



*i***S7 Series**
SLIT LAMP
M I C R O S C O P E

**SHARPER VISION,
SMARTER DIAGNOSIS.**

OVERVIEW

SEEING IS
BELIEVING!



HD OPTICAL SYSTEM

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



BUILT-IN YELLOW FILTER

Built-in yellow filter along with cobalt-blue filter increases the contrast of Sodium Fluorescein Staining image. Increase positive rate of early corneal epithelial staining.



THE MEIBOMIAN GLANDS EXAMINATION

Patient's Meibomian gland observation is supported by the unique infrared light source module.

SIMPLE DESIGN + SIMPLE OPERATION

The design was inspired from the shape of firefly. The smart design largely saves space for clinicians compared other bulky camera systems. We have preset many camera parameters so the user does not need to adjust settings before using the device. The user can operate the machine immediately once the installation has been finished. The device has the following automatic functions for photo shooting and processing when equipped with our software:

- Wide Dynamic Range
- Meibomian Glands Examination
- Auto Exposure
- Auto Gain
- Auto White Balance
- Auto OD/OS Indicator



SOFTWARE FEATURES



4056 X 3040



2592 X 1944



30FPS

- CONVENIENT PATIENT MANAGEMENT
- FUNCTIONAL IMAGE ANALYSIS
- ORTHOKERATOLOGY LENS FITTING ASSISTANCE
- CUSTOMIZED AUTO EXPOSURE VALUE SETTING
- SMART PATIENT MANAGEMENT SYSTEM



EYECARE | MEDICAL DEVICES | SKILL DEVELOPMENT

SPECIFICATIONS

SEEING IS
BELIEVING!

SPECIFICATIONS

	iS7 SLIT LAMP MICROSCOPE		iS7 SLIT LAMP MICROSCOPE (DIGITAL)
MICROSCOPE			
Microscope Type	Galilean Type		
Magnification Change	Revolving Drum 5 steps		
Total Magnification	6.3x,10x, 16x, 25x, 40x		
Eyepieces	12.5x		
Angle between Eyepieces	10°		
Pupillary Adjustment	52 mm - 80 mm		
Diopter Adjustment	-8D +8D		
Field of View	Ø36.2 mm, Ø22.3 mm,		
	Ø14 mm, Ø8.9 mm, Ø5.7 mm		
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, Ø2 m, Ø0.2mm		
Slit Angle	0° ~ 180°		
Slit Inclination	5°, 10°, 15°, 20°		
Filters	Heat absorbing filter, ND filter,		
	Red free filter, Cobalt Blue filter,		
	Yellow filter built-in		
Lamp	3V LED Module		
Luminance	> 150KLX		
POWER SUPPLY			
Input Voltage	110V-220V		
Input Frequency	50Hz/60Hz		
Output Voltage	3V LED, Fixation 5V		
PACKAGING			
Dimension(L/W/H)	770mm x 470mm x 570mm		
Gross Weight	23kg		
Net Weight	17kg		
PHOTO SYSTEM SPECIFICATIONS			
Image Sensor	●	12 M Pixels	
Photo Resolution	●	4056 x 3040	
Format	●	JPEG	
Video Resolution	●	2592 x 1944	
Frame of Video	●	30fps	
Video Format	●	MP4 H.264	
Exposure Mode	●	Automatic exposure	
Transmission Interface	●	USB 3.0 TYPE - C	
COMPUTER SPECIFICATIONS			
PC configuration	i5 - 10500T 8GB memory 256GB SSD + 1TB storage		
Display	1920x1080 23.8 inch		
PC system	Windows 10		

OPTIONAL ACCESSORIES



Co-observing
Tube



Applanation
Tonometer



Instrument Table



Diagnostic Lenses

SHARPER VISION,
SMARTER DIAGNOSIS



Ref No: TE/CAT/IS7S/60/20032025

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NSIC CERTIFICATE NO.	: NSIC/GP/NAI/2016/0027403

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Note : The specifications are subject to change without prior notice for improvement purpose.



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*i***S7 Series**
SLIT LAMP
MICROSCOPE

WITH

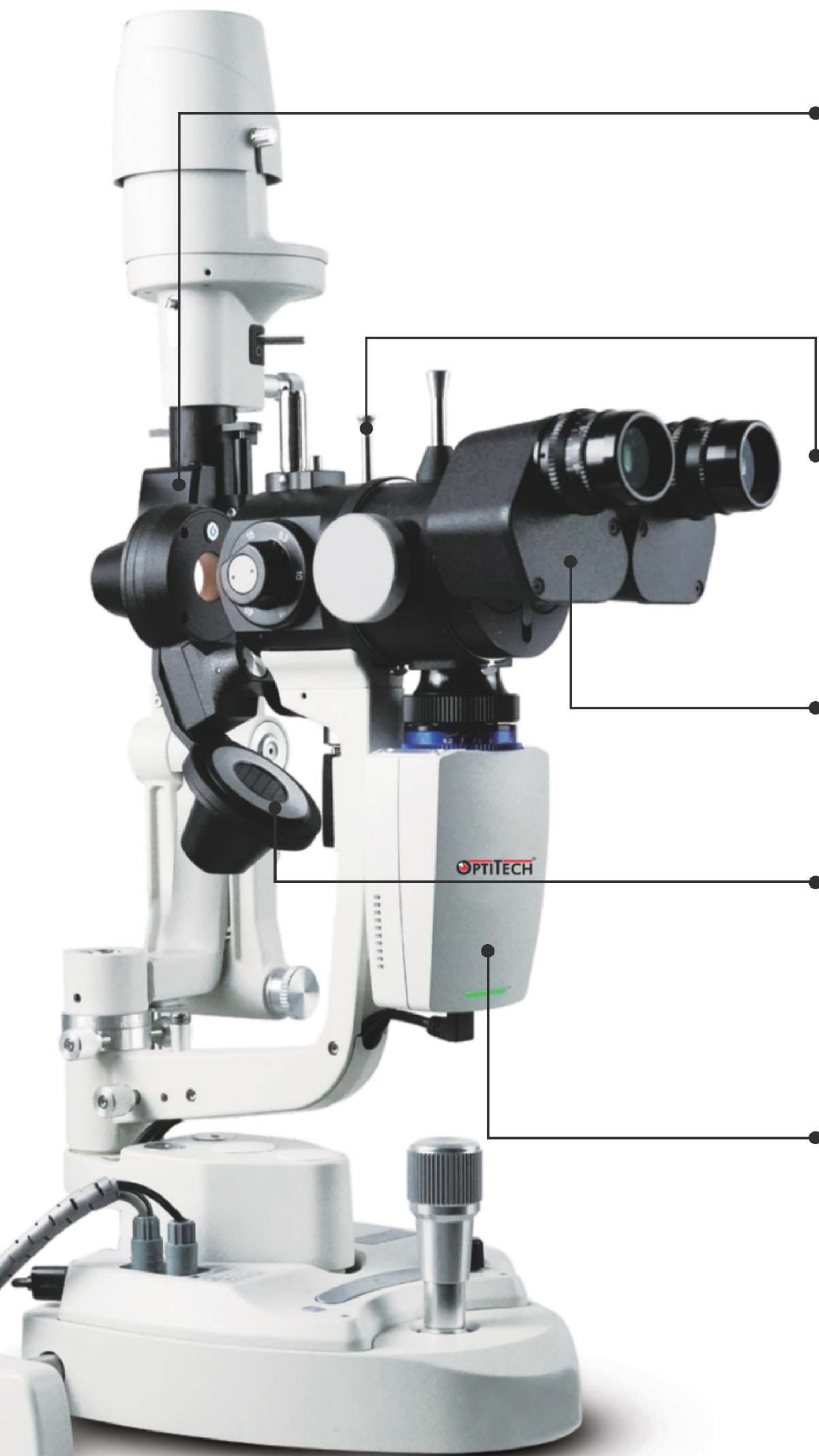


DRY EYE
MODULE

**SHARPER VISION,
SMARTER DIAGNOSIS.**

DRY EYE DIANOSTIC SYSTEM

SEEING IS
BELIEVING!



Automatic 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 2700.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 8 mm 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

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, 12 Mega Pixels video output, high examination efficiency is allowed.

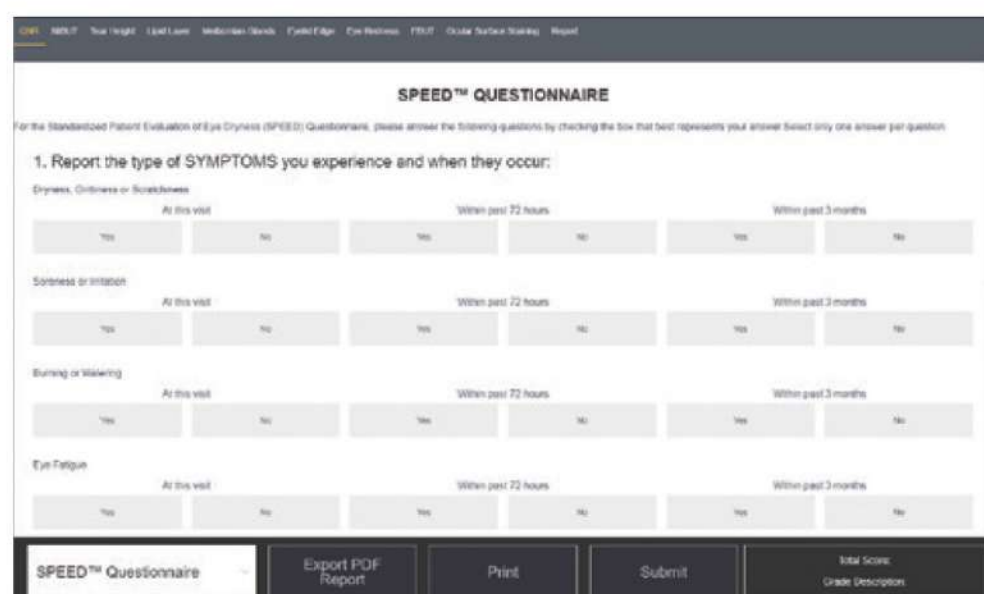


FUNCTIONS

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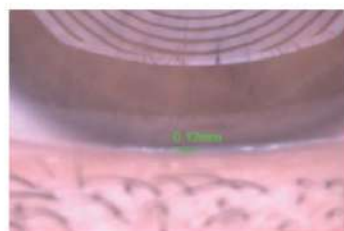
► DRY EYE QUESTIONNAIRE

- 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.

► NON-INVASIVE TEAR MENISCUS HEIGHT



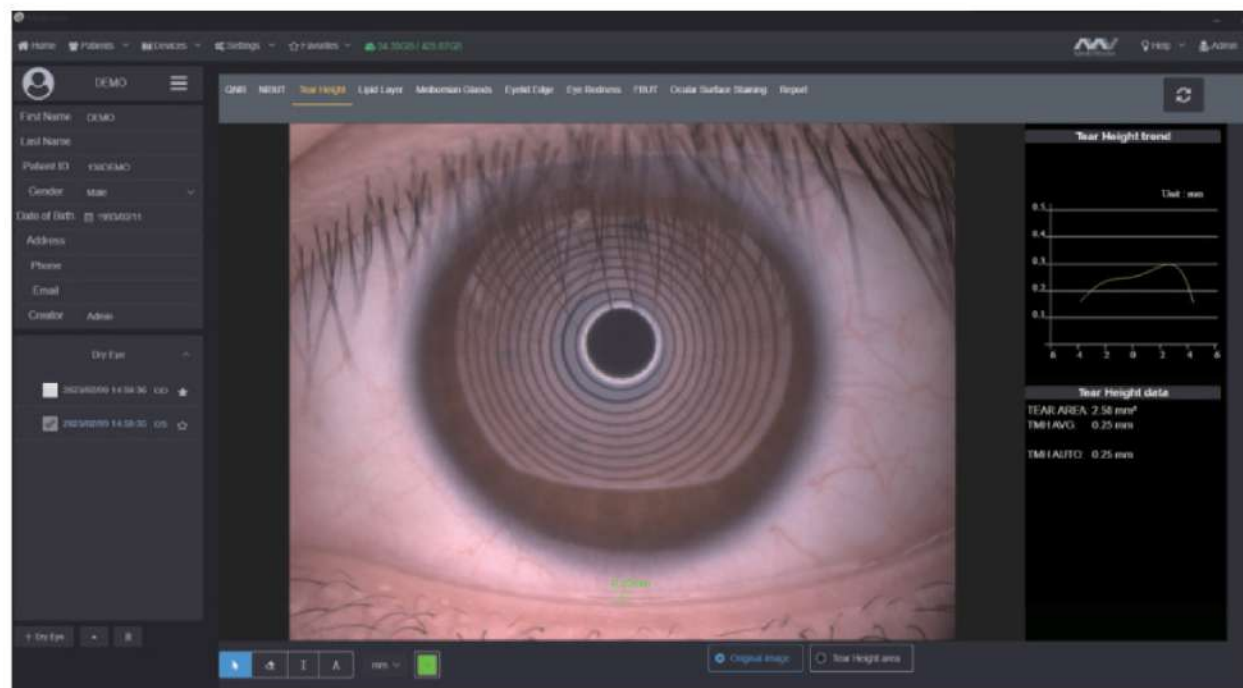
Insufficient tear secretion



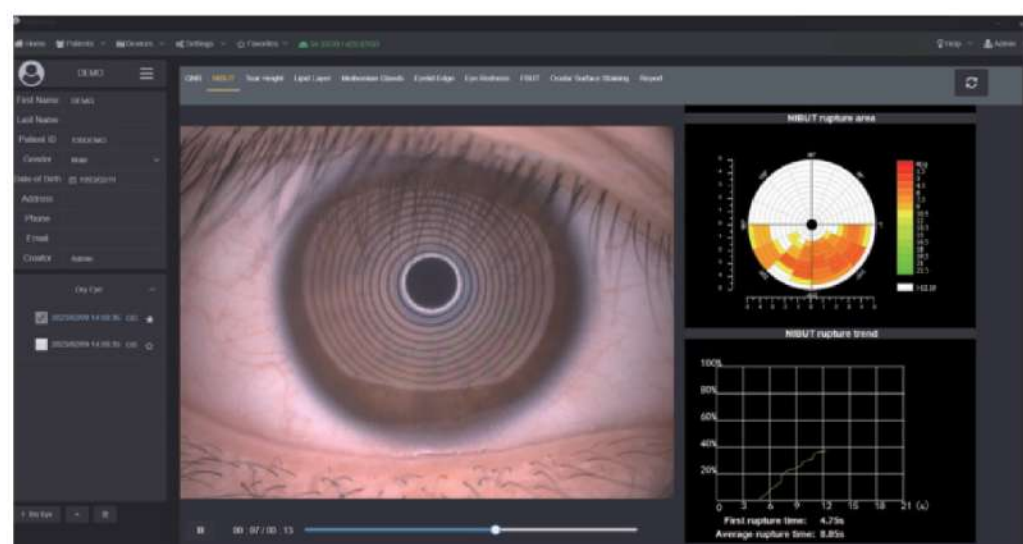
Abnormal dynamics and conjunctival chalasis

Normal: ≥ 0.2 mm

AI 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.



► NON-INVASIVE BREAKUP TIME



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

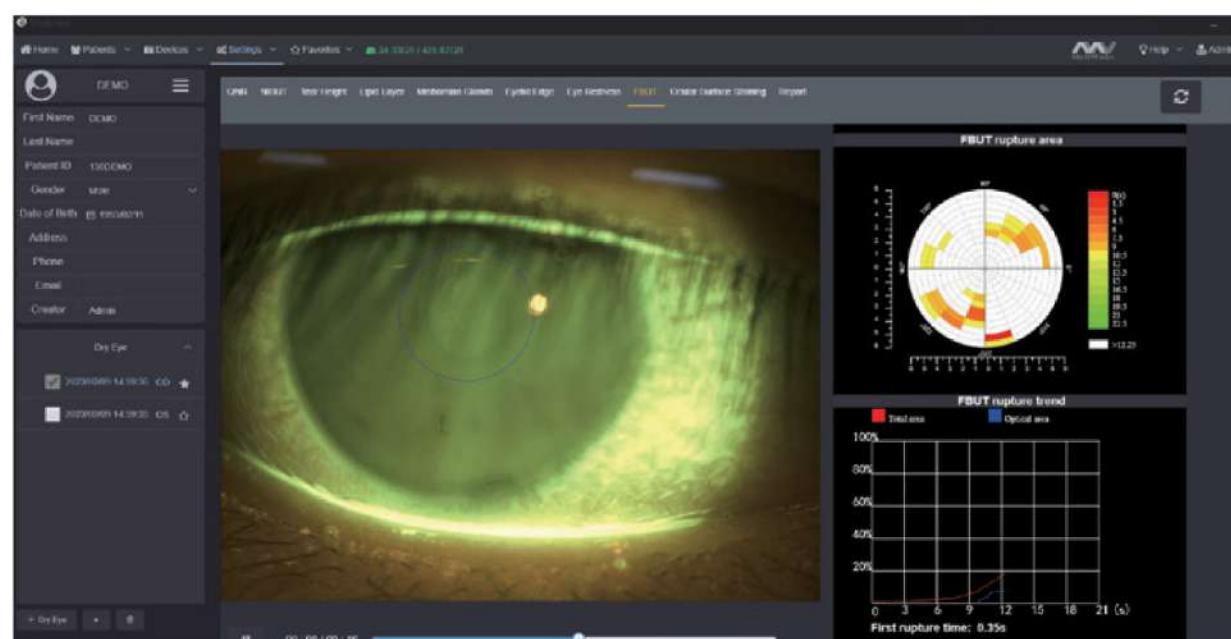
Grade 0 Normal, First Rupture Time: 10 s Average Rupture Time: 14 s
Grade 1 Warning, First Rupture Time: 6 ~ 9 s Average Rupture Time: 7 ~ 13 s
Grade 2 Dry eye, First Rupture Time: 5 s Average Rupture Time: 7 s

AI identifies the breakup 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 breakup time, average breakup time, breakup distribution, break up area percentage curve and time distribution.

FUNCTIONS

SEEING IS
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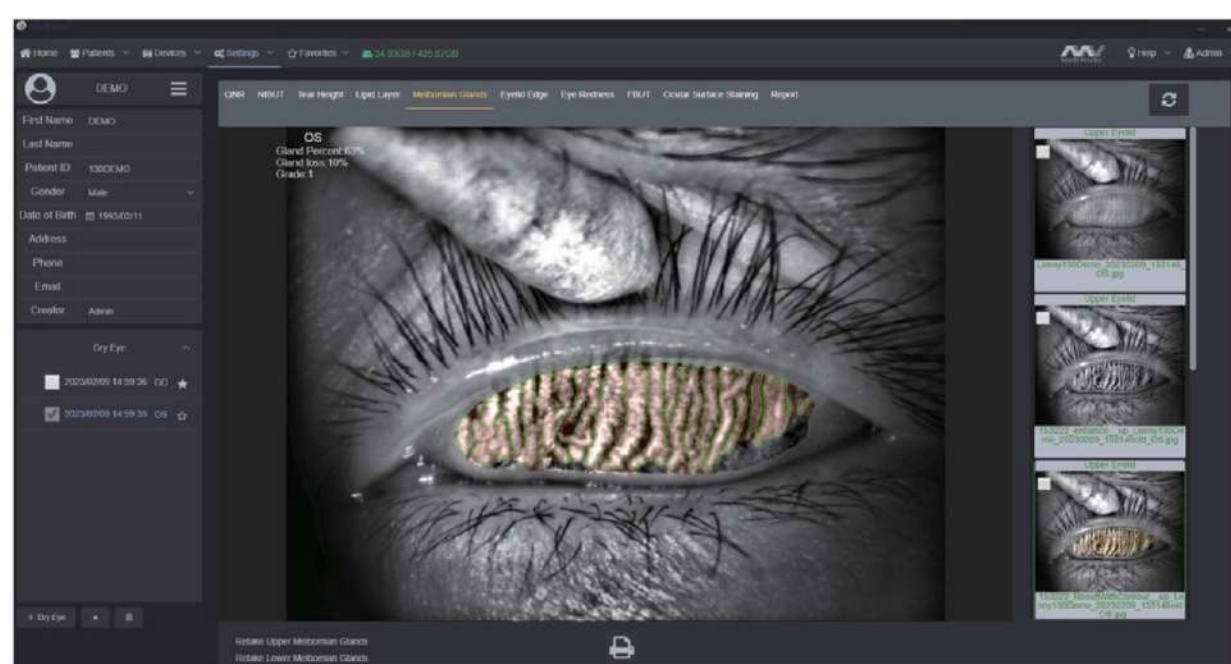
▶ FLUORESCIN BREAKUP TIME



Fluorescein Breakup Time (FBUT) is a diagnostic test used to measure the stability of the tear film on the cornea. A fluorescein dye is applied to the eye, and the time until the first dry spot appears on the tear film is observed under a slit lamp. This test helps assess the quality and consistency of the tear film, which is essential for maintaining eye comfort and preventing dryness.

Normal: > 10 s;
Mild: 6 ~ 10 s;
Moderate: 2 ~ 5 s;
Severe: < 2s or no complete tear film.

▶ MEIBOMIAN GLANDS FUNCTION EVALUATION



Get original/enhanced/result images by one click

AI identification system automatically analyzes 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.



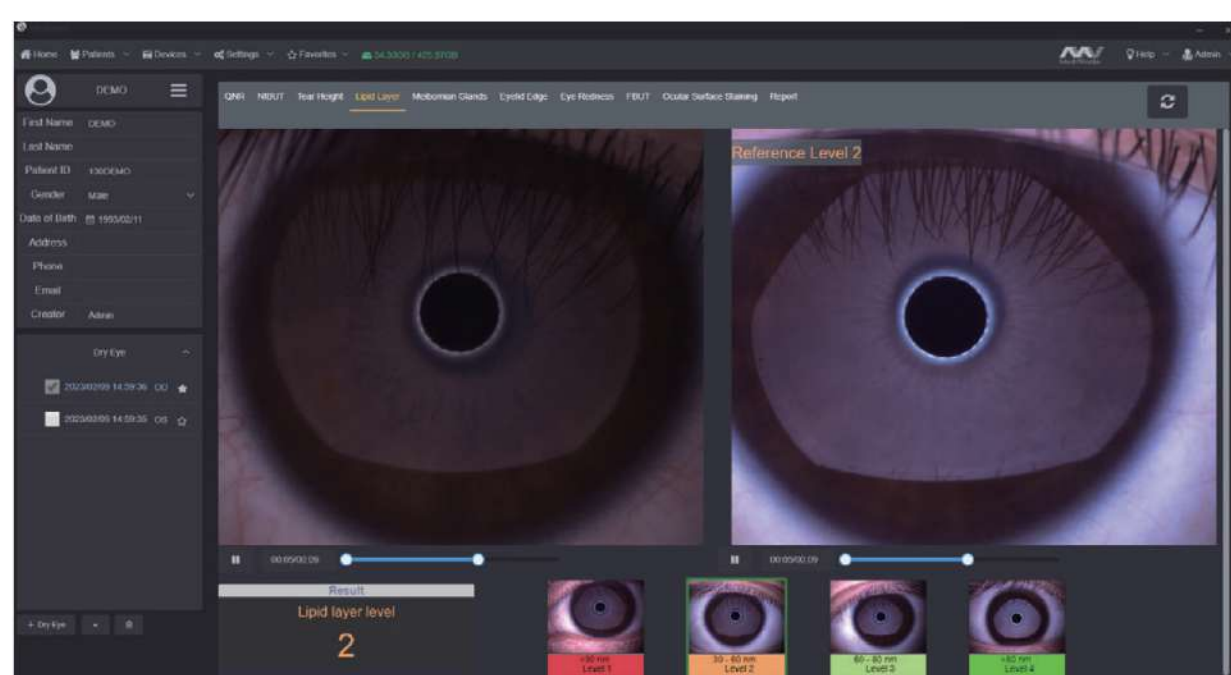
MEIBOMIAN GLANDS LOSS



IMAGE OF
MEIBOMIAN GLANDS UNDER
HIGH-MAGNIFICATION

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

▶ LIPID LAYER THICKNESS



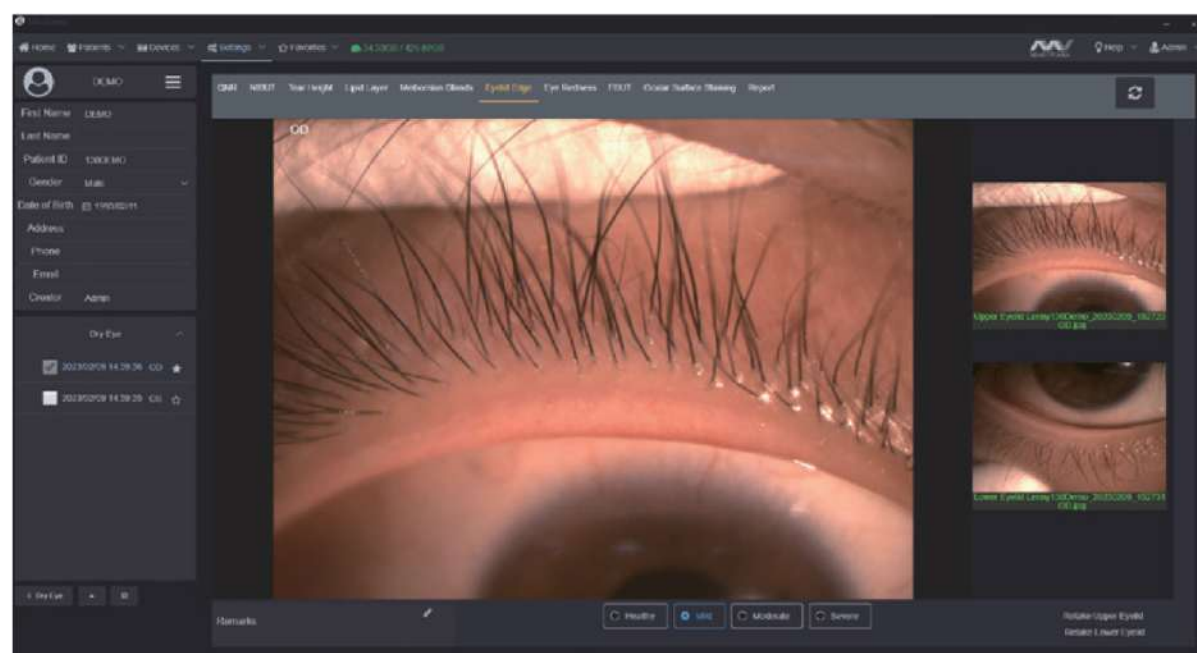
White ring projection system ensures a larger examination area compared to Placido ring. By comparing with the standard grading template and recording the Lipid Layer thickness, it is helpful for judging MGD.

Grade 1 : < 30 nm
Grade 2 : 30 nm ~ 60 nm
Grade 3 : 60 nm ~ 80 nm
Grade 4 : > 80 nm

FUNCTIONS

SEEING IS
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▶ EYELID MARGIN

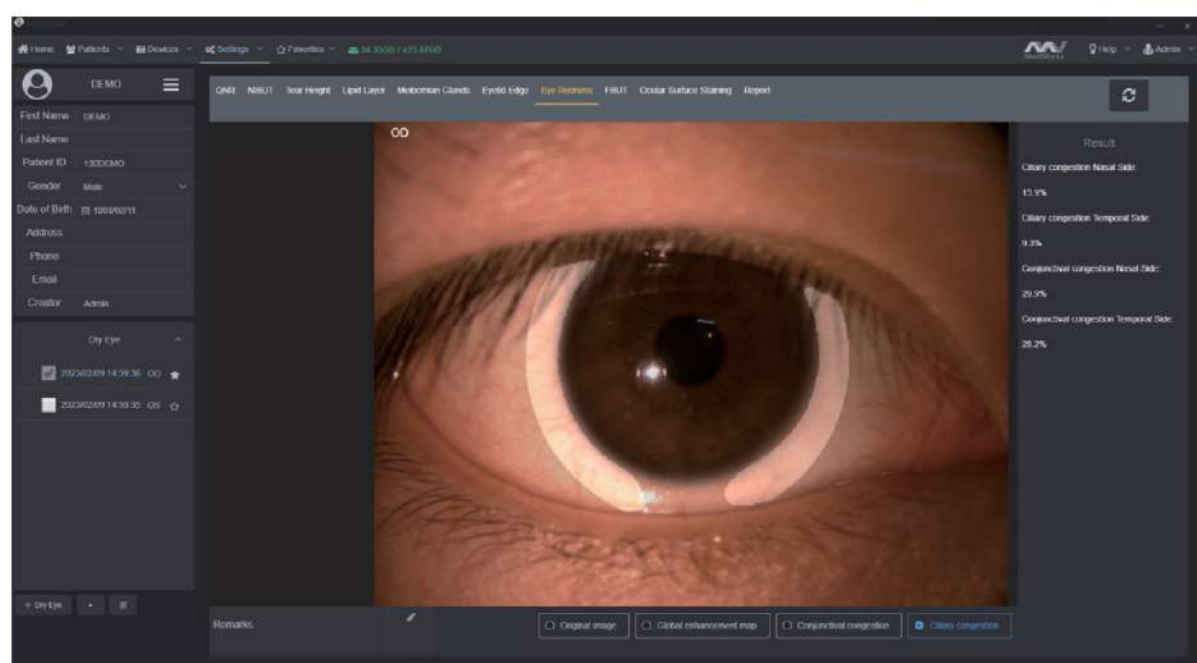


1. Normal including (Ophthalmic embolism bright, transparent)
2. Mild including (gland cap crown - glandular prominent)
3. Moderate including (glandular fat plug - disappearance of the marginal mucosa, hyperkeratosis)
4. Severe including (uneven margins, disappearance of the meibomian glands - posterior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



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.

▶ ANALYSIS OF CONJUNCTIVAL HYPEREMIA



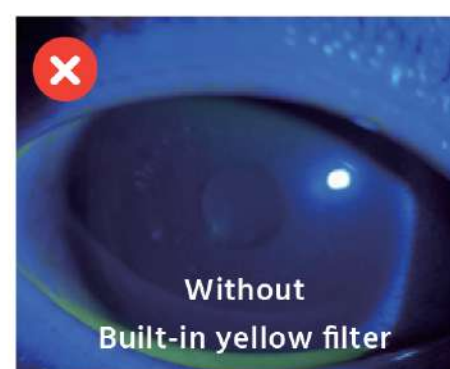
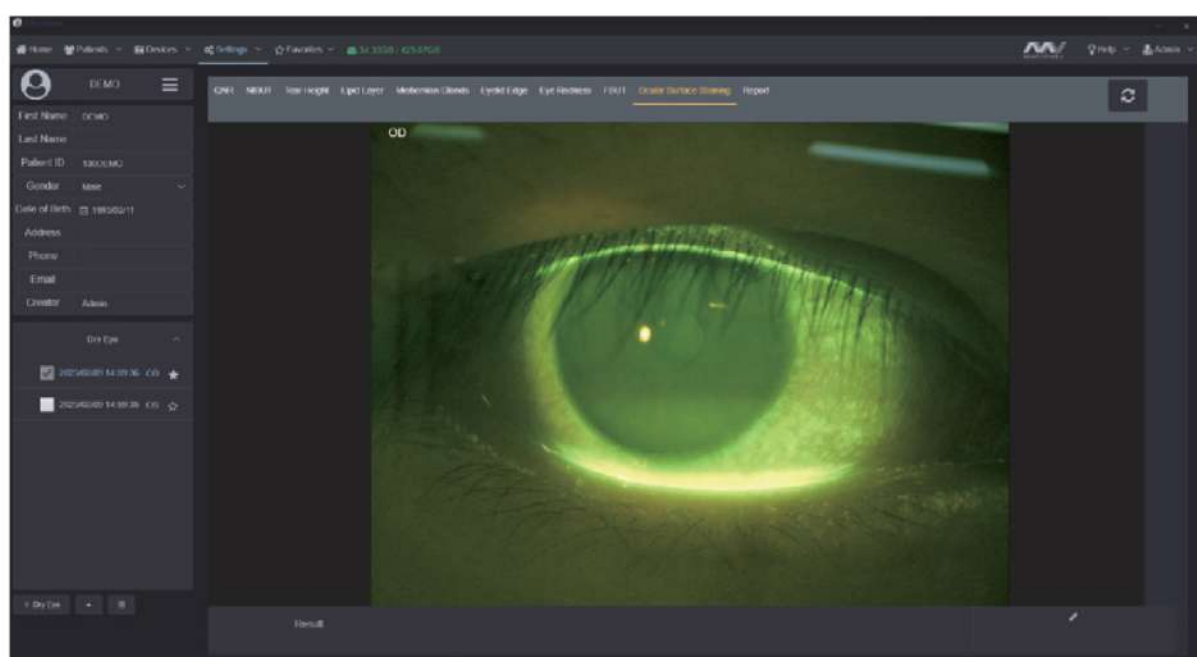
Normal: ≤ 2 Abnormal: > 2

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



AI image

▶ CORNEAL FLUORESCEIN STAINING



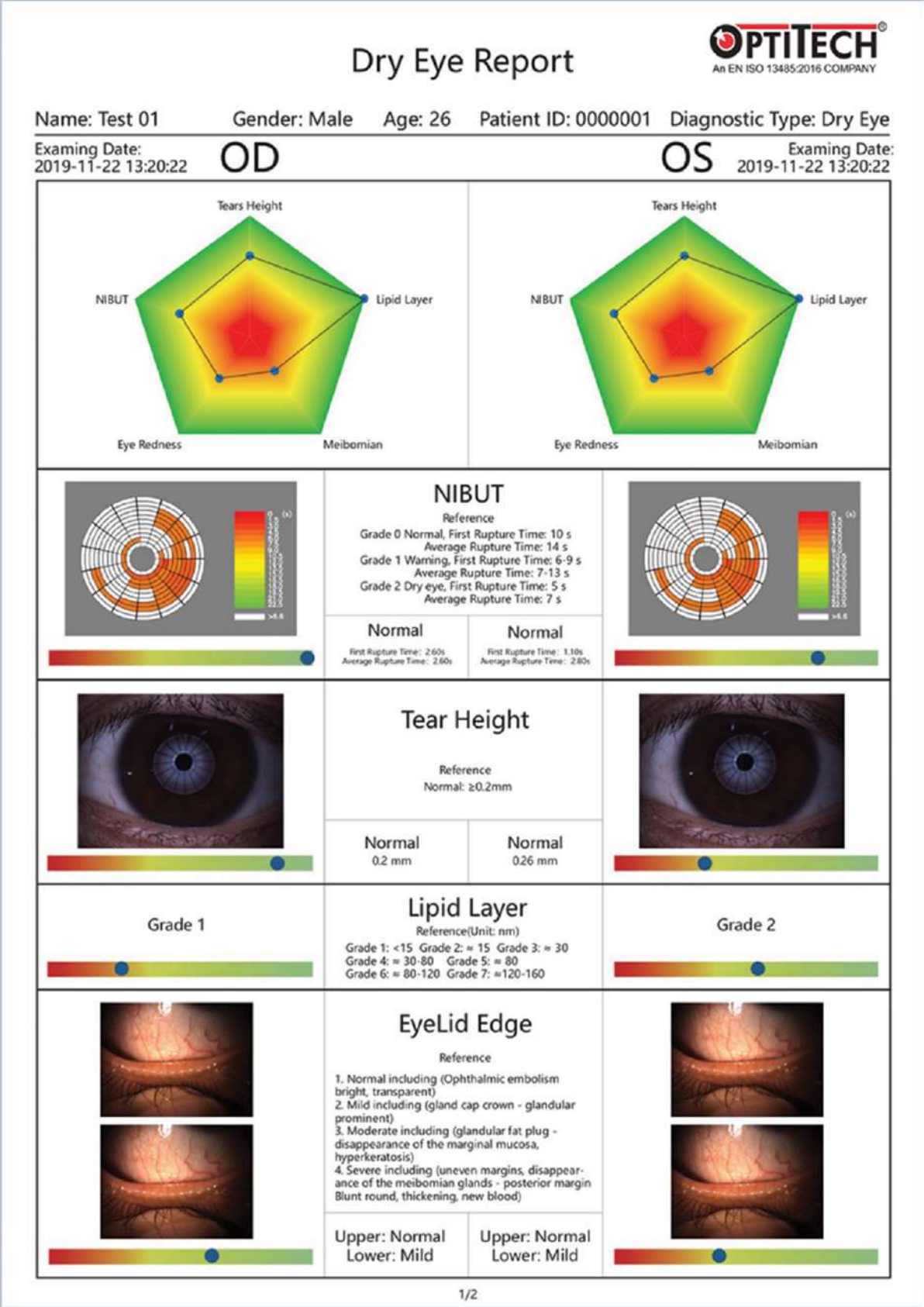
Effectively increases positive rate of early corneal epithelial staining.

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

DRY EYE COMPREHENSIVE
EVALUATION REPORT

SEEING IS
BELIEVING!

CONVENIENT MEDICAL CONSULTATION ON DRY EYE SYNDROME



SPECIFICATIONS

SEEING IS
BELIEVING!

	iS7 WITH DRY EYE MODULE
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	52 mm ~ 80 mm
Diopter Adjustment	-8 D ~ +8 D
Field of View	Ø36.2 mm, Ø22.3 mm, Ø14 mm, Ø8.9 mm, Ø5.7 mm
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° ~ 18°
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	
Input Voltage	~ 110V ~ 220V
Input Frequency	50Hz/60Hz
Power Consumption	1.2 A
Output Voltage	LED 3 V, Fixation 15 V
PACKAGING	
Dimension	770mm x 470mm x 570mm (L/W/H)
Gross Weight	23kg
Net Weight	17kg
SYSTEM SPECIFICATIONS	
Image Sensor	12 M Pixels
Photo Resolution	4056 x 3040
Format	JPEG
Video Resolution	2592 x 1944
Frame of Video	30 fps
Video Format	MP4 H.264
Exposure Mode	Automatic exposure
Transmission Interface	USB
COMPUTER SPECIFICATIONS	
PC configuration	i5 - 10500T 8 GB memory 256GB SSD + 1TB storage
Display	1920x1080 23.8 inch
PC system	Windows 10

OPTIONAL ACCESSORIES



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Tube



Applanation
Tonometer



Instrument Table



Diagnostic Lenses

DRY EYE MODULE

- Dry Eye Questionnaire
 - Fluorescein Breakup Time
 - Lipid Layer Thickness
 - Dry Eye Examination Report
 - Eyelid Margin
- Non-Invasive Tear Meniscus Height
 - Conjunctival Hyperemia Analysis
 - Corneal Fluorescein Staining
 - Non-invasive Tear Breakup Time
 - Meibomian Glands Function Evaluation



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