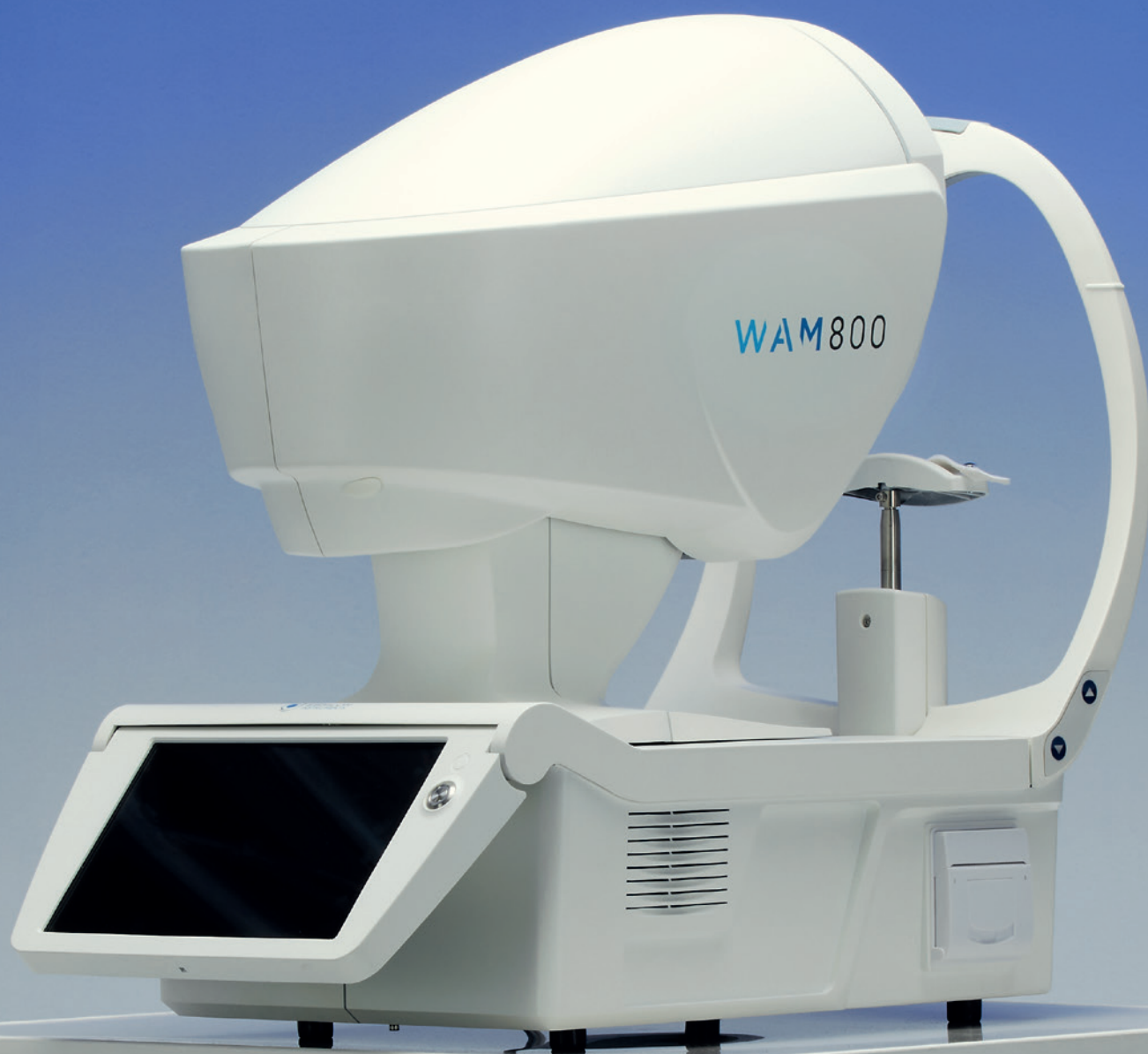


Enhance the customer experience.



A fully automated
anterior segment
screening solution.



WAM™ 800
a fully automated aberrometer,
combined with other imaging technologies
to efficiently gather key information in 2 minutes.

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

Objective Refraction

Tonometry

Pachymetry

Topography

Pupillometry



Keratometry

Aberrometry

Retroillumination

Accommodation*

*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 wearer protocols.

• Detailed reports on patients’ objective vision performance.

• Patient education on conditions, such as 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: 12.3(W) x 20.9(L) x 22.4(H) in. - 55 lbs

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-Brochure-US-V5-May2025

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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.

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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