

Digital slit lamp Dry eye diagnostic analyzer

LS-7DS + DRY EYE MODULE



Excellent optical effect Humanized design for operation Simple operation for professional shooting effect

• Illumination system

Warm LED light source
50,000 hours of long life, no need to replace the light source regularly;
Warm light source is suitable for observing eye tissues and lesions.

PWM Light control method
The special PWM pulse width modulation technology is adopted to adjust the brightness and color temperature of the light source to be always stable, ensuring the true colors observed.

Base stepless dimming
The brightness adjustment knob is designed on the base, and the brightness of the light source can be adjusted with one hand when operating the handle;
stepless dimming design, the brightness is as you want, and it can move as you need.

Filter infrared, ultraviolet design
Specially designed with infrared filter and ultraviolet filter optical lens, fully protect the eyes of the examinee and the examiner.

• Aperture design

Provides 5 different aperture sizes, which can effectively expand the depth of field obtained by the picture, and the richer the information displayed in the picture.

• Embedded adaptive software system

Adaptive parameter design, no need to adjust the exposure, ISO, shutter speed and other parameters, one-click shooting can also get high-quality shooting effects.
Embedded software, simple operation and more stable software.

• The main parameters of the slit lamp

Optical effect	Cell-level observation and high resolution
Optical design type	Parallel angle type
Magnification Changer	Revolving drum
Eyepiece Magnification	12.5X
Magnification	6.3X , 10X , 16X , 25X , 40X
Visual Field Diameter	6.3X:31mm ; 10X:22mm ; 16X:14mm ; 25X:8.5mm ; 40X:5.5mm
Slit width	0mm-15mm
Slit height	1mm-15mm
Spot diameter	φ0.2 , φ1 , φ2 , φ5 , φ10 , φ15
Filter	Heat insulation, light reduction, red-free, cobalt blue
Light source control	PWM pulse width modulation
Light Source	Imported warm LED
Filter	Filter infrared and ultraviolet
Handle operation	Slider flexible design
Aperture position	Split optical path front
Background illumination	Co-axial

Wonderful Clinical Reports

Delicate and clear , Even subtle lesions in difficult locations can be clearly captured



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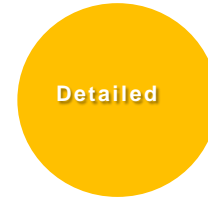
Comprehensive and professional dry eye examination and diagnosis program



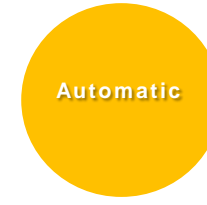
With 7 methods of dry eye detection functions to provide reliable basis for clinical diagnosis



Non-invasive inspection method, safer operation, patient comfort and easy cooperation



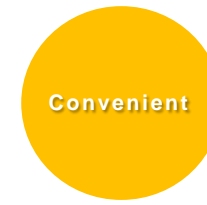
The test report with pictures and texts, the test results are clear and in detail



Fully automated software analysis+ Quantification of testing standards, easier diagnosis by doctors



A full set of dry eye examinations can be completed in 7 minutes, effectively improving outpatient efficiency



Convenient patient management system, which can continuously record the development of patients

• Main functions of dry eye module

Questionnaire	two types	Gland Opening	HD eyelid image
TMH	Optional infrared light/ visible light measurement. Can provide central, average TMH	Ocular Redness analysis	HD eye surface image Automatically recognize blood vessels Automatic ocular redness analysis scoring
NIBUT	Provide first, average break-up time. Automatic analysis	Meibomian Glands Imaging analysis	Acinar-level HD image Automatically analyze the deficiency rate and score
Lipid Layer analysis	Use a constant and uniform light source to detect Provide the highest, lowest and average thickness values Automatic analysis	Corneal Staining analysis	Professional fluorescent corneal stain image Automatic analysis

Dry eye diagnostic 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.

Comprehensive examination report of ocular surface in XXXX hospital

Number : 20210402481017 Name : XXX Sex: Male Age : XX Vision:R : L :

	OD	OS	OD Analysis result	OS
NIBUT			First time : 4.33s Average : 4.33s	First time : 4.33s Average : 7.00s
Normal: first> 10s, average> 14s; critical: first ≥ 6-9s, average ≥ 7-13s; dry eye: first < 5s, average < 7s				
TMH			Central : 0.19mm Average : 0.19mm	Central : 0.25mm Average : 0.25mm
[Infrared light] Normal: >0.2mm, mild: <0.2mm, moderate: <0.1mm, severe: unable to measure [Visible light] normal: >0.25mm, reduced tear secretion: <0.35mm				
Lipid Layer			Average : 30-80nm Highest : 120-160nm Lowest : < 30nm	Average : 30-80nm Highest : 120-160nm Lowest : < 30nm
Reference: 100-150nm 40-120nm 10-60nm 10-80nm 10-30nm <30nm				
Ocular redness			Nasal : 1.5分 Bitemporal : 0.7分	Nasal : 1.4分 Bitemporal : 0.9分
Ocular Redness Score 0 point: No hyperemia ; 1 point: Mild; 2 point: Moderate; 3 point: Heavy; 4 point: Severe				
Eyelid			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				
Meibomian gland imaging			Deficiency : 26% Score : 0.7分	Deficiency : 8% Score : 0.2分
Deficiency score: 0 point: no deflection ; 1 point: deflection < 33% ; 2 point: deflection 34%-66% ; 3 point: deflection > 67% Deficiency Level: 0-5, the higher the value, the more obvious the deficiency is				
Corneal staining			Degree : 1.0分 Range : 1.0分	Degree : 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: striae diffuse staining Range: 0 point: no loss ; 1point: epithelial deflection involved 1 quadrant ; 2point: involved 2 quadrants ; 3point: involved 3 quadrants ; 4point: involved central of the cornea				
Check date : 2021-04-02			Check doctor : XXX	