

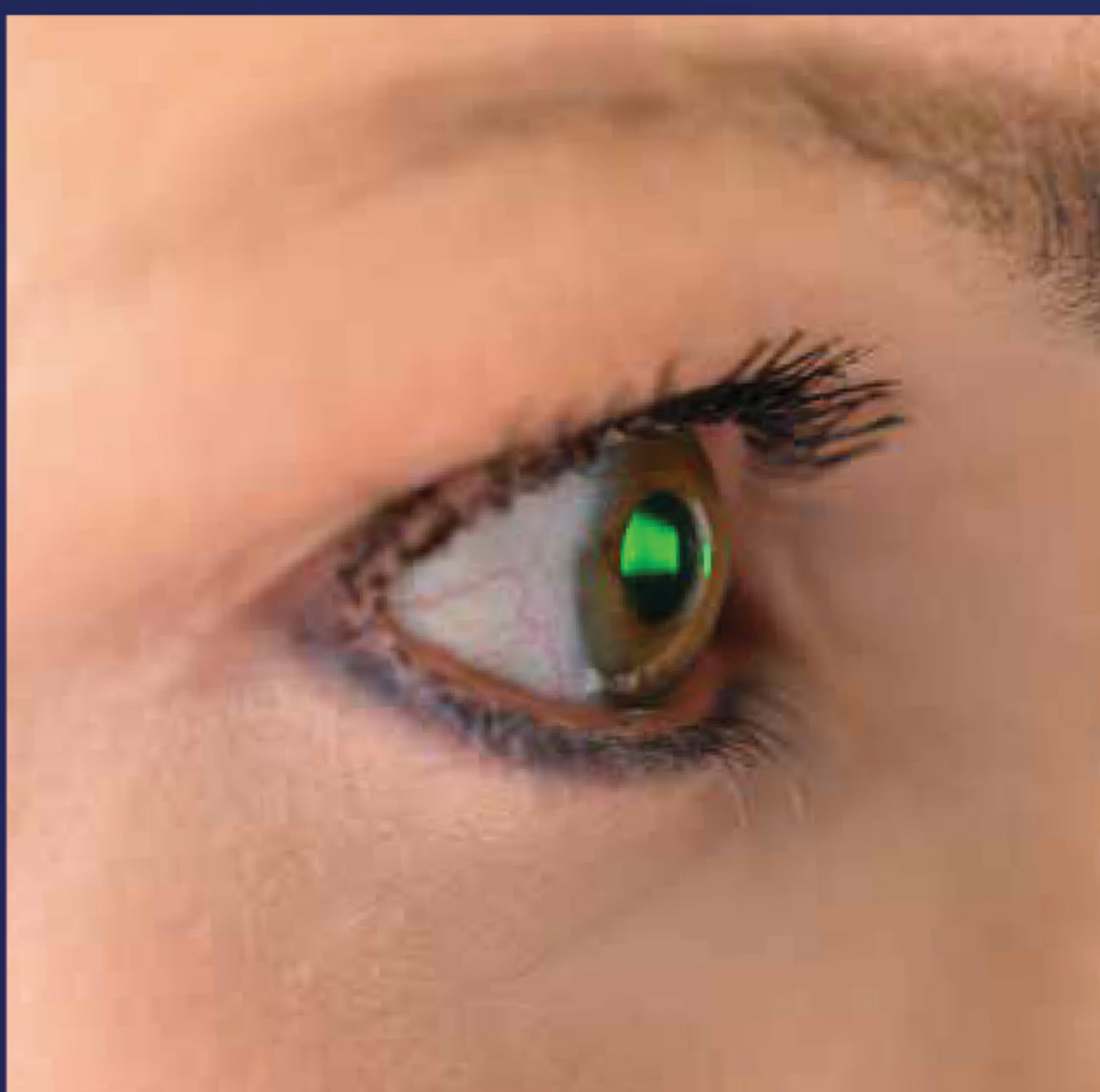


EM-4000

*Specular
Microscope*



You + eye.
We care.



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

Udo Schmidt

HEAD OF PRODUCT MANAGEMENT/
R&D



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



EM-4000

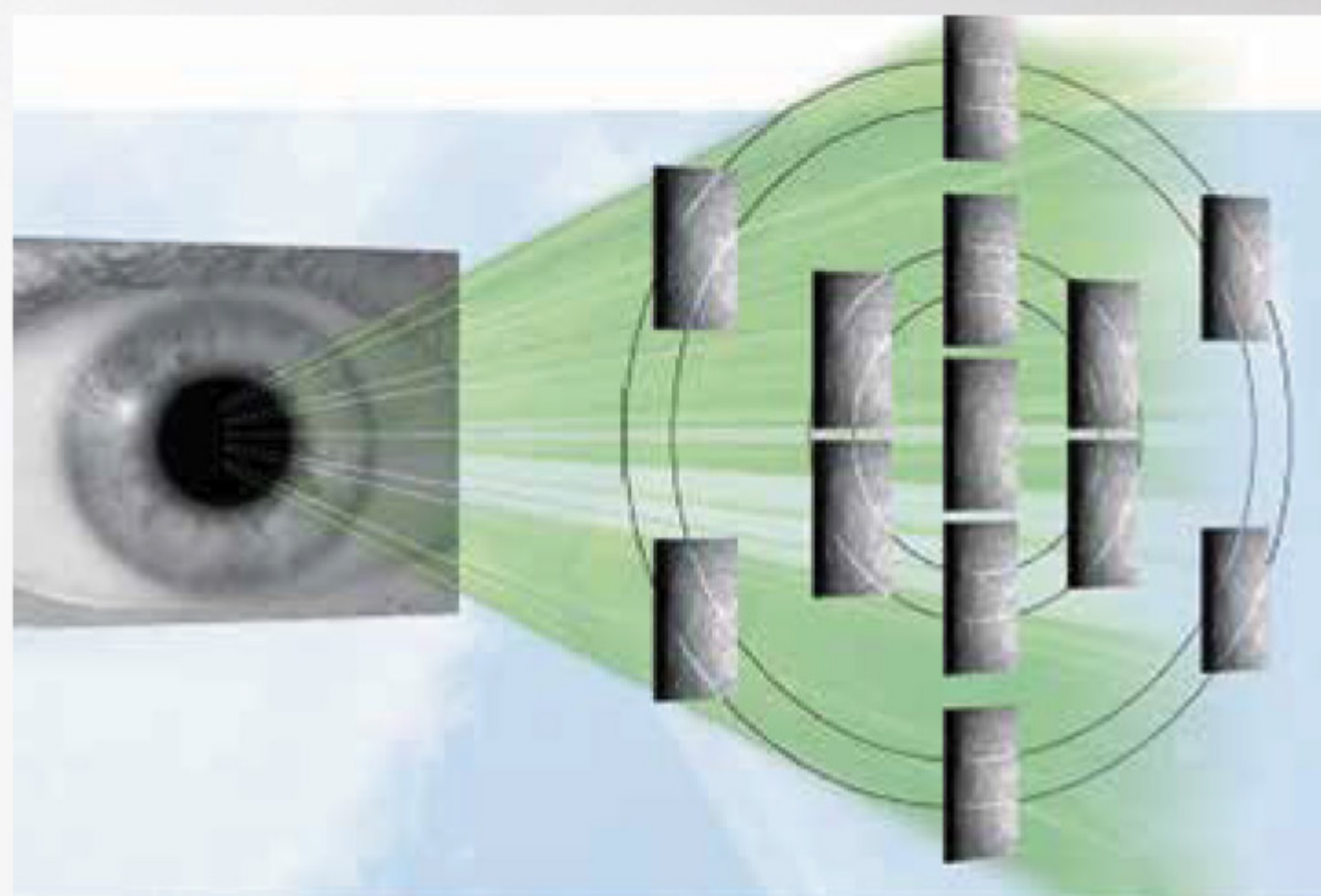
Specular Microscope

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



Complete corneal information

- Central
 - Paracentral
 - Peripheral
- Clinical changes can appear in different cornea areas.

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 method), L-count, Core method, Dark Area analysis
Output	Number (the number of cells analysed) CD (cell density) AVG (average cell area) SD (standard deviation of cell area) Max (maximum cell area) Min (minimum cell area)
Histogram	Area (polymegathism: distribution by areas), Apex (plemorphism: distribution by polygonal shapes types)

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