SPECIFICATIONS

Resolution

Pixels used for picture taking .....480 (V) x 180 (H) pixels

Capturing scope .....0.25 x 0.54 mm

1 centre + 6 peripheral measurements .....7 x fixation points (centre; 2; 4; 6; 8; 10; 12 o'clock)

Min. cell resolution .....1.14 µm (V) x 1.45 µm (H)

Optical magnification.....x 190

Display.....8.4" LCD Colour

Display resolution.....1.14 µm

Measurement

Auto alignment.....Yes

Auto measurement .....Yes

Manual mode (1 & 2).....Yes

Measurement function

Automated captured examination.....15 pictures for analysis
Up to 400 cells
Cell density
CV / SD
Cell size (average, min., max.)
Cell morphology (Polymegathism, Pleomorphism)
Non contact Pachymetry (240 µm - 1000 µm)

Stroke of moving section ..... X: 88 mm
Y: 40 mm
Z: 50 mm

Stroke of electrical chin rest.....70 mm

Measuring accuracy Pachymetry.....+/- 10 µm

Data management

Print out .....Via PictBridge printer

Data export.....Via data transfer SW

Operating environment

Temperature .....+10° to +40°

Humidity.....30 % to 75 %

Atmospheric pressure ....700 to 1060 hPa

Standards applied .....MDD Annex ii, iSo 13485

Communication ports

USB .....For PictBridge printer

LAN .....Data Transfer SW

Dimensions & electric requirements

Dimensions WDH.....308 x 453 x 493 mm

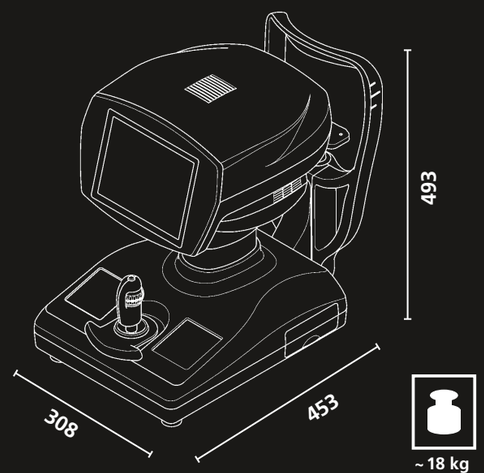
Weight .....Approx. 18 kg

Voltage.....AC 100 to 240 V

Frequency .....50/60 Hz

Power consumption .....100 to 130 VA

Dimensions



2015/02 - subject to change without notice

ENDOTHELIUM MICROSCOPE
REM 3000

PLUG & TOUCH BY RODENSTOCK

Stand alone, fast and easy handling.

- **Auto alignment + auto measurement**
- **Integrated Non Contact Pachymetry**
- **7 measurement areas**
- **Counts up to 400 cells**
- **Dark area analysis**
- **Alternative L-count analysis**
- **Morphology and density diagrams**

RODENSTOCK Instruments

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Rodenstock Instruments is a business unit of Tomey GmbH.

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RODENSTOCK

QUALITY IN DETAIL

Non-contact examination, auto alignment and measurement plus automatic analysis of the endothelium layer make working with the REM 3000 professional and quick. Thanks to our auto alignment technology we can assure the reproducability of the measured area and therefore also the analysed values.

The integrated Non Contact Pachymetry will be automatically measured with every central examination. The big colour touch screen is used as an operating monitor as well as for displaying all measured values. All commands can be given via touch screen.

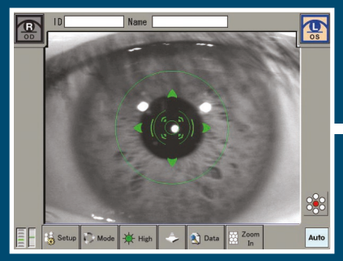
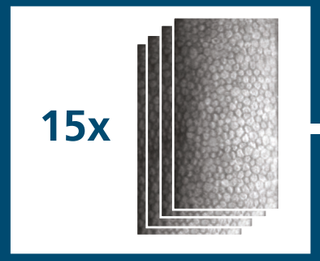
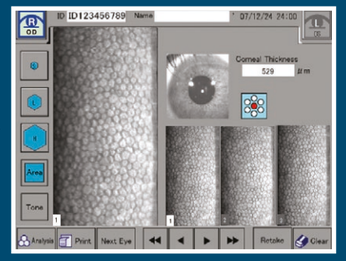


Image is taken automatically



Automated capturing of 15 images



Best image

7 measurement areas + automatic Pachymetry

The REM 3000 has a very large measurement area. With up to 400 counted cells, the system assures a representative cell density analysis of the cornea. Images can be taken at 7 positions: the centre and 6 peripheral points. Additional to that the thickness of the cornea will be automatically measured with every central exam – of course in non contact method.

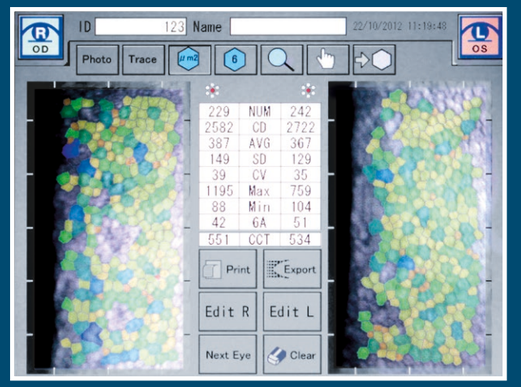
Fast and fully automated analysis of corneal endothelium cells

The software evaluates all relevant data respective to the endothelium, such as the density of cells as well as Polymegathism and Pleomorphism (morphology). High-quality images enable discovering irregularities or possible degeneration of the endothelium. For these difficult cases you can use the classical L-count function and our special dark area analysis tool.

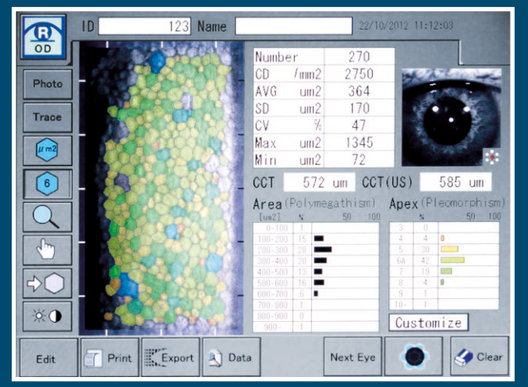
Auto alignment + measurement

The handling of the REM 3000 is very easy – it does almost everything by itself. Alignment and measurement are done automatically. Of course you also can do the examination in the manual mode.

RODENSTOCK Instruments. In touch with your needs.



Dual view (R+L)



Colour analysis

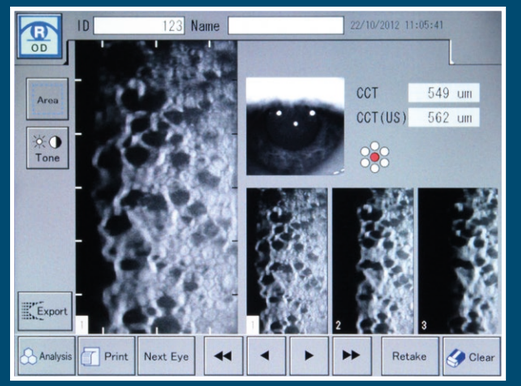
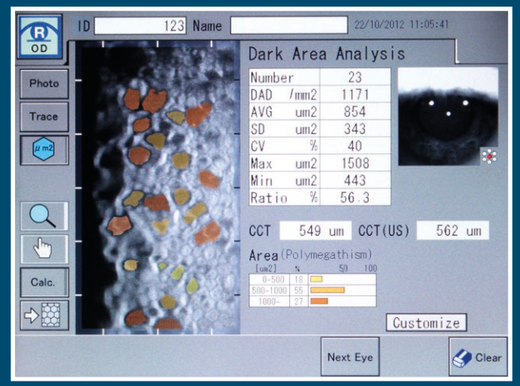
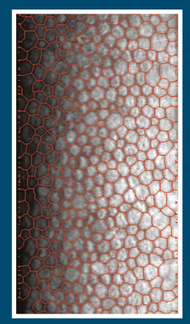


Image select

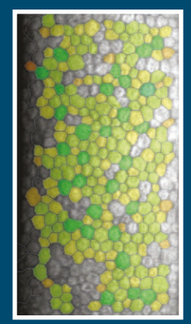


Dark area analysis

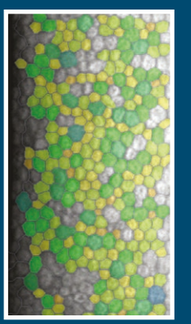
Endothelium layer



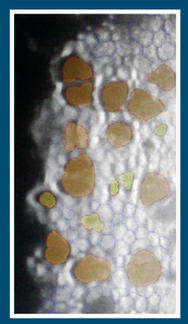
Traced image



Different sizes displayed in colours



Polygonal shapes displayed in colours



Dark area analysis

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