

FEATURES

- Electrical swing phoropter arm
- Big drawer for trial lens set
- Sliding plate for refractometer
- Economical background illumination, comfortable
- Reasonable construction and clipper-built shape

SPECIFICATIONS

Phoropter arm tilting angle.....	±30°
Table rotate angle.....	90°
Slide-board.....	500mm
Chair loading.....	150Kgs
Chair height.....	500-700mm
Weight.....	200Kgs
Power.....	220V, 50Hz/110V, 60Hz; 20W
Illumination bulb.....	15W



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CS-600 OPTHALMIC UNIT & CHAIR

ELECTRIC PHOROPTOR ARM

FEATURES & SPECIFICATIONS

- Phoropter arm can rotate 90° automatically
 - Phoropter arm can electric lift up and down
- | | |
|-------------------------------------------|------------------|
| Combination sets size..... | 1020×1230×1580mm |
| Table size..... | 1010×480×120mm |
| Arm lifting the upper and lower size..... | 200mm |
| The chair lift up and down size..... | 200mm |
| Power..... | 220V 50Hz |
| Weight..... | 240kgs |



Sliding plate



Control panel



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CS-400 OPTHALMIC UNIT & CHAIR

ELECTRIC PHOROPTOR ARM

FEATURES

Phoropter Arm

Luxury electric arm, can be moved up and down or swing left or right.

Electric lift chair

Electric up and down, lower noisy.

Sliding plate

The small plate can slide horizontally on the table

Fixed stand for Chart projector

Can be adjusted up and down.

Separate Chair

The chair is separate form the base of the main machine, and can be moved up and down.

SPECIFICATIONS

Total Size.....	1020mmX1230mmX1580mm
Table Size.....	1010mmX480mm
Table top rotation.....	90°
Up/down movement of electric arm.....	200mm
Up/down movement of electric chair.....	200mm
Lamp.....	LED lamp 3W
Voltage.....	220V±10% 50Hz; 110V±10% 60Hz
Power.....	200W,420W(max.)
Net Weight.....	240kgs



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Sliding plate



Control panel



Black color is optional for the electrical chair



TC-700 OPTHALMIC UNIT & CHAIR

FEATURES & SPECIFICATIONS

- Small and exquisite, can be used for small room
- Easy operation with a well positioned control panel
- Low voltage output for ophthalmoscope and Retinoscope voltage selectable, 2.5V, 3V, 3.5V, 4V, 6V, 12V
- "Keller" type and "Welch Allyn" type charger are for optional
- Projector mounting plate
- Table and case using composite material

TC-700 Unit

Input voltage.....	220V 50Hz/110V 60Hz
Fluorescent lamp.....	40W
Table size.....	670 X 400mm
Table rotational angle.....	90°
Maximum working size.....	1400(W)X1450(D)X2150(H)mm
Net Weight (whole unit).....	150kgs

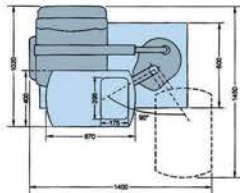
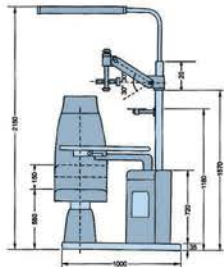
Phoropter Arm

Upward movement.....	550mm
Arm rotational angle.....	360°

Electrical Chair

Minimum height of seat.....	550mm
Maximum height of seat.....	700mm
Maximum loading capacity.....	150kgs

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CS-518 OPTHALMIC UNIT & CHAIR

Space save type: the minimum room width request is 155cm

SPECIFICATIONS

Table Size.....	845mmX405mm
Total Size.....	1000mmX752mmX2100mm
Voltage.....	Main:220V±10% 50Hz; 110V±10% 60Hz
	Table top: 12V
Power.....	200W
Net Weight.....	220kgs

FEATURES

Arm

Can be moved up and down or spin around.

Electric lift chair

Ultra-luxury European-style.

Sliding table

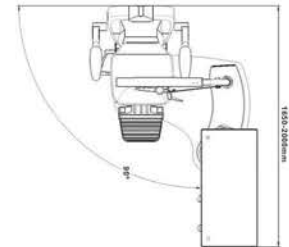
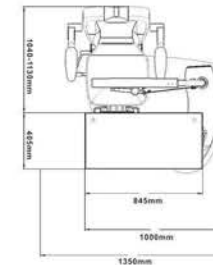
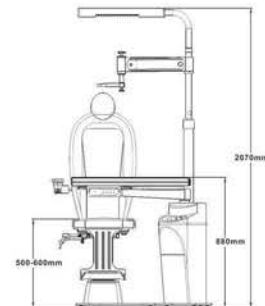
Table could slide horizontally, the total length of the machine is only after the table is slid out.

Optometry energy-saving lamps

Elegant, energy-saving.



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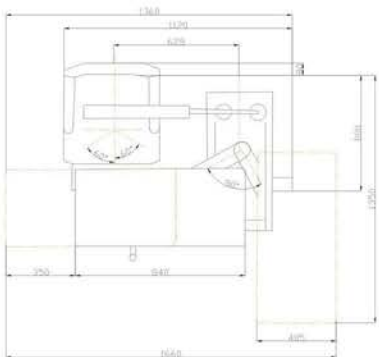
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FEATURES & SPECIFICATIONS

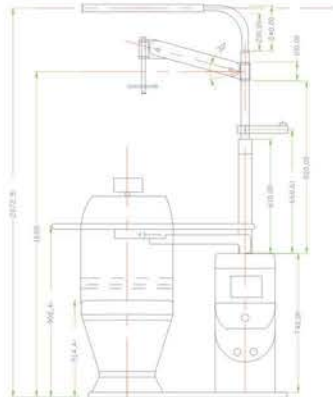
Base size.....	39inch x 32inch (1000mm x 800mm)
Tabletop size.....	33inch x 16inch (840mm x 405mm)
Sliding table to accommodate two instruments	
Auto "power off" for table instruments.	
Table instrument voltage selectable: 6V and 12V	
Auxiliary 110V/220V output under table	
Three rechargeable wells	
Counterbalanced Refractor Arm	
(a) Adjustable Load Range: 8lbs to 20 lbs. (3.6kgs to 9kgs)	
(b) Vertical Adjustment Range: 12inch (405mm)	
Table rotate angle.....	±90°
Chair rotate.....	±90°
Recline angle of chair.....	165°
Chair height.....	20inch ~ 25inch (500mm ~ 640mm)
Adjustable range of headrest.....	4inch (100mm)
White LED lamp.....	10 W, brightness is adjustable
Voltage.....	110/220V. (Switch voltage freely.)
Gross weight.....	485lbs (220kgs)



Optional chair color: Beige-white



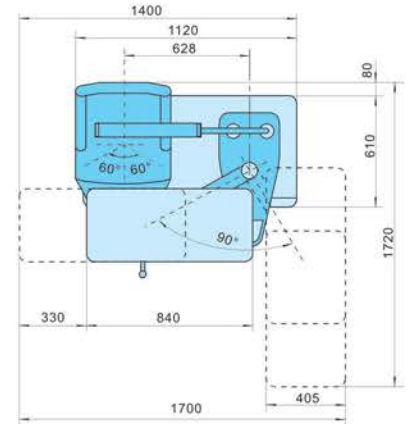
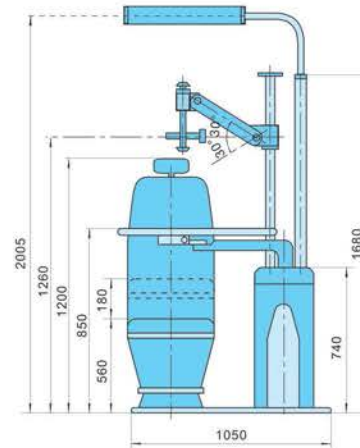
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**FEATURES & SPECIFICATIONS**

Base size.....	39inch x 24inch (1000mm x 600mm)
Tabletop size.....	33inch x 16inch (840mm x 405mm)
Sliding table to accommodate two instruments	
Two rechargeable wells	
Counterbalanced Refractor Arm	
(a) Adjustable Load Range.....	8lbs to 20 lbs (3.6kgs to 9kgs)
(b) Vertical Adjustment Range.....	16inch (405mm)
Table rotate angle.....	±90°
Chair rotate.....	±90°
Recline angle of chair.....	165°
Chair height.....	20inch ~ 25inch (500mm ~ 640mm)
Adjustable range of headrest.....	4inch (100mm)
Fluorescent lamp.....	12W. (Brightness is adjustable)
Voltage.....	110/220V. (Switch voltage freely.)
Weight.....	485lbs (220kgs)



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PA-5 PHOROPTOR ARM

SPECIFICATION

Up/Down angle of arm: $\pm 30^\circ$
 Rotate angle of arm: 180°
 Max weight on arm: 10kgs
 Max weight on projector stand: 12kgs

WALL MOUNT TYPE



1. Adjust screw
2. Projector stand
3. Lock screw
4. Arm lock wrench
5. The place for phoropter



PTA-5 PHOROPTOR ARM

TABLE STAND TYPE

FEATURES

Simple and easy to assemble.

SPECIFICATION

Base.....42 X 28cm
 Height.....75cm
 Light.....white LED
 Net weight.....8.5kgs

FA-6 PHOROPTOR ARM

FLOOR STAND TYPE

FEATURES & SPECIFICATIONS

Up/Down angle of arm: $\pm 30^\circ$
 Rotate angle of arm: $\pm 32.5^\circ$
 Input voltage: 110V/220V AC60Hz/50Hz
 Light luminaire: 36W
 Working temperature: $-30^\circ\text{C} \sim +50^\circ\text{C}$
 Relative humidity: less than 90%

INSTALLATION DIMENSION

Size: 600(L)X745(W)X2063(H)mm
 Weight of base: 30kgs
 Total weight: 60kgs



PW-1 WALL STAND FOR PROJECTOR



CP-310A ELECTRICAL CHAIR

with foot control

Elevation range.....15cm(119.5-134.5cm)
 Power.....110/220V, 60/50HZ,50W



CP-310C ELECTRICAL CHAIR

with foot control

Elevation range.....15cm(81-96cm)
 Power.....110/220V, 60/50HZ,50W



EC-800 ELECTRICAL CHAIR

with foot control

Elevation range:58~67cm
 The arm rest can be lifted up and down freely



EC-600 ELECTRICAL CHAIR

with foot control

Elevation range:53~68cm
 Back rest can be lied down 165°
 Arm rest can be lift up and down



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HC-23PB PNEUMATIC CHAIR**SPECIFICATIONS**

Diameter of the seat: 33cm
 Diameter of plastic base: 56cm
 Height adjustment: 53-73cm

PACKING: 1pc/carton

HC-23PB: 56X23X56cm/8.5kgs

HC-23P: 56X23X56cm/7kgs

HC-23P PNEUMATIC CHAIR**HC-23MB PNEUMATIC CHAIR****SPECIFICATIONS**

Diameter of the seat: 33cm
 Diameter of metal base: 48cm
 Height adjustment: 53-73cm

PACKING: 1pc/carton

HC-23MB: 49X26X49cm/7.5kgs

HC-23M: 49X26X49cm/7kgs

HC-23M PNEUMATIC CHAIR**CC-SC CROSS CYLINDER**

Shining
handle

0.25D 0.50D
 0.75D 1.00D

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CC-S2C CROSS CYLINDER

0.25D 0.50D
 0.75D 1.00D

2pcs cross cylinder
 packed in 1 box
 (both plastic box and
 wood box available)

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CC-S3C CROSS CYLINDER

0.25D 0.50D
 0.75D 1.00D

3pcs cross cylinder
 packed in 1 box
 (both plastic box and
 wood box available)

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FCT-P1 FOUR LENS CONFIRMATION TEST

Plastic frame in high quality



0.25D 0.50D
 0.75D 1.00D

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FCT-Y FOUR LENS CONFIRMATION TEST

0.25D 0.50D
 0.75D 1.00D

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**TCT-Y TWIN LENS CONFIRMATION TEST**

0.25D 0.50D
 0.75D 1.00D

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FCT-P2 FOUR LENS CONFIRMATION TEST

Plastic frame in high quality



0.25D 0.50D
 0.75D 1.00D

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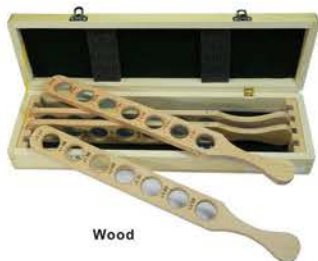
RR-N RETINOSCOPY RACK SET



Nylon

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RR-W RETINOSCOPY RACK SET



Wood

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RR-P RETINOSCOPY RACK SET



Plastic

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RR-S1 RETINOSCOPY RACK

Plastic

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RR-S2 RETINOSCOPY RACK

Plastic

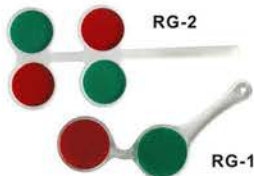
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RED/GREEN LENS TEST

Plastic

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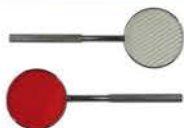


RG-8 RED/GREEN LENS TEST



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TM-2 RED/WHITE MADDOX TEST



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**PB-16 PRISM BAR (HORIZONTAL)
PB-15 PRISM BAR (VERTICAL)**

PB-16: Diopter(Δ): 1,2,4,6,8,10,12,14,16,18,20,25,30,35,40,45



PB-15: Diopter(Δ): 1,2,3,4,5,6,8,10,12,14,16,18,20,25,30

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PB-1516 PRISM BAR SET



PB-15 and PB-16 each in on aluminum case

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MOD-1 LORGNETTE PINHOLE OCCLUDER



OD-2 OCCLUDER



P203 PEN TORCH

LED bulb

Product size: Φ 1.3cmX14.8cm
Power source: 2pcs AAA batteries (not include)



PR-1 PD RULER



OD-3 OCCLUDER

Rubber handle



P41 PEN TORCH

LED bulb

Product size: Φ 1.2cmX13.8cm
Power source: 2pcs AAA batteries (not include)



FEATURES

Colorful touch screen
 With printer and PD, inner UV part
 Automatic recognition of single and progressive lens
 Strong aluminum case for single packing

SPECIFICATIONS

Measure Scope

Sphere.....0 to ±25D(0.01D, 0.12D, 0.25D steps)
 Cylinder.....0 to ±9.99D(0.01D, 0.12D, 0.25D steps)
 Axis.....0-180°(1° steps)
 ADD.....0 to 9.99D (0.01D, 0.12D, 0.25D steps)
 Prism.....0 to 15Δ(0.01Δ, 0.12Δ, 0.25Δ steps)

Mode

Cylinder.....+,-/±
 Prism.....X-Y,P-B
 Contact lens.....Soft/hard
 Measuring mode.....single/progressive/
 automatic recognition contact lens

Others

Lens Diameter.....Φ20 to Φ108mm
 PD.....45 to 90mm(0.25mm steps)
 Speed.....0.1S
 ABBE.....30 to 60
 Display.....TFT LCD (5.6")
 Printer.....Thermal print
 Dimension.....222(L)x161(W)x372(H)mm
 Package.....430(L)x235(W)x295(H)mm
 Gross weight.....7Kgs
 Power.....AC220V/50HZ; AC110V/60Hz



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FEATURES



High resolving true color screen and full-touch touch screen make it more convenient to use.



The progressive lens measurement interface is concise and clear, which provide more intuitive and accurate parameters for progressive multi-focal lens measurement.



A new optical path design and an image receive with high sensitivity can adapt to more complicated measurement environment, it has a special lens calibration function, the slight deviation during the using progress

LM-120(A): Without PD and printer.

LM-120(B): With PD but without printer.

LM-120(C): With PD and printer.

SPECIFICATIONS

Range of measurement

Spherical degree.....0-±25D
 Cylindrical degree.....0-6.00D
 Under plus degree.....0-10.00D
 Prism degree.....0-6I

The accuracy of measurement

Dioptic degree.....0.01/0.12/0.25D
 Prism degree.....0.01/0.12/0.25I

Others

Cylindrical surface.....-/±
 Prism.....X-Y/P-B
 Speed of measurement.....0.2S
 Light wave length.....630nm
 ABBE number.....30-60
 Screen.....color touch screen
 Printer.....Thermal printer
 Size.....267(L)x203(W)x444(H)mm
 Weight.....10kgs
 Power supply.....12V5A



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GJD-6 LENS METER Read Outside

FEATURES & SPECIFICATIONS

Eyeiece Focusing Range.....	From -5D to +5D
Lens Measuring Range.....	-25D~+25D
Vertex Power Measuring.....	0.125D(-5D~+5D); 0.25D(Exceed ±5D)
Prismatic Power Measuring.....	Range: 5 prism diopters; step: 1 prism diopter
Cylindrical Axis Angle.....	Readings range 0°~180°; incremental change 1°
Prism Axis Angle.....	Readings range 0°~180°; incremental change 1°
Lens Accommodated.....	.20mm to 80mm
Tilting Angle.....	0°~90°
LED Bulb Voltage and Power.....	110V/3V/3W; 220V/3V/3W

**GJD-6B:** With Prism Compensation Device

All the GJD series lensmeter can use AC and DC input.
For DC input, only needs 3pcs AA batteries.

GJD-7 LENS METER Inner Reading

FEATURES & SPECIFICATIONS

Eyeiece Focusing Range.....	From -5D to +5D
Lens Measuring Range.....	-25D~+25D
Scale value of spherical diopter.....	0.125D(-5D~+5D); 0.25D(Exceed ±5D)
Scale value of cylindrical astigmatic diopter.....	0.125D(-5D~+5D); 0.25D(Exceed ±5D)
Measuring range.....	0°~180°, scale value: 1°
Measuring range.....	0~5Δ, scale value: 1Δ
Measuring range.....	0~360°, scale value: 1° (on the reticule)
Suitable range for lens.....	.20mm to 80mm
Adjustable range of tilt angle.....	0°~90°
LED Bulb Voltage and Power.....	110V/3V/3W; 220V/3V/3W

**GJD-7B:** With Prism Compensation Device

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CP-1B PORTABLE LENS METER

SPECIFICATIONS

Range of Vertex Power.....	+15D to -15D
Step of Vertex Power.....	0 to (±)10D for 0.125D; (±)10D to (±)15D for 0.25D
Range of Cylindrical Axis.....	0 to 180°
Step of Cylindrical Axis.....	5°
Range of Prismatic Power.....	.4 prism diopter
Step of Prismatic Power.....	.1 prism diopter
Maximum Lens Diameter.....	.80mm
Lighting lamp.....	220V/3W; 110V/3W
Eyeiece Focusing.....	-5D to +5D
Voltage & Power.....	AC110V/60Hz; AC220V/50Hz or DC3V (2 AA batteries)
Weight.....	360g



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CT51107N MARKING & PROGRESSIVE LENS IDENTIFIER

FEATURES

- This device will greatly assist in the quick and easy location of the various manufacturer's marks placed on progressive lenses.
 - This is achieved by special background contrasting and lighting.
 - Adjustable inclination for a better reading.
 - LED bulbs.
 - The mounted magnifier assists in the reading of these marks
- Lens type ID.
Marks.
Added power.
- Test the lens strain to avoid the new blurry area.
 - Check the quality of the surface and coating of the lens.

SPECIFICATIONS

POWER.....	AC110-240V, 50/60Hz
Dimension.....	220x220x360mm
Weight.....	.800g



CE

Function

1. Testing the lens strain
2. PAL Identifier
3. Showing the invisible marks
4. Testing the quality of the lens

T405/T406 RADIAN APPARATUS

T405: n1.53

T406: n1.53/1.599/n1.61/n1.67



ALE-1000 Main Edger

Stable main machine, easy operation, convenient maintenance.

Dimension.....620mmx520mmx600mm
 Weight.....55kgs
 Voltage.....AC220V/110V 50/60Hz
 Power.....550W
 Accuracy.....Tolerances 0.01mm
 Size range.....20mm~80mm
 Axis accuracy.....0.1°
 The adjustable step length of size.....0.05mm
 Clamping pressure.....80kgs
 Lens Material.....PC, Glass, CR, HI, HR, TC
 The processing type.....pointy edges, platband, bevel polishing, platband polishing
 Screen.....truecolor, 5.7 inch TFT LCD, lens photograph displayed as 1:1 and with use-friendly operating interface



ST-1200 Scanner

Optical path without parallax, original shape scanning, more accurate.

Dimension.....325mmx250mmx205mm
 Weight.....5kgs
 Voltage.....AC230V/115V 50/60Hz
 Power.....60W
 ADD adjustment range......6mm
 Screen tilt angle.....0~130°
 Max storage.....500 sets
 Touch screen.....7 inch capacitive screen
 Quantity connecting with the main machine.....2 units



Optical path without parallax, original shape scanning, more accurate.

ALE-1000



Adapt to PC, Glass, Resin, HI, HC and TR lens material.



Three grade headpiece pressure to prevent the lens from being out of axis.



Have the optical centering and geometric centering modes.



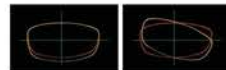
Three grade headpiece pressure



All English and graphical menu, easy operation and convenient maintenance.



ST-1200



Digital template can edit the figure



500 sets lenses data storage



One scanner with two main machines



Turn out to install the suction cup, more easy operation.



Special design suction cup holder to realize lens returning by one push



It is adjustable for the scanning light source, more than 98% Demo lenses are available.



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SPECIFICATION AND PARAMETERS

Size.....728mm(L) X 600mm(W) X 442mm(H)
 Voltage.....230V/50Hz; 115V/60Hz
 Lens edger.....1500W
 Biggest pump pressure 230V~50Hz, 115V~60Hz
 Pump ac consumption.....350W
 Lens-edger system.....Auto pointy platband beverage polishing slotting punching

- Input the date simply, high-resolution touch screen
- The binocular display 1:1 on the screen, all order are clear at a glance in the edging process
- Control process are systematic, easy-understanding icons make you grasp in upon learning.



SCREENS



ALIGN THE CENTER/PLAY SUCKER

- No-parallax
- No-deformation
- Humanized
- Easily moved by only one finger
- Play sucker with simple three steps
- Foolproof slot and visual design, ensure sucker easily embed.
- The rotating arm of sucker is ergonomic design, so the sucker is ergonomic design, so the sucker is easy embed.
- Rotating arm reset smoothly after setting sucker, easy to operate.



EDGING AREA

- Meeting requirements for all material's high curvature lens processing (including the CR39, PC Trivex high flaps glass, etc.)
- Adopt small size diameter wheel of 90 mm
- Around pointy edges safely
- According to super hair lotions film lens, SLE-3000 adopts a unique processing methods to avoid the deviation axis
- Point edges and flat polishing



SCANNING

- The scanner which is protected by patents
- The mirror bracket parameters can be recorded accurately through the multi-axial scan, including the shape and bending
- Special protective cover can avoid the entry of dust and water
- The metal racks, plate racks, templates and linings can be scanned accurately
- Frames can be positioned easily
- Can clamp manually, it could prevent distortion of the ultra-thin frame scan
- Gently adjusted in the process of clamping frame center position, make smooth frame center position can get accurate measurement
- Scan cycle is short: complete binocular scan within 1 minutes
- Storage features:300 job ticket and 200 internal memory frames.



SETTINGS AND PUNCHING

- Built-in digital lens shape modification software
- Modify the size of the lens easily(Use the way revise the of A or B such as modified respectively modified in proportion etc)
- Display punching process on the screen
- Increase/delete or adjust hole site(By setting the coordinates or moving on the screen to change
- The diameter of the punch and slot: 1-6mm
- Each lens can be open up to holes

SPECIFICATION:

Power.....150W
 Dimension.....360(L)X200(W)X288(H)mm
 Voltage.....110V~120V/60Hz or 200~240V/50Hz



35WV 35W 35V



WHEEL OPTIONS

35W	Width 35mm, right rough grinding 16mm, left fine grinding 19mm.	Rough grinding No. 180, fine grinding No. 240, 280, 320(Optional)	
35WV	Width 35mm, right rough grinding 16mm, left fine grinding 19mm edge truing groove.	Rough grinding No. 180, fine grinding No. 240, 280, 320(Optional)	
35V	Width 35mm, large surface fine grinding, trimming by truing groove.	Graduations No. 240, 280, 320(Optional)	

NH-100WV HIGH-SPEED HAND EDGER

FEATURES:

- Original appearance design
- Good adding and draining water system
- Selector switch to change the rotating direction.
- Good grinding effects: smooth and fine.

WHEEL OPTIONS:



H-831 HAND EDGER**SPECIFICATIONS**

Power supply.....	AC 100-120V/60Hz, 200-240V/50Hz
Motor.....	150W
Water pump.....	3W
Dimension with packing.....	430mmX270mmX280mm
Gross weight.....	9kgs

Attention: If the machine won't be used for long, please remember to keep the water container clean without water.

MECHANISM AND ACCESSORIES

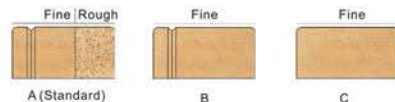
Sensor: The sensor starts/stops the diamond wheel automatically when your hands approach/far away from the grinder work area. The sensor works only when needed, so you can save time and electric energy in safety. The sensor has a long service life, it can be also replaced easily.



Water circulation system: A water container inside the housing can supply water continuously to the wheel by a pump inside. The filter net keeps only the clean water to the pump, and the pump can be pulled out freely by hand when changing the water after some time. The filter net can be easily cleaned with brush. The water valve can adjust flux anytime during the grinding.

DIAMOND WHEEL

Width 35mm Diameter 100mm

**CP-7 HAND EDGER**

DC MOTOR

FEATURES

The hand edger is delicate and compact, small footprint. DC motor, low noise, slight vibration.

SPECIFICATIONS

Dimensions.....	350x220x210mm
Weight.....	5kgs
Power.....	110/220V, 60/50Hz; DC80W



Diamond grinding wheel available: 20#, 30#, 35W, 35WV

**CP-11A HAND EDGER**

AC MOTOR

FEATURES

Double-wheel holder Safe and reliable. AC motor: high speed.

SPECIFICATIONS

Dimensions.....	490X290X300mm
Weight.....	9kgs
Power.....	110/220V, 60/50Hz; AC 120W

**H-83II HAND EDGER****FEATURES**

Same as H-83I, just use ON/OFF switch instead of IR sensor, so that the price is much more competitive.



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NH-800 AUTOMATIC LENS GROOVER

SPECIFICATIONS

Dimensions.....270(L)X210(W)X150(H)mm
 Net Weight.....2.7kgs
 Power Requirement.....110V/220V, 90W

FEATURES

- Non corrosive machine body.
- Suitable for plastic and glass lenses.
- Adjustable groove position(front-central-rear)
- No water system required.
- Accurate on all profiles.
- Adjustable groove depth: from 0 to 0.7mm.
- Groove width: 0.65mm.
- Len thickness: from 1.5 to 11mm.
- Len Φ: from 18 to 70mm
- Power: 90W



NH-800AT

NH-800AX



NH-800G AUTOMATIC LENS GROOVER

FEATURES OF NH-800ATG

- Improving the structure of grooving table based on origin, the grooving length has been increased greatly.
- Suit for modern and fashion eyeglasses' manufacturing.
- No grooving deformation by improving the lens chuck.
- Improving on the angle of cutter wheel guarantee the steady of grooving.

FEATURES OF NH-800XG

- Manual adjustable, precise controlling
- Limited sizes of grooving
- For oblong corner lenses: Φ22X52mm
- For round corner lenses: Φ22X56mm
- Adopt new cutter wheel for grooving
- Adopt low sound electric motor(100Watt)



NH-800ATG

NH-800XG



Limited size of grooving
 Oblong corner lenses:22X56mm



Limited size of grooving
 Oblong corner lenses:22X52mm



G-1

G-2

G-3

G-4

G-5

G-6

G-7

G-8

G-9

CP-3CR AUTOMATIC LENS GROOVER

Stainless steel panel, common blade

FEATURES

- Non corrosive machine body.
- Suitable for plastic and glass lenses.
- Adjustable groove position(front-central-rear)
- No water system required.
- Accurate on all profiles.

SPECIFICATIONS

Adjustable groove depth : From 0 TO 0.7MM
 Groove width : 0.65mm
 Lens thickness : from 1.5 to 11mm
 Lens dia. : from 18 to 70mm
 Power : 110/220V ,60/50HZ; 60W
 Weight : 3kgs
 Dimensions: 280x230x220mm



CP-3PCG AUTOMATIC LENS GROOVER

Stainless steel panel, PC blade

FEATURES

- Non corrosive machine body.
- Suitable for plastic and glass lenses.
- Adjustable groove position(front-central-rear)
- No water system required.
- Accurate on all profiles.

SPECIFICATIONS

Adjustable groove depth : From 0 TO 0.7MM
 Groove width : 0.65mm
 Lens thickness : from 1.5 to 11mm
 Lens dia. : from 18 to 70mm
 Power : 110/220V ,60/50HZ; 60W
 Weight : 3kgs
 Dimensions: 280x230x220mm



CP-8 AUTOMATIC LENS POLISHER

FEATURES

Automatic lifting, light and heavy can be adjusted.
 "Auto stop" control by microcomputer.

SPECIFICATIONS

Dimensions.....350(L)X290(W)X340(H)mm
 Weight.....6kgs
 Power requirement.....110V/220V 60Hz/50Hz 80W



CP-8B AUTOMATIC LENS POLISHER

FEATURES

Semi-Auto, Timer can be setting in 1-5mins

SPECIFICATIONS

Dimensions.....350(L)X290(W)X340(H)mm
 Weight.....6kgs
 Power requirement.....110V/220V 60Hz/50Hz 80W



CP-8A AUTOMATIC LENS POLISHER

FEATURES

Cloth wheel suitable for polishing CR lens
 Wool wheel suitable for polishing PC lens

SPECIFICATIONS

Dimensions.....430(L)X230(W)X260(H)mm
 Weight.....5kgs
 Power requirement.....110V/220V 60Hz/50Hz 120W



NH-3G DIGITAL LENS DRILLER

MAIN FUNCTIONS

- 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 accidentally.
- The instrument drills automatically in a set order, and can be corrected by pressing the number button if any hole is missed by wrong operations.

SPECIFICATIONS

Power Requirement.....AC100V-240V DC24V
 Power.....50W
 Weight.....5kgs
 Dimensions.....302x228x270mm
 Drilling Speed.....0-5000rpm
 Moving Range.....X-axis 155mm Y-axis 38mm



•Drill bit: orange, purple, red, brown, yellow, blue, green

•Milling cutter(white), Probe, Drill chuck, Height adjusting screw, Chamfer tool, Chamfer tool, Wrench, Belt

CP-2AT LENS DRILLING MACHINE

FEATURES

Ideal for drilling holes in glass and plastic lenses.
 Opposing taper drill bits system allow holes to be drilled from both sides simultaneously for precise place and avoids chipping and breaking of all lenses, especially those made of glass.
 After hole drilled, placed the lens under reamer and lifted upwards to be enlarged to desired size.

SPECIFICATIONS

Dimensions.....250x200x330mm
 Weight.....3kgs
 Power requirement.....110V/220V 60Hz/50Hz 40W



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CP-18C UV&PHOTOCHROMIC LENS TESTER

FEATURES

- 1.UV-400 (Correcting knob)
- 2.UV-400 (Test Point of UV)
- 3 (Test point of Transmittance)
4. (Radiation-Resistant Test)
5. (Test Button for Transmittance)

SPECIFICATIONS

Dimensions.....290x180x110mm
Weight.....1.5kg
Power requirement.....110V/220V 60Hz/50Hz 10W



CP-12 POLARISCOPE

FEATURES

1. Easy ,clear and simple to test lens or finished glasses, LED lamp.
2. Test the inside stress situation

SPECIFICATIONS

Voltage:100V-240V
Power:12V
Dimension:30 X 16 X 15(cm)
Weight: 1kg



UVR-3 UV TESTER

1. Anti-UV rays shading monitor.
2. Anti-UV optical lens detector.
3. Anti-radiation monitor-E.M.I.
4. Voltage: 220V / 110V



UV-375 standard lens
for adjusting machine



CP-14 TESTER FOR COLOUR-CHANGING LENS

FEATURES

1. Instantaneous color change of chameleon glass block.
2. It is an ideal instrument for the glasses factories and store.

SPECIFICATIONS

Unit dimension.....220X110X115mm
Net weight.....0.3kg
Power requirements.....110V/220V 60/50Hz AC 30W



CP-12A POLARISCOPE

FEATURES

1. Easy ,clear and simple to test lens or finished glasses, LED lamp.
2. Connect with a adapter to use
3. With a timer control in 1 mins

SPECIFICATIONS

Voltage:220V/50HZ or 110V/60HZ
Power:12V
Dimension:21.5 X 13 X 16.5(cm)
Weight: 0.6kg



CP-14B PHOTOCHROMIC LENS TESTER

FEATURES

- It will be your good choice to test the photochromic lens in short time by the flash light.
- 4pcs big bulbs, the purple light to test the lens, the space is enough to put 4 or 5pcs lenses to test at the same time.
- After finished testing, turn off the machine to avoid any danger.

SPECIFICATIONS

Dimensions.....250x140x290mm
Weight.....1kg
Power requirement.....110V/220V 60/50Hz AC 36W



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CP-29B MULTI-FOCAL LENS TESTER

SPECIFICATIONS

Dimensions.....30x16x15cm
Weight.....1kgs
Power requirement.....110V/220V 60Hz/50Hz 12V



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W841 DIGITAL FRAME WARMER

(HIGH CLASS)

MECHANISM AND ACCESSORIES

Digital temperature: Display the real-time work temperature inside the housing.

Temperature control system: The standard version of frame heater is fitted with an electronic system to monitor and control the actual work temperature inside. It records the latest work temperature when restart the machine.

Heat collecting device: The heated air is collected through one wind outlet for special frame or position of frame.

SPECIFICATIONS

Power supply.....AC 100~120V/60Hz,200~240V/50Hz
 Motor.....6W
 Available temperature.....40°C~140°C
 Power of Heating wires.....580W
 Power rating.....800W
 Wind speed.....1.8m/s
 Weight.....1.26kgs
 Dimension.....235mmX125mmX250mm

OPERATION GUIDE

1. Turn on power switch
2. Turn on heating switch
3. Adjust the temperature you need by the temperature adjustment key

**RJ-84** Round Jet**PB-84** Plastic Baker**RS-30 LENS COLOR MACHINE****SPECIFICATIONS:**

1. Make the lens colored simply and quickly.
2. Only for CR-39 Non-coated lens.
3. 6 pcs coloring cups and 2 pcs clips.
4. The main body from stainless steel.
5. Temperature set and automatically kept.
6. Dimension: 49X29X18cm
7. Net weight: 9.4kgs
8. 110V/220V, 1500W

CL-30
Clip**CP-19AT FRAME WARMER****FEATURES**

1. Ceramic heating
2. Temperature show on screen.
3. Adjust the temperature by the key

SPECIFICATIONS

Power supply.....AC110/220V,60/50Hz
 Power of heating coil.....500W
 Power of motor.....15W
 Wind speed.....1.8m/s
 Available temperature.....80°C~160°C
 Weight.....1.6kgs
 Dimension.....230x230x200mm



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CP-19T FRAME WARMER**FEATURES**

Ceramic heating

SPECIFICATIONS

Power supply.....AC110/220V,60/50Hz
 Power of heating coil.....500W
 Power of motor.....15W
 Wind speed.....1.8m/s
 Available temperature : 160°C(from 80°C-160°C need about 3mins)
 Weight.....1.6kgs
 Dimension.....230x230x200mm



CE

CP-19C FRAME WARMER**FEATURES**

Heating coil

SPECIFICATIONS

Power supply.....AC110/220V,60/50Hz
 Power of heating coil.....500W
 Power of motor.....15W
 Wind speed.....1.8m/s
 Available temperature.....80°C~130°C
 Weight.....1kg
 Dimension.....210x160x270mm



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CP-17A ULTRASONIC CLEANER**FEATURES**

Remarkable cleaning effect, Small volume, Large Power, Easy to use. It is equipped with sound water-proof system.

SPECIFICATIONS

Dimensions:240x210x210mm
Weight:2.5kgs
Power:110V/220V,60/50HZ,17A/50W

**CD-7810A ULTRASONIC CLEANER****FEATURES**

- 1.Cleans discs such as CDs, VCDs, DVDs, etc.
- 2.Use only plain tap water to clean.
- 3.Remove dirt effectively; results can be seen with bare eyes.
- 4.Clean articles to shine just like new.

SPECIFICATIONS

Ultrasonic frequency.....42,000Hz
Tank material.....Stainless steel SUS303
Tank capacity.....750ml
Timer.....5 working circles,choose time freely
Power supply.....AC100-120V,50/60Hz AC220-240V,50/60Hz
Power.....35W(110V),50W(220V)
Unit size.....236(L)x205(W)x170(H)mm
N.W.....0.99kgs
G.W.....1.07kgs

**CD-4800 ULTRASONIC CLEANER****FEATURES**

- 1.High power transducer for superior cleaning results.
- 2.Larger tank capacity for professional cleaning.
- 3.Isolated-circuit design,keep water away for extra safety.
- 4.First ultrasonic cleaner to introduce cooling fan for prolonged operation.

SPECIFICATIONS

Ultrasonic frequency.....42,000Hz
Tank material.....Stainless steel SUS303
Tank capacity.....1,375ml(2.4pint)
Quiet,Solid states circuitry
Timer.....5 Cycles,with digital time display
Power supply.....AC100-120V,50/60Hz;AC220-240V,50/60Hz
Power.....60W(110V),70W(220V)
Unit size.....230(L)x180(W)x160(H)mm
N.W.....1.75kgs
G.W.....2.15kgs

**CD-4820 ULTRASONIC CLEANER****FEATURES**

This machine has not only the function of ultrasonic, but also the function of heating. It can burn the water in the tank up to 65°C, so that it enhance the cleaning effect.

SPECIFICATIONS

Tank capacity.....2400ml
Max lin.....2100ml
Min lin.....600ml
Power supply.....160W,AC 100-120V,60Hz
170W,AC 220-240V,50Hz
Unit size.....340X255X225mm
Unit weight.....2.36kgs
Packing No.....4pcs/ctn
Carton size.....520X350X480mm
Gross weight.....3kgs

**T605 TOOL SET**

Quantity of the tool total: 13pcs
Plier: 7pcs
Screwdriver: 6pcs

**T608 TOOL SET**

FOR SEMI-RIMLESS GLASSES

**T634 TOOL SET**

8 slots of pliers,
6 slots of screwdrivers

**T606 TOOL SET**

Quantity of the tool total: 16pcs
Pliers: 9pcs
Screwdriver: 6pcs
File: 1pc

**T604 TOOL SET**

FOR RIMLESS GLASSES

**T619 SCREWDRIVER SET****T602 SMALL SCREWDRIVER**

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T633 SCREW EXTRACTOR

Extruding Pin for screws broken with the head 1pc
 Fixing Pin for screws broken with the thread 1pc
 Hexagon driver 1pc
 Tungsten Drilling bits 2pcs
 Screw tap handle with 2 screw taps

**BT-007 JOB TRAY****SPECIFICATIONS**

Size.....Large:270X185X44mm
 Small:245X170X42mm
 Color available.....Orange, clear,
 blue and yellow

**T201 TOOL TRAY****CP-33 SCREW EXTRACTOR****BT-008 JOB TRAY****SPECIFICATIONS**

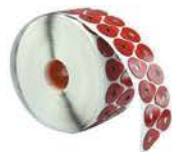
Size.....Large:232X156X52mm
 Small:232X156X42mm

**T640 PROTECTION & ANTI-SLIP DISC****T641 BLOCK PADS**

18x25mm

**T644 BLOCK PADS**

21mm

**T647 BLOCK PADS**

18mm

**T650 BLOCK PADS**

18x25mm

**T642 BLOCK PADS**

24mm

**T645 BLOCK PADS**

18x32mm

**T648 BLOCK PADS**

21mm

**T651 BLOCK PADS**

17x30mm

**T643 BLOCK PADS**

17x30mm

**T646 BLOCK PADS**

18mm

**T649 BLOCK PADS**

24mm



Box packing
 1000pcs pads each box

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Intelligent and efficient, Simple, Good image quality

FEATURES

Images so good

In order to provide a clearer, higher quality fundus photographs, company is always carrying fundus examination technology innovation. Re-optical the design of the optical system to enhance the optical lens material, change optical structure and processing technology.

Precision machining

Coating, dust, fog and other dozens of strict production process, strict installation process, leading optical image measuring instrument, precision instruments detected. With high permeability, high resolution, which can effectively reduce stray light interference, eliminating central scotoma image, clearly showing the fundus details.

10 seconds fast imaging

The latest update of the optical system, we upgrade mechanical, electronic systems, use intelligent microprocessor to improve operational efficiency. Improved mechanical control module, increasing the overall coordination and execution to achieve in real time to observe the effect, increase inspection efficiency. Advanced image acquisition device is 18 million pixels, the fundus image acquisition in color, contrast, detail outstanding.



CE FDA

THE OPERATION IS SO EASY

FIRST STEP

Two dots alignment

Adjust two dots to highest brightness, then you get the best shooting position

Auto alinement

Auto-focus

Auto-focus system will adjust automatically to best position, ensure the best fundus image

Auto Exposure

Automatically adjust exposure value according to patient pupil size, decrease human judgment, get the best high quality image.

SECOND STEP

Shooting images

Get high quality/stable fundus image easily.



Auto focus



Auto exposure



Imaging

SPECIFICATIONS

- Field Scope.....up to 53°
- Working distance.....40 mm
- Non-myriatic 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
- Internet 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)
- orkstation.....Electricmoto-table(elevator optional one)
- Printer.....High quality inkjet printer



Diameter 3.3mm

Non-myriatic design
 Minimal Pupil size 3.3mm,
 suitable for wider population.



Smart micro movement platform
 Ergonomic design of micro platform
 and handle, 1mm precision control,
 ease of movement, adjusted to meet
 your precise needs.



Comprehensive fixation systems

External and multi-point internal
 fixation target to meet the needs
 of fundus Periphery part.

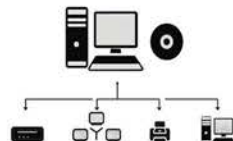


Tested eye evaluation system:

Newly developed ophthalmic evaluation system can effectively judge the patient pupil size and refractive media situation, which provide more effectively fundus examination, obtain better quality images.



Stitching fundus image



DICOM interface remote consultation



Common cases describe library



Professional data management

Full-featured software

Easily help you achieve image capture-image analysis-Clinical Diagnostics-report printout-data management, statistics.

FEATURES

- High definition, and stable image
- Handheld, Easy operation and excellent portability
- Non-mydratic and large field of view
- It can be conveniently applied to rapid screening, out diagnosis, bedside diagnosis and remote medical treatment, etc.
- USB and WiFi connection

SPECIFICATIONS

Field of Vision.....	40°
Minimum pupil diameter.....	3mm
Refractive compensation range.....	±20D
Light source.....	white LED/I/R
Image resolution.....	1920x1080
Focus mode.....	Manual
Screen.....	3.5" color LCD
Power.....	≤6VA
Storage.....	8GB MicroSD card
Power supply.....	3.7V 2600AH Lithium Battery
Interface.....	Mini USB/WIFI
G./N. weight.....	2.5kgs/0.45kg



CE



Charger for KJ-25



SPLIT TYPE



Computer not included

FEATURES

- 1.International standards
Sphere radius, background light and vision target brightness, size etc. of the projection perimeter in compliant with Goldmann standards.
- 2.Color perimetry: a more sensitive detection of early visual field defects
Blue and yellow contrast perimetry, stimulating red light perimetry
- 3.Accurate,fast Vision Testing
Eye position monitoring and automatic system (AEC),making sure the patient eye position correct
- 4.Original intelligent testing strategies (IDT): 3 minutes to complete a full inspection threshold
- 5.Dynamil perimetry
In addition to the standard Dynamic perimetry program (Standard 45,the standard 30,a high-resolution 15), users can also manually set the detection test parameters, and save it as usual Kinetic perimetry program.
- 6.Comprehensive and versatile single analysis and reporting reliability: Accurate interpretation of perimetry results

SPECIFICATIONS

Stimulating way.....	Optical projection
Projection surface.....	aspheric projection arc
Detection method.....	Static perimetry, Dynamic Perimetry
Detection scope.....	0-90°
Brightness Level.....	0-51db
Testing Distance.....	300mm
Visual Target Color.....	Red,Blue,White
Visual Target Brightness.....	0asb-10000asb
Background Light.....	white(31.5asb),yellow(315asb)
Vision Target Interval time.....	patients adaptive, standard, (keeping time) slow, custom
Pupil Size Measurement.....	Auto
Head Movement Way.....	AEC Eye position monitoring and automatic correction system
Brightness Measurement.....	Brightness Auto Measurement and correction

INTEGRATED TYPE(TOUCH SCREEN)



CE FDA

Visual Target Size.....	I Grade II Grade III Grade IV Grade V Grade
(Goldmann standard)	
Detection strategy.....	Full-threshold,fast threshold, custom, two notation, quantify defects, intelligent dynamic, fast intelligent dynamic
Threshold policy.....	age-related,threshold-related,single strength
Static Perimetry	
Threshold Test Mode.....	Center 10-2,Center24-2,Center30-2, Center60-4,Nasal step, macula;
Screening, special test mode.....	Center 40,Center64,Center76; Center80,CenterArm aly, Peripheral 60, Nasal step, Armaly Full Field, Full 81, Full Field 120,Full Field 35, Full Field 246, upper 36,upper 64,esterman monocular, esterman binocular
Dynamic Perimetry	
Dynamic program.....	manual procedures, standard procedures (Standard 45,standard30,a high-resolution 15), Static point map, dark spot map, blind spot map, custom dynamic program
Stimulation parameters.....	adjustable(Speed 1-9/S,visual target size, color, intensity, test ranges, etc.)
Fixation monitoring.....	Dynamic real-time video monitoring, physiological blind spot monitoring, eye tracking curve, eye position offset alarm
Analysis Software.....	Reliability analysis, single vision analysis, triple report analyzes, overview vision analysis, GHT glaucoma semi vision analysis, GPA glaucoma developing analysis
Report Figure.....	Value map, grayscale map, the overall bias decibel chart, the overall deviation probability map, chart pattern deviation decibels, pattern deviation probability plot, staring Figure



Stimulator of APS-6000B

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MINIMAL CONNECTION PORT REQUIREMENT FOR COMPUTER

Both PC version or Laptop version needs at least three USB 2.0 ports.



Working Group



Stick

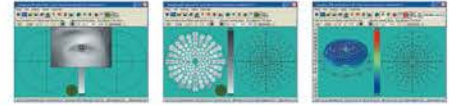
SPECIFICATIONS

Stimulator type.....	LED
Stimulator screen.....	Hemispherical bowl, radius 30cm integrated
Stimulus source.....	Light emitting diode, wave length 580nm-650nm
Stimulus size.....	2mm
Stimulus intensity.....	2.5-1000(asb)
Stimulus duration.....	Adjustable 0.2 to 2 seconds
Stimulus color.....	yellow, red
Stimulus step.....	total 27 step 1
Patient response time.....	Adoptive to patient, adjustable 0.2 to 2 seconds
Minimum inter-stimulus delay.....	Adjustable 0.2 to 2 seconds
Background illumination.....	4 (asb)
Test lens diameter.....	35mm
Central sign diameter.....	3mm
Stimulus points.....	144(0~60°), 72(0~30°), 72(60~90°), 61(0~10° red), 114(Blind spot)
Chin rest moving range.....	vertical 70mm, horizontal 90mm
Strategies.....	Estimative test, Qualitative test, Auto threshold, Fast threshold, Full threshold, Esterman test and other popular mode
Test range.....	Default test(0~60°), Yellow spot test(central 0~10°), Central 0~30° test, Quadrant test, Peripheral test(60~90°), Blind spot test, Custom test
Stimulator unit dimension.....	ACP-6000B: 67(H)X66(W)X38(D)cm ACP-6000C: 75(H)X60(W)X65(D)cm
Stimulator unit weight.....	ACP-6000B: 18kgs approx. ACP-6000C: 40kgs approx.
Stimulator unit power requirement.....	110/220V AC 60/50Hz
Fixation method.....	Automatic monitoring with two options: Available blind spot method and eye tracking method In both methods, fixation errors are to be immediately announced by visual and audible warning The standard video camera should provide visual of the patient' eye for additional monitoring.



Built-in computer

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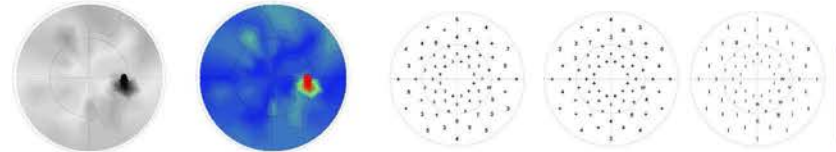


Standard accessory: printer

Same as APS-6000B, just with built-in computer instead of PC or laptop.

Testing report example

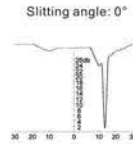
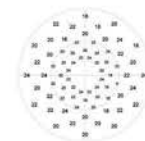
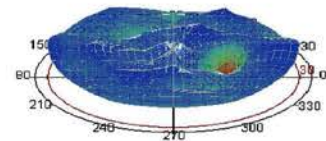
Threshold grey image 30° B Threshold color 30° B Comparisons 30° B Correct Comparisons 30° B Probability 30° B



3D 30° B

Digital threshold image 30° B

Corrected probability 30° B



Slitting angle: 0°



SOM-2000D OPERATION MICROSCOPE

(HIGH TECHNOLOGY & ZOOM)



Foot Control



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SPECIFICATIONS

Magnifications of Eyepiece.....	12.5X/18B
Big objective foci.....	200mm
Working Distance.....	170mm
Magnifications of Main Microscope.....	4X~27X Continuous Magnification
Magnifications of Assistant Microscope.....	6X/10X/16X
Diameter of Field.....	Φ46mm~Φ85mm
Adjustable Diopter.....	±7D
Adjustable range for Pupil Distance.....	50mm~75mm
Illumination Source.....	12V/100W Halogen lamp
Illumination Type.....	6°±0° Coaxial Illumination, 26° oblique illumination
Coaxial Illumination.....	≥80000lx
Oblique Illumination.....	≥60000lx
Reaching Range of Arm.....	1230mm
Adjustable Vertical Range.....	880mm~1420mm
Fine Focusing Speed and Range.....	≤2mm/s, ≥50mm
Speed for X-Y and Range Voltage.....	≤2mm/s, 50mmX50mm AC220V±10%/50Hz±1Hz, AC110V±10%/60Hz±1Hz
Power.....	170VA
Fuse.....	AC250V T4.0A, AC125V T8.0A
Electric safety standard.....	IEC601-1
Whole Packing Volume.....	0.756CBM
Carton Number.....	5
G/weight.....	215kgs

1. X/Y movement and focusing can be automatically centered.
2. Lens is made of glass which imported from Germany. It can reduce the optical aberration. All of the lens are multi-coated, mildew-proof and anti-reflection.
3. Zoom magnification for main microscope.
4. Three-step magnifications for assistant microscope; Fine focusing for assistant microscope keeps the same clearness as main microscope.
5. Special protection device for objective can keep the objective clean.
6. Special motorized inclinations are suitable for special observation angle.

**OPTIONAL ACCESSORY**

- Teaching tube, Beam Splitter.
- 1/3" CCD Camera, CCD Adapter, Beam Splitter and relevant cables.

SOM-2000DX OPERATION MICROSCOPE

(HIGH TECHNOLOGY & ZOOM)

CHARACTERISTICS

- Develop from SOM-2000D, with the illumination source of 100W medical Xenon lamp which provides a clear and fine observations.
- 2° and +6° coaxial illumination greatly improve the intension and range of red light reflex.



Xenon lamp

SOM-2000E OPERATION MICROSCOPE

Electromagnetic lock and balance technology of the microscope ensure the easy operation and stable orientation. Developed from model SOM-2000D.

FEATURES

- Electromagnetic lock and balance technology of the microscope ensure the easy operation and stable orientation.
- 6°±2° coaxial illumination results in the stronger red light reflection and sharper image of posterior capsula.
- The cold light source is bright and uniform enough, which has no harm to tissue.
- Germany optics and Apochromatic technology ensure clear field of view and high resolution.
- Retinal aspherics and BIOM added on objective could meet the demand of posterior operation.
- The equipment is applied not only in ophthalmic operation, but also in neurosurgical, ENT, Cardio-Thoracic Surgical operations, etc.



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SPECIFICATIONS:

Eyepiece Magnification.....	12.5X/18B
Magnifications of Main Microscope.....	4.6X~27X(8.5~46 mm) zoom magnification
Magnifications of Assistant Microscope.....	6.2X, 9.3X, 14X
Focus.....	f=200
Working Distance.....	195mm
Adjustable Diopter.....	±6D
Adjustable Range for Pupil Distance.....	55mm~75mm
Illumination Type.....	6° coaxial illumination 6°±2° coaxial illumination
Coaxial Illumination.....	≥50000lx
Maximum Height of Microscope.....	1710mm

Reaching Radius of Arm.....	1320mm
Balanced Arm Adjustable Range.....	±300mm
Adjustable Vertical Range.....	880mm~1420mm
Lens Inclination Range.....	40°(back)/90°(front)
Fine Focus Range.....	50mm
Fine Focus Speed.....	≤2mm/s
Range for X-Y.....	50mmX50mm
Speed for X-Y.....	≤2mm/s
Illumination Source.....	15V/150W, Cold-reflection halogen lamp for medical use
Electrical Safety Standard.....	Conform to Standard GB9706.1-2007, Class I

YZ-20T4 OPERATION MICROSCOPE(multi-function)

Five-step magnifications for main microscope, three-step magnifications for assistant microscope.
 Lens made of imported glass from Germany can reduce the optical aberration. All of the lens are multi-coated, mildew-proof and anti-reflection.
 Equipped with three Objectives and applicable to OPHTHALMOLOGY, ORTHOPAEDICS, SURGERY.
 Oblique illumination can be used for slitting and slitting width is adjustable.
 X/Y movement can be automatically centered.



Foot Control

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OPTIONAL ACCESSORY

- Teaching tube.
- 1/3" CCD Adapter and relevant cables.

SPECIFICATIONS

Magnification of Eyepiece.....	12.5X/18B
Adjustable Diopter.....	±7D
Adjustable range for Pupil Distance.....	50mm~75mm
Illumination Source.....	12V/100W, Halogen Lamp
Coaxial Illumination.....	≥50000lx
Oblique Illumination.....	≥45000lx
Reaching Range of Arm.....	1040mm
Adjustable Vertical Range.....	850mm~1350mm
Fine Focusing Speed and Range.....	≤2mm/s, ≥50mm
Speed for X/Y and Range.....	≤2mm/s, 50mmX50mm
Voltage.....	AC220V±10%/50Hz±1Hz, AC110V±10%/60Hz±1Hz
Power.....	330VA
Fuse.....	AC250V T4A, AC125V T8A
Electric safety standard.....	GB9706.1-2007 type 1
Whole Packing Volume.....	0.727CBM
Carton Number.....	5
G/weight.....	210kgs



Objective/Working Distance(mm)	Magnifications of Main Microscope	Magnifications of Assistant Microscope	Diameter of Field(for Main Microscope)(mm)
F200/190	4X		Φ58
	6X	6X	Φ38
	10X	10X	Φ23
	16X	16X	Φ14
	25X		Φ9
F250/240	3.2X		Φ72
	5X	5X	Φ46
	8X	8X	Φ29
	12.8X	12.8X	Φ18
	20X		Φ12
F300/290	2.7X		Φ87
	4.2X	4.2X	Φ55
	6.7X	6.7X	Φ34
	11X	11X	Φ22
	17X		Φ14



YZ-20P5

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YZ-20P6

YZ-20P5 OPERATION MICROSCOPE

YZ-20P6 OPERATION MICROSCOPE

(OPHTHALMOLOGY)

SPECIFICATIONS

Magnifications of Eyepiece.....	12.5X/16B
Objective.....	200mm
Working distance.....	190mm
Magnifications of main microscope.....	5.3X, 8X, 12X
Diameter of field.....	YZ-20P5:Φ38mm, Φ25mm, Φ17mm YZ-20P6:Φ37mm, Φ25mm, Φ16mm
Adjustable diopter.....	±7D
Adjustable range for pupil distance.....	50mm~80mm
Illumination source.....	12V/100W, Halogen Lamp
Maximal resolution.....	100LP/mm
Illumination type.....	6°+0° Coaxial Illumination
Reaching range of arm.....	YZ-20P5:870mm YZ-20P6:1030mm
Adjustable vertical range.....	YZ-20P5:700mm~1100mm YZ-20P6:750mm~1150mm
Fine focusing range.....	30mm
Voltage.....	AC220V±10%/50Hz±1Hz, AC110V±10%/60Hz±1Hz
Power.....	120VA
Fuse.....	AC250V 1.25A, AC125V 2.5A
Safety Electrical Standard.....	GB9706.1-2007 type 1
Carton Number.....	1
Whole Packing Volume.....	YZ-20P5:0.2CBM YZ-20P6:0.24CBM
G/weight.....	YZ-20P5:41kgs YZ-20P6:51kgs

OPTIONAL ACCESSORY

- 1/2" or 1/4" CCD Camera, CCD Adapter, Beam Splitter and relevant cables.
- Straight Binocular Tube, Universal Structure (for ENT).
- Five Objectives: f175mm(standard), f250mm, f300mm, f350mm, f400mm (12.5X eyepiece)
- 10X eyepiece
- Desktop Parts (Holding Bracket, Column).
- Portable Package (including two aluminum case and a suitcase with castor).

SPECIAL FEATURES OF YZ-20P6:

- New improved coaxial illumination operation microscope for one person. Longer arm for bigger range. It is portable, compact for ophthalmology.
- Optical lens are all multi-coated, mild-proof and anti-reflective.
- Image is clear and view field is even.
- Illumination system does no harm to tissues by using cold light source fiber.
- Illumination is sufficient and even.
- Cortical remnants on the posterior capsular can be clearly observed by the 6°+0° coaxial illumination.
- Position screw can protect the arm at any location from moving.

FEATURES

- The table is designed and made specially according to ophthalmologists' advices and can apply to various operations for ophthalmology.
- Tabletop lift adopts electro-hydraulic type, easy to operate.
- All cover made of 304 stainless steel, easy to clean.
- Nice appearance, stable performance, can be regarded as ideal ophthalmological operating table.
- Equipped with electric chair, makes the doctor more comfortable and convenient in operation.



CE

EC-200

SPECIFICATIONS

OPERATION TABLE

Size of table top.....	2080(L)X550(W)mm
Table top elevation range.....	500~700mm
Head plate Movements.....	up \geq 45° down \geq 90°
Leg plate Movements.....	up \geq 30°down \geq 30°
Back plate Movements.....	up \geq 45°down \geq 20°

Ophthalmological operating table

- Foot switch: several groups of different functions is convenient for operation by doctor.
- Back plate and leg plate: adopted the foot switch that enables flexible and smooth adjustments.
- Head plate: is easy to control by mechanical gear.



ELECTRIC CHAIR

Chair seat diameter.....	420mm
Electric chair elevation range.....	460-600mm

Electric chair

- Adjustable armrest support with rotation 180°
- Adjustable backrest in height.
- Chair elevation(up/down): two buttons on the chair base, the doctor can be adjusted by foot.
- Double brakes system on the wheels.



FEATURES

- TV-out
- 3.5" TFT LCD screen
- 2.5X to 17X magnification
- 8 color modes
- Brightness adjustable
- Freeze frame, picture could be saved
- User-friendly tactile buttons
- With reading stand
- Rechargeable battery with 4 hours working time
- Weight: 140g
- Dimensions:118(L)x74(W)x19(H)mm



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FEATURES

- TV-out
- 4.3" TFT LCD screen
- 1.9X to 22X magnification
- 13 color modes
- Brightness adjustable
- Freeze frame, picture could be saved
- With reading stand and handheld
- Rechargeable battery with 3.5 hours working time
- Weight: 174g
- Dimensions:130(L)x88(W)x33(H)mm



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