ENHANCE CUSTOMER EXPERIENCE

WAM™800

FULLY AUTOMATED ANTERIOR
SEGMENT SCREENING SOLUTION

ESSILOR
INSTRUMENTS

WAM™ 800

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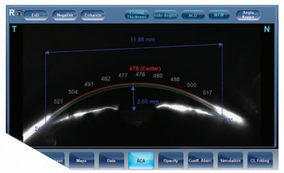
COMPREHENSIVE ANTERIOR SEGMENT SCREENING

The Wave Analyzer Medica (WAM™ 800) is a rapid, fully automated aberrometer, combined with other imaging technologies to enable eye care professionals to efficiently gather key information about the anterior segment in **less than two minutes**.

INTRAOCULAR PRESSURE MEASUREMENT AS ONE OF THE RISK FACTORS OF GLAUCOMA



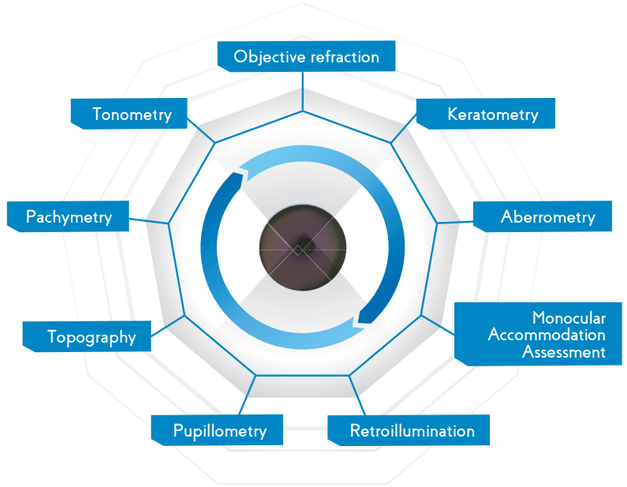
- Improved non-contact tonometry using fixation point.
- Anterior chamber analysis with precise measurement of corneal irrido angles.

KERATOCONUS DETECTION

- Placido rings topography helps to analyze over 100,000 points of cornea and provide the keratoconus probability index.
- 3D simulation of the cornea curvature combined with pupillometery helps to get valuable data for contact lens fitting.

CATARACT SCREENING

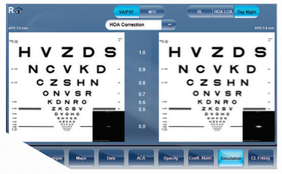
- Using infrared retro-illumination, WAM™ 800 provides a detailed analysis of the crystalline lens opacity.



OBJECTIVE VISION EVALUATION

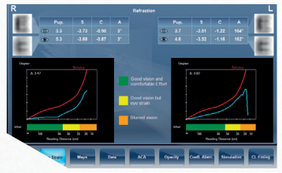
Wearer's pupillary behaviors and ocular aberrations are mainly responsible for the overall decrease of vision quality under different light conditions. Thanks to the wavefront technology, WAM™ 800 provides visual acuity simulations allowing a better understanding of the patient's vision.

PATIENT VISION SIMULATION



- Individual autorefractometer and pupillary measurement for mesopic and photopic conditions and near vision.
- Easy-to-use day/night simulation of the patient's vision using Point Spread Function.

MONOCULAR ACCOMMODATION ASSESSMENT



- Real-time evaluation of the patient's eye fatigue when focusing on nearby objects.
- Automatic display of the accommodative effort according to the reading/working distance.

EFFICIENCY IN OPTICAL ENVIRONMENTS

- Intuitive user interface with quick access to predefined wearer protocols.
- Textual and graphical display to guide operator through the screening.

SPECIFICATIONS

AR AND POWER MAPPING (WAVEFRONT)

- Sphere: -20.00 D to +20.00 D
- Cylinder: 0 D to + 8 D
- Axis: 0° ~ 180°
- Minimum measurable pupil diameter: ø 2 mm
- Number of measuring points: up to 1,700 points for an 8 mm pupil
- Acquisition time: 0.2 sec
- Method: Shack-Hartmann

PACHYMETRY, 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

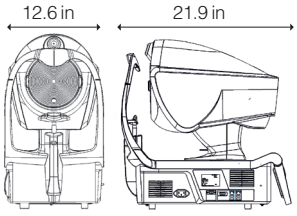
CORNEAL TOPOGRAPHY

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

TONOMETRY (WITH FIXATION POINT)

- Measurement Range: 1 mmHg to 50 mmHg

SYSTEM



- Screen: 10.1" multitouch screen
- Dimensions and weight: 12.1 (W) x 21.9 (D) in – 60 lb.
- Power-supply: 100 – 240 V AC, 50/60 Hz
- Integrated printer: yes
- External output terminal: RS232/USB/VGA/LAN
- Operating system: Windows 10

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ESSILOR INSTRUMENTS

NETWORK

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