BOOST YOUR PATIENT EXPERIENCE IN PRACTICE

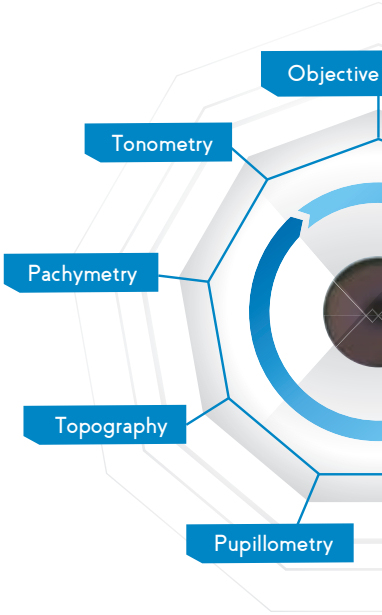
WAM 800

EYE PHYSIOLOGY AUTOMATIC
SCREENING SOLUTION

ESSILOR
INSTRUMENTS

WAM 800

FULLY-AUTOMATIC SOLUTION FOR COMPLETE EYE PHYSIOLOGY ANALYSIS AND VISUAL NEEDS ASSESSMENT.



OPTIMIZED COMPREHENSIVE EYE WELLNESS SCREENING

WAM™ 800 is a very intuitive, rapid and fully-automatic aberrometer that combines several technologies to enable the eye care professional to provide a comprehensive screening of the eye in less than two minutes.

GLAUCOMA SCREENING AND MONITORING

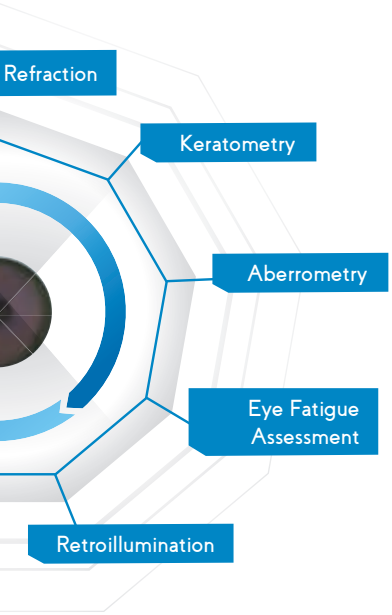
- Improved tonometry using fixation point and IOP value automatically corrected according to the corneal thickness
- Anterior chamber analysis with the precise measurement of corneal irrido angles

KERATOCONUS DETECTION

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

CATARACT SCREENING

- Using infrared retro-illumination, WAM 800 provides a detailed view of the crystal lens opacity helpful in identifying cataracts.



COMPLETE PATIENT VISUAL PERFORMANCE EVALUATION

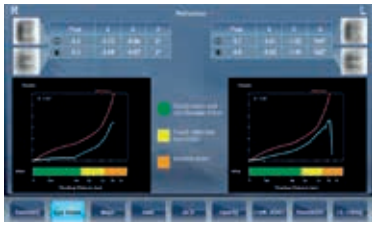
Patients' pupillary behavioral patterns and spherical aberrations are responsible for the overall loss of visual quality including poor night vision. Thanks to the wavefront technology, WAM™ 800 provides acuity simulation to give a better understanding of patients' vision.

The eye care professional can then use the data to show how much vision can be optimized and promote the benefits of night-vision, anti-fatigue, progressive or personalized lenses.

PATIENT VISION SIMULATION

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

EYE STRAIN AND NEAR-VISION ASSESSMENT



- Real-time evaluation of the patient's eye fatigue when focusing on nearby objects
- Automatic display of the eye fatigue by distances in centimeters

EFFICIENCY IN OPTICAL ENVIRONMENTS

- Intuitive user interface with quick access to pre-defined patient protocols
- Textual and graphical display to guide operator through the screening

SPECIFICATIONS

AUTOREFRACTION AND POWER MAPPING (WAVEFRONT)

- Sphere: -20.00D to +20.00D
- Cylinder: 0D to + 8D
- Axis: 0° to 180°
- Minimum measurable pupil diameter: 2 mm
- Number of measuring points: up to 1,500 points
- Acquisition time: 0.2 sec
- Method: Shack-Hartmann

PACHYMETRY, IRIDO-CORNEAL (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

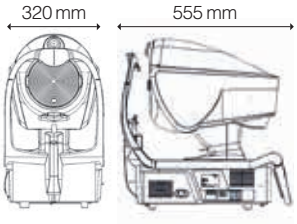
CORNEAL TOPOGRAPHY

- 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: 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 mm Hg to 50 mm Hg

SYSTEM



- Screen: 10.1" multitouch screen
- Dimensions and weight: 12.6 (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

As improvements are made, these specifications and pictures are not contractually-binding and may be changed without prior notice.
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ESSILOR INSTRUMENTS

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