

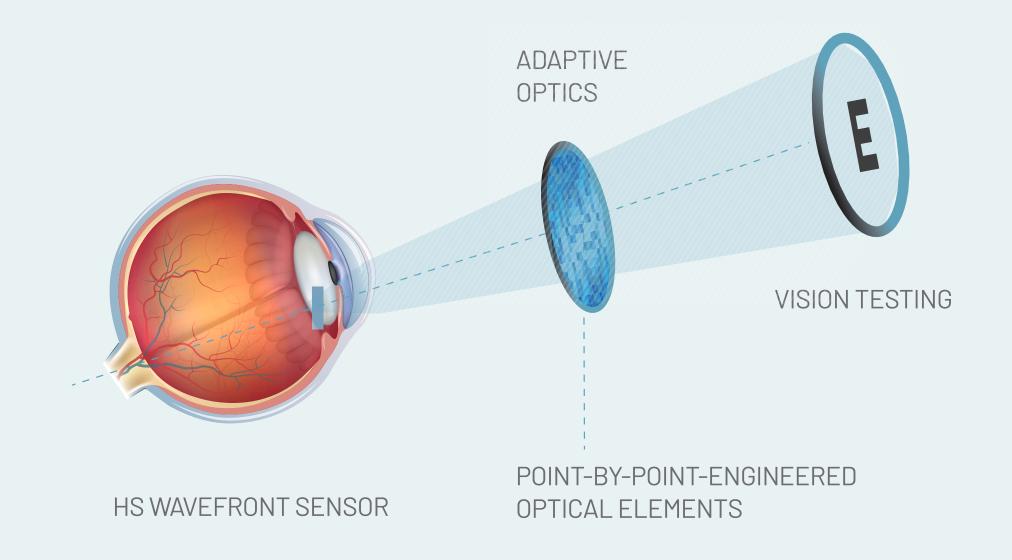




HAVE FULL CONTROL OVER THE TEST AND THE OPTICS

- Objective wavefront aberrometry.
- ✓ A0* subjective correction refinement (refraction + HOA**).
- Simulation that provides a real experience of different optical profiles.

A TRUE-TO-LIFE **EXPERIENCE**



*Adaptive Optics. **High Order Aberrations.



3-IN-1 DEVICE

(PHOROPTER, AUTOREFRACTOMETER & ABERROMETER)

Integrate VAO as your gold standard for eye exams and refractive surgery procedure



MEASUREMENT OF OCULAR ABERRATIONS

Obtain your patients' objective refraction and higher order aberrations automatically.



MEASUREMENT OF SUBJECTIVE REFRACTION

Obtain the visual prescription by interacting with your patient.



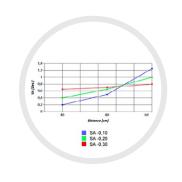
VISUAL TESTS

Select the best optical solution through a broad variety of advanced visual tests (High & Low Contrast VA, Contrast Sensitivity, Jackson Cross Cylinder, etc..)

ALLOW YOUR PATIENT TEST

DIFFERENT OPTICAL SOLUTIONS

BEFORE SURGERY



DEPTH OF FOCUS WITH SPHERICAL ABERRATION

The depth of focus protocol will guide you to induce different amounts of spherical aberration to extend depth of focus of a presbyopic patient.



IOL SIMULATION

VAO is the only instrument able to load any type of IOL profile to allow the patient experience different optical solutions.



A VARIETY OF SW MODES FOR YOUR PATIENTS

ULTRA FAST

- Rapid clinical assesment
- Aberration
- ✓ Subjective refraction
- ✓ Visual acuities
- Glasses presciption

FAST MODE

Guided clinical protocol



ADVANCED

✓ All functionalities in one mode



Each of your examinations are saved automatically and are available at any time in the database for patient follow-up.

- 1. Monitor your clinical results .
- 2. Clinical results in excel file.
- 3. Analyze your patients results in a PDF report.

DEPTH OF FOCUS



THE MOST ADVANCE TECHNOLOGY AT YOUR FINGERTIPS

- Fast evaluation and time reduction in the clinic.
- Simulation able to reproduce all optical profiles.
- Compact, easily integrated into the clinical practice.
- Exceptional diagnostics.
- Exportable database.

- Agile and efficient software.
- User-friendly interface.
- ✓ Full-HD touch screen.
- PDF results ready to save, print and send.
- Compatible with clinical software.



TECHNICAL SPECIFICATIONS

Aberrometer specifications

Aberrometer principle	Hartmann-Shack
Pupil sizes	3 - 8 mm
Zernike order	2nd – 8th order
# of micro lenses in maximum pupil	315
Range defocus	± 9 D
Range astigmatism (negative cylinder convention)	9 D
Range higher order aberrations (4.5 mm)	±1 µm

Laser specifications

Wavelength	780 nm
Maximum laser energy at the corneal plane	60 μW/cm²

Adaptive optics

Phase modulation	LCoS
Wavelength range	VIS
Number of pixels	1920 x 1080
Pixel size LCoS	8 x 8 μm
Linearity of modulation	2 π @ 532 nm
Artificial modulation pupil	4.5 mm
Modulator input: Standard wavefront map	Zernike polynomials
Modulation input: Custom wavefront map	Upload as csv-file

Test stimulus

Stimulus screen	HD micro display
Colors	> 16.7 million colors
Grey levels	256
Field of view	3.8º x 2.1º visión angle

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General specifications	
Dimensions (L x W x H)	0.89 x 0.36 x 0.56 m
Weight	25 kg
Power input	230 VAC (50 Hz)
Nominal power	200 W
Connectivity	USB, Ethernet















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