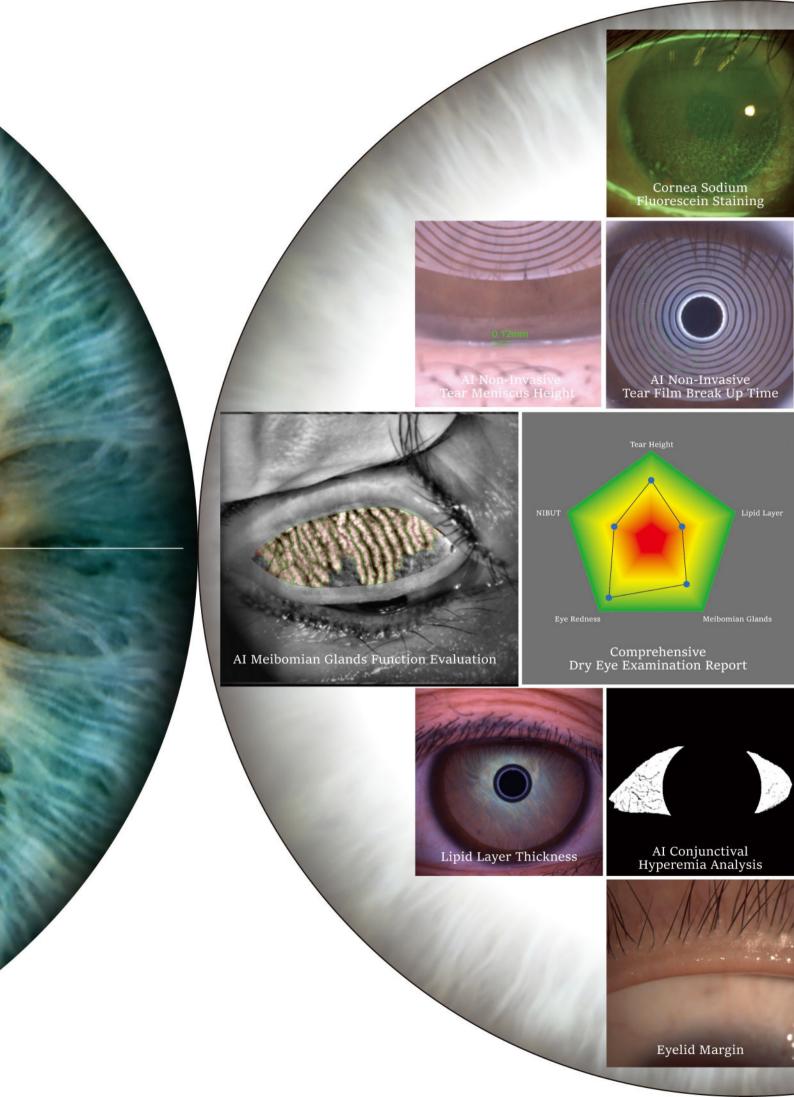


Dry eye diagnostic system







Easy Pathogenic Diagnosis provides guidance for customized treatment.

Dry eye diagnostic system

AI Analyzing Meibomian Glands

Precise diagnosis of Dry Eye caused by MGD is guaranteed with the help of AI identification system. Unique Built-in infrared lighting system provides a larger scope capture of Meibomian Glands, adjustable depth of field and aperture enables more vivid images.

Increase positive rate of early corneal epithelial staining

Built-in yellow filter along with cobalt-blue filter increases the contrast of Sodium Fluorescein Staining image.

HD Optical System

Resolution is up to $2700\cdot N$ lp/mm (200 lp/mm), providing more details of the pathologies.

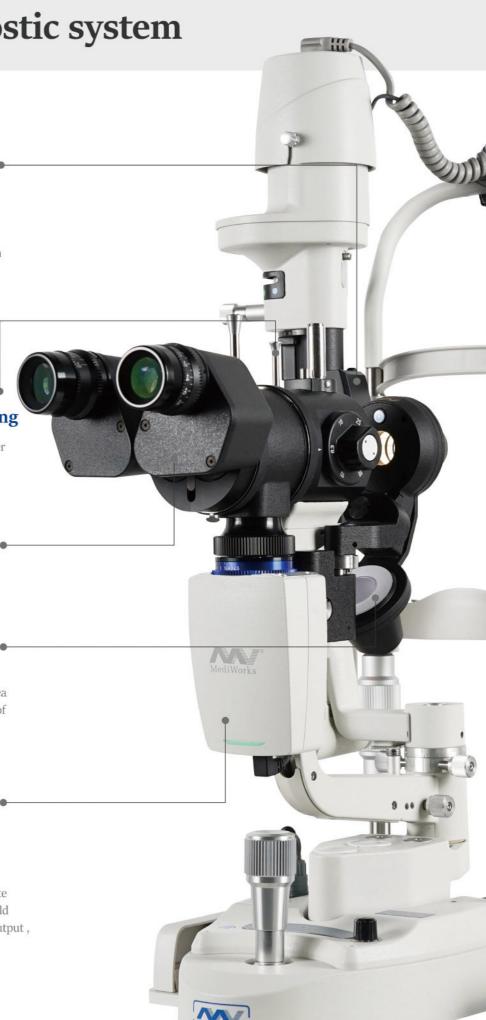
Full Cornea Dry Eye Analysis •

By Placido ring projection system with visible light, the examination scope is up to 8mm cornea diameter. Examination of the tear film outside of pupil center has the same significance for the diagnosis of Dry Eye.

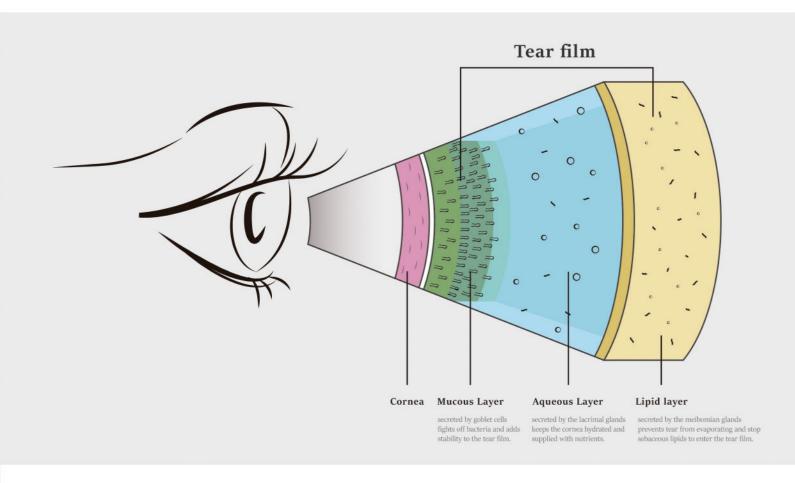
Fully automatic Firefly digital module

Firefly Digital module is specially designed for anterior segment examination, no parameter settings required(automatic exposure,auto white balance,auto focus),with adjustable depth of field and wide dynamic range,5 Mega Pixels video output, high examination efficiency is allowed.

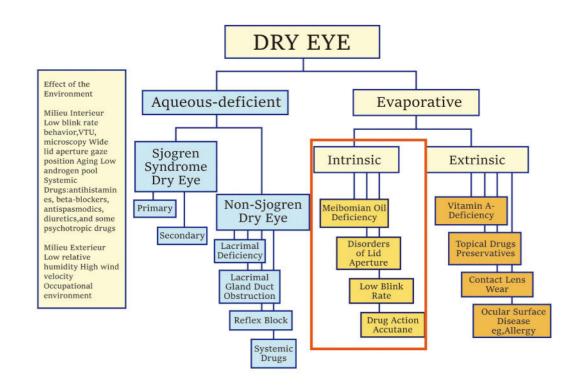




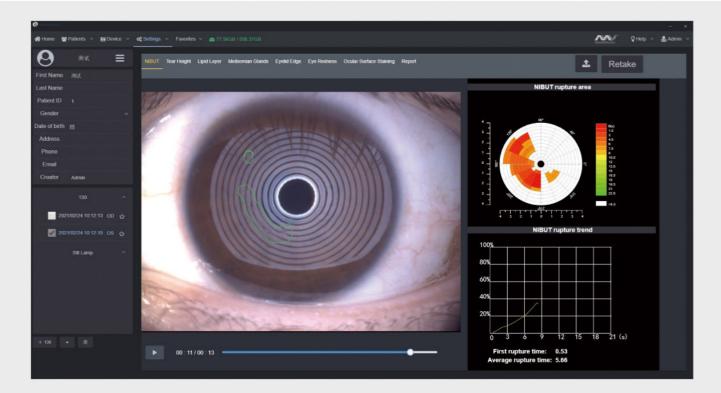
Due to various causes of Dry Eye Disease, traditional examination is difficult to find out the cause and quantify for the diagnosis. MediWorks Dry Eye Diagnostic System can provide standardized examination and quantified causes evaluation for Dry Eye Disease.



Dry eye classification from the 2007 DEWS Report



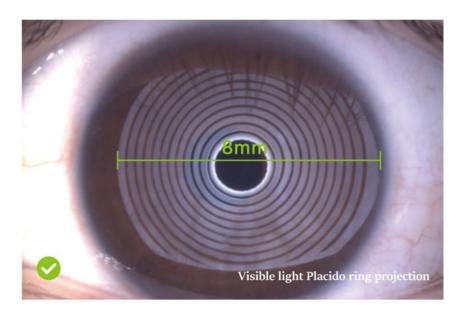
AI Non-Invasive Break Up Time

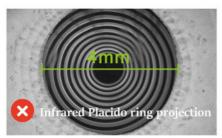


After taking one video, it brings out automatis result of NIBUT and Tear Meniscus Height.

Grade o Normal, First Rupture Time: 10 s Average Rupture Time: 14 s Grade 1 Warning, First Rupture Time: 6-9 s Average Rupture Time: 7-13 s Grade 2 Dry eye, First Rupture Time: 5 s Average Rupture Time: 7 s

AI identifies the break-up area and analyzes NIBUT automatically. Fully automatic analysis system provides efficient quantified evaluation for the overall stability of tear film. It automatically acquires the first break up time, average break up time, break up distribution, break up area percentage curve and time distribution.

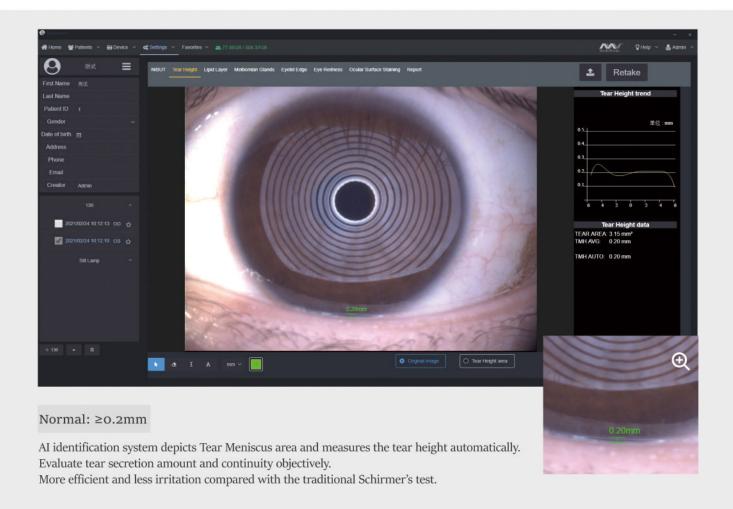


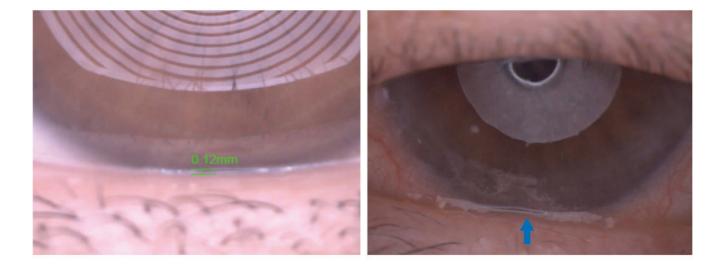


MediWorks adopts Placido ring projection system with visible light to do NIBUT examination, the examination scope is up to 8mm cornea diameter which brings much more comprehensive diagnosis outcome.

The non-invasive examination avoids the irritation brought by the traditional Cornea Sodium Fluorescein Staining.

AI Non-Invasive Tear Meniscus Height





Insufficient tear secretion

Abnormal dynamics and conjunctival chalasis

AI Meibomian Glands Function Evaluation



Get original/enhanced/result images by one click

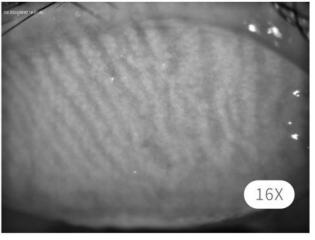
Grade 0: No Meibomian Glands Loss Grade 1: Meibomian Glands Loss < 1/3 Grade 2: Meibomian Glands Loss 1/3-2/3 Grade 3: Meibomian Glands Loss >2/3

AI identification system automatically anlalyzes meibomian glands loss caused by meibomian glands dysfunction with precise and quantified diagnosis results.

Built-in infrared lighting system helps doctors obtain larger image scope of the meibomian glands.

Adjustable depth of field makes the glands more prominent and distinguishable against the background.





Meibomian glands loss

Image of Meibomian Glands under high-magnification

Lipid Layer Thickness

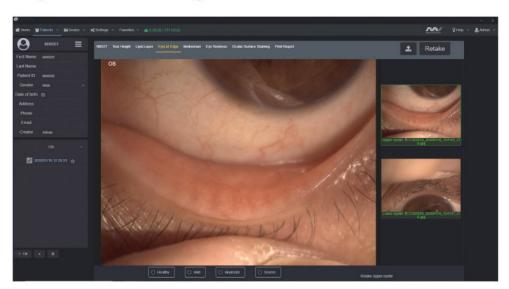


White ring projection system ensures a larger examination area compared to Placido ring.By comparing with the standard grading template and recording the Lipid Layer thickness, it is helpful for judging MGD.

(Unit:nm) Grade 1: <30 Grade 2: 30-60 Grade 3: 60-80

Grade 3: 60-8 Grade 4: >80

Eyelid Margin

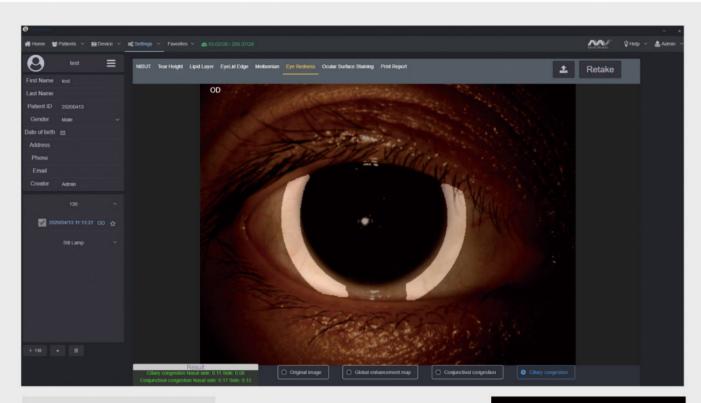


- Normal including (Ophthalmic embolism bright, transparent)
 Mild including (gland cap crown glandular prominent)
 Moderate including (glandular fat plug disappearance of the marginal mucosa, hyperkeratosis)
 Severe including (uneven margins, disappearance of the
- margins, disappearance of the meibomian glands - posterior margin Blunt round, thickening, new blood)



MediWorks professional design of optical system is capable of providing HD digital image that remains clear and sharp even zoom in, meets the examination requirements of the overall shape of eyelid margin and its slight change.

AI Analysis of Conjunctival Hyperemia



Normal: ≤2 Abnormal: >2

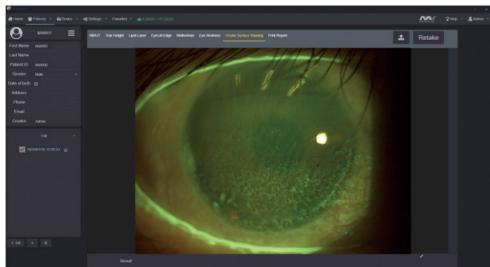
The unique AI identification system can identify and calculate percentages of conjunctival congestion and ciliary congestions and evaluate severity of eye congestion.



AI image

Cornea Sodium Fluorescein Staining

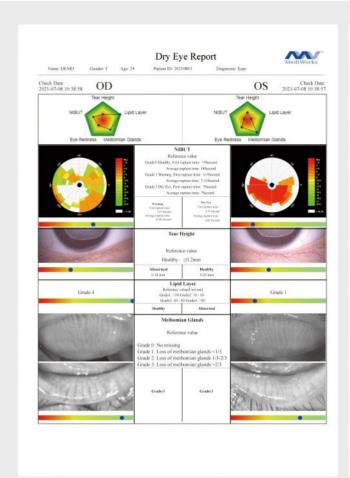


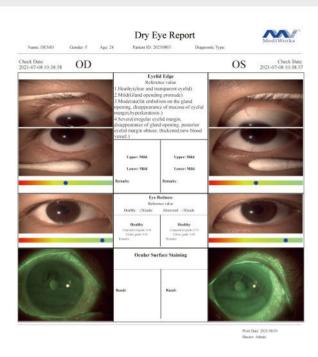


Effectively increases positive rate of early corneal epithelial staining.

Built-in yellow filter along with cobalt-blue filter makes the corneal sodium fluorescein images more clearly.

Dry Eye Comprehensive Evaluation Report



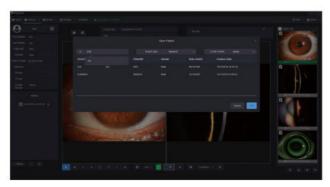


Smart Patient Management system



Comparison of Patient records

Supports repeated comparison among medical records to evaluate treatment and guide customized treatment plan.



Patient Management system allows doctors to build and edit medical records. Quickly search the patient case by key words. Doctors can note patients' situation via the software. This DICOM-supported system enables Mediview to connect with medical systems in hospitals.

We are looking forward to your professional advice for our products and if you are interested in academic or business cooperation with us.

Please contact:

Email: International@mediworks.biz Marketing@mediworks.biz

Specifications

Microscope

Microscope Type	Galilean Type		
Magnification Change	Revolving Drum 5 steps		
Total Magnification	6.3X, 10X, 16X, 25X, 40X		
Optical Resolution	2700·N lp/mm (200 lp/mm)		
Eyepieces	12.5X		
Angle between Eyepieces	10°		
Pupillary Adjustment	52mm-80mm		
Diopter Adjustment	-8D~+8D		
Field of View	Ø36.2mm, Ø22.3mm, Ø14mm, Ø8.9mm, Ø5.7mm		

Slit Illumination

Slit Width	0~14mm continuous (slit becomes a circle at 14mm)		
Slit Length	1~14mm continuous		
Aperture Diameters	Ø14mm, Ø10mm, Ø5mm, Ø3mm, Ø2mm, Ø1mm, Ø0.2mm		
Slit Angle	0°~180°		
Slit Inclination	5°, 10°, 15°, 20°		
Filters	Heat-absorbing filter, ND filter, Red-free filter, Cobalt blue filter, Built-in yellow filter		
Lamp	LED		
Luminance	≥150klx		

Power Supply Packaging

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Input Voltage	~100V-240V	Dimension	740mm x 450mm x 530mm(L/W/H)
Input Frequency	50Hz/60Hz	Gross weight	23kg
Rated current	1.2A	Net weight	17kg
Output Voltage	LED 3V, Fixation 15V		

System Specifications

Digital Module	Automatic exposure/ Automatic white balance / Adjustable depth of field and aperture		
Image Sensor	1/1.8-inch sensor / 2.4µm pixel / 5.0M Pixels		
Photo Resolution	2592 x 1944		
Format	JPEG		
Video Resolution	2592 x 1944		
Frame of Video	25fps		
Video Formats	MP4 H.264		
Exposure Mode	Automatic exposure		
Transmission Interface	USB		

Computer Specifications

compator opcomoduono		
PC configuration	i5-10500T 8G memory 25GB SSD+1TB storage	
Display	1920×1080 23.8inch	
PC system	Windows 10	

Dry Eye Module

Al Non-Invasive Tear Break Up Time

Al identify the break-up area Automatic first break up time Automatic average break up time Visible light Placido ring projection(23 ring)

AI Meibomian Glands Function Evaluation

Al identify Meibomian glands
Automatic Meibomian glands loss classification

Eyelid Margin

Optical magnification Electronic amplification

Al Non-Invasive Tear Meniscus Height

Al identification system Automatic Non-Invasive Tear Meniscus Height Optical magnification Electronic amplification

Lipid Layer Thickness

Template comparison evaluation Visible light White ring projection system

Dry Eye Examination Report

Automatic analysis report

Al Conjunctival Hyperemia Analysis

Al identification system Automatic conjunctival congestion percentages Automatic ciliary congestions percentages

Cornea Sodium Fluorescein Staining

Eye surface damage report Built-in yellow filter Cobalt blue filter

CE NMPA PA

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