KANGHUA

SLM-6E

Ophthalmic Slit Lamp

Product Features

Optical microscopy combined with high-definition digital imaging to provide cell-level images.

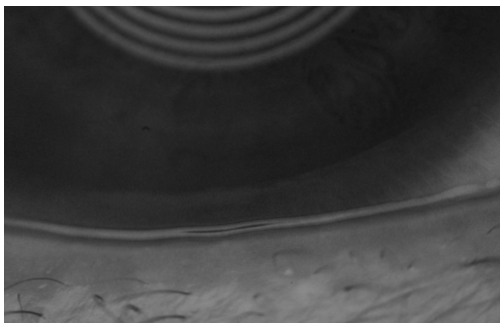
Non-irritating Infrared light illumination to ensure the accuracy of tear film measurement.

One-stop inspection for anterior segment, operate easily and high-efficiency

Comprehensive Analysis of the Ocular Surface Microenvironment

Tear Meniscus Height (TMH) Measurement

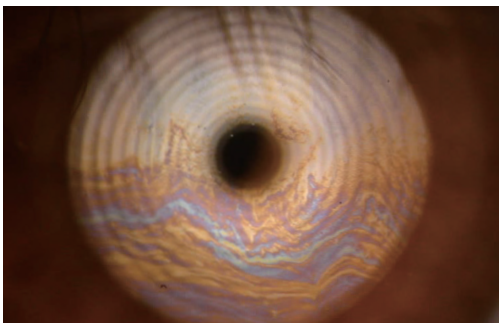
New!



High-definition imaging with infrared illumination: non-invasive and non-irritating, ensuring clear images to accurately reflect tear secretion.
Optional automatic TMH calculation: easy and convenient operation.

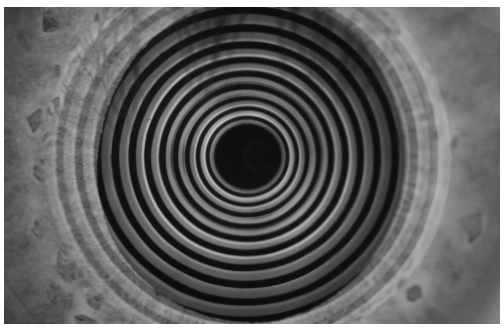
Lipid Layer Analysis

New!



Specialized interference illumination and imaging system for real-time monitoring of lipid layer color, flow, and uniformity.
Automatic lipid layer thickness calculation with 1 nm precision.
Blink assessment: records incomplete blinks to evaluate blink quality and identify dry eye caused by tear film dynamics abnormalities.

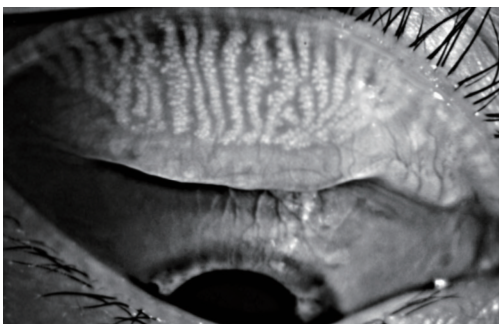
Non-invasive Tear Film Break-up Time (NIBUT) Measurement



Infrared illumination ensures a non-invasive, non-irritating, and smooth examination. High-definition video allows real-time monitoring of tear film changes, while automatic calculation of the first and mean break-up time provides objective and accurate assessments.

Meibomian Gland Analysis

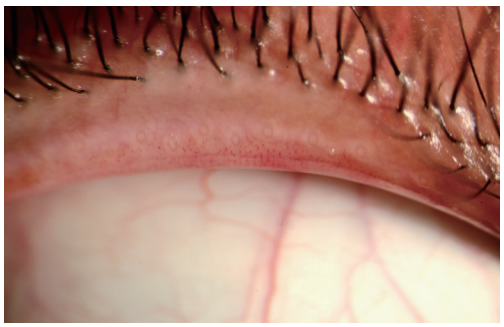
New!



Objectively assesses meibomian gland loss and evaluates dry eye caused by lipid abnormalities, supporting clinicians in the immediate management of meibomian gland conditions. Optionally, it can automatically calculate the proportion of meibomian gland loss.

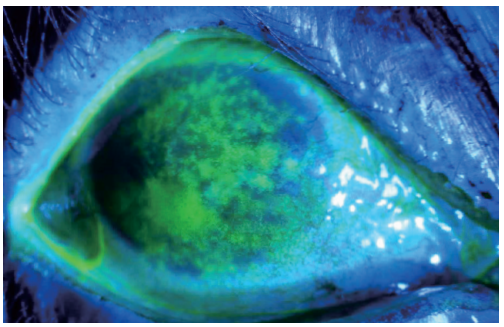
The device detects and analyzes tear film morphology and ocular surface signs through high-definition imaging, enabling the classification of dry eye into water-deficient, lipid abnormal, mucin abnormal, tear dynamics abnormal, or mixed types.

Eyelid Margin Analysis



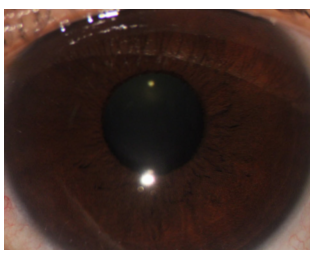
Provides clear assessment of changes in meibomian gland openings and eyelid margins using standard comparison charts, assisting in the diagnosis of dry eye caused by lipid abnormalities. Observes the morphology and expressibility of meibomian glands during gland compression through the eyepiece.

Corneal Staining Analysis



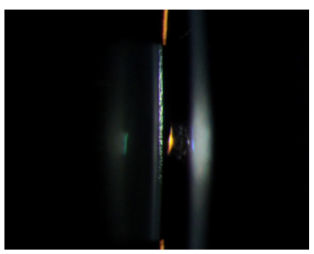
Evaluates the integrity of the corneal epithelium and assesses the severity of dry eye, providing a basis for diagnosing mucin-deficient dry eye. A specially designed yellow filter enhances image contrast under cobalt blue light, highlighting subtle corneal changes.

Eye Redness Analysis



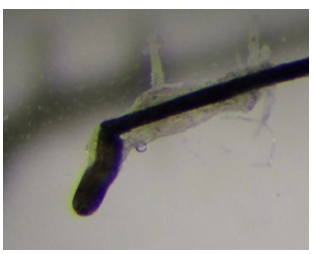
With high-definition optical imaging, the device provides enhanced discrimination of inflammation. It automatically quantifies conjunctival and ciliary congestion levels, helping to assess inflammation in other intraocular tissues.

Routine Ocular Surface Examination



Other routine slit-lamp examinations can be performed without changing equipment or parts, allowing rapid screening for additional ocular surface lesions caused by dry eye.

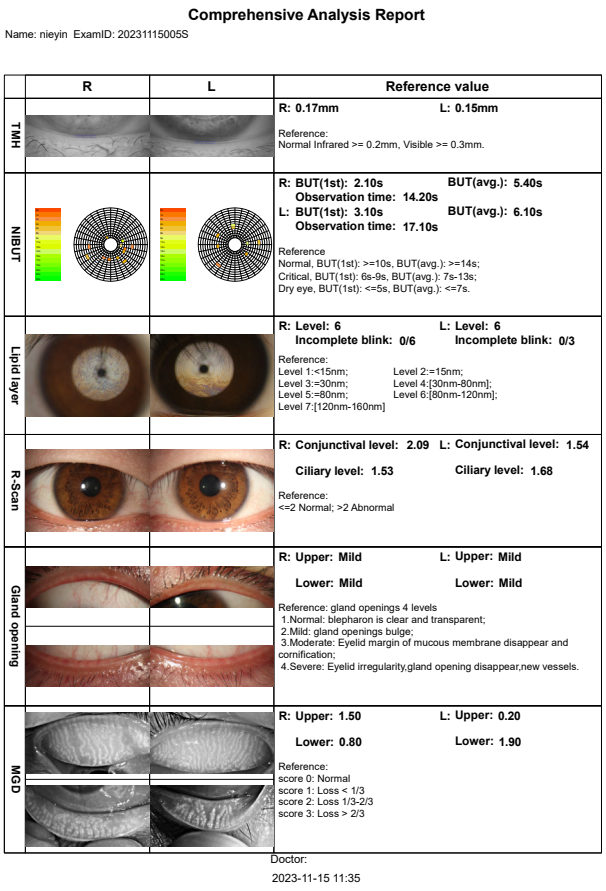
Optional Demodex Examination



Examines Demodex in eyelash follicles, assisting in the diagnosis of lipid-deficient dry eye. Replaces the traditional biological microscope, improving examination efficiency and reducing patient waiting time.

Clear And Illustrated Diagnostic Report

Automatically generates reports based on inspection results, eliminating manual entry and simplifying the workflow.
The reports include both illustrations and text, allowing doctors to clearly understand the patient's condition and communicate effectively.

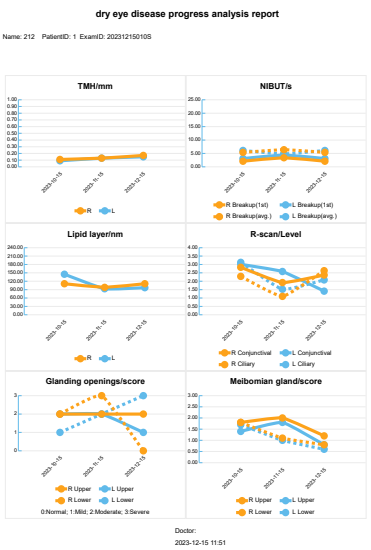


Comprehensive Analysis Report

Name: nieyin ExamID: 20231115005S

	R	L	Reference value
TMH			R: 0.17mm L: 0.15mm Reference: Normal Infrared >= 0.2mm, Visible >= 0.3mm.
NIBUT			R: BUT(1st): 2.10s BUT(avg.): 5.40s Observation time: 14.20s L: BUT(1st): 3.10s BUT(avg.): 6.10s Observation time: 17.10s Reference Normal, BUT(1st): >=10s, BUT(avg.): >=14s; Critical, BUT(1st): 6s-9s, BUT(avg.): 7s-13s; Dry eye, BUT(1st): <=5s, BUT(avg.): <=7s.
Lipid layer			R: Level: 6 L: Level: 6 Incomplete blink: 0/6 Incomplete blink: 0/3 Reference: Level 1:<15nm; Level 2:=15nm; Level 3:=30nm; Level 4:[30nm-80nm]; Level 5:=80nm; Level 6:[80nm-120nm]; Level 7:[120nm-160nm]
R-Scan			R: Conjunctival level: 2.09 L: Conjunctival level: 1.54 Ciliary level: 1.53 Ciliary level: 1.68 Reference: <=2 Normal; >2 Abnormal
Gland opening			R: Upper: Mild L: Upper: Mild Lower: Mild Lower: Mild Reference: gland openings 4 levels 1.Normal: blepharon is clear and transparent; 2.Mild: gland openings bulge; 3.Moderate: Eyelid margin of mucous membrane disappear and cornification; 4.Severe: Eyelid irregularity,gland opening disappear,new vessels.
MGD			R: Upper: 1.50 L: Upper: 0.20 Lower: 0.80 Lower: 1.90 Reference: score 0: Normal score 1: Loss < 1/3 score 2: Loss 1/3-2/3 score 3: Loss > 2/3

Doctor:
2023-11-15 11:35



dry eye disease progress analysis report

Name: 212 PatientID: 1 ExamID: 20231215010S

TMH/mm

NIBUT/s

Lipid layer/nm

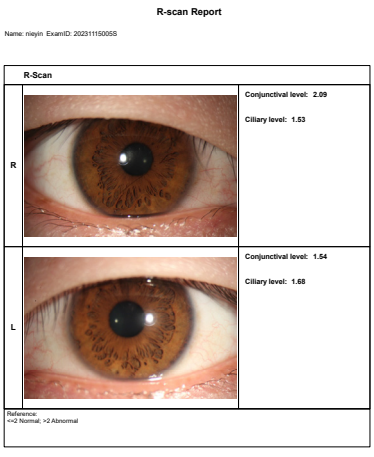
R-scan/Level

Glanding openings/score

Meibomian gland/score

0:Normal; 1:Mild; 2:Moderate; 3:Severe

Doctor:
2023-12-15 11:51



R-scan Report

Name: nieyin ExamID: 20231115005S

R-Scan

R — Conjunctival level: 2.09; Ciliary level: 1.53

L — Conjunctival level: 1.54; Ciliary level: 1.68

Reference:
<=2 Normal; >2 Abnormal

description

Doctor:
2023-11-15 11:36

The comprehensive report delivers detailed graphical and textual data, presenting individual examination results and image details in an itemized format.

Progress analysis reports track changes in various examination parameters over time.

	OPHTALMIC SLIT LAMP SLM-6E GALAXY	
Optics	Super Optical system	
	High sensitivity	
	High eye-point eyepiece	
	Magnification 6× 10× 16× 25× 40×	
	Built-in yellow filter	
	LED (white/infrared)	
Illumination	Slit width 0~ 14mm	
	Slit height 0.2 ~ 14mm	
	Slit angle 0°~ 180°	
	Slit Inclination Angle 5° 10° 15° 20°	
	Light Spot Diameter Φ0.2~ 14mm	
	Heat Absorption/ Grey/Red-free/Cobalt Blue Filters	
	Five-color cobalt blue filter combination	
	Contrast enhancement filter	
Digital	24- megapixel SLR camera	
	Automatic Optimization	
	Automatic eye position recognition	
	Coaxial background light	
	1080P dynamic video	
Dry eyes	**Placido disc**	
	Measurement ofTMH	Visible/infrared dual-mode imaging,image optical zoom Automatic/Manual Measurement of TMH
	Non-invasive tear breakup time (NIBUT)	Visible/infrared dual-mode video recording, Automatic calculation of first/average breakup time
	Lipid layer grade assessment	Template comparison and grading,marking the range of lipid layer thickness， Lipid layer thickness data; Incomplete blink
	Quantification of Meibomian Gland Loss	Infrared meibomian gland imaging, with scores quantifying the degree of loss; Automatic/Manual Marking Optical image zoom
	Eyelid margin analysis	Meibomian gland opening morphology grading; Optical image zoom
	Red Eye Analysis	Automatic grading to assess the degree of ciliary and conjunctival congestion
	Demodex observation	Yes