Osiris
ABERROMETER

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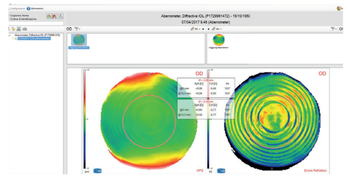
OSIRIS

The ability to measure high order aberrations as well as standard refraction has become the new standard of care for your patients. Osiris, is a total ocular aberrometer, and is indispensable for the correct evaluation of critical patients who have, in addition to traditional low-order defects, even more complex ocular aberrations.
Osiris has a unique design that enables it to measure aberrations with a resolution of 45,000 points (at the maximum pupil diameter), with a wide dynamic. Thanks to the use of a pyramidal sensor, Osiris is also able to measure the total wave-front in real time with a frame rate of up to 33 images per second: this makes it possible to measure and view changes in power and aberrations while the patient is accomodating.

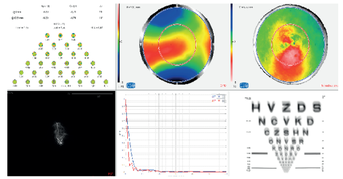
FEATURES OF THE PHOENIX SOFTWARE

Osiris uses the Phoenix software platform allowing patient data to be saved for future review and analysis, shared by all CSO devices.



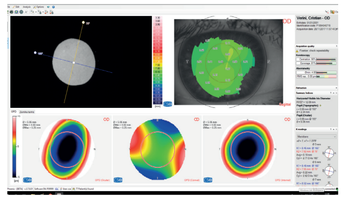
ANALYSIS SOFTWARE FOR ABERRATIONS

The tool integrates with the Phoenix software, offering a wide range of analysis options, such as refractive error maps and visual simulations (PSF, MTF and convolution with optotype), which helps the clinician to understand and explain the patient's visual problems. Osiris data can be combined with the topographic maps from other instruments produced by CSO, combining the total aberrometry with the corneal ones of Antares, Sirius or MS-39 it is possible to calculate the wavefront internal component and, for example, to evaluate the impact of a toric system on vision.



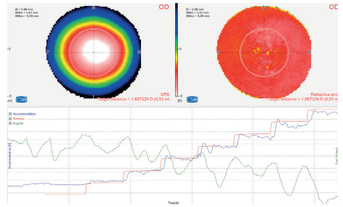
TORIC LENS ASSISTANT

For the evaluation of the performances of a toric system, the combination of corneal topography imported from CSO topographers and ocular aberration, makes it possible to distinguish whether any astigmatic residue is due to a rotation of the lens or to an incorrect calculation.



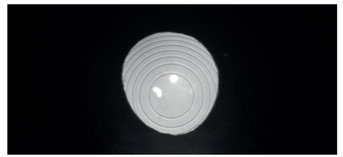
DYNAMIC ACCOMODATION

Real-time measurement of the ocular wavefront is indispensable during the evaluation of the accommodative phases. Customizable exam modes (ramps or square waves) are available to evaluate the patient's ability to focus at near.



DENSITOMETRY

For an objective assessment of cataract and optical media opacity evaluation, Osiris can acquire backlit images without reflections.



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TECHNICAL DATA

Data transfer	USB 3.0
Power supply	external power source 24 VCC In: 100-240Vac - 50/60Hz - 0.9-05A - Out: 24Vdc - 40W
Power net cable	IEC C14 plug
Dimensions (HxDxW)	425 x 315 x 265
Weight:	5.8Kg
Chin rest movement	70mm ± 1mm
Minimum height of the chin cup from table:	24cm
Base movement (xyz)	105 x 110 x 30mm
Working distance	78mm
LIGHT SOURCES	
Aberrometer	Led @850nm
Auxiliary	Led @780nm
Fixation	Led @450-650nm
ABERROMETRY	
Points measured at maximum pupil	45000
Spatial resolution	41µm
Pupil size range	2-9mm
Dioptric range	Sph from -25D to +15D; Cyl up to 10D
Repeatability	0.05D on test eyes
Compatibility with standard	DICOM v3 (IHE integration profile EYECARE Workflow)

MINIMUM SYSTEM REQUIREMENT

PC: 4 GB RAM - Video Card 1 GB RAM (not shared) resolution 1024 x 768 pixels - USB 3.0 type A
Operating system: Windows XP, Windows 7 and Windows 10 (32/64 bit).

**The specifications and the images are not contractually binding and can be modified without notice. Windows® is a Microsoft Corporation trade mark.*

CO126 | Rev. 02 del 15/03/2019

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