

RAPID. AUTOMATIC.
FEATURE-RICH.



Wave analyzer

WAVE ANALYZERS

WAVEFRONT ABERROMETERS

Optometry



RAPID. AUTOMATIC. FEATURE-RICH.

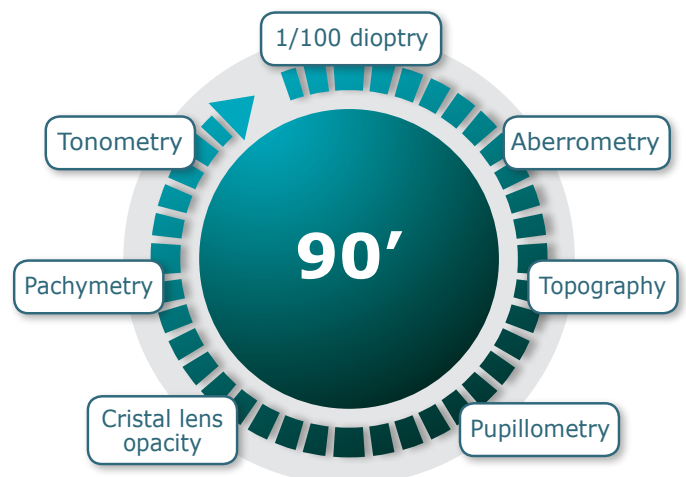
The **Wave analyzer** is a very intuitive, rapid and fully automatic aberrometer. It provides 1/100 dioptre refraction and lots of detailed measurements related to corneal topography, Scheimflug-based pachymetry and tonometry. Connectible, it facilitates easy result sharing and data transfer.

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.

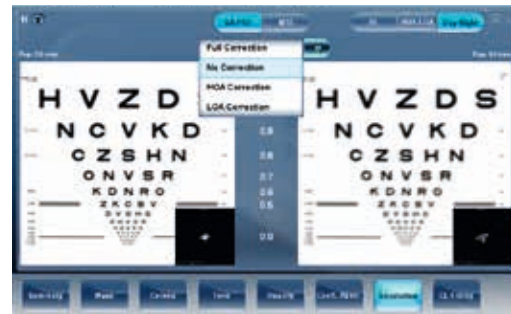


Pup.	S	C	A
2.7	1.68	-4.34	84°
4.6	1.53	-3.72	86°



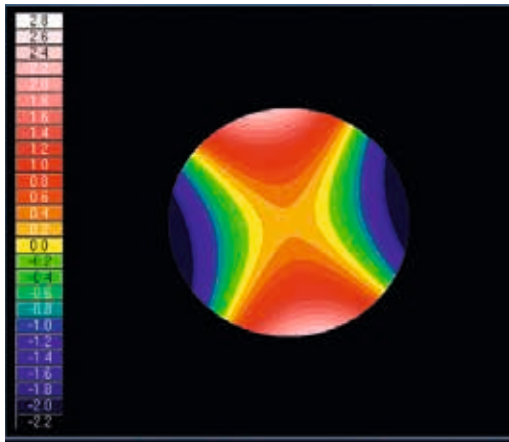
1/100 refraction

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



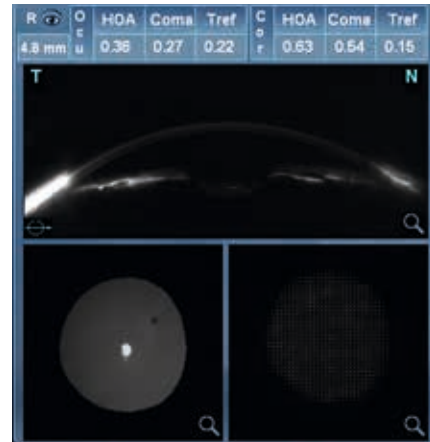
Low- and high-order aberration

- 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



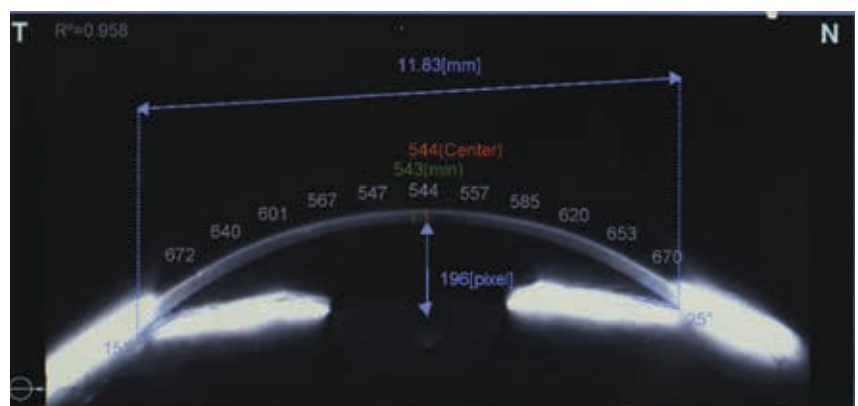
Retroluminescence

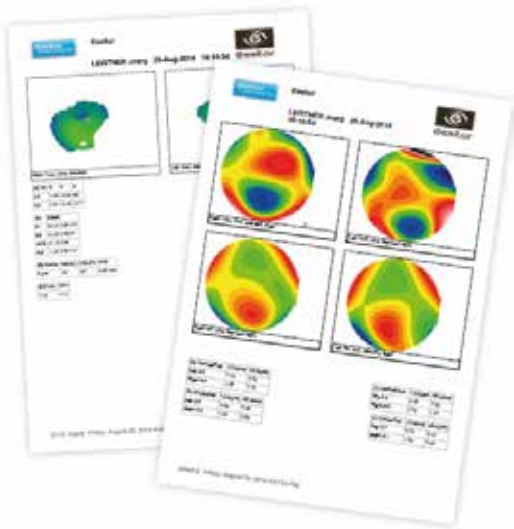
- Crystal lens opacity check and cataract screening

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)		Corneal topography	
Sphere	-20.00D ~ +20.00D	Number of rings	24
Cylinder	0D to + 8D	Number of measuring points	6 144
Axis	0° ~ 180°	Number of analysed points	More than 100 000
Minimum measurable pupil diameter	ø 2 mm	Covered corneal area at 43D (ø)	From 0.33mm to more than 10mm
Number of measuring points	1500 points	Diopters measured field	From 1 to 100
Acquisition time	0.2 sec	Repeatability	0.02 D
Method	Shack-Hartmann	Method	Placido rings
Pachymetry (1), IC angle and pupillometry		Tonometry (1)	
Pachymeter Range - Resolution	150-1300 µm (+/- 1 micron)	Measurement Range	1 mmHg to 50 mmHg
IC angle range / IC resolution	0°-60° / 0.1°		
Pupil Illumination	Blue light 455 nm		
Method	Scheimpflug		
Integrated printer	•	Screen	10.1" Multitouch screen
External output terminal	RS232 / USB / VGA / LAN	Dimensions and weight	12.6 in (W) x 21.8 in (D) - 60 lb
CE Conformity marking		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



- ✓
- ✓
- ✓
- ✓
- ✓
- ✓
- ✓



- ✓
- ✓
- ✓
- ✓
- ✓
-
-



Essilor Instruments USA
 8600 W. Catalpa Avenue, Suite 703
 Chicago, IL 60656 - USA
 Phone: 855.393.4647
 Email: info@essilorinstrumentsusa.com
 www.essilorinstrumentsusa.com

Your local distributor: