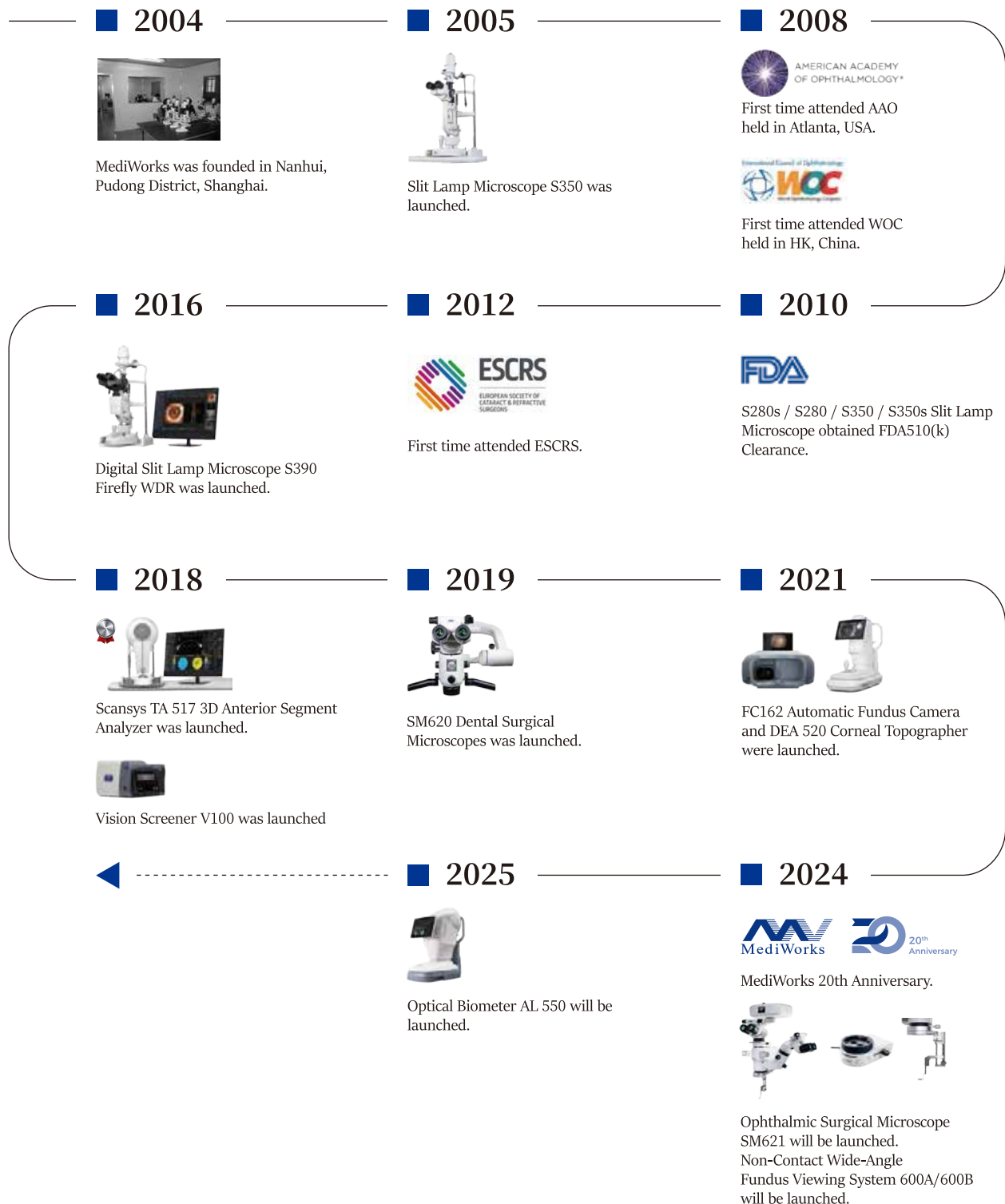


# Ophthalmic Solutions

**Details Make the Difference**

# About MediWorks

Shanghai MediWorks Precision Instrument Co., Ltd. was established in 2004. The headquarters of R&D, Manufacturing, Business Development and Operation Center headquarters are based in Shanghai, with branches in Europe. MediWorks has rich experience in R&D and production of ophthalmic and dental instruments, medical imaging and machine vision. MediWorks is committed to providing doctors with high-quality products, advanced technologies and superior services. Our medical devices have been widely utilized and earned acclaim and trust in over 100 countries globally. MediWorks under the brand promise of "**Details make the Difference**", let's create a smarter future and improve the lives of billions.



# Product



## Refractive, Cataract & Optometry

Scansys 3D Anterior Segment Analyzer



## Dry Eye

Dry Eye Diagnostic System



## Dry Eye & Topography

2 in 1  
Ocular Diagnostic Master



## Myopia Management

Optical Biometer



## Retina Disease

Fundus Camera



## Vision

Vision Screener / Vision Chart



## Ophthalmic Surgical Products

Ophthalmic surgical microscope  
StereOptic Inverter/ Fundus viewing system



## Basic Diagnosis

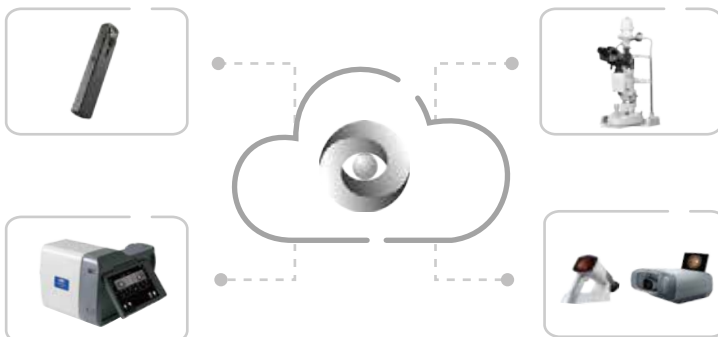
Slit Lamp & Accessories



## Optometry Lift Table



# Mediview Patient Management Software



Supports Windows 64-Bit

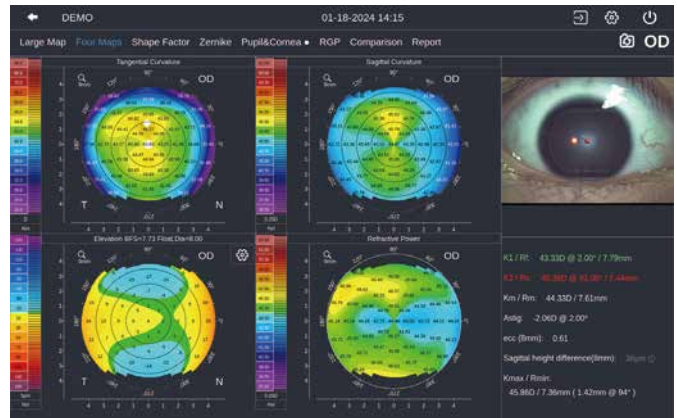
Supports DICOM

Same User Experience for Multiple Devices

2 in 1 - Ocular Diagnostic Master

## Corneal Topographer

DEA 520



## Corneal Topography

### 4 Maps

4 maps provide Sagittal Curvature, Tangential Curvature, Elevation Map, Refractive Power and K1/K2/Km/Astig/Ecc value.

### Aberration & Simulation

Zernike wavefront aberration analysis makes plan of cataract and refractive surgeries visualized and ensures patient's postoperative vision quality.

### Lens Fitting

A simulated fluorescein image will be created based on patient's cornea. The system will recommend several suitable lens for choose, which accelerates work flow and excludes unfit lens to save the trouble for patient to do real several fluorescein staining.



## Dry Eye Questionnaire

Ocular Surface Disease Index (OSDI)/McMonnies/SPEED/DEQ 5

The built-in dry eye questionnaire is designed according to the risk factors and clinical characteristics of dry eye, providing a simple preliminary assessment for dry eye, improving diagnosis and treatment efficiency and facilitating patient follow-up.

## Conjunctival Redness Analysis

Identify and calculate percentages of conjunctival congestion and ciliary congestions and evaluate severity of eye congestion.

## Eyelid Margin

The high resolution image supports zoom in to meet examination requirements of overall shape of eyelid margin and its slight change.

## Lipid Layer Thickness

Observe lipid layer dynamic and distribution by video recording compared with standard templates. It's helpful for judging MGD.

## Corneal Fluorescein Staining

Specially designed built-in yellow filter, working with cobalt-blue illumination improves contrast of corneal fluorescein staining images. Effectively increases positive rate of early corneal epithelial staining.

## Blink Quality

The high-definition video is captured by the infrared light source and automatically analyzes blink frequency, blink interval, incomplete blink, and incomplete blink ratio.



## Dry Eye Diagnosis

### Non-Invasive Breakup Time

After taking one video, it brings out automatic result of NIBUT and Tear Meniscus Height. More than 9.6 mm diameter Placido ring projection. Auto-identify breakup area and analyze NIBUT intelligently. Fully automatic analysis system provides efficient quantified evaluation for the overall stability of tear film.

### Non-Invasive Tear Meniscus Height

Automatic identification system depicts Tear Meniscus area and measures the tear height automatically. Evaluate tear secretion amount and continuity objectively. More efficient and less irritation compared with the traditional Schirmer's test.

### Meibomian Glands Function Evaluation

Automatically analyze meibomian glands loss caused by MGD with precise and quantified diagnosis results. Auto-identify and auto-enhance of meibomian glands area. Get the Original Image/Enhance Image/Result Image by one-click.

### Fluorescein Tear Breakup Time

AI automatically detects changes in tear film morphology and calculates tear film breakup time to assess tear film stability.

AL 550

## Optical Biometer

Technology Leads to the future,  
myopia management starts  
from 'measurement'.



### OLCR

#### (Optical Low-coherence Reflectometry) Measurement Technology

- The higher resolution makes the measurement more precise compared with ultrasonic measurement.
- The longer wavelength provides greater penetration of eye tissue than other optical biometers, enabling precise measurement.

### Placido Disc



- The 50-ring design Placido disc can provide more accurate analysis results.
- The large cone design covers more than 9.8mm diameter of central cornea so as to obtain more precise measurement data, which is advantageous for contact lens fitting and irregular cornea measurement.

### Efficiency and Versatility

- All measurements can be completed in **30 seconds**
- **Up to 22 parameters** can be obtained in **1 measurement**
- Enables multi-scenario clinical applications

### Precision and Reliability

- **1,060nm wavelength** light source with strong penetrating power for precise axial length measurement
- **125,600 data analysis points** for accurate anterior corneal surface measurement

### Compact Design and Ease of Operation

- **Space-saving design** for operation even in tight space
- **Full-automatic focus** and **rapid capture** for easier measurement process

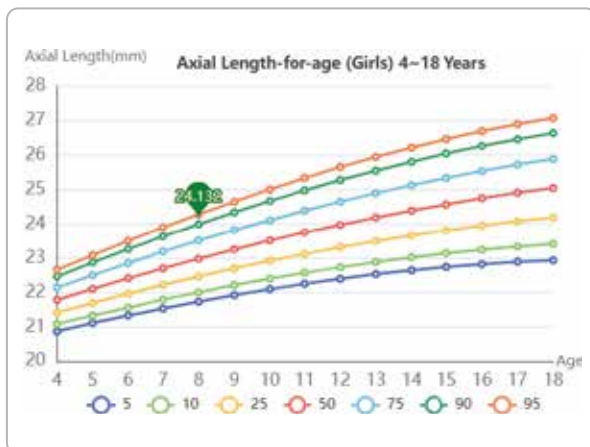
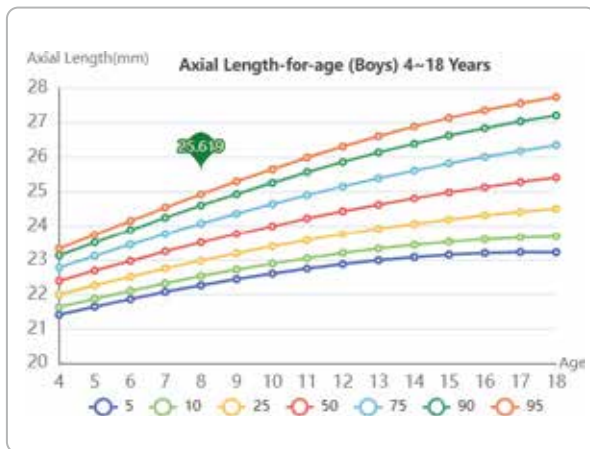
### Safety and Comfort

- **Non-contact measurement** avoids the risk of cross-infection and corneal damage
- Topical anesthesia and pupil dilation are not required
- Under the guidance of **voice prompt**, patients are able to cooperate more smoothly and experience greater comfort



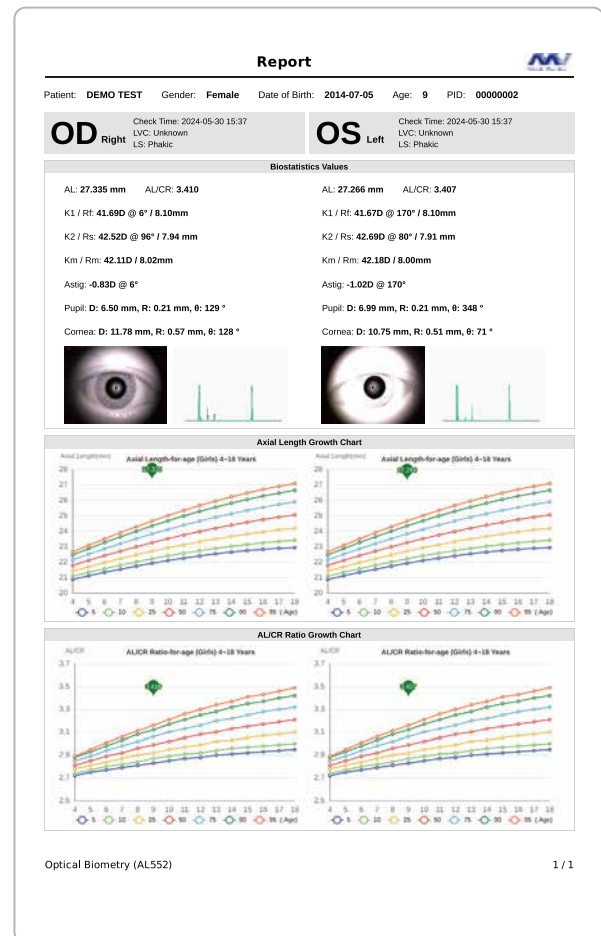
## Clinical Application for Myopia Progression Monitoring

AL550 provides a number of parameters such as axial length, K1, K2, White-to-White, pupil diameter, etc. to assist eye-care professionals to analyze the myopia etiology in children with myopia, select appropriate myopia intervention initiatives, evaluate and monitor the efficacy of myopia control.



## Comprehensive and Easy-to-access Digital Report

A comprehensive report with rich information on ocular biometric data, IOL calculations, corneal topographic maps and wave front aberrations of anterior corneal surface can help eye-care professionals scientifically evaluate patients' eye health status, so as to better guide their daily practices on myopia management.



Guided examination: providing a comprehensive report covering multiple dry eye diagnosis

Dry Eye Questionnaire / Non-Invasive Tear Film Breakup Time / Fluorescein Breakup Time  
Non-Invasive Tear Meniscus Height / Meibomian Glands Function Evaluation / Lipid Layer Thickness  
Eyelid Margin / Conjunctival Hyperemia Analysis / Corneal Fluorescein Staining / Blink Quality

# Dry Eye Diagnostic System

Dry eye diagnosis / Anterior segment photography / Lens fitting / Patient management / Telemedicine

Optical resolution is up to 200 lp/mm(2700·N lp/mm), providing more details of the pathologies

Non-invasive examination, quantitative data  
Full-automatic Firefly digital module, easy operation without parameter settings  
High quality optics and built-in yellow filter efficiently increase the accuracy of lens fitting  
Professional 1/2.5-inch sensor and 1.55  $\mu$ m pixel, real-time playing and storage  
Smart patient management system, DICOM supported







# Dry Eye Report

Name: DEMO    Gender: M    Age: 30
Patient ID: 130DEMO
Diagnostic Type:

Check Date: 2023-02-09 14:59:36

OD

Check Date: 2023-02-09 14:59:35

OS

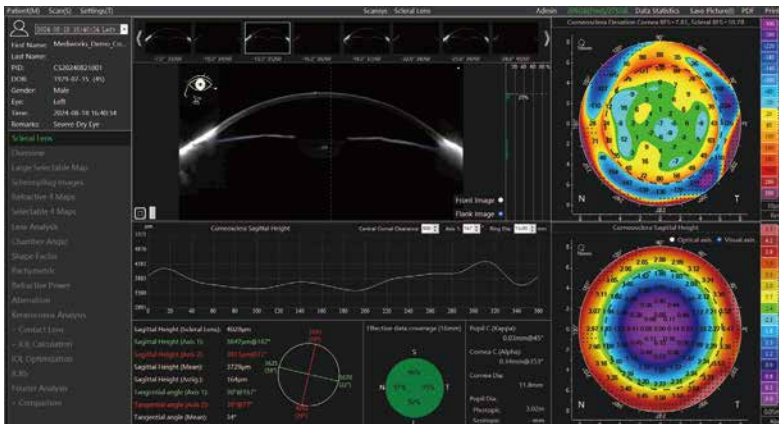
<div style="display: flex; justify-content: space-between;"> <span>NIBUT</span> <span>Tear Height</span> </div> <div style="display: flex; justify-content: space-between;"> <span>FBUT</span> <span>Lipid Layer</span> </div> <div style="display: flex; justify-content: space-between;"> <span>Eye Redness</span> <span>Meibomian Glands</span> </div>	<div style="display: flex; justify-content: space-between;"> <span>NIBUT</span> <span>Tear Height</span> </div> <div style="display: flex; justify-content: space-between;"> <span>FBUT</span> <span>Lipid Layer</span> </div> <div style="display: flex; justify-content: space-between;"> <span>Eye Redness</span> <span>Meibomian Glands</span> </div>
<div style="display: flex;"> <div style="width: 60%;"> <p>Reference value <b>NIBUT</b></p> <p>Grade 0 Healthy, First rupture time: 10s Average rupture time: 14s</p> <p>Grade 1 Warning, First rupture time: 6-9s Average rupture time: 7-13s</p> <p>Grade 2 Dry Eye, First rupture time: 5s Average rupture time: 7s</p> <div style="display: flex;"> <div style="width: 50%;"> <p><b>Warning</b></p> <p>First rupture time: 4.75 s Average rupture time: 8.05 s</p> </div> <div style="width: 50%;"> <p><b>Healthy</b></p> <p>First rupture time: Longer than 21 s Average rupture time: Longer than 21 s</p> </div> </div> </div> </div>	<div style="display: flex;"> <div style="width: 60%;"> <p>Reference value <b>NIBUT</b></p> <p>Grade 0 Healthy, First rupture time: &gt;10s Average rupture time: 6-9s</p> <p>Grade 1 Mild, First rupture time: 6-9s Average rupture time: 7-13s</p> <p>Grade 2 Moderate, First rupture time: 2-5s Average rupture time: &lt;2s</p> <p>Grade 3 Severe, First rupture time: &lt;2s</p> <div style="display: flex;"> <div style="width: 50%;"> <p><b>Severe</b></p> </div> <div style="width: 50%;"> <p><b>Moderate</b></p> </div> </div> </div> </div>
<p>FBUT: 0.35</p>	<p>FBUT: 5.33</p>
<p>Grade 2</p>	<p>Grade 2</p>
<p>Grade 2</p>	<p>Grade 2</p>
<p>Upper: Mild</p> <p>Lower: Mild</p> <p>Remarks:</p>	<p>Upper: Healthy</p> <p>Lower: Mild</p> <p>Remarks:</p>
<p>Conjunctival grade: 20.9%</p> <p>Ciliary grade: 13.9%</p> <p>Remarks:</p>	<p>Conjunctival grade: 36.8%</p> <p>Ciliary grade: 11.7%</p> <p>Remarks:</p>
<p>Result:</p>	<p>Result:</p>

Remarks:
Print Date: 2023/05/31

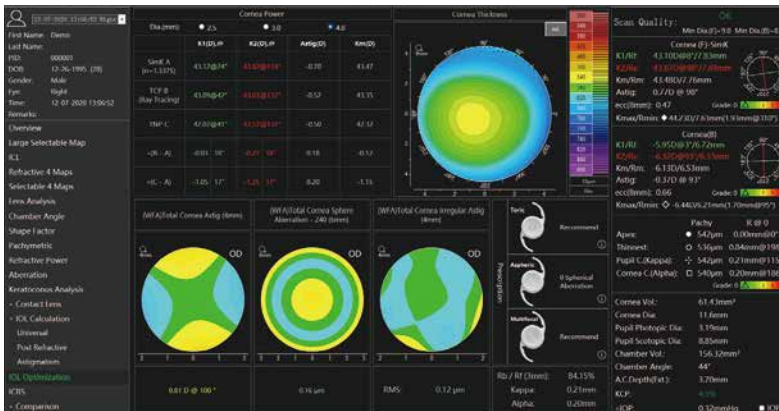
Doctor: Admin

## Scansys TA517 3D Anterior Segment Analyzer

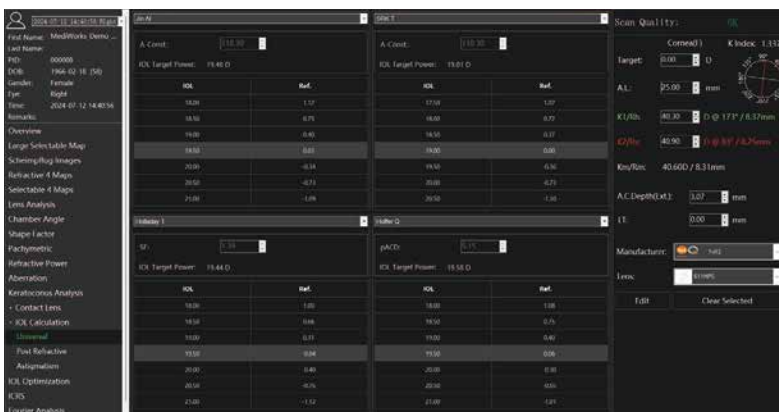
High definition Scheimpflug images  
28 images within 1s / 60 images within 2s  
107520 / 230400 data points



### Scleral Lens Module



### IOL Optimization



### IOL Calculation

Cornea Thickness Map  
Tangential Curvature Map  
Sagittal Curvature Map  
Elevation Map

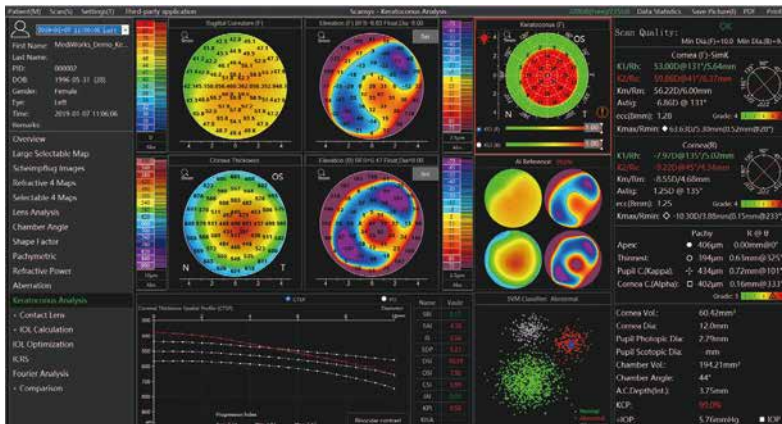
Refractive 4 Maps  
Selectable 4 Maps  
Pachymetric Module  
Refractive Power Distribution  
Keratoconus Analysis  
Binocular Contrast of Refractive 4 Maps  
ICL Recommendation & Postoperative Evaluation  
Aberration & Visual Quality Analysis

True Net Power Map  
Keratometric Power Deviation Map  
Anterior Chamber Depth Map  
Refractive Power Map (Corneal Anterior Surface)

Fourier Analysis  
Crystalline Lens Density Analysis  
IOL Calculation  
IOL Optimization  
Astigmatic Keratotomy Tool  
Scleral Lens Module  
Corneal Shape Factor  
Corneal Sagittal Height Module

Total Cornea Power Map (Gaussian/Ray Tracing)  
Cornea Sagittal Height Map  
Corneosclera Sagittal Height Map  
Corneosclera Elevation Map

Contact Lens Simulated Fitting  
Automatic Calculation of Contact Lens Fitting Parameters  
Anterior Chamber Angle Analysis  
IOP Correction Formula  
ICRS Implantation Recommendation  
Comparison of 2 Examinations

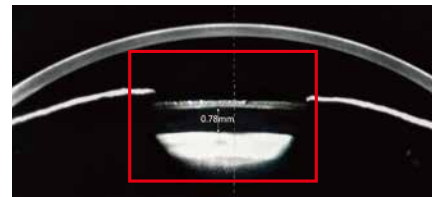


## Keratoconus Analysis

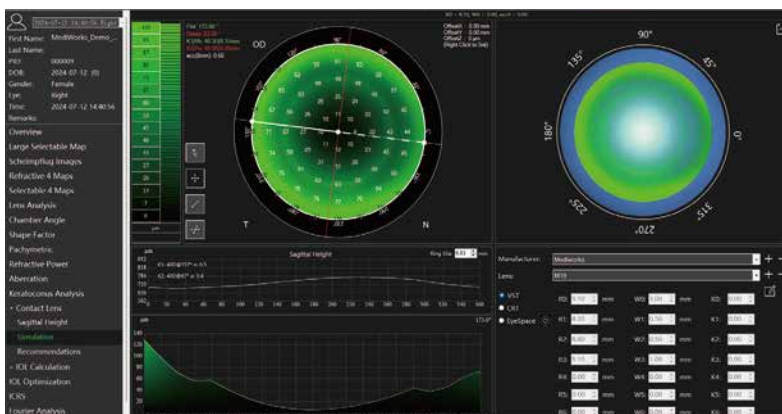


## ICL Surgery

- ICL Size Recommendation and Vault Prediction
- Postoperative ICL Vault Measurement



## Contact Lens Simulated Fitting





## Hand-held Fundus Camera FC161

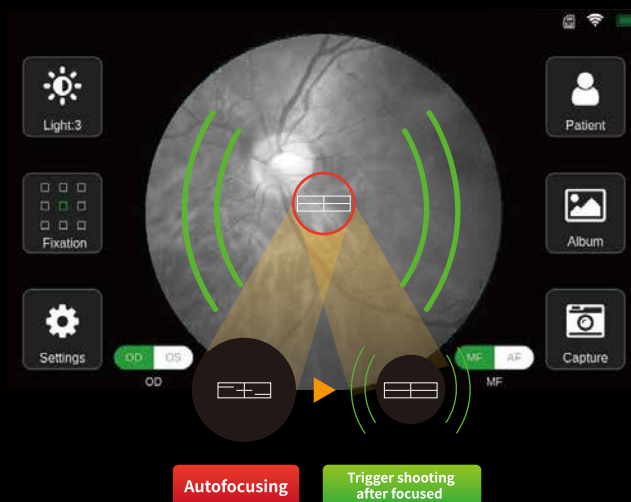
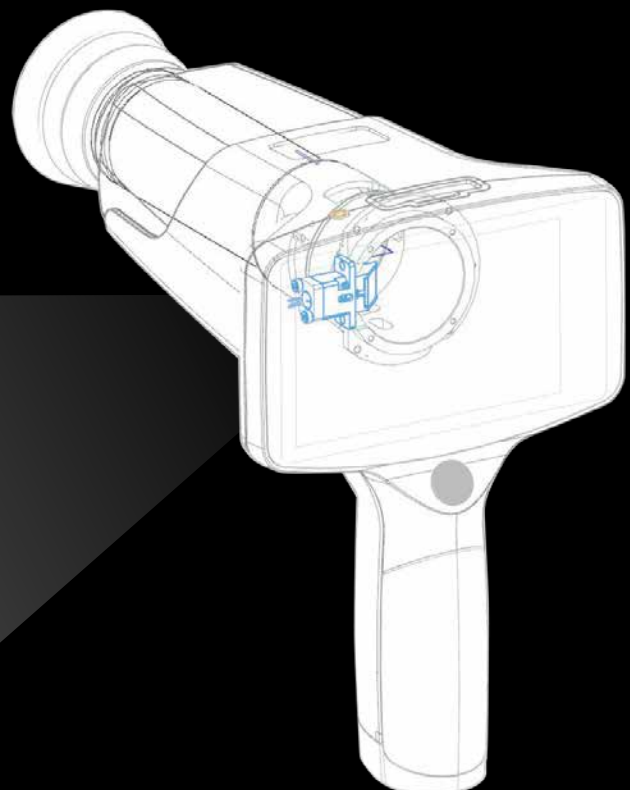


Millisecond Focusing



- Up to 12 Mega Pixels image resolution. It makes the diagnosis of early lesions more accurate and also essential for diagnosing retina disease.
- Non-Mydriatic. The minimum pupil diameter of FC161 is  $\phi 3.5$  mm.
- 4.3" full-touch LED screen.
- With 45° field of view (a single central fundus image).
- With 9 fixation targets, covers 85° field of view of the fundus.
- Mediview Patient Management software.

FC161 adopts Auto Split Focusing technology, focusing speed reaches milliseconds. It avoids the out-of-focus of the fundus image caused by the patient's movement during shooting, effectively improve the image quality and reduce the requirements for cooperation between operators and patients.





# Automatic Fundus Camera FC162

## Guard Your Health Easily

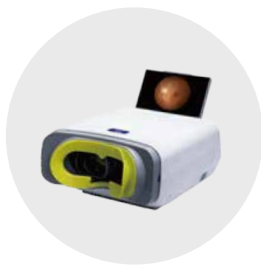
Auto pupil alignment

Auto focus

Auto shooting



## 30 Seconds Obtaining Binocular Retina Images



Start shooting,  
the system will align the pupil  
and start capture



Capture binocular retina  
images under voice  
interaction



Adaptable third-party  
AI screening system



Split Focusing Technology



15 Mega Pixels




50° Field of View



Smart Diagnosis

## Vision Screener V100

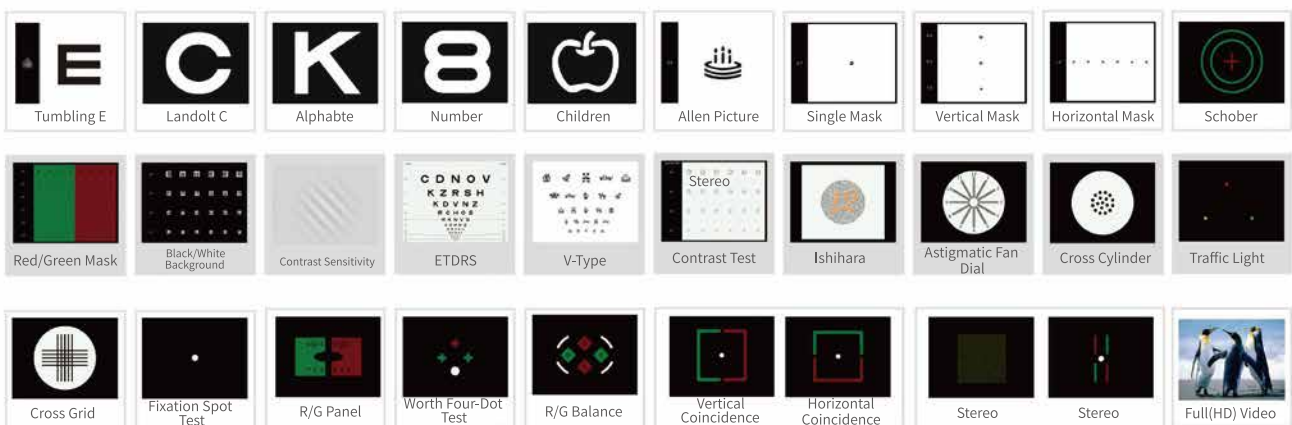
— 1M — Working distance.  
Quickly deliver testing results in 1 second.  
4.3" full touch flipped screen.

Report																	
Name: ghhh				Age: 50				Patient ID: 11112				Diagnostic Type:					
4.48 mm								4.44 mm									
↑ 1								↑ 1									
→ 0								→ 0									
OD			DS			DC			Axis			CYL			OS		
			-2.50			-0.25			88								
			SE						64.73 mm								
			-2.75														
RIGHT EYE						LEFT EYE						BOTH EYES					
Myopia		Hyperopia				Myopia		Hyperopia				Anisometropia		Pupil Size Difference		Gaze Asymmetric	
Astigmatism		Gaze				Astigmatism		Gaze									
Result:																	
Monocular						Binocular						Anisometropia, Strabismus, Anisocoria					



## Vision Chart C901

17 inch LED backlit screen.  
Better user experience--- All tests icons are listed on home interface.  
Quick test list--- Pick frequently used tests to establish your own quick test list.





## Portable Slit Lamp S150

Magnetic design  
Easy to take photo/video with mobile phone  
Mobile Mediview APP  
Continuously variable slit width  
Configured with cobalt blue filter  
Adjustable illumination brightness

Lamp: LED  
Total Magnification 6x  
6h continuous working time  
Rechargeable Li-ion battery 3.7V/3400mAh



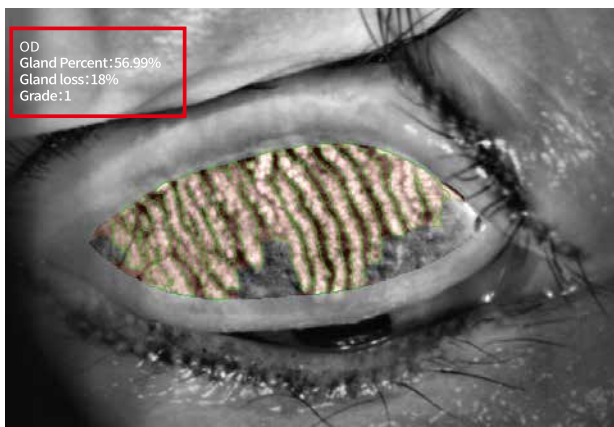
Android version



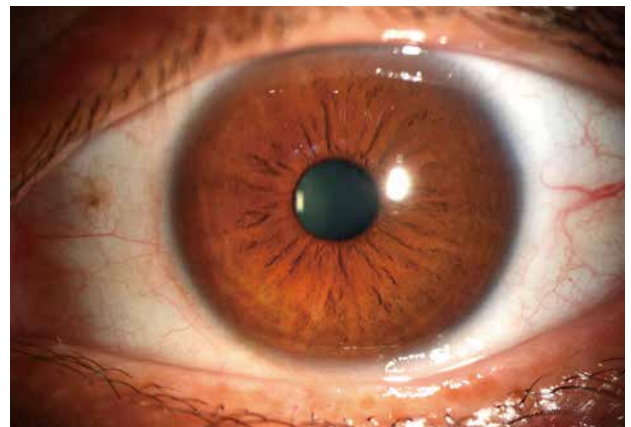
IOS version: Search  
"MediviewMobile"  
in AppStore

## Digital Slit Lamp Microscope S390L (Firefly)

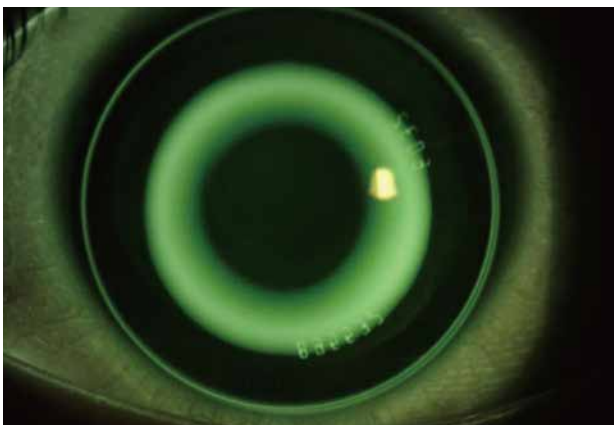
Capable of upgrade to [Dry eye diagnostic system]



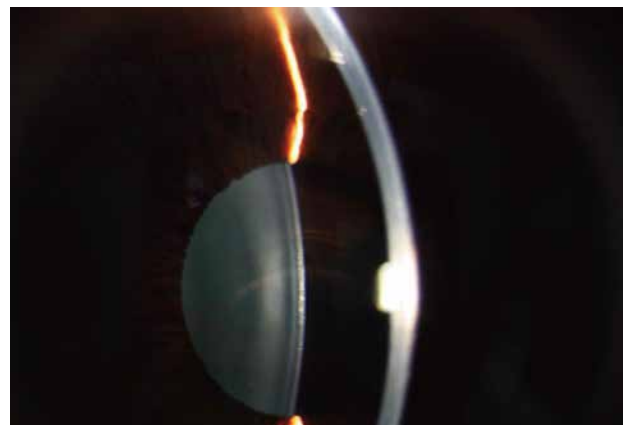
Meibomian Gland Observation / **Automatic classification**



Whole Eye / **Wide dynamic range**



Lens Fitting / **Built-in yellow filter**



Crystalline Lens / **High sensitivity**



### Automatic Classification of Meibomian Glands

Unique Built-in infrared lighting system provides a larger scope capture of Meibomian Glands. Adjustable depth of field and aperture enable more vivid images. Precise diagnosis of Dry Eye caused by MGD is guaranteed with the help of automatic Meibomian Glands loss classification.

### Increase Positive Rate of Early Corneal Epithelial Staining

Built-in yellow filter along with cobalt-blue filter increases the contrast of corneal fluorescein staining images.

### HD Optical System

Optical resolution is up to 200 lp/mm, providing more details of the pathologies.

### Fully Automatic Firefly Digital Module

Firefly Digital module is specially designed for anterior segment examination, no parameter settings required (automatic exposure, auto white balance), with adjustable depth of field and wide dynamic range, 12 Mega Pixels video output, high examination efficiency is allowed.





## Slit Lamp Microscope S290

Lamp : LED  
Total Magnification : 6.3 x, 10 x, 16 x, 25 x, 40 x  
Filters : Heat-absorbing filter / Red-free filter /  
Cobalt Blue filter / Built-in yellow filter  
Image Sensor : 5 M Pixels  
Photo Resolution :  $\geq 2592 \times 1944$   
Video Resolution :  $\geq 2592 \times 1944$   
Frame of Video :  $\geq 25$  fps  
Exposure Mode : Automatic exposure



## Slit Lamp Microscope S260/S260s

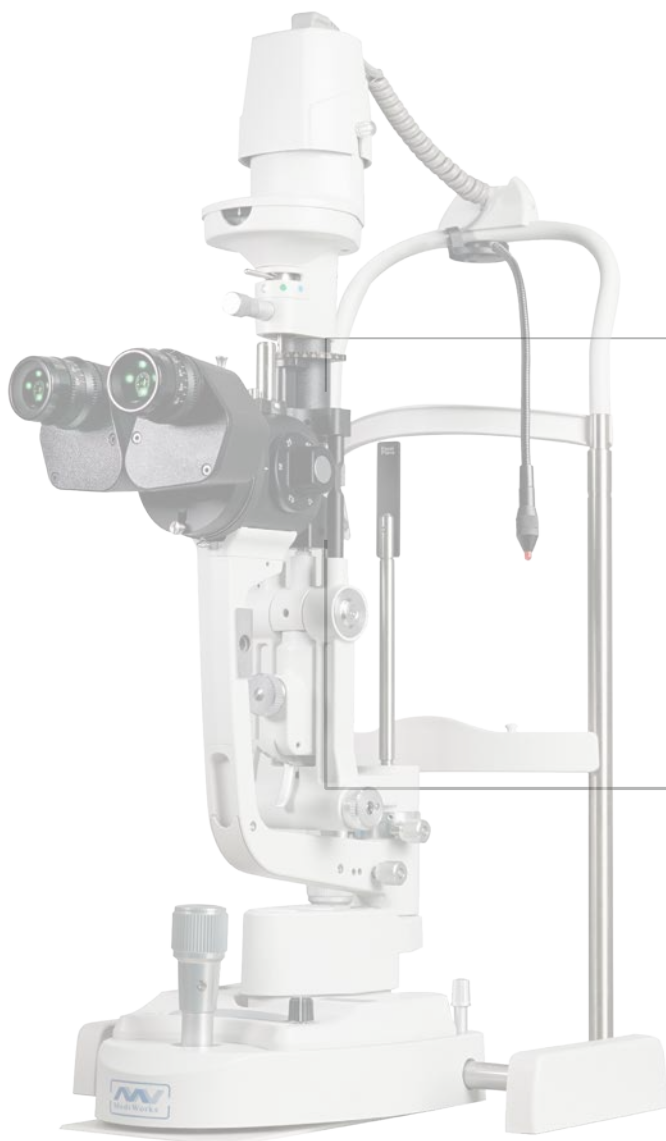
Lamp : LED  
Slit Width : 0 ~ 14 mm continuous  
Filters : Heat-absorbing filter / Red-free filter /  
Cobalt Blue filter / Built-in yellow filter  
Diopter Adjustment : - 8 D ~ + 8 D  
Pupillary Adjustment : 52 mm ~ 80 mm  
Aperture Diameters :  $\varnothing 14$  mm /  $\varnothing 8$  mm /  
 $\varnothing 3.5$  mm /  $\varnothing 0.2$  mm  
Built-in power supply  
Total Magnification : 5 steps (S260) / 3 steps (S260s)



## Slit Lamp Microscope S360/S360s

Lamp : LED  
Slit Width : 0 ~ 14 mm continuous  
Filters : Heat-absorbing filter / ND filter/Red-free  
filter/Cobalt Blue filter/Built-in yellow filter  
Diopter Adjustment : - 8 D ~ + 8 D  
Pupillary Adjustment : 52 mm ~ 80 mm  
Aperture Diameters :  $\varnothing 14$  mm /  $\varnothing 10$  mm /  $\varnothing 5$  mm /  
 $\varnothing 3$  mm /  $\varnothing 2$  mm /  $\varnothing 1$  mm /  $\varnothing 0.2$  mm  
Built-in power supply  
Total Magnification : 5 steps (S360) / 3 steps (S360s)

## Slit Lamp Accessories



Applanation Tonometer  
T170



Beam Splitter



Observation Tube



Digital Camera Adaptor

## Others



Retina Lens 90D 78D 20D



Yellow Filter Module



Yellow Filter

## Ophthalmic Surgical Microscope SM621

See Everything in Detail

### Cutting-edge Optic Design

High quality optical lens with Apochromatic(APO) design and multi-layer optical coating brings high resolution and deep depth of field, enables high comfort during the surgery.

### Motorized ZOOM System

The SM621 adopts motorized ZOOM system to reduce discomfort when the field of view changes.

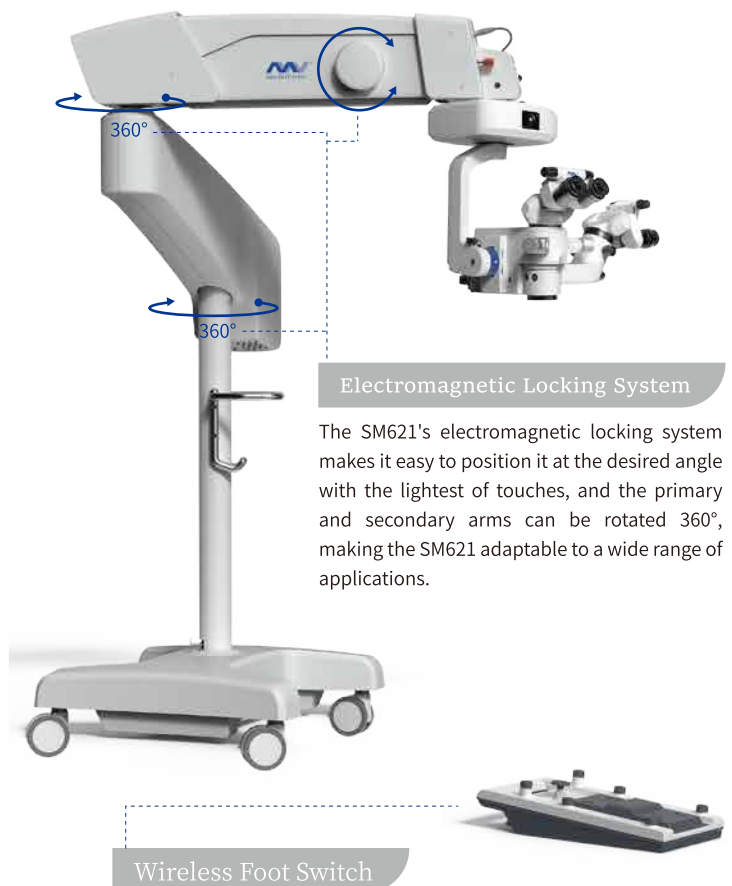
### Independent Assistant Microscope

SM621's assistant microscope adopts independent optical path which is independently from surgeon's microscope, it has 5 steps magnification changer.

### Bright and Stable Red Reflex

Red reflex by coaxial illumination makes surgeons can see fine structure under weak light, easily perform continuous circular capsulorhexis(CCC)and aspirate residual lens cortex.

### 4K High Resolution Video



#### Electromagnetic Locking System

The SM621's electromagnetic locking system makes it easy to position it at the desired angle with the lightest of touches, and the primary and secondary arms can be rotated 360°, making the SM621 adaptable to a wide range of applications.

#### Wireless Foot Switch

The wireless foot switch can totally control 14 functions of SM621, surgeons can easily adjust the brightness and zoom magnification, switch the filters and backup bulb etc. Without any hand movement.





## Non-Contact Wide-Angle Fundus Viewing System 600A/600B

A wide and sharp surgical field of view guarantees the success of vitreoretinal surgery

### Wide-angle, high-definition and stereoscopic imaging

- A super-wide vitreoretinal surgical field of view reaching up to 130° allows surgeons to catch sight of the retina near the ora serrata.
- Ultra-high-resolution coaxial imaging offers a strong stereoscopic perception without any distortion or aberration at the periphery.

### Safety, efficiency and cost-effectiveness

- Non-contact design avoids corneal irritation, damage and infection, etc.

### 600A StereOptic Inverter

- The built-in laser filter safeguards surgeons' eyes
- Single-lens inversion for an effortless fundus viewing
- Ergonomically designed

### Three options fulfill various requirements

Model	Wide-angle	Small-diameter wide-angle	Mid-field
Field of View	100° / 130°	95° / 115°	45° / 55°
Magnification	0.4X	0.43X	1X
Diameter	18 mm	13 mm	13 mm





## ES-18A

### Specification



Tabletop Size	550 mm x 450 mm
Table elevator height	660 mm ~ 860 mm
Input	DC 100V ~ 220 V, ( 50 Hz / 60 Hz )
Weight	21 kg
Maximum load	50 kg



## ES-40L

### Specification



Tabletop Size	1100 mm x 575 mm
Table elevator height	665 mm ~ 865 mm
Input	DC 100~220 V $\pm$ 10%, (50 Hz / 60 Hz)
Fuse	220 VA
Weight	35 kg
Maximum load	180 kg



## Instant Online Service

Our professional service team responses quickly to customers' questions and complaints via E-mail, Skype and phone.

## Guaranteed Quality

Each product is assembled delicately by skillful worker in the pursuit of beauty and perfection. Strict quality control is applied to ensure reliable and durable quality.

## Interaction with Users

We keep in close touch with ophthalmologists via in person visit, e-mail, social media,etc to understand their demand and ideas for the products. In this way, we are able to incorporate these market feedback into our product development and production to meet these dynamic market demands.

Distributor Information



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