

# TERA

Dry Eye Imager™

Automated to delegate testing.  
Designed to empower decisions.  
Optimized to drive treatment.



 **TOPCON** Healthcare

# OCULAR SURFACE EVALUATION

## CORNEAL ANALYSIS

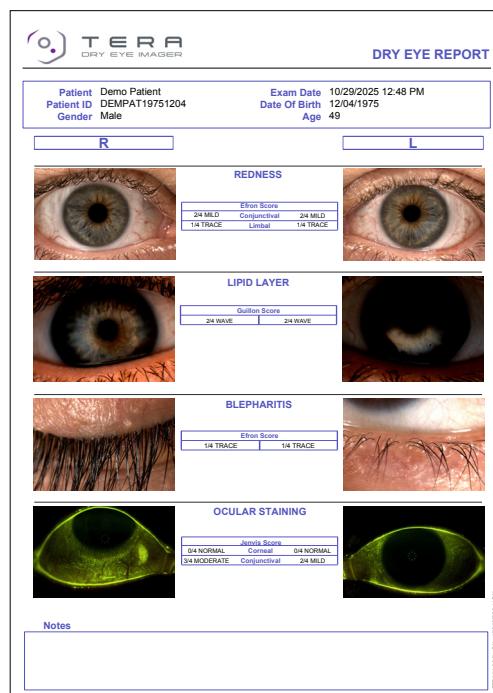
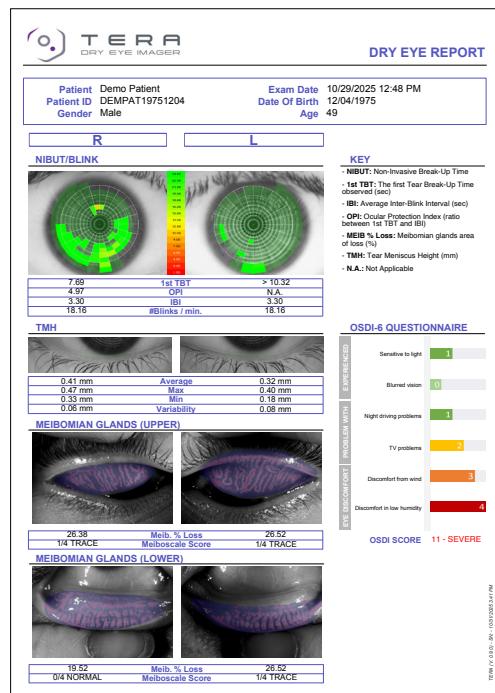
## PUPILLOMETRY

TERA is a multimodal platform powered by robotic automation and high-resolution imaging, purposefully built to support consistent capture, streamline workflow, and deliver data-driven insights in alignment with TFOS DEWS III\* recommendations for evidence-based dry eye management.

\*Tear Film & Ocular Surface Society – Dry Eye Workshop III



## EMPOWER CONFIDENT CLINICAL DECISIONS



- TERA delivers a clear, visual snapshot of diagnostic findings to support patient engagement and clinical confidence.

- The **TERA Dry Eye Report** consolidates multimodal imaging results, symptom questionnaires, and clinical grading scores into a comprehensive overview — simplifying documentation, monitoring progression, and supporting personalized treatment planning.

## TERA FEATURES



Corneal Topography,  
Aberrometry, & White-to-  
White Measurements



Dynamic and Static  
Pupillometry

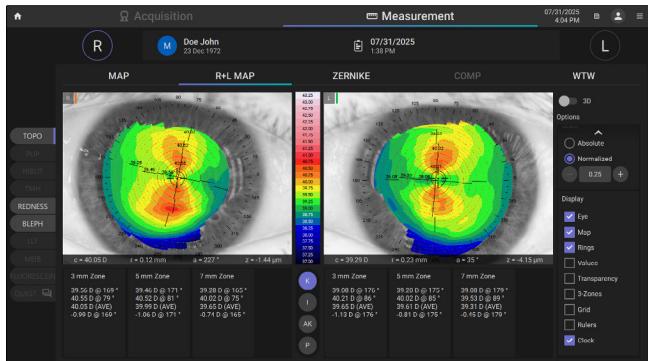


Non-Invasive Tear  
Break-Up (NIBUT) and  
Blink Analysis

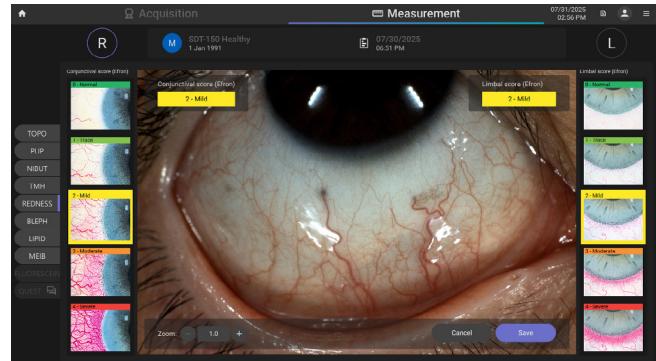


Tear Meniscus Height  
(TMH) Measurement

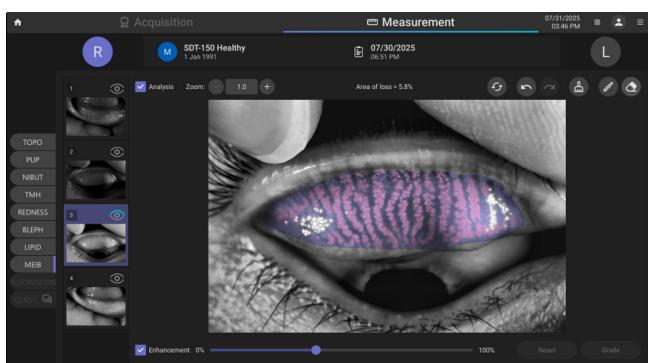
Capture and document the drivers of dry eye disease with high-resolution imaging and robotic precision



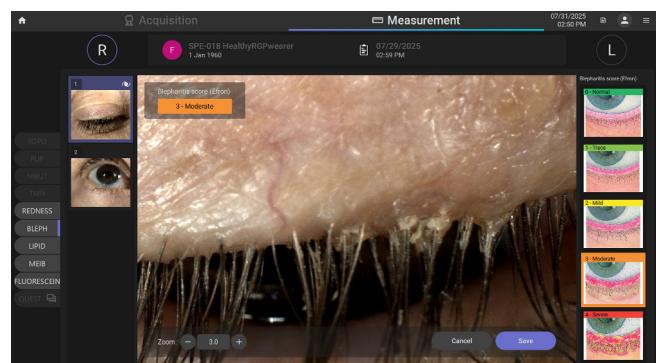
Delegate testing with one-touch automated alignment, focus, and capture for select tests.



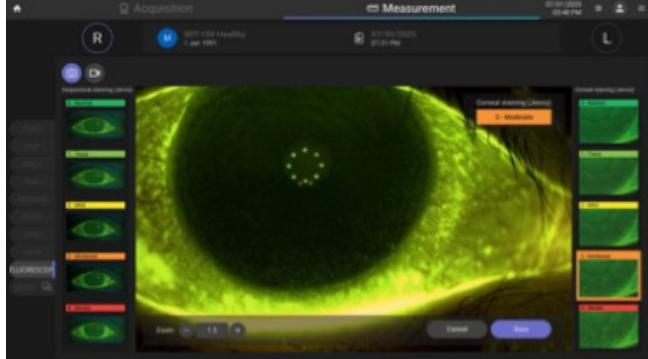
Capture high-resolution color images of the anterior segment for detailed ocular surface evaluation.



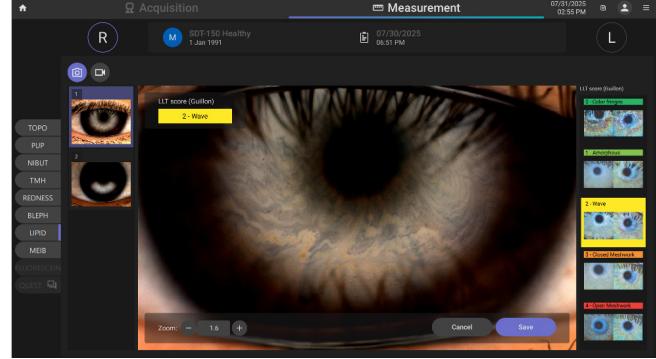
Acquire high-resolution meibomian gland images with optimized focus and evaluation of gland loss.



Apply clinically validated grading scales (e.g., Efron) and questionnaires recommended by DEWS III (e.g., OSDI-6) for consistent evaluation.



Obtain fluorescein images and videos to document ocular surface staining and assess severity using the Jenvis grading scale.



Leverage patented illumination technology for lipid layer assessment with comparison to the validated Guillon grading scale.



## Redness & Blepharitis Assessment



## Lipid Layer Assessment



## Meibomian Gland Imaging with Area of Loss Evaluation



## Fluorescein & Lissamine Green Imaging



## Dry Eye Questionnaires and Reports



## EFFORTLESS CAPTURE & REVIEW

TERA automates image capture and streamlines analysis, allowing technicians to efficiently collect consistent, high-quality results while maintaining smooth clinic flow.

Review and compare findings seamlessly using the **TERA Viewer**, companion review software that can be installed on any connected PC to visualize changes, track progression, and guide evidence-based treatment decisions.

## SPECIFICATIONS

FUNCTION	FEATURES	
<b>Corneal Topography and Keratometry</b>	Keratoscopic Cone: 22 + 2 rings equally distributed on a 43D sphere Analyzed Points: Over 100,000	Measured Points: Over 6,000 Corneal Coverage: Up to 9.5 mm on a sphere of radius 8 mm (42.2 D with $n = 1.3375$ ) Focus System: Manual and/or semi-automatic guided focus
<b>Integrated Features</b>	Pupillometry, Fluorescence, IBI Index (Inter-Blink Interval), Non-invasive Break-Up Time (NIBUT), Meibomian Glands, Tear Meniscus, Redness, Lipid Layer Assessment, Blepharitis Assessment, Lissamine Green Assessment	
<b>Information on Measurements</b>	<b>Measure</b>	<b>Measuring Range, Display Resolution</b>
	Keratometry - Curvature Radius	5.00 - 12.00 mm, 0.01 mm
	Keratometry - Curve Radius in Diopter (D) ( $n = 1.3375$ )	28.00 - 67.50 D, 0.01 D
	Pupil Dimensions	2.00 - 10.00 mm, 0.01 mm
	Limbus (White-to-White)	8.00 - 15.00 mm, 0.01 mm
	IBI Index	1.0 - 20.0 s, 0.1 s
	Break-Up Time (TBT)	0.5 - 30.0 s, 0.1 s
	Meibomian Glands Area of Loss	1 - 100 %, 1%
	Tear Meniscus Height	0.10 - 1.00 mm, 0.01 mm
<b>Environmental Conditions</b>		
	Temperature	10 °C (min), 40 °C (max) in use; -20 °C (min), 70 °C (max) in storage and transport
	Relative Humidity	8 - 75 % (non-condensing) in use, storage, and transport
	Atmospheric Pressure	800 - 1060 hPa in use; 700 - 1060 hPa in storage and transport
<b>On-Board PC Specifications</b>		
	Operating System	Windows 11 IoT Enterprise LTSC
	Processor	Intel N97
	RAM	8 GB
	Hard Disk	At least 500 GB
	External Connections	1 × USB 3.0, 1 × USB 2.0, 1 × 1 GB Eth
<b>Electrical Data</b>		
	Power Supply	100-120 / 200-240 VAC; 50/60 Hz
	Power Consumption	100 VA
	Fuse Type	5 × 20 mm ceramic, time-lag
	Fuse Value	T 3.15 A H 250 V
<b>Mechanical Specifications</b>		
	Width	332 mm
	Height	555 mm
	Length	552 mm
	Weight	19.0 kg

### VISIA IMAGING S.R.L.

Via Martiri della Libertà 95/e, 52027 San Giovanni Valdarno (AR), ITALY

### IMPORTANT

Subject to change in design and/or specifications without advanced notice. In order to obtain the best results with this instrument, please be sure to review all user instructions prior to operation. Medical device MDR Class IIa. Manufacturer: VISIA imaging S.r.l.

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