



SUOER

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OPTOMETRY

Vision Screener

Corneal Topograph

Specular Microscope

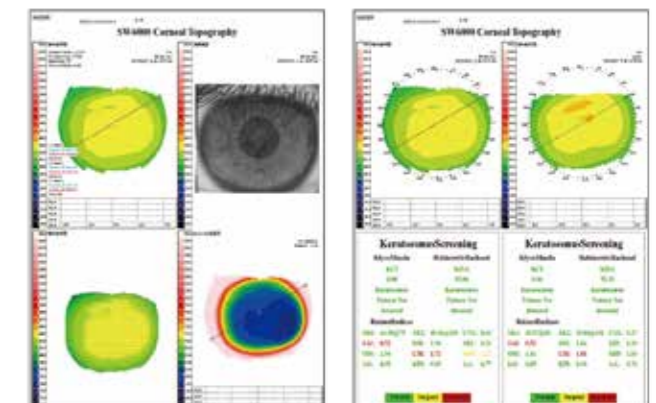
Vision Screener SW-800

Operation Mode: Bino/Mono
 Optometry: Automatic
 DS:
 Range: -7.50D~+7.50D
 Resolution: 0.25D/0.01D
 Accuracy: ±0.50D
 DC:
 Range: 0.00D~3.00D
 Resolution: 0.25D/0.01D
 Accuracy: ±0.50D
 Axis:
 Range: 1°~180°
 Resolution: 1°
 Accuracy: ±5°
 Pupil Size:
 Range: 4.0 mm~9.0 mm
 Resolution: 0.1mm
 Accuracy: ±0.1 mm
 Pupil Distance:
 Range: 35 mm~80 mm
 Resolution: 1mm
 Accuracy: ±1 mm
 Gaze: 0° ~ 20°
 Measuring Distance: 1 m ± 5 cm
 Time per Measurement: ~1s
 Fixation Target: Light flash, attractive sound
 Data Interface: Wi-Fi, USB
 Printer Interface: USB
 Battery: Rechargeable lithium batteries, 6 hours of duration, Replaceable
 Size: 180mm×130 mm×110mm
 Display: 5 inch touch screen
 Weight: 0.8Kg
 Optional Accessories: Camera tripods, printer, etc



Corneal Topograph SW-6000

Measuring Mode: Placido Cone
 Coverage Range of Measurement :10.91mm (Diameter)
 Measuring Range of Curvature Radius:
 5.5mm-10.0mm(33.75D-61.36D)
 Precision: ±0.02mm
 Placido Rings: 31 Rings
 Measurement Points:7936 Points
 Display: Axial Curvature Map, Tangential Curvature Map, Eleva
 Map, Imitated Keratoscope Map and 3D cornea Map
 Image Output:High-Quality color inkjet printer
 Adjust Moving Range:
 Left-Right: 0 to 86mm
 Forward-Backward: 0 to 40mm
 Up-Down: 0 to 30mm
 Chinrest: 0 to 50mm
 Cornea Contact Lenses Fitting Function
 Keratoconus Detectiong Function



Specular Microscope SW-7000

Optical Magnification: 165X±10%
Photography Slit Width: 0.25mm±0.025mm
Cornea Thickness Measurement Accuracy:
±0.025mm(>0.6mm), ±0.015mm(≤0.6mm)
Capture Mode: Auto/Semi-Auto/Manual
Capturing Positions: The center and 6 peripheral points
Working Voltage: AC220V
Power: 100VA
Dimension: 360mm*380m*450mm
Weight: 25Kg

Focus by double CCD ,it can observe the eyeball and endothelial at the same time.
Non-contact, Fast measuring system, More security and convenience.

The corneal thickness value display
Integrated multiple analysis and measurement tools.

Capture Mode: Auto/Semi-Auto/Manual
3D Auto Focus

Color LCD Touch Screen

7 Capturing positions: The center and 6 peripheral points
(2, 4, 6, 8, 10, 12-o'clock positions).

Video printer is optional

Workstation is optional

USB Data Output

Analysis values: Number of cells, CD, SD, CV, AVG/Max/Min
Auto/Manual Repair the Cell Edge, Coloring, Magnifying,
Automatic Analysis functions, etc
Classification statistic: according to the cell area and cell edges number



Left Eye (左眼)		Right Eye (右眼)	
Number	1234	1234	1234
CD	123.4	123.4	123.4
SD	12.3	12.3	12.3
CV	12.3%	12.3%	12.3%
AVG	123.4	123.4	123.4
Max	1234	1234	1234
Min	123	123	123

CATARACT

Optical Biometer

Ophthalmic A/B Scan

Ophthalmic A Scan

Handheld Keratometer

Optical Biometer SW-9000

Measurement Range:

Axial Length	12 – 34 mm
Central Corneal Thickness	300-800µm
Corneal Radii	4.8 – 11.1mm
Axis Angle	0°-180°
Anterior Chamber Depth	1.5 – 6.0mm
Lens Thickness	0.5 – 7.0mm
White-to-White	6.5 – 16.6mm
Pupil Diameter	1.9-13.5mm

Resolution:

Axial Length	0.01mm
Central Corneal Thickness	1µm
Corneal Radii	0.01mm
Axis Angle	1°
Anterior Chamber Depth	0.01mm
Lens Thickness	0.01mm
White-to-White	0.01mm
Pupil Diameter	0.01mm

SD of Repeatability:

Axial Length	±25µm
Central Corneal Thickness	±2µm
Corneal Radii	±10µm
Axis Angle	±9°
Anterior Chamber Depth	±20µm
Lens Thickness	±50µm
White-to-White	±0.3mm
Pupil Diameter	±0.3mm

IOL Calculation Formulas:

BinkHorst-II, Holladay, Hoffer-Q, Haigis, SRK-T, SRK-II

Calculation For Eyes Following Refractive Surgery:

Shammas-PI, Masket, Modified Masket

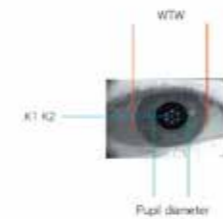
Interfaces USB2.0

Voltage/Frequency AC 220V/50Hz

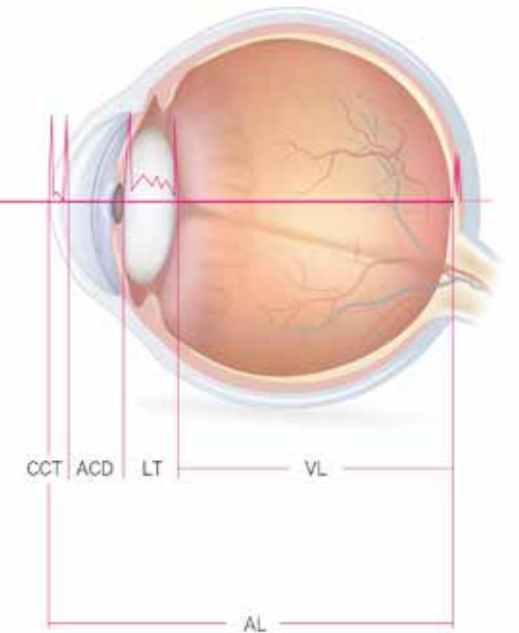
Power Consumption

50VA

Laser Class 1



- Axial length
- Central corneal thickness
- Corneal radii
- Axis angle
- Anterior chamber depth
- Lens thickness
- White-to-white
- Pupil diameter



Ophthalmic A/B Scan SW-2100

B Scan:

Frequency: 10MHz, Magnetic driven, noiseless
 Scanning Mode: Sector Scanning
 Magnify: Multi continuous magnification, Real-Time magnification
 Resolution: Lateral $\leq 0.3\text{mm}$; Vertical $\leq 0.2\text{mm}$
 Geometry position precision: Lateral $\leq 5\%$; Vertical $\leq 3\%$
 Depth: 60mm
 Enhance the part of vitreous body and retina
 Gain of Probe: 30dB-105dB
 Scanning Angle: 53°
 Gray Scale: 256
 False Color: Multi colors
 Measurement Type: multigroup distances, perimeters and areas
 Image Postprocessing: multiple curves processing, Pseudo-color processing curve
 Movies: 100 images movie review, AVI JPG format image output

A Scan:

Frequency: 10MHz, with LED
 Depth: 40mm
 Precision: $\pm 0.05\text{ mm}$
 Measurement: Anterior chamber depth, lens thickness, vitreous body length, total length and average
 Eye Mode: Phakic / Aphakic / Dense / Various IOL
 IOL Formula: SRK-II, SRK-T, HOFFER-Q, HOLLADAY, BINKHORST-II, HAIGIS
 Stat. Calculation: Average and standard deviation
 Store: 10 Scanning results for each eye

Others:

Display Mode :B、 B+B、 B+A、 A
 Hint: preset keyword
 Case Search: Multi-keywords
 Working Platform: Windows System
 User-defined report template



Ophthalmic A Scan SW-1000

A Scan:

10MHz import small size probe, built-in luminotron
 Measuring Range: 15mm-40mm
 Measurement Precision: $\pm 0.05\text{mm}$; with macula lutea trace function
 Measurement: Anterior chamber depth, lens thickness, vitreous body length, total length and average
 Method of measurement: immersion and contact
 Eye mode: Phakic/ Aphakic/ Dense/ various IOL
 IOL formula: SRK-II、 SRK-T、 BINKHORST- II、 HOLLADAY、 HOFFER-Q、 HAIGIS
 Enter the name & ID; easy to check archive
 Storage: 10 cases, 5 readings each case
 Output: A scan waveform and IOL calculation sheet

Pachymeter:

20MHz, angle of 45 degrees makes easier operation
 Resolution: 5um
 Measuring Range: 150um~1500um
 Display: SINGLE mode and MAP mode
 Can display ultrasound waveform when measuring
 Each group is the average of 20 measurements
 Switch between IOP measured value and actual value
 Can input name, ID and operator's name

Others:

Large color liquid-crystal screen
 Touch screen input, easy operation
 Curve Frozen: Manual/Auto mode, controlled by pedal
 Built-in speed thermal printer



Ophthalmic A/B Scan SW-2000

B Scan:

Frequency: 10MHz, Magnetic driven, noiseless
 Scanning Mode: Sector Scanning
 Magnify: Multi continuous magnification, Real-Time magnification
 Resolution: Lateral $\leq 0.3\text{mm}$; Vertical $\leq 0.2\text{mm}$
 Geometry position precision: Lateral $\leq 5\%$; Vertical $\leq 3\%$
 Depth: 60mm
 Enhance the part of vitreous body and retina
 Gain of Probe: 30dB-105dB
 Scanning Angle: 53°
 Gray Scale: 256
 False Color: Multi colors
 Measurement Type: multigroup distances, perimeters and areas
 Image Postprocessing: multiple curves processing, Pseudo-color processing curve
 Movies: 100 images movie review, AVI JPG format image output

A Scan:

Frequency: 10MHz, with LED
 Depth: 40mm
 Precision: $\pm 0.05\text{ mm}$
 Measurement: Anterior chamber depth, lens thickness, vitreous body length, total length and average
 Eye Mode: Phakic / Aphakic / Dense / Various IOL
 IOL Formula: SRK-II, SRK-T, HOFFER-Q, HOLLADAY, BINKHORST-II, HAIGIS
 Stat. Calculation: Average and standard deviation
 Store: 10 Scanning results for each eye

Others:

Display Mode :B、 B+B、 B+A、 A
 Hint: preset keyword
 Case Search: Multi-keywords
 Working Platform: Windows System
 User-defined report template



Handheld Keratometer SW-100

Keratometer SW-100

Measuring Range: 6.5mm~9.5mm
 Precision: $\pm 0.05\text{mm}$
 Resolution of Curvature Radius of Cornea: 0.01mm
 Measurement Deviation of The Main Meridian Axial Position: $\pm 2^\circ$
 Singel Measuring Time: 0.03s
 Output: wireless infrared thermal printer
 Can observe the eye directly through the screen.
 Weight: <0.5Kg(with batteries)
 Dimension: 240mm×90mm×60mm
 Power: 500mW+15%



GLAUCOMA

Portable UBM

Full-Scale UBM

Non Contact Tonometer

Rebound Tonometer

Full Scale UBM SW-3200S (Portable Mode)

Frequency:50 MHz

Scanning Mode: Wide Range Sector Scanning Mode, Undistorted, Sulcus-to-Sulcus.

Scanning Range: 16mm*9mm;10*6.5mm

Vertical Precision: $\leq 40\mu\text{m}$; Lateral precision: $\leq 40\mu\text{m}$

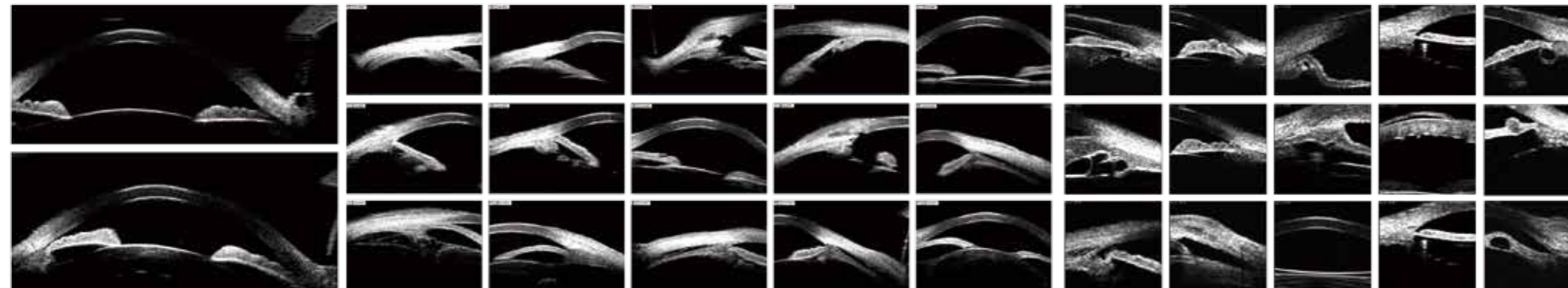
Scanning Lines: 1024 Lines, 15 μm between each lines.

Geometry Location Precision: Verticals $\leq 3\%$, Lateral $\leq 3\%$;No data interpolation, None distortion Imaging

Display Mode:UBM、 UBM+A

System Performance:it have a special independent 50 μm ultrasonic amplification system make the anterior segment image clearer.

Working Platform: Windows System



Full Scale UBM SW-3200L

Frequency: 50 MHz

Scanning Mode: Wide Range Linear Scanning Mode,Undistorted,Sulcus-to-Sulcus.

Scanning Range: 16mm*9mm;10*6.5mm

Vertical Precision: $\leq 40\mu\text{m}$; Lateral precision: $\leq 40\mu\text{m}$

Scanning Lines: 1024 Lines, 15 μm between each lines.

Geometry Location Precision: Verticals $\leq 3\%$, Lateral $\leq 3\%$;No data interpolation, None distortion Imaging

Display Mode: UBM、 UBM+A

System Performance:it have a special independent 50 μm ultrasonic amplification system make the anterior segment image clearer.

Working Platform: Windows System



Non-contact Tonometer SW-5000

Measuring Range: 1mmHg~60mmHg

Measuring Scale: 30mmHg, 60mmHg

Measuring Accuracy: 1mmHg;

Measuring Distance: 11mm

Focus Method: focus points + focus notification

Focus Mode: three-dimensional auto-focus/manual focus/touch screen focus

Interior Light Fixation: Green LED

Stroke of Moving Track:

Left-Right: 80mm

Forward-Backward: 40mm

Up-Down: 20mm

Display: large colored LCD screen

Output: high speed thermal printer



Unique Features:

1. Integrated ORA (Ocular Response Analyzer)
2. Unique collection of waveform confidence interval data by weight average of three readings, and indicate low confidence interval results
3. Manually focus by touching screen
4. Non-contact measurements to avoid cross infection
5. Integrated 24 hours IOP trend analysis system



FUNDUS

Fudus Camera

Ophthalmic Wide Field Imaging System

Portable Ophthalmic Wide Field Imaging System

Fudus Camera SW-8800

General:

Type of Photography:

Color; Red-Free(Digital); IR(Digital); Cobalt(Digital)

Angle of View: 45°

Minimal Pupil Size: 4 mm

Focus Adjustment Range: -25 to +25D(Without Compensation Lens)

Light Source:

Observation Light Source: Infrared LED

Flash Light Source: White LED

Eye Fixation Lamp:

Internal: LED Point , Orange

External: LED Point, Red

Working Distance: 15 mm

Camera Resolution: 5 Megapixels

Built-in Monitor: 7.0 inch Color LCD Monitor

Mount Movement:

Front and Back 85 mm

Side to Side 110 mm

Up and Down 30 mm

Chin Rest Movement: 60 mm

Electrical and Environmental:

Power Supply: 100V to 240V AC , 50/60Hz, 1.3 to 0.6A

Operating Environment:

Temperature: 5 to 40°C

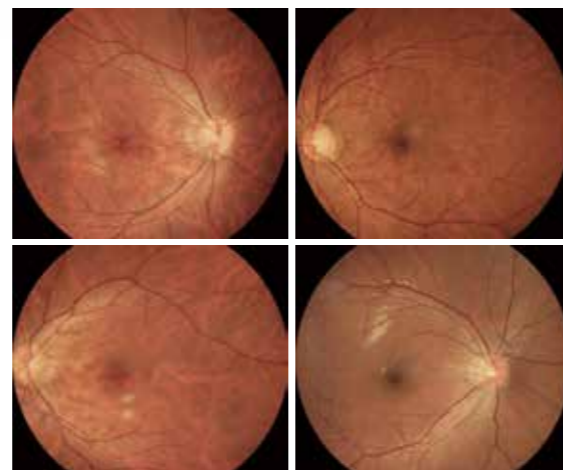
Humidity: ≤80%

Atmospheric Pressure: 700 hPa to 1060hPa

Physical Characteristics:

Dimensions (W x D x H): 430 x 450 x 570 mm

Weight: Approximately 10Kg



Ophthalmic Wide Field Imaging System SW-8000

Fundus Image Resolution:

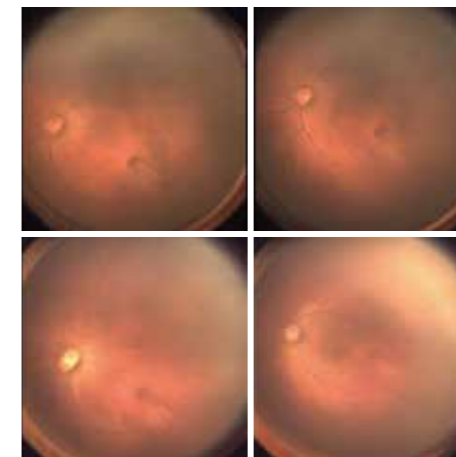
Center field of view ≥ 30 lp/mm

Middle field of view (±22.5°) ≥ 20 lp/mm

Edge field of view (±45°) ≥ 15 lp/mm

Fundus imaging range: 130°

Illumination Source: white LED



Portable Ophthalmic Wide Field Imaging System SW-8000P

Fundus Image Resolution:
Center field of view ≥ 30 lp/mm
Middle field of view ($\pm 22.5^\circ$) ≥ 20 lp/mm
Edge field of view ($\pm 45^\circ$) ≥ 15 lp/mm
Fundus imaging range: 130°
Illumination Source: white LED



SUOER

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Vision Screener

Corneal Topograph

Specular Microscope

Optical Biometer

Ophthalmic A/B Scan

Ophthalmic A Scan

Handheld Keratometer

Portable UBM

Full-Scale UBM

Non Contact Tonometer

Rebound Tonometer

Fudus Camera

Ophthalmic Wide Field Imaging System

Portable Ophthalmic Wide Field Imaging System