

The image features a central dark blue circle containing the word "SUOER" in white, bold, sans-serif capital letters. This central element is surrounded by a complex, repeating geometric pattern of white and dark blue lines. The pattern consists of multiple concentric, interlocking shapes that resemble a stylized sunburst or a series of overlapping chevrons, creating a strong sense of depth and movement. The overall design is high-contrast and visually striking.

**SUOER**

**OPTOMETRY** 3~06

**CATARACT** 09~15

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**FUNDUS** 23~26

# OPTOMETRY

Vision Screener

Corneal Topograph

Specular Microscope

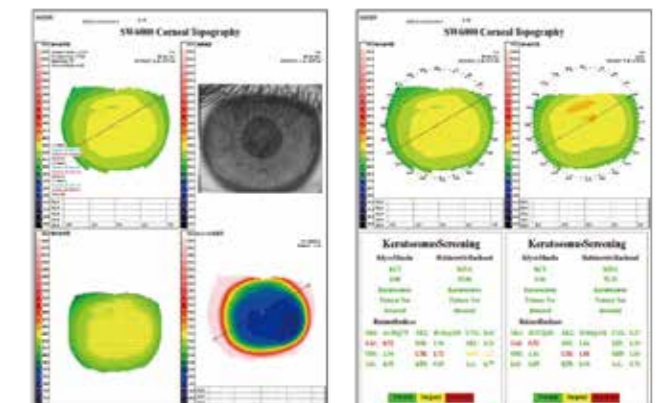
## Vision Screener SW-800

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



# 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

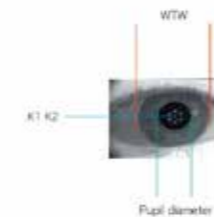
Interfaces USB2.0

Voltage/Frequency AC 220V/50Hz

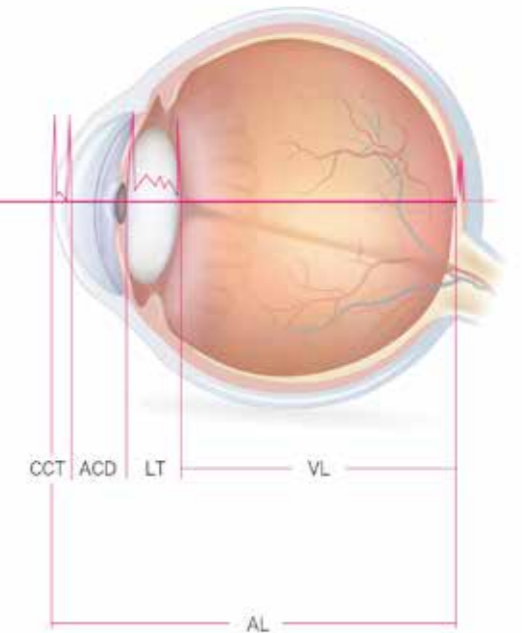
Power Consumption

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:  $53^\circ$   
 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:  $53^\circ$   
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:  $\leq 40\mu\text{m}$

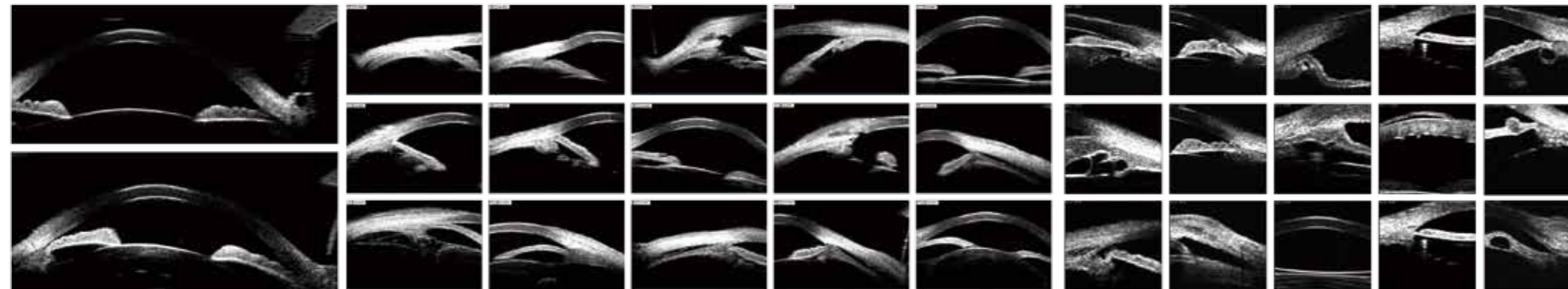
Scanning Lines: 1024 Lines, 15  $\mu\text{m}$  between each lines.

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

Display Mode:UBM、 UBM+A

System Performance:it have a special independent 50 $\mu\text{m}$  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  $\mu\text{m}$  between each lines.

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

Display Mode: UBM、 UBM+A

System Performance:it have a special independent 50 $\mu\text{m}$  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

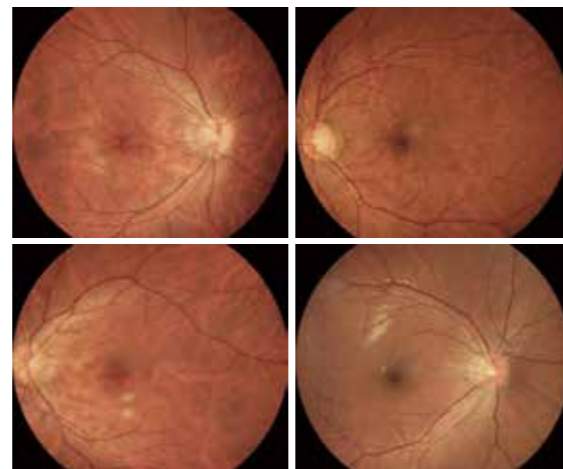
Humidity: ≤80%

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:**

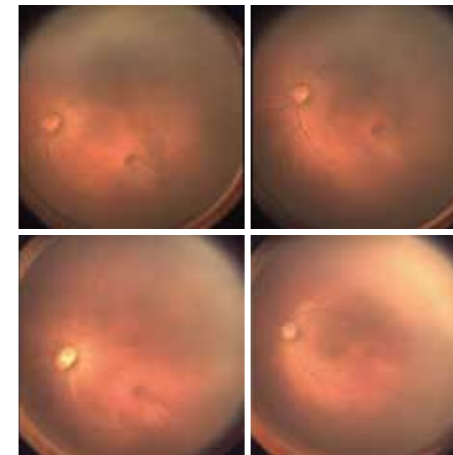
Center field of view ≥ 30 lp/mm

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



# SUOER

Tianjin Suowei Electronic Technology Co., Ltd.  
Address: Room 2-201, 2#Building No. 6, Zhuyuan Road,  
Huayuan Industrial Zone, Nankai District, Tianjin, China  
Tel: +86-22-8371 2745 Fax: +86-22-8371 2645  
Email: sales@suowei.com.cn





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Specular Microscope

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Full-Scale UBM

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Ophthalmic Wide Field Imaging System

Portable Ophthalmic Wide Field Imaging System