Luneau Visionix L80 Wave +

The first 4 in 1 device

The "Wavefront" technology allows more precise refractometry; thus setting up a better starting point for refraction. Measurement Mode is set to the standard configuration. Six measurements option are available using L80 device in seven measurement configurations.


TOPO - Corneal Topographer - Maps eye surface to evaluate the cornea prior to treatment and refractive vision correction.

WF - Wave Front aberrometer - Maps eye wave front distortion due to inherent physical properties of the eye.

WF-Topo - Corneal Topography - Maps eye surface to evaluate the cornea prior to treatment and refractive vision correction.

ACCO - Accommodation - Measures the accommodation ability of the eye.

Pupil - Pupil meter - Measures the pupil sizes in changing lighting conditions.

Sensor View

The L80 device contains a Shack-Hartman sensor, an internal camera that captures real time images of the retina reflection. In any measurement (other than TOPO and PUPIL) we are able to view a superimposed image on the measurement screen of a live camera image.

Automatic functions

- High precision refractometry
- Central and peripheral keratometry
- Topography up to 100 000 points
- High density aberrometry up to 1500 points
- Measurement through pupils of small diameters(2mm)
- Measurement of potential accommodation
- Simulation of Visual acuity.
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Aberrometry applications

- All useful data for refractive surgery
- Evaluation of visual acuity in night vision
- Evaluation of accommodation
- Evaluation of 'guided' surgery.

Wave+ benefits

- Fully automatic 3-D and R/L eye alignments
- 4 types of automatic simultaneous measurements
- Operators independent measurements
- High reproducibility of measurements

Ultra efficient 3-D alignment Entirely automatic alignment and measurements allowing

- Higher reliability of measurements
- Significant time saving
- Great comfort use.

High resolution Shack-Hartmann technology Used for the first time in refraction procedures, this technology brings

- Higher precision of measurements
- Unequalled reliability of measurements
- Complementary analysis functions.

Corneal Topography applications

- Higher precision in keratometry
- Automatic detection of keratocones
- Precise tool for contact lenses fitting & precision (Contact lens database)

Corneal Topography & Aberrometry associated together. More comprehensive diagnostic of visual acuity

- Pre and post follow-up in corneal surgery Separation of refractive and corneal aberration problems
- Acuity simulation according to pupil diameters