

dry eye part	DA-3 Standard DA-1 Standard	DA-3 Expert DA-1 Expert	DA-3 Scientific
NIBUT	Automatic	Automatic	Automatic
T M H	Manual	Manual /Auto	Manual /Auto
Lipid Layer Analysis	Manual	Auto Progress Analysis 10nm precision	Auto Progress Analysis 10nm precision
Ocular Redness Analysis	Manual	Manual /Auto	Manual /Auto
Gland Opening	Manual	Manual	Manual
Meibomian Gland	Manual	Manual /Auto	Manual /Auto
Corneal Staining	Manual	Manual /Auto	Manual /Auto
Questionnaire	3 types	3 types	3 types
Report	Comprehensive/Single Item	Comprehensive/Single Item	Comprehensive/Single Item

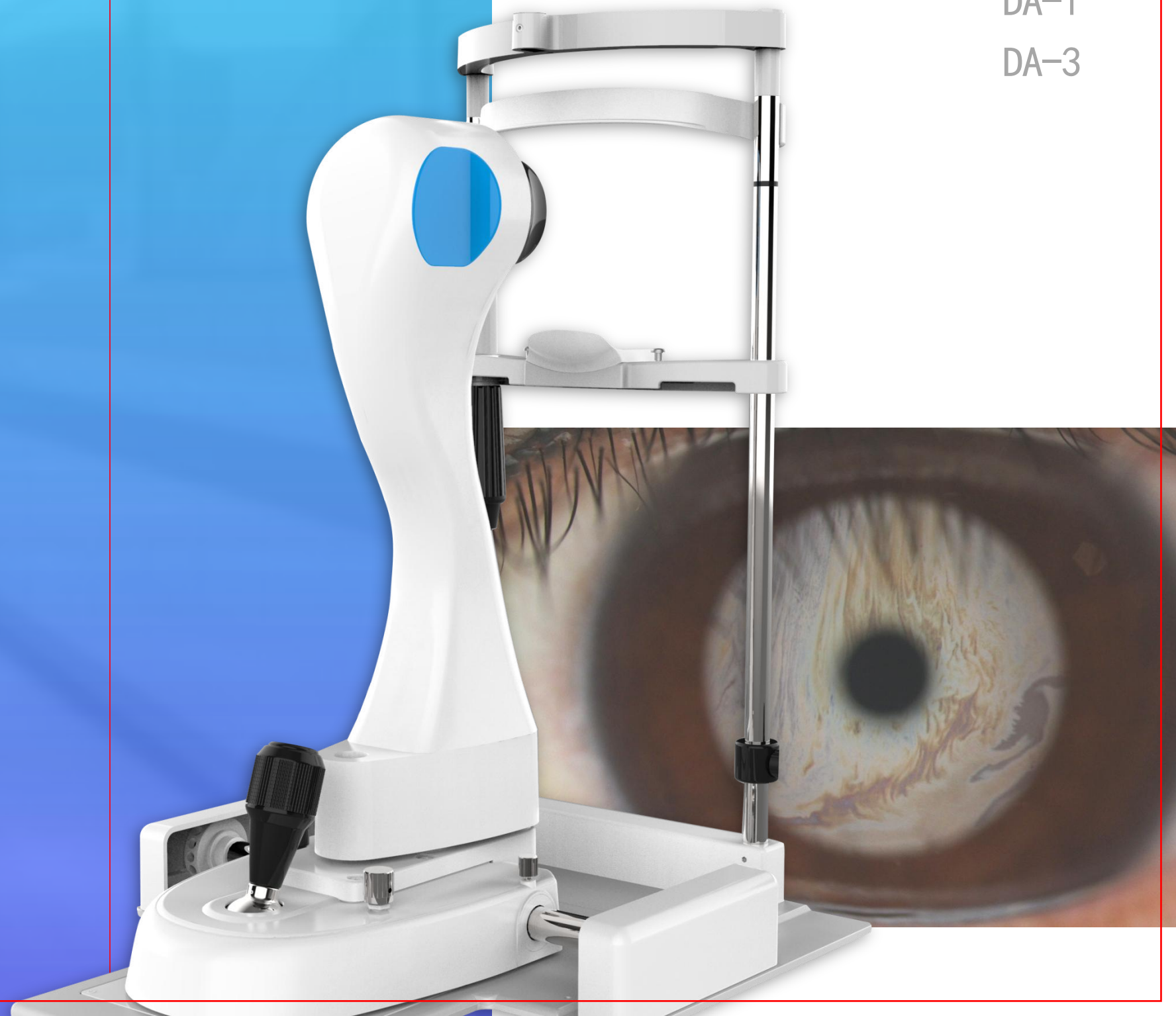
Slit Lamp part	DA-1 parameters
Optical resolution	Resolution for observation of endothelial cells
Spot Size	φ0.2, φ1, φ2, φ5, φ10, φ15
Color filter	Heat absorbing, Grey filter, Red-free filter, Cobalt blue filter, Yellow filter
Light source	Imported warm LED
Joystick operation	Flexible slider design
Aperture	5-gear front aperture



Ocular Surface Analyzer

DA-1

DA-3



Comprehensive and professional dry eye examination and diagnosis program

Almighty

Support 7 items of dry eye detections to provide reliable basis for clinical diagnosis

Automatic

Full-automatic software analysis
+ Quantification of testing standards easier diagnosis by doctors

AI

Using AI algorithm to analyze images and videos, high precision and good repeatability

Detailed

The test report with pictures and texts , report clearly and in detail.

Non-invasive

Non-invasive inspection method
safer operation
patient comfort easier coordinate

7 minutes

A full set of dry eye examinations can be completed within 7 minutes

DA-1

High-end digital slit lamp
equipped with professional dry eye module
Multi-purpose machine

Excellent optics of slit lamp
Humanized operation
Simple operation and obtain professional shooting photos

DA-3

Professional dry eye exam and analysis equipment
Compact size, more convenient operation
Create professional dry eye diagnosis immediately
Professional CCD collector, clear observation of acinar and gland openings
Greater depth of field, uniform and clear photos



Start a comprehensive
dry eye examination

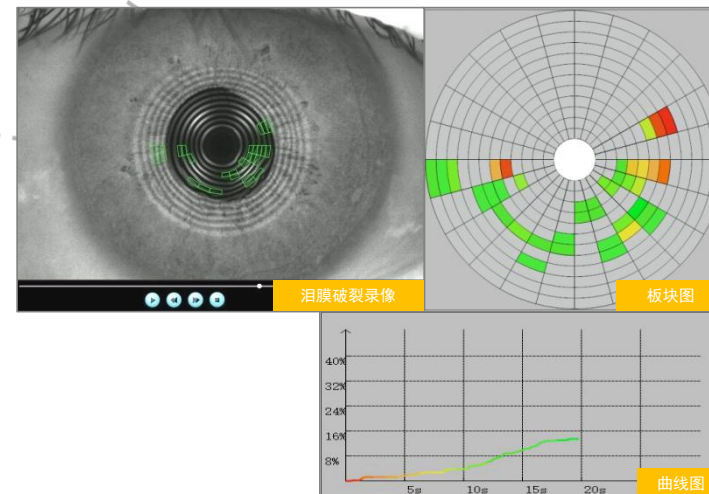
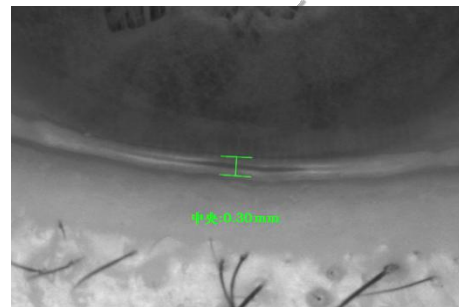
T M H

AI auto identification, auto measurement

Eliminate the tedious manual measurement
process, and the results are more accurate

Support manual measurement

Support infrared, visible light optional



NIBUT

AI auto quantitative analysis

Using advanced AI algorithms to analyze the shape of
the Placido ring

Analytical results are accurate and had excellent
repeatability

All-round

Provides first and average break time, tear film break
diagrams, and graphs to display the situation of tear film
break in all round.

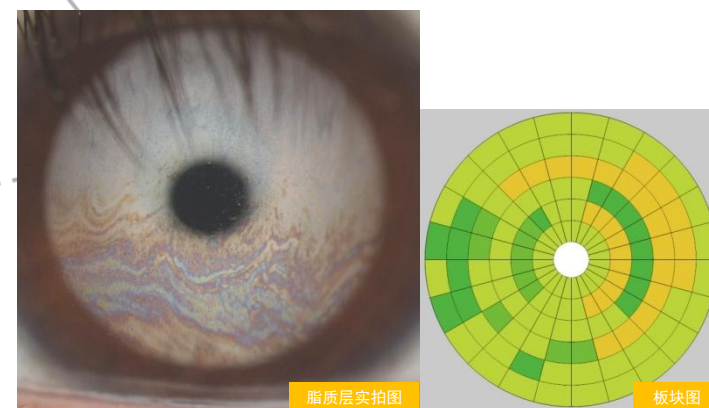
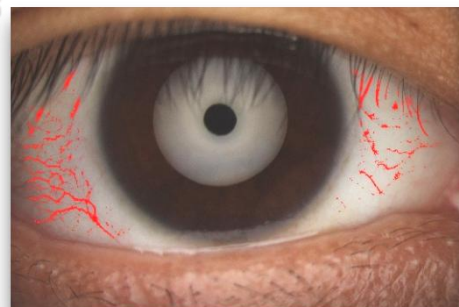
Ocular Redness Analysis

AI auto quantitative analysis

Provides quantitative analysis and ocular
redness score

Provide conjunctiva, ciliary
enhancement map, contrast map

Support manual grading



Lipid Layer Analysis

White ring design

The white ring projection can completely present the true
color and shape of the lipid layer.

Analysis of lipid layer progression

Provides data on lipid layer flow in multiple blinks
and provides graphs for a comprehensive and
objective assessment of lipid layer status

AI auto quantitative analysis

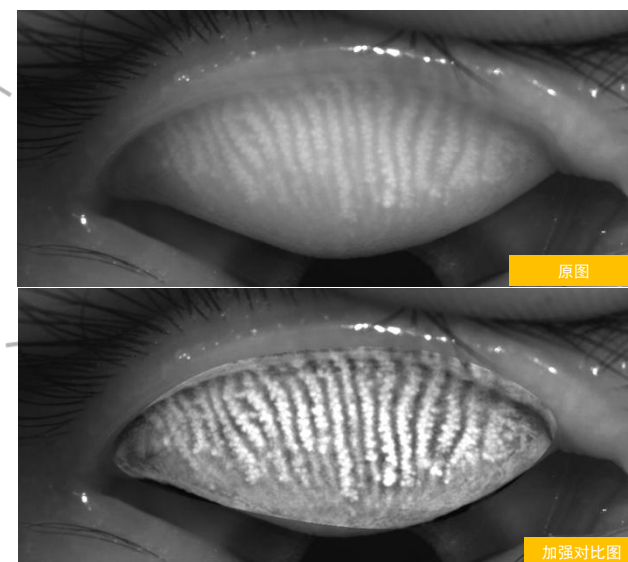
lipid layer thickness measurement can be accurate to
10nm.

Gland Opening

HD eyelid image

Can clearly obtain the overall shape
of the eyelid margin

Image with subtle changes in gland
openings



Meibomian Gland Imaging Analysis

HD images

Professional infrared imaging can clearly observe the
morphology of the meibomian acini

AI auto quantitative analysis

Support auto identification, strengthen the contrast of
glands, and quantitatively calculate the missing ratio of
meibomian glands

Support manual grading

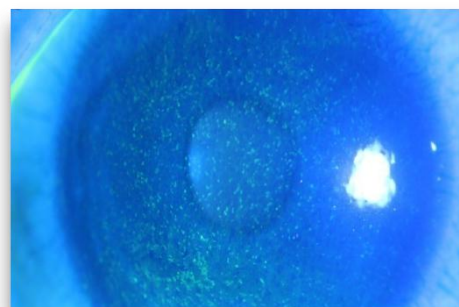
Corneal Staining

Professional yellow filter

Professionally designed yellow color filter
with obvious fluorescence effect

AI auto quantitative analysis

Support manual grading



End the whole process
easily

Dry eye project inspection report

Rich in content 7 items of dry eye examination data are fully displayed on one report.

Be clear at a glance Sufficient image and data combination , clear and detailed display of inspection results.

Multiple templates Support single report, any combination of multiple projects.

Comprehensive examination report of ocular surface in XXXX hospital

Number : 20210402481017 Name : XXX Sex: Male Age : XX Vision:R : L :						
	OD	OS	OD	OS		
N I B U T			First time : 4.33s	First time : 4.33s		
			Average : 4.33s	Average : 7.00s		
			Normal: first> 10s, average> 14s; critical: first ≥ 6-9s, average ≥ 7-13s; dry eye: first <5s, average <7s			
T M H			Central : 0.19mm	Central : 0.25mm		
			Average : 0.19mm	Average : 0.25mm		
[Infrared light] Normal: >0.2mm, mild: <0.2mm, moderate: <0.1mm, severe: unable to measure [Visible light] normal: >0.35mm, reduced tear secretion: <0.35mm						
L i p i d L a y e r			Average : 30-80nm	Average : 30-80nm		
			Highest : 120-160nm	Highest : 120-160nm		
			Lowest : < 30nm	Lowest : < 30nm		
Reference: 120-160nm 80-120nm ≈80nm 30-80nm ≈30nm <30nm						
O c u l a r r e d n e s s			Nasal : 1.5分	Nasal : 1.4分		
			Bitamporal : 0.7分	Bitamporal : 0.9分		
Ocular Redness Score 0 point: No hyperemia ; 1 point: Mild; 2 point: Moderate; 3 point: Heavy; 4 point: Severe						
E y e l i d			Score : 1.0 point	Score : 1.0 point		
			Score : 1.0 point	Score : 1.0 point		
Score 0 point: Normal ; 1 point: Gland mouth covered with fat cap ; 2 point: heave or stenosis of obstruction within the opening ; 3 point: Severe blockage or glandular mouth atrophy						
I b o m i a n g l a n d m a g i n g			Deficiency : 26% Score : 0.7分	Deficiency : 8% Score : 0.2分		
			Deficiency : 8% Score : 0.2分	Deficiency : 12% Score : 0.3分		
Deficiency score 0 point: no deletion ; 1 point: deletion < 33% ; 2 point: deletion 34%-66% ; 3 point: deletion ≈67% Deficiency Level: 0-3, the higher the value, the more obvious the deficiency is						
C o r n e a l s t a i n i n g			Degree : 1.0分	Degree : 1.0分		
			Range : 1.0分	Range : 1.0分		
Degree 0point: no staining ; 1point :Microscopic staining ; 2 point :Thick epithelial detachment ; 3point :corneal epithelial erosion ; 4 point :fate diffuse staining Range 0 point: no loss ; 1point:epithelial deletion Involved 1 quadrant ; 2point:Involved 2 quadrants ; 3point:Involved 3 quadrants ; 4points: Involved central of the cornea						
Check date : 2021-04-02			Check doctor : XXX			

