

Wave analyzer new



RAPID. AUTOMATIC.
FEATURE-RICH.



WAVE ANALYZERS

WAVEFRONT ABERROMETERS

DTY Optical
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Optometry



RAPID. AUTOMATIC. FEATURE-RICH.

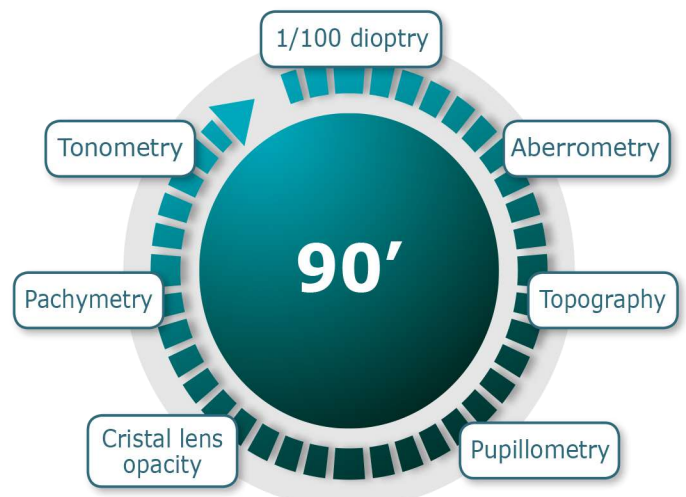
The **Wave analyzer** is a very intuitive, rapid and fully automatic aberrometer. It provides 1/100 dioptre refraction and lots of detailed measurements related to corneal topography, Scheimflug-based pachymetry and tonometry. Connectible, it facilitates easy result sharing and data transfer.

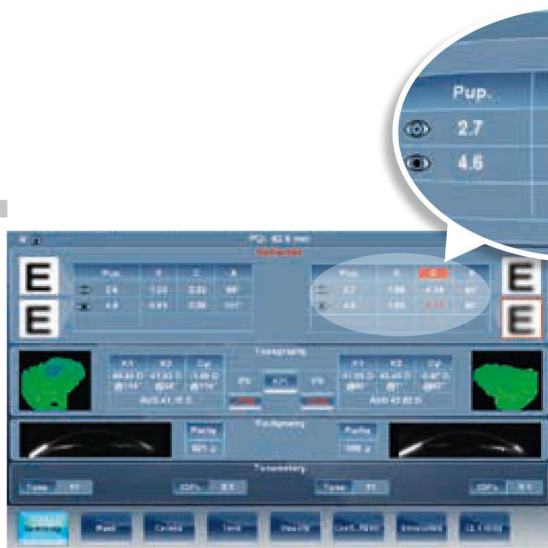
FAST & FULLY AUTOMATIC MEASUREMENT PROCESS

- All measurements are automatically performed by the device once the chin rest level is adjusted.
- Intuitive navigation and measurement cycle progression on the large touch screen



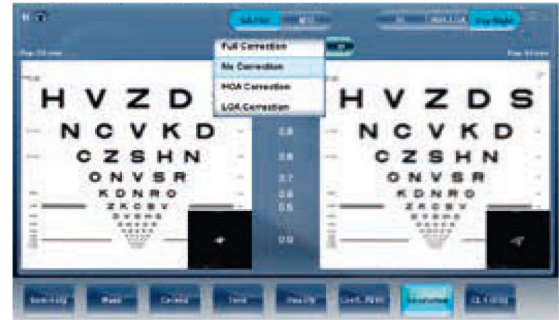
- Wave Analyzer Cornea 700 performs 4 measurements in less than 1 minute.
- Wave Analyzer Medica 700 performs 7 measurements in 90 seconds.





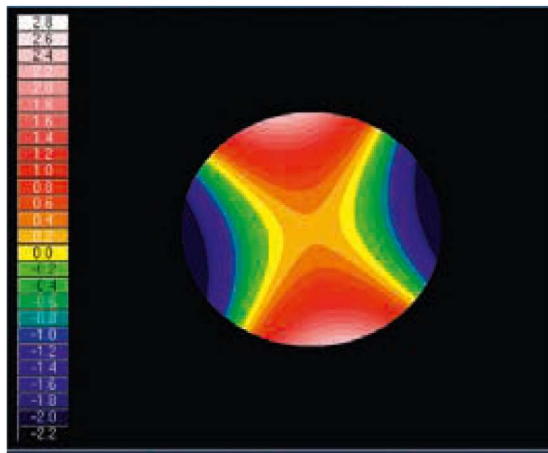
1/100 refraction

- Built on wavefront and Shack-Hartmann technologies
- Refraction of day and night vision



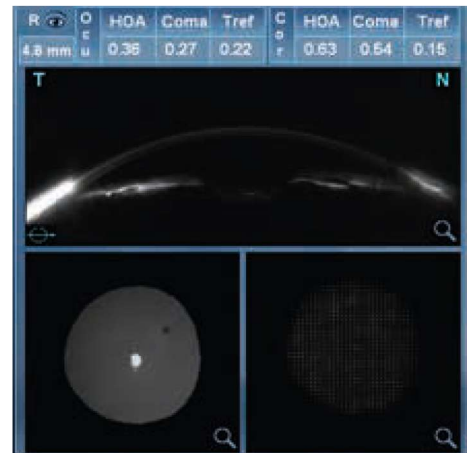
Low- and high-order aberration

- Allowing simulation of the quality of vision



Topography and pupillometry for contact lens fitting and keratoconus detection:

- 100,000 points analyzed
- 3D simulation of the corneal curvature
- Pupil diameter according to photopic/scotopic



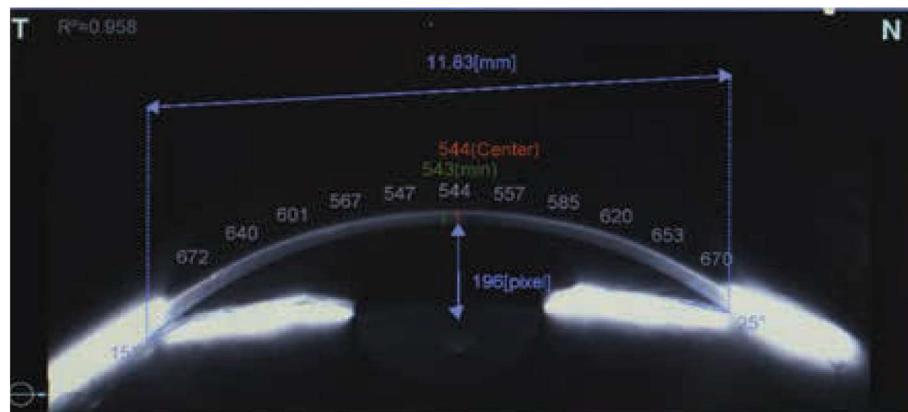
Retroluminescence

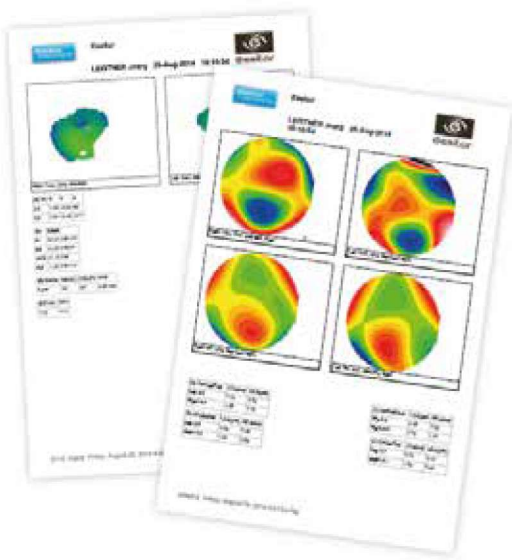
- Crystal lens opacity check and cataract screening

Scheimflug-based pachymetry and tonometry

Non-contact tonometry with comprehensive image of the anterior segment.

Secured glaucoma screening especially with IOP value automatically corrected according to corneal thickness and irido corneal angle.





EASY DATA SHARING

- Clear and customizable result reports.
- XML-based technology for easy data and image transfer.

AR & power mapping (Wavefront)

Sphere	-20.00D ~ +20.00D
Cylinder	0D to + 8D
Axis	0° ~ 180°
Minimum measurable pupil diameter	ø 2 mm
Number of measuring points	1500 points
Acquisition time	0.2 sec
Method	Shack-Hartmann

Pachymetry ⁽¹⁾, IC angle and pupillometry

Pachymeter Range - Resolution	150-1300 µm (+/- 1 micron)
IC angle range / IC resolution	0°-60° / 0.1°
Pupil Illumination	Blue light 455 nm
Method	Scheimpflug

Integrated printer	•
External output terminal	RS232 / USB / VGA / LAN

CE Conformity marking

Corneal topography

Number of rings	24
Number of measuring points	6 144
Number of analysed points	More than 100 000
Covered corneal area at 43D (ø)	From 0.33mm to more than 10mm
Diopters measured field	From 1 to 100
Repeatability	0.02 D
Method	Placido rings

Tonometry ⁽¹⁾

Measurement Range	1 mmHg to 50 mmHg
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Screen	10.1" Multitouch screen
Dimensions and weight	12.6 in (W) x 21.8 in (D) - 60 lb
Power-supply	100 - 240 V AC, 50/60 Hz

(1)Tonometry and pachymetry available on Wave analyzer Medica 700.

Keratometry	Refraction	Aberrometry	Pupillometry	Topography	Tonometry	Pachymetry
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Wave analyzer
medica 700



Wave analyzer
cornea 700



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