

Enhance the customer experience.



A fully automated
anterior segment
screening solution.



WAM™ 800

a fully automated
anterior segment screening solution
efficiently gathering key information in 2 min.

This all-in-one automatic
screening solution can
perform up to 9 major
types of measurements.

Objective Refraction

Tonometry

Accommodation*

Pachymetry

Aberrometry

Topography

Keratometry

Retroillumination

Pupillometry



*Monocular Accommodation Assessment

1. Comprehensive anterior segment screening



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 irido angles.

Keratoconus detection

- Placido rings topography analyzes over 100,000 points of cornea and provides Keratoconus probability index.
- 3D simulation of the cornea curvature, combined with a pupillometer, delivers valuable data for contact lens fitting.



Cataract screening

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

2. Patient's objective vision evaluation

The wearer's pupillary behavior & ocular aberrations are key factors in the overall decrease in vision quality under varying light conditions.

Thanks to wavefront technology, WAM™ 800 provides visual acuity simulations, offering a better understanding of the patient's vision.



Monocular Accommodation Assessment

- Real time evaluation of the patient's objective refraction while focusing on nearby objects.
- Automatic display of accommodative effort based on reading distance (cm).

Patient's vision evaluation

- Individual Autorefractometer & pupil measurement for mesopic, photopic conditions and near vision.
- Easy-to-use day and night vision simulation using Point Spread Function.



3. Efficiency and customer engagement in practice

- Intuitive user interface with quick access to pre-defined protocols.

- Detailed reports on patients' objective vision performance.

- Patient education on presbyopia, visual fatigue, day and night vision.



Technical specifications

Personalized measurements

Objective Refraction

Sphere: -20.00 D ~ +20.00 D

Cylinder: 0 D to + 8 D

Axis: 0° ~ 180°

Minimum measurable pupil diameter: \varnothing 2 mm

Number of measuring points: up to 1700 points for an 8 mm pupil

Acquisition time: 0.2 sec

Method: Shack-Hartmann

Anterior Segment Imaging

Pachymeter Range - Resolution: 150 - 1300 μ m (+/- 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 analysed points: more than 100,000 points

Covered corneal area at 43D (\varnothing): from 0.33 mm to more than 10 mm

Diopters measured field: from 1 to 100

Repeatability: 0.02 D

Method: Placido rings

Tonometry

Measurement Range: 1 mmHg to 50 mmHg

System

Screen: 10.1" multitouch screen

Dimensions and weight: 320 (W) x 555 (D) mm - 27 kg

Power-supply: 100 - 240 V AC, 50/60 Hz

Integrated printer: yes

External output terminal: RS232/USB/VGA/LAN

Operating system: Windows 10



WAM™ 800 is a EU Class II-a medical device intended for Optometry.
CE 0051 marked. Manufacturer: Luneau Technology Operations.
For professional use only, read attentively the instructions for use.

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As improvements are made, these specifications are not contractually binding and may be modified without prior notice. WAM™ 800 is a trademark of Essilor International.

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