

One vision, Two sharp eyes with Our Innovation

TMS-5

Topographic Modeling System



- Anterior and posterior analysis of cornea
- Scheimpflug images without a darkroom
- With a very short image capture time of 0.5 seconds
- Comprehensive analysis applications
- Support of the conventional TMS exam data

TMS-5 SPECIFICATIONS

Measuring unit

Ring Topographer

Measurement type	Light cone
Measurement time	0.5 sec. / image (4 images maximum / each eye)
Ring numbers	25 or 31
Measurement range [mm]	5.5~10.0 (Spherical)
Measurement accuracy [mm]	±0.02 (Spherical)
Minimum /	
Maximum ring diameter [mm]	φ 0.35~10.7 / φ 0.45~11.7 (25 rings / 31 rings)
Minimum /	
Maximum ring diameter (43D) [mm]	φ 0.46~8.8 / φ 0.57~10.9 (25 rings / 31 rings)
Measurement points	6,400 / 7,300 maximum (25 rings / 31 rings)
Measurement points on a ring	256
Alignment	Manual with auto-correction
Image capturing	Auto / Manual

Slit scan image (Scheimpflug)

Measurement type	Scheimpflug
Scan speed	64 flames / 1.0 sec. (Default) 32 flames / 0.5 sec.
Observation range [mm]	13.6mm
Measurement points	40,960 maximum (640 points × 64 flames)
Image capturing	Auto / Manual
Alignment monitor	6.4 inches color LCD
Optical head	Front-rear: 50mm / Left-right: 90mm / Up-down: 40mm
Chin rest	70mm
Dimensions [mm]	268(W) × 513(D) × 505(H)
Weight [Kg]	19kg
Power source	AC100V to 240V 50/60Hz 110-130VA Class I Type B

PC minimum requirements

OS	Windows® XP Professional or Windows® 7 Professional
CPU	Intel® Core2 Duo processor or higher
Memory	4GB
Video	Video memory: 512MB / OpenGL supported graphic card / Resolution: 1024x768
Storage	HDD: 640GB / CD-RW
Ports	USB 2.0 / LAN (RJ-45)

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Introducing a highly sophisticated TMS with Scheimpflug technology

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TMS-5
Topographic Modeling System

Introducing a highly sophisticated device with Scheimpflug technology



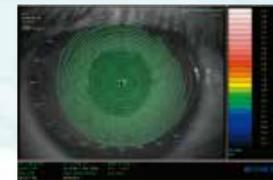
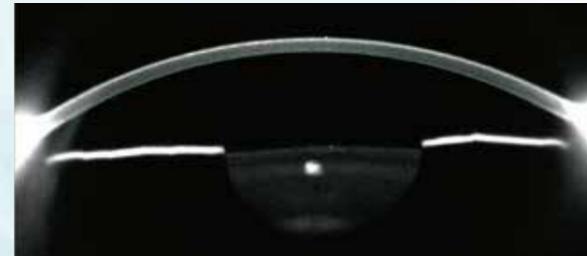
Rapid measurements with Scheimpflug

In the Scheimpflug mode, the TMS-5 can automatically capture multiple slices by focusing the alignment light on the center of the cornea as it does with Ring Topography. The time it takes to measure in this mode is approximately **0.5 to 1.0 seconds**. This is very similar to the measurement time of Ring Topography.



Scheimpflug Images without a darkroom

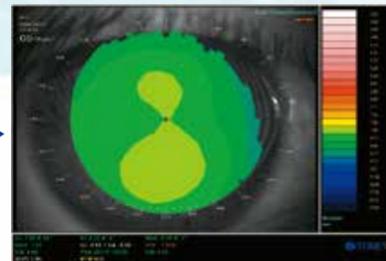
Since the slit light used in the Scheimpflug mode is emitted inside the cone, similar to the conventional TMS models, the TMS-5 is capable of capturing an image without a darkroom.



Ring-Topo image



Scheimpflug-Topo image



Merged-Topo image

Precise Analysis

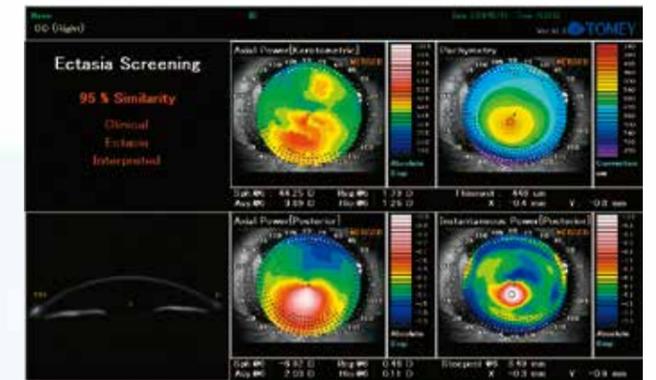
By merging both the Ring Topography and the Scheimpflug topography, more accurate and reliable results can be achieved. This method eliminates the mis-trace that you would sometimes see with the conventional TMS device.

New

Ectasia Screening

Ectasia Screening is an application useful in detecting ectasia pattern cases such as keratoconus and Pellucid marginal corneal degeneration.

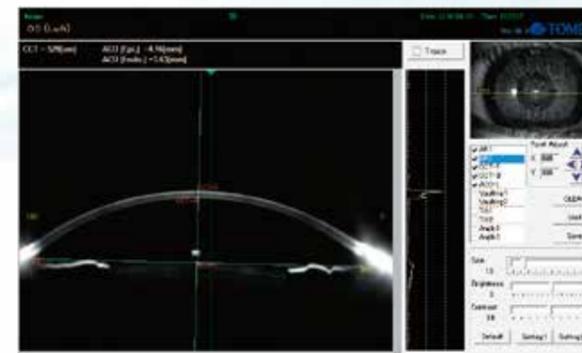
The front and rear of the cornea are analyzed and evaluated to check if there is a pattern unique to ectasia on the color map.



Slit calculation

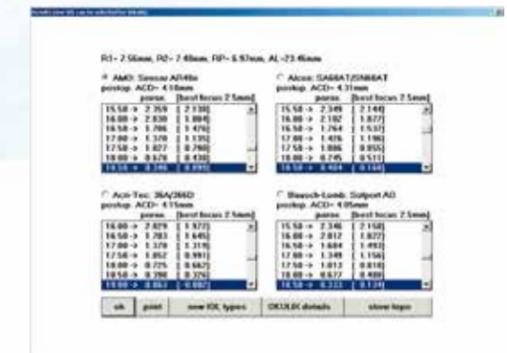
The slit display image allows you to observe the anterior segment of the eye.

Also ACD, CCT and angle are measurable in the slit image.

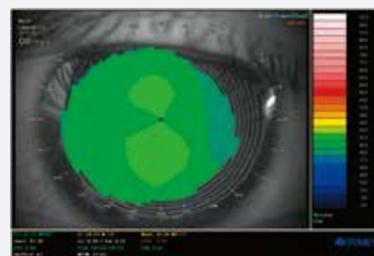


Advanced IOL calculation

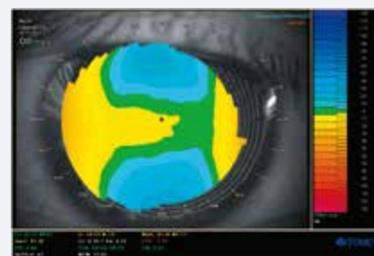
The TMS-5 plus OKULIX is a perfect combination for calculating the optical properties of the human eye utilizing numerical ray tracing. It allows a fast and easy selection of interocular lenses compared to the eye's axial length.



Comprehensive analysis applications



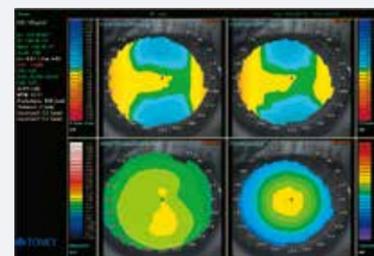
Real power map



Anterior and posterior elevation map



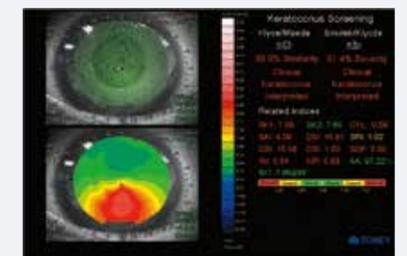
Pachymetry map



Multiple map



Fourier analysis map



Keratoconus screening