

Comprehensive Analysis Report

The software automatically generates a full display of the results.

The inspection results automatically generate a report *, which does not need to be filled in manually by the operator. Illustrated with pictures and texts, it is clear at a glance, simplifying the operation process and facilitating communication between doctors and patients.

Comprehensive Analysis Report

Name: James Sex: Male Birthday: 1988-7-18 Age: 32 Serial: 001 ExamID: 20200723004S
Date: 2020-07-23

	R	L	Reference value	
TMH			R: 0.15mm	L: 0.16mm
			Reference: Infrared >= 0.2mm Visible >= 0.3mm	
NIBUT			R: BUT(1st): 2.20s	BUT(avg.): 3.60s
			Observation time: 8.30s	
Lipid layer			L: BUT(1st): 0.50s	BUT(avg.): 4.30s
			Observation time: 8.20s	
R-Scan			R: Level: 3	L: Level: 2
			Reference Level 1:<15nm; Level 2:=15nm; Level 3:=30nm; Level 4:[30-80nm]; Level 5:=80nm; Level 6:[80-120nm]; Level 7:[120-160nm]	
Gland opening			R: Conjunctival level: 1.08	L: Conjunctival level: 1.44
			Ciliary level: 0.75	Ciliary level: 1.14
MGD			R: Upper: Mild	L: Upper: Mild
			Lower: Mild	Lower: Mild
			R: Upper: 1.30	L: Upper: 1.00
			Lower: 0.80	Lower: 0.30

Doctor:
2020-07-23 15:28

* The comprehensive report provides comprehensive inspection data, while the sub-report presents detailed and detailed images.

Dry eye	Placido ring (23-ring)	Wireless
	TMH	Optical Zoom
	Nun-invasive tear film break-up time	The first/average rupture time is automatically calculated if the rupture time of non-invasive tear film is ≤ 25 seconds.
	Lipid layer grade evaluation	infrared meibomian gland imaging, score quantitative deletion range , Optical zoom of degree image
	Quantitative analysis of Meibomian	Infrared meibomian imaging, score quantification, image optical zoom
	Analysis of eyelid margin	Optical zoom of morphological grading images of meibomian gland orifice
	R-scam	The analysis is automatically graded to evaluate the degree of ciliary and conjunctival congestion.
	Examination of dry eye complications	☆
Optics	Ratio 6 × 10 × 16 × 25. 6 × 40 ×	☆
	Slit width 0 ~ 14mm	☆
	Slit height 1 ~ 14mm	☆
	Slit angle 0 ° ~ 180 °	☆
	Illumination inclination 5 ° 10 ° 15 ° 20 °	☆
	Diameter of diaphragm 0.2 ~ 14mm	☆
	Grey/heat absorpton/redfree/cobalt blue filter	☆
	Five-color cobalt blue filter combination	☆
Digital	Contrast enhancement filter	☆
	24 megapixel SLR camera	☆
	Auto exposure	☆
	Automatic optimization	☆
	Automatic eye position recognition	☆
	1080P dynamic video recording	☆

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SLM-3ER(D)
Anterior segment comprehensive analyzer (special for dry eye)

The specially designed dry eye device is wirelessly connected to the equipment host, with smooth operation and stable performance. The device has large light-passing aperture and high light efficiency utilization rate, which not only ensures the comfort of patients to successfully complete the examination, but also meets the requirements of measurement accuracy.

SLM-3ER(D)

Analysis of Comprehensive Dry Eye on Integrated Platform

Comprehensive dry eye examination

Tear meniscus height: Judge whether tear secretion is normal
Non-invasive Tear break-up Time Detection: Judging Tear Film Stability
Quantitative analysis of meibomian gland : To observe meibomian gland losses
Lipid Layer Grade Evaluation: Determine Lipid Layer Thickness
Eyelid margin analysis: Observe whether the gland opening is blocked or not
R-scan Analysis: Judging the Degree of Conjunctivitis

Comprehensive examination of anterior segment

Ocular surface lesion
Anterior segment lesion

Special dry eye device

The special mechanism for dry eye has large light-passing aperture, high light efficiency utilization rate, and low illuminance can meet the requirements of image definition and color restoration.
Pin-type plug-in port is wirelessly connected with the equipment host, so that equipment failure will not be caused by pulling, touching and scraping, and the operation is smoother and the performance is more stable.

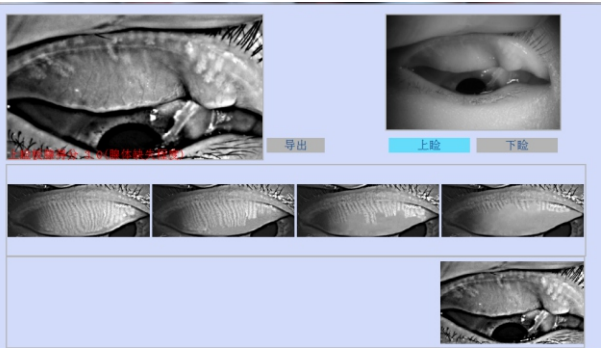
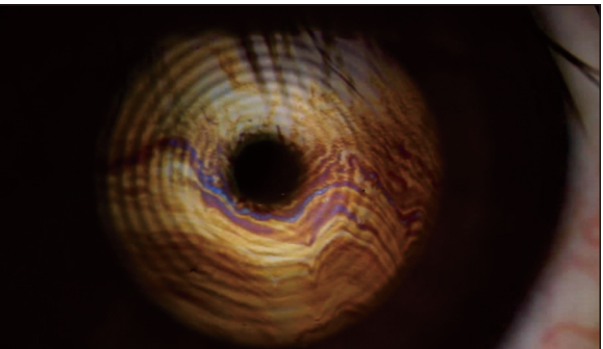
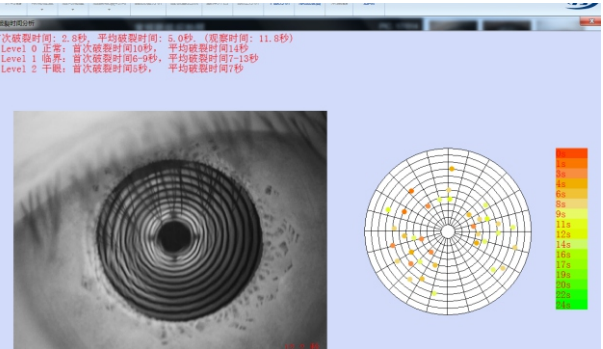
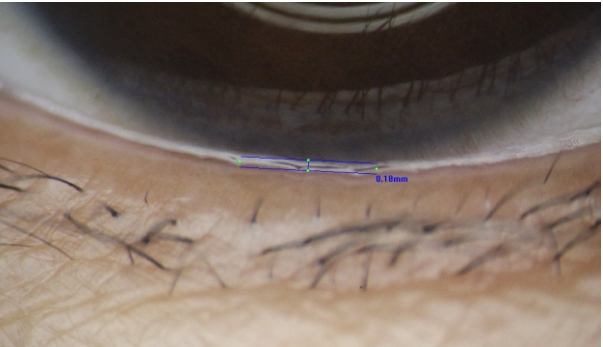
Applicable to multiple departments

Ocular surface: dry eye comprehensive examination, ocular surface lesions, anterior segment lesions
Optometry: Contact lenses and orthokeratology lenses
Refraction: pupil measurement, preoperative dry eye examination
Cataract: Preoperative Comprehensive Evaluation of Anterior Segment

Comprehensive examination of dry eye
Comprehensive Dry Eye Evaluation of Comprehensive Inspection Items



Comprehensive Examination of Dry Eye Comprehensive Examination Item Comprehensive Dry Eye Evaluation



Tear meniscus Height Measurement

Different from Schirmer test, SLM-KD2 not only shortens the measurement time by more than 10 times, but also has more accurate measurement results.
The dry eye device increases the light passing aperture, reduces the light energy loss and improves the image definition.
Combined with multi-stage optical zoom to support image enlargement to observe the morphology of lacrimal river. If lacrimal river is discontinuous or uneven, it can be examined in combination with conjunctival relaxation (dry eye complication) or eyelid margin abnormality (meibomian gland dysfunction).

Tear film break-up time

The main characteristic of dry eye is the imbalance of tear film steady state. SLM-KD2 quantitatively evaluates the steady state of tear film by identifying the ring image changes formed by dry eye device on the surface of tear film.
The dry eye device is facing the examined eye, the ring image is complete, and the ring image information near the nasal side is not lost, thus ensuring the integrity of the record.
Avoid the invasiveness of fluorescence staining measurement method and manual timing error, the result is more accurate, the operation process is simplified, and the comfort level of doctors and patients is improved.

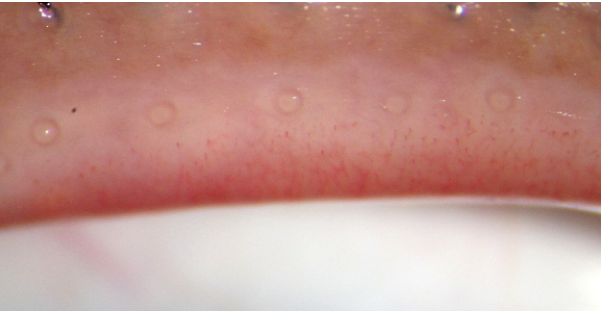
Lipid layer analysis

Through the comparison of standard templates, the thickness of lipid layer was evaluated, and the quality and quantity of lipid layer were analyzed. Combined with the analysis of meibomian gland and eyelid margin, MGD was comprehensively judged.
The specially designed dry eye device increases the light-passing aperture, reduces the loss of light energy, improves the imaging resolution and color restoration, and dynamically observes the coating morphology and process of lipid layer.

Analysis of meibomian gland

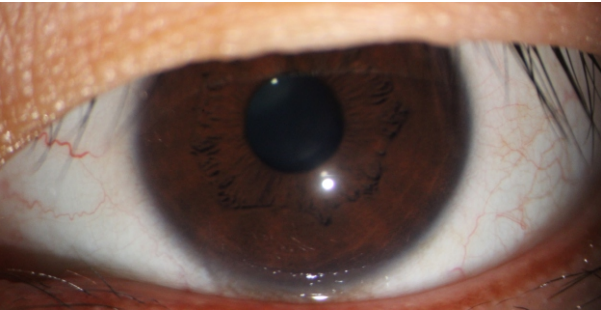
Infrared imaging technology combined with high-definition digital shooting directly reflects the deletion range of meibomian gland. The standard template was compared to obtain the deletion grade and objectively evaluate the deletion degree of meibomian gland. The optical microscopy system supports lossless magnification of images. The low-magnification image shows the distribution morphology of meibomian gland and the high-magnification image shows the details of acinar, which supports clinicians to treat the affected part immediately.

Comprehensive Examination of Dry Eye Comprehensive Examination Item Comprehensive Dry Eye Evaluation



Eyelid margin analysis

The change of eyelid margin is one of the typical signs of MGD, including the morphological change of eyelid margin and the change of meibomian gland orifice.
SLM-KD2 has a multi-stage optical zoom system to meet the observation requirements of eyelid margin morphological changes and meibomian gland orifice changes.
The overall morphology of the eyelid margin and the distribution of the gland orifice were observed at low magnification, while the details of the changes of the eyelid margin and the gland orifice were presented at high magnification, providing the most intuitive image basis for the diagnosis of eyelid margin abnormalities and even MGD.

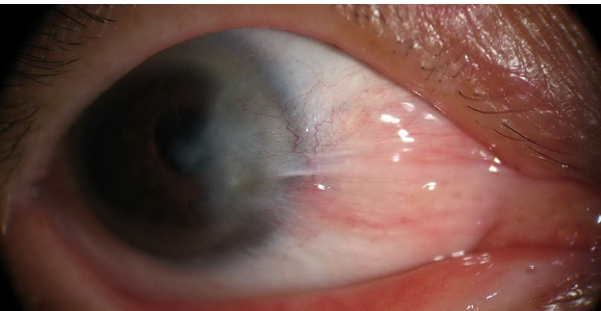


R-scan

Common red eye includes conjunctival congestion, ciliary congestion and mixed congestion, which are generally caused by dry eye or conjunctivitis. In dry eye examination, red eye is generally considered tear deficiency dry eye.
SLM-KD2 captures images through high-definition shooting, automatically quantifies conjunctival/ciliary congestion levels, and evaluates the severity of jealousy.
The unique optical zoom system supports nondestructive magnification of the image and clear and obvious vascular morphology.

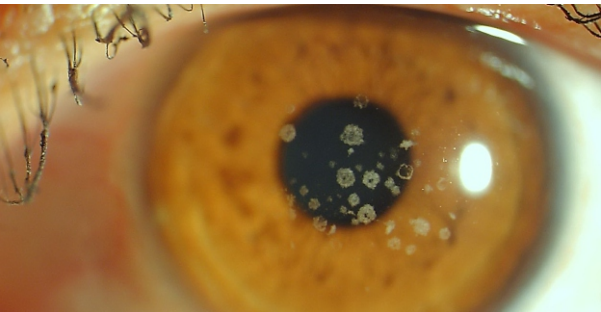
Anterior segment examination

More practical functions, more efficient checks



Complication examination

Without replacing equipment, ocular surface lesions caused by dry eye can be quickly examined, including corneal injury (scratches, keratitis, corneal ulcer, perforation), corneal nebula, conjunctival relaxation, etc., so as to improve diagnosis efficiency and patient comfort.
Binocular observation, stereo vision; Multi-stage optical zoom adjustment supports lossless enlargement of digital images; Built-in contrast enhancement filter makes lesion details more clear and accurate.



Anterior segment examination

To meet the needs of comprehensive analysis of dry eye, a comprehensive anterior segment examination is realized on the same machine, and the examination efficiency is improved.
Anterior segment examination includes but is not limited to: Ocular surface tissue lesions; Measurement of corneal transverse diameter, pupil diameter and lesion area; Keratopathy, Lens Lesion and Anterior 1/3 Lesion of Vitreous Body; Combined with other accessories, posterior vitreous and fundus examination can be carried out. Contact lens adaptation examination to identify contraindications to contact lens.