Specifications

MEASUREMENT PERFORMANCE		
Capturing scope (WxH)	0.25 x 0.54 mm	
Measurement range central corneal thickness	300 – 1000 µm	
Measurement accuracy central corneal thickness	±10 µm	

MAIN UNIT	
Display size	10.4" colour LCD
Dimensions WDH	309 x 491 x 450 mm
Weight	~ 22 kg
Voltage	100 VAC to 240 VAC
Frequency	50/60 Hz
Power consumption	100 VA

AUXILIARY FUNCTIONS

MEASUREMENT	
Measurement method	Non-contact
Number of fixation points	1 central + 12 peripheral
Number of images per examination	16

DATA MANAGEMENT

Built-in printer	Thermal printer
Internal database	SD card
Data output	USB-H, USB-D, LAN

ANALYSIS	
Analysis method	Automatic analysis (Trace r Core method, Dark Area ar
Output	Number (the number of cel CD (cell density) AVG (average cell area) SD (standard deviation of c Max (maximum cell area) Min (minimum cell area)
Histogram	Area (polymegathism: distr Apex (plemorphism: distrib shapes types)

Always read and follow the instructions for use. Not all products, services or offers are approved or offered in every market. Please note that the current status of approval for the labelling, instructions and content of the brochure may vary from one country to another.

Technology meets expertise

Non-contact examination, auto alignment and measurement, plus automatic analysis of the endothelium layer make working with the EM-4000 fast and precise.

- + Auto alignment and auto measurement
- + Integrated non-contact pachymetry
- + 13 measurement areas
- + Integrated database
- + L-count, Trace, Core method, Dark Area analysis
- + Counts more than 300 cells
- + Integrated printer



TOMEY GmbH is the European headquarters of TOMEY Corporation, 2-11-33 Noritakeshinmachi Nishi-Ku, Nagoya, 451-0051, Japan

stribution by areas), ribution by polygonal

TOMEY

STOMEY

SPECULAR MICROSCOPE EM-4000

EM-4000 Specular Microscope

You + eye. We care.



"THE EM-4000 IS AN AMAZING DEVICE THAT **GENERATES REPRODUCIBLE** ENDOTHELIAL CELL INFORMATION IN THE SIMPLEST WAY."

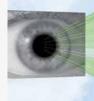
Noo Schmidt

HEAD OF PRODUCT MANAGEMENT/ R&D

EM-4000 Specular Microscope

Non-contact examination, auto alignment and measurement, plus automatic analysis of the endothelium of the cornea layer make working with the EM-4000 fast and efficient (four sec. for each eye). Thanks to our auto alignment technology, the reproducibility of the measured area and therefore the analysed values are very precise.





Effortless operation

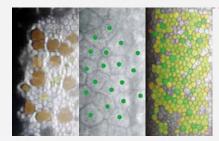
- Touch-screen operated
- Auto alignment per 1-2 sec
- Auto capture of 16 images
- Measurement of CCT
- Multi-fixation targets



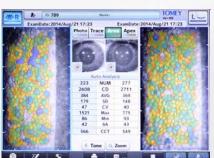


1 2/ E 1 2 3 4 5 6 7 8 🔳 Exam List





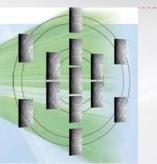




Standard dual-view

Cell size and shape • Area polymegathism • Apex pleomorphism • The early signs of change For more detailed information, please use single-view.

- Compare OS/OD
- Compare pre- and post-op



- **Complete corneal information**
- Central
- Paracentral
- Peripheral Clinical changes can appear in different cornea areas.



Preselection of best image

- Wide measuremend range
- High reproducibility
- Markable landmarks
- Auto contrast adjustment

Follow up in dual-view

Internal and external data • Export as PDF/JPG/DCM

Internal printer

- Compare right and left sides
- Follow up pre- and post-op: - Check "left" and "left" eye

Analysis options

- Trace method
- Dark Area analyses
- L-count method:
- Standardised area
- Standardised cell density
- Core method (center count)

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