MediWorks

Ophthalmic Solutions

Details Make the **Difference**

About us

MediWorks was established in 2004. The headquarter of R&D, Manufacturing, Business Development and Operation Center is based in Shanghai, with branches located in Europe and America. MediWorks is committed to provide ophthalmologists and optometrists with high quality products, advanced technologies and superior services. The devices are being used in over 100 countries and by thousands of clinicians.

MediWorks owns a complete R&D and production system combining cutting-edge technology of Optics, Mechanics and Electronics. The R&D team of the research center for Ophthalmic Precision Instruments is composed by a group of personnel specialized in Optics, Mechanics, Electronics, Algorithm and Software, who has rich experience in R&D and production of ophthalmic instrument, medical imaging and machine vision.

Product

NMPA FDA CE ISO ISO13485

Combination
2 in 1
Ocular Diagnostic Master

Dry Eye
Dry Eye Diagnostic System

Refraction & Cataract
Scansys Anterior Segment Analyzer

Retina Disease
Fundus Camera

Vision
Vision Screener / Vision Chart

Basic Diagnosis
Slit Lamp & Accessories

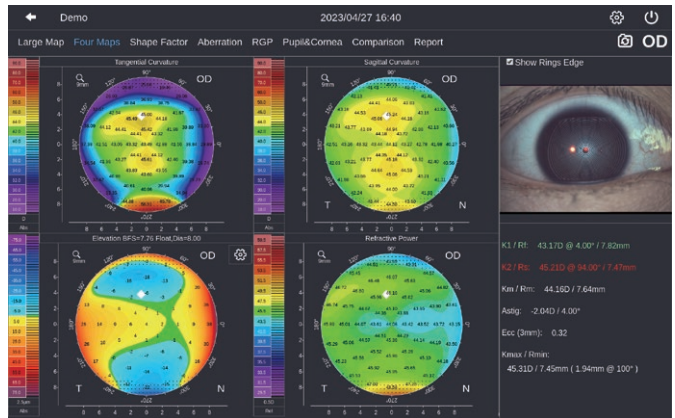# Mediview Patient Management Software

Telemedicine Mode

Supports Cloud Upload

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 character-istics of dry eye, providing a simple preliminary assessment for dry eye, improving diagnosis and treatment efficiency and facilitating patient follow-up.

Conjuntival 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.
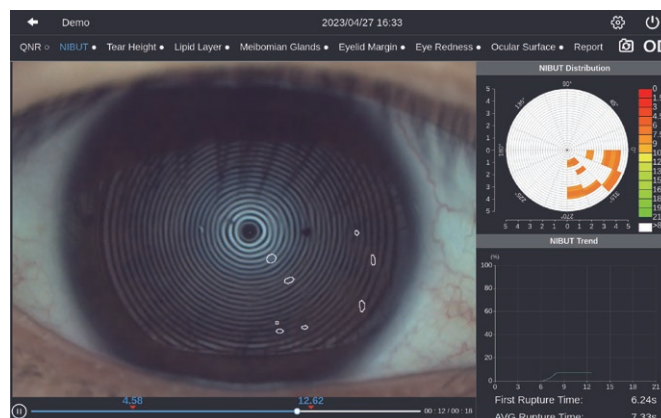
Dry Eye Diagnosis

Non-Invasive Breakup Time

After taking one video, it brings out automatis 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.

Guided examination: providing a comprehensive report covering 9 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

Dry Eye Diagnostic System

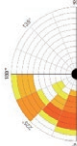Dry eye diagnosis / Anterior segment photography / Lens fitting / Patient management / Telemedicine
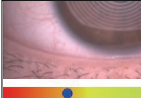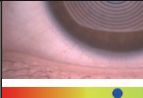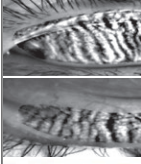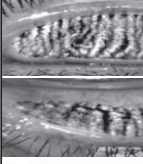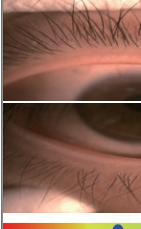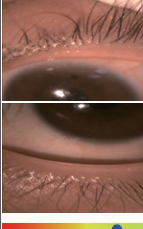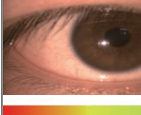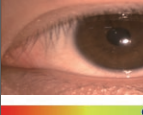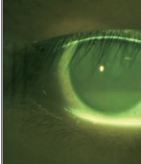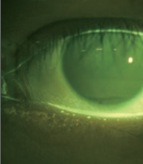
Optical resolution is up to 200 lp/mm($2700 \cdot N$ lp/mm), providing more details of the pathologies

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 μm pixel, real-time playing and storage
Smart patient management system, DICOM supported

Complete examination, Comprehensive evaluation, Precise diagnosis

Dry Eye Report

MediWorks

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

Check Date: 2023-02-09 14:59:36 — **OD**   **OS** — Check Date: 2023-02-09 14:59:35

NIBUT   Tear Height   NIBUT   Tear Height
FBUT   Lipid Layer   FBUT   Lipid Layer
Eye Redness   Meibomian Glands   Eye Redness   Meibomian Glands

NIBUT
Reference value
Grade 0 Healthy, First rupture time: 10s
Average rupture time: 14s
Grade 1 Warning, First rupture time: 6-9s
Average rupture time: 7-13s
Grade 2 Dry Eye, First rupture time: 5s
Average rupture time: 7s

Warning	Healthy
First rupture time: 4.75 s	First rupture time: Longer than 21 s
Average rupture time: 8.05 s	Average rupture time: Longer than 21 s

FBUT
Reference value
Grade 0 Healthy, First rupture time: >10s
Grade 1 Mild, First rupture time: 6-10s
Grade 2 Moderate, First rupture time: 2-5s
Grade 3 Severe, First rupture time: <2s

FBUT: 0.35   FBUT: 5.33

Severe	Moderate

Tear Height
Reference value
Healthy: ≥0.2mm

Abnormal	Healthy
0.14 mm	0.25 mm

Lipid Layer
Reference value (Unit:nm)
Grade 1: <30 Grade 2: 30 - 60
Grade 3: 60 - 80 Grade 4: >80

Grade 2   Grade 2

Abnormal	Abnormal

Meibomian Glands
Reference value
Grade 0: No missing
Grade 1: Loss of meibomian glands <1/3
Grade 2: Loss of meibomian glands 1/3-2/3
Grade 3: Loss of meibomian glands >2/3

Grade:2	Grade:1

Eyelid Edge
Reference value
1.Healthy(clear and transparent eyelid)
2.Mild(Gland opening protrude)
3.Moderate(fat embolism on the gland opening, disappearance of mucosa of eyelid margin,hyperkeratosis.)
4.Severe(irregular eyelid margin, disappearance of gland opening, posterior eyelid margin obtuse, thickened,new blood vessel.)

Upper: Mild	Upper: Healthy
Lower: Mild	Lower: Mild
Remarks:	Remarks:

Eye Redness

Conjunctival grade: 29.9%	Conjunctival grade: 36.8%
Ciliary grade: 13.9%	Ciliary grade: 11.7%
Remarks:	Remarks:

Ocular Surface Staining

Result:	Result:

Remarks:

Print Date: 2023/05/31
Doctor: Admin

Anterior Segment Analyzer
Scansys TA 517

Scheimpflug image

28/60 pics/single picture

107520/230400 data points
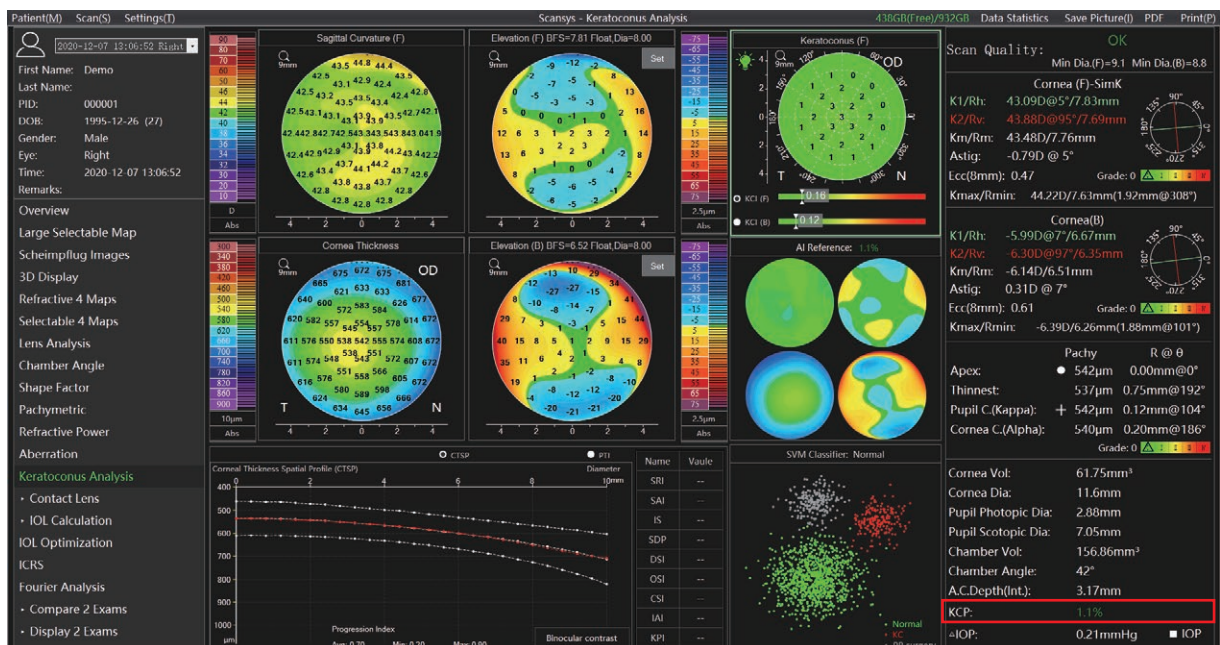
AI Keratoconus Diagnosis

IOL Optimization

Basic	28 Cornea Tomography Images Anterior Chamber Depth Total Cornea Power Refractive 4 Maps Aberration Analysis Refractive Power Distribution	2D/3D Data Collection True Net Refractive Power Refractive Power (Front) AI Keratoconus Diagnosis Pachymetric Distribution Lens Fitting	Keratometric Power Deviation Cornea Thickness Maps Cornea Curvature/Elevation Maps Chamber Angle Analysis Lens Density Analysis Shape Factor	Professional	(Including basic functions) 60 Cornea Tomography Images IOL Calculation IOL Optimization
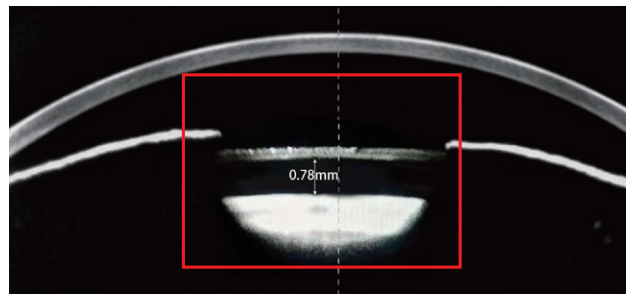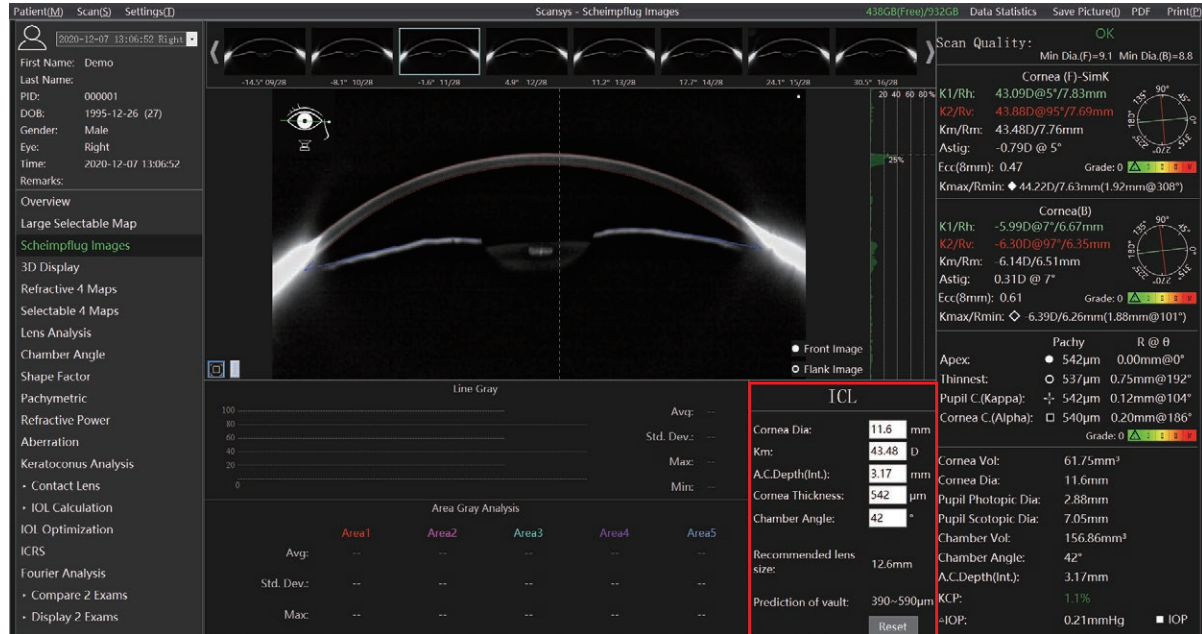
- ▲ Preoperative diagnosis &
  Postoperative arch evaluation

- ◄ Postoperative arch measurement

ICL Surgery Examination
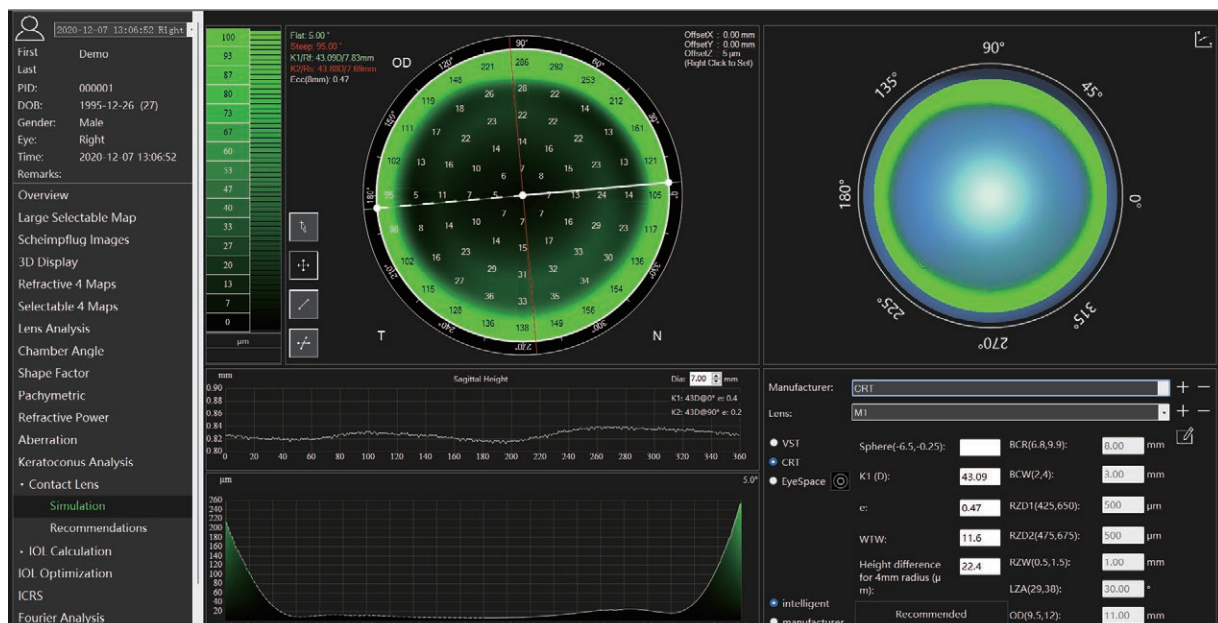
Lens Fitting

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 φ3.5 mm.

- 4.3″ full-touch LED screen.

- With 45 º field of view (a single central fundus image).
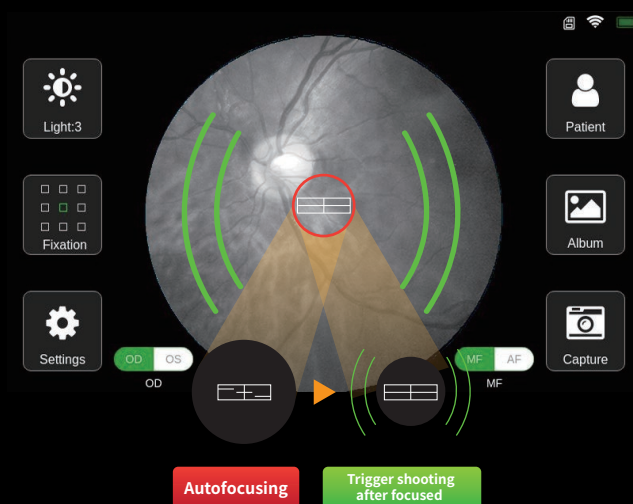
- With 9 fixation targets, covers 85º field of view of the fundus.

- 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.

Light:3

Fixation

Settings

OD OS
OD

Patient

Album

Capture

MF AF
MF

Autofocusing

Trigger shooting after focused
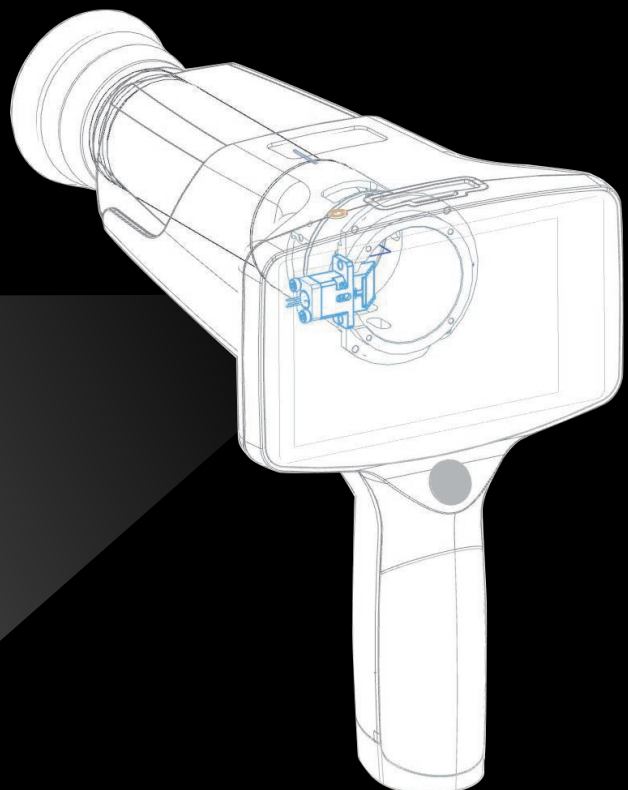
Automatic Fundus Camera
FC162

Guard Your Health Easily

Auto pupil alignment
Auto focus
Auto shooting

30 Seconds Obtaining Binocular Retina Images

Scan the QR code,
system will align pupil and start capture

Capture binocular retina
images under voice interaction

Adaptable third-party
AI screening system

Split Focusing Technology

HD
15 Mega Pixels

50° Field of View

Smart Diagnosis

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.
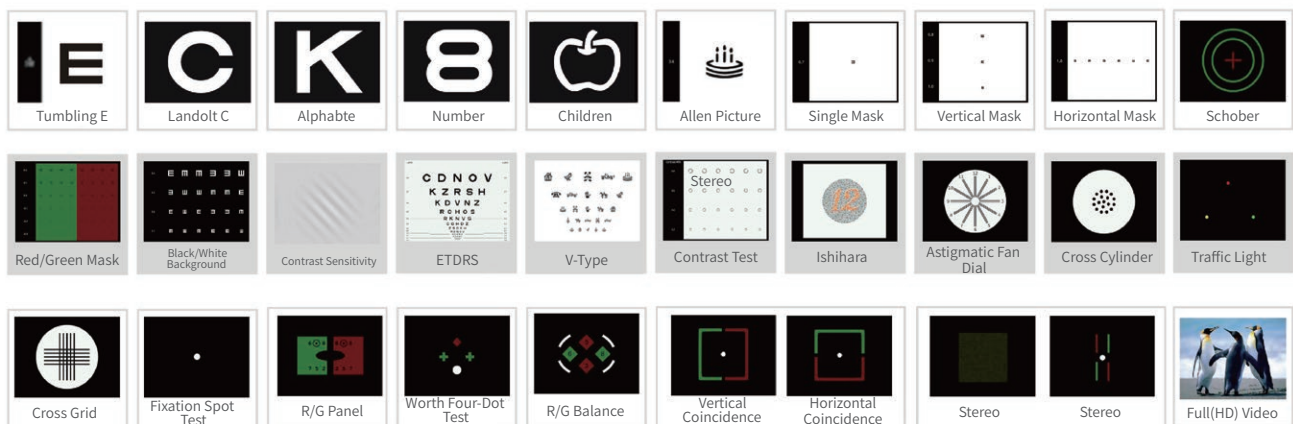

With two external ports on C901 provided for SD Card and USB flash disk connection, the user

Can run the automatic update procedure.

Can play video (AVI, MKV and MP4 format.)

With the wall bracket as standard, C901 can be installed on the wall.

Tumbling E	Landolt C	Alphabte	Number	Children	Allen Picture	Single Mask	Vertical Mask	Horizontal Mask	Schober
Red/Green Mask	Black/White Background	Contrast Sensitivity	ETDRS	V-Type	Contrast Test	Ishihara	Astigmatic Fan Dial	Cross Cylinder	Traffic Light
Cross Grid	Fixation Spot Test	R/G Panel	Worth Four-Dot Test	R/G Balance	Vertical Coincidence	Horizontal Coincidence	Stereo	Stereo	Full(HD) Video

Vision Screener
V100

⊢ **1M** ⊣ Working distance.

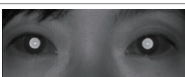Quickly deliver testing results in 1 second.

4.3″ full touch flipped screen.

Report

Name:gbhh	Age:50	Patient ID:11112	Diagnostic Type:

| | 4.48 mm ↑1 →0 | | | | | 4.44 mm ↑1 →0 | |

	DS -2.50	DC -0.25	Axis 88	**-CYL**	DS -4.00	DC -0.50	Axis 148	
OD	SE -2.75			64.73 mm	SE -4.25			OS

RIGHT EYE		LEFT EYE	
Myopia ●	Hyperopia ●	Myopia ●	Hyperopia ●
Astigmatism ●	Gaze ●	Astigmatism ●	Gaze ●

BOTH EYES		
Anisometropia ●	Pupil Size Difference ●	Gaze Asymmetric ●

Result :

Monocular	Myopia, Hyperopia, Astigmatism, Gaze	Binocular	Anisometropia, Strabismus, Anisocoria

Quick Detection

- Myopia (nearsightedness)
- Anisometropia (unequal refractive power)
- Hyperopia (farsightedness)
- Strabismus (eye misalignment)
- Astigmatism (blurred vision)
- Anisocoria (unequal pupil size)

Features

Wireless data transfer by wifi

Interesting sounds to attract children

Super user-friendly with minimal user training required

Capable of dealing with mass screening events

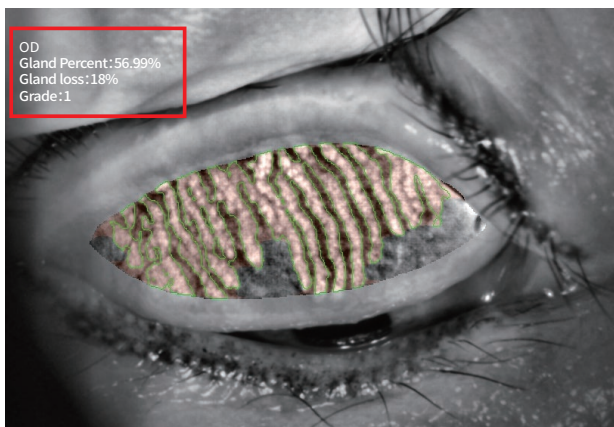Quickly deliver testing results in 1 second

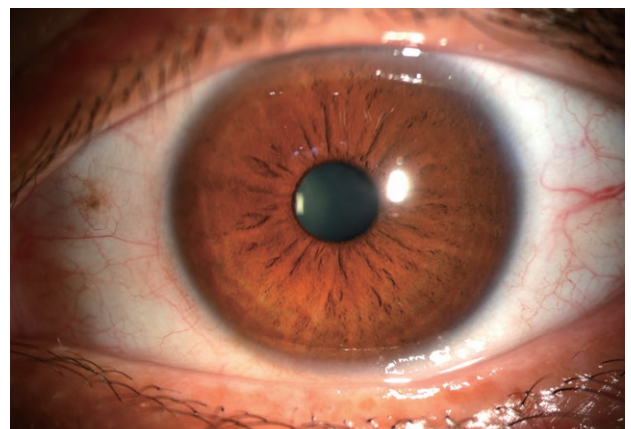Flip screen facilitate convenient vision measuring

Automated screening provides thorough, objective, and easy to understand results
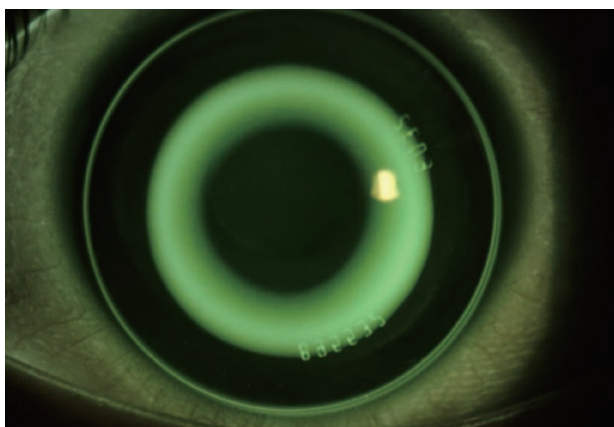
Digital Slit Lamp Microscope
S390L (Firefly)

Capable of upgrade to ［Dry eye diagnostic system］

OD
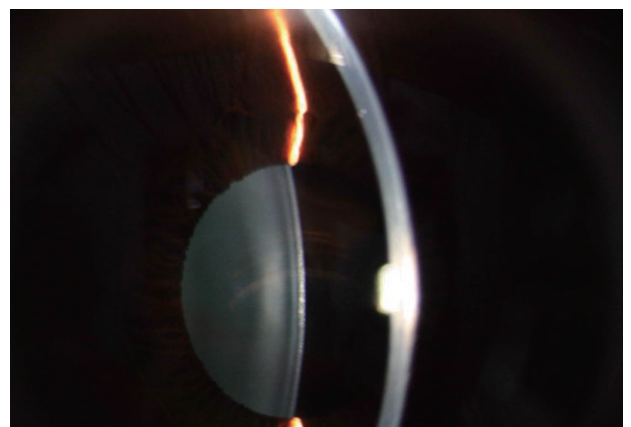Gland Percent:56.99%
Gland loss:18%
Grade:1

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 : ≥ 2592 x 1944
Video Resolution : ≥ 2592 x 1944
Frame of Video : ≥ 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 : Ø14 mm / Ø8 mm /
Ø3.5 mm / Ø0.2 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 : Ø14 mm / Ø10 mm / Ø5 mm /
Ø3 mm / Ø2 mm / Ø1 mm / Ø0.2 mm
Built-in power supply
Total Magnification : 5 steps (S360) / 3 steps (S360s)

Slit Lamp Accessories
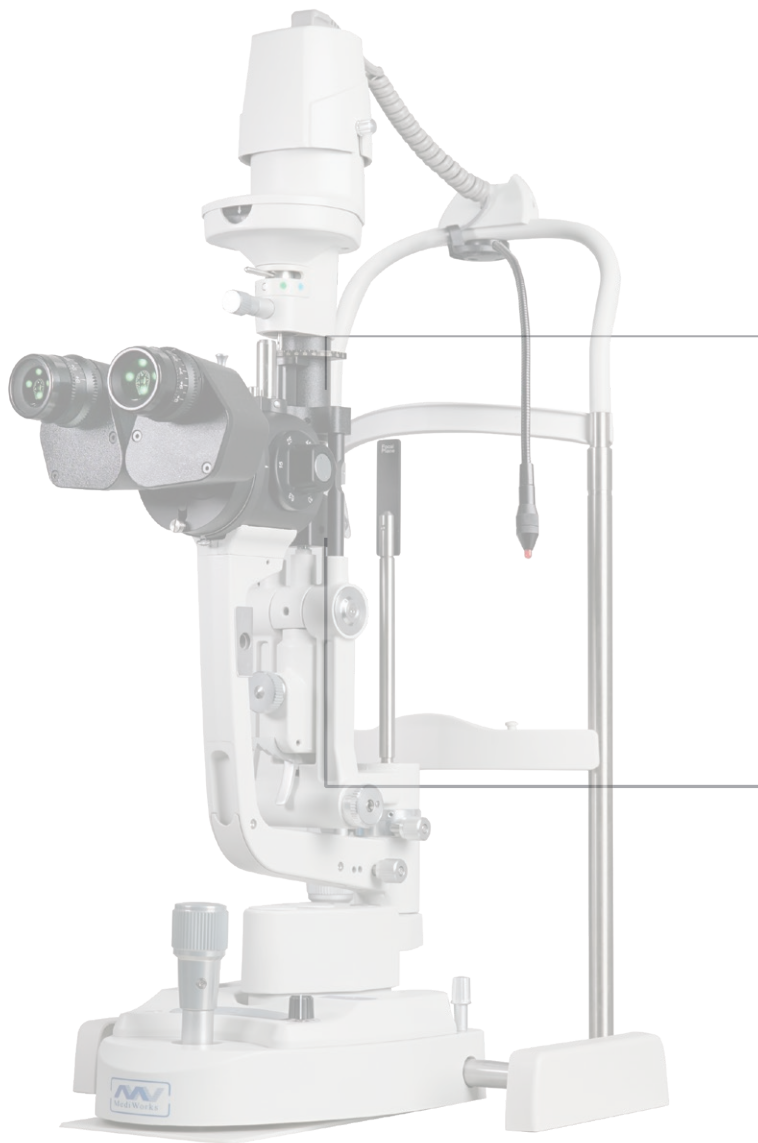
Applanation Tonometer
T170
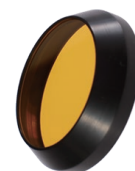
Beam Splitter   Observation Tube

Digital Camera Adaptor

Others

Retina Lens 90D 78D 20D   Yellow Filter Module   Yellow Filter

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 6 x
6h continuous working time
Rechargeable Li-ion battery 3.7 V / 3400 mAh

Android version

IOS version: Search
"MediviewMobile"
in AppStore

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.

CE **NMPA** FDA

Shanghai MediWorks Precision Instruments Co.,Ltd.

Add: Building 7, Mingpu Plaza, No. 3279, Sanlu Rd, Minhang District, Shanghai, 201100, China
Tel: +86-21-54260421 54260423
Email: marketing@mediworks.biz
　　　 international@mediworks.biz

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Details Make the **Difference**