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OSIRIS

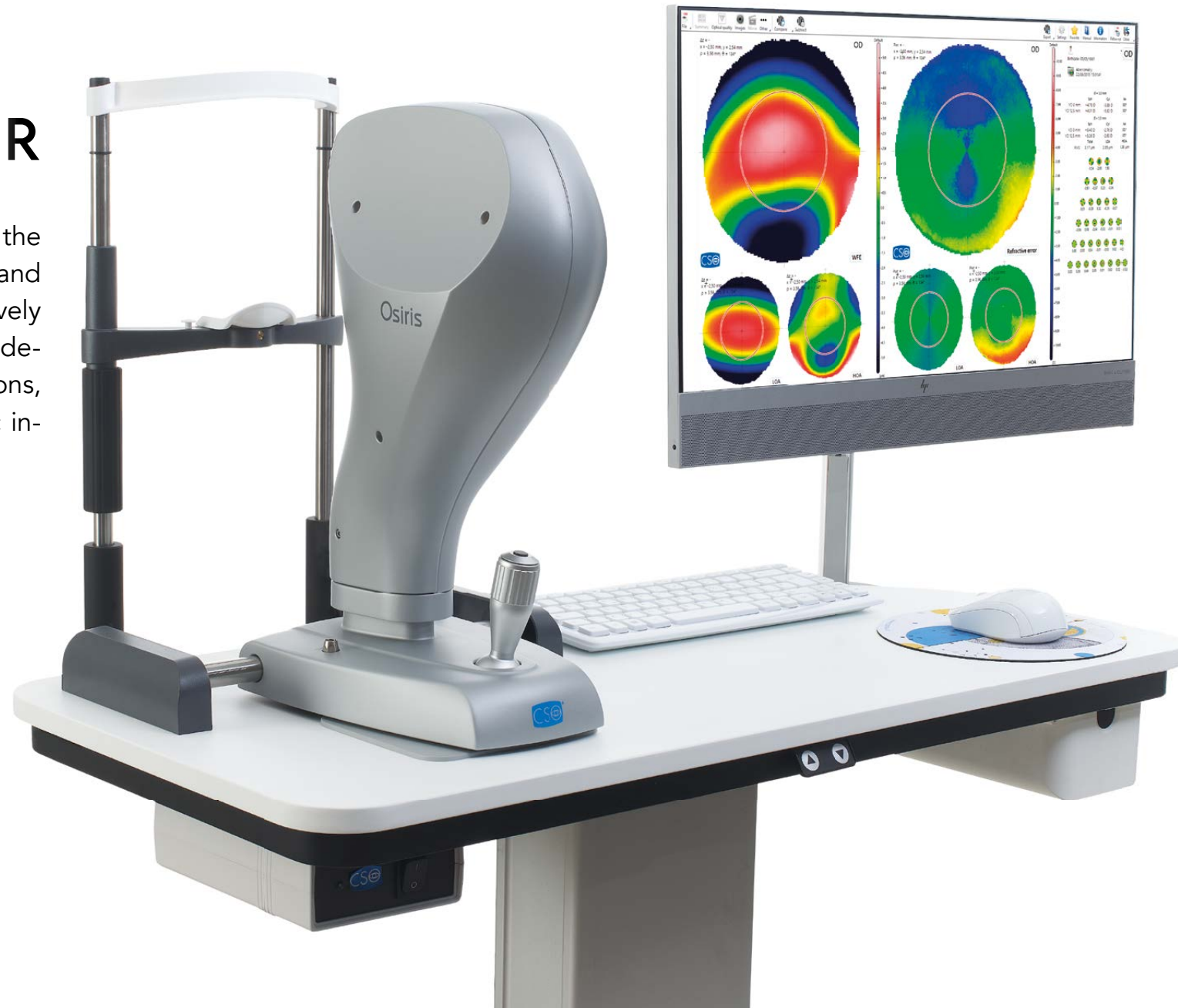
OCULAR
ABERROMETER



OSIRIS

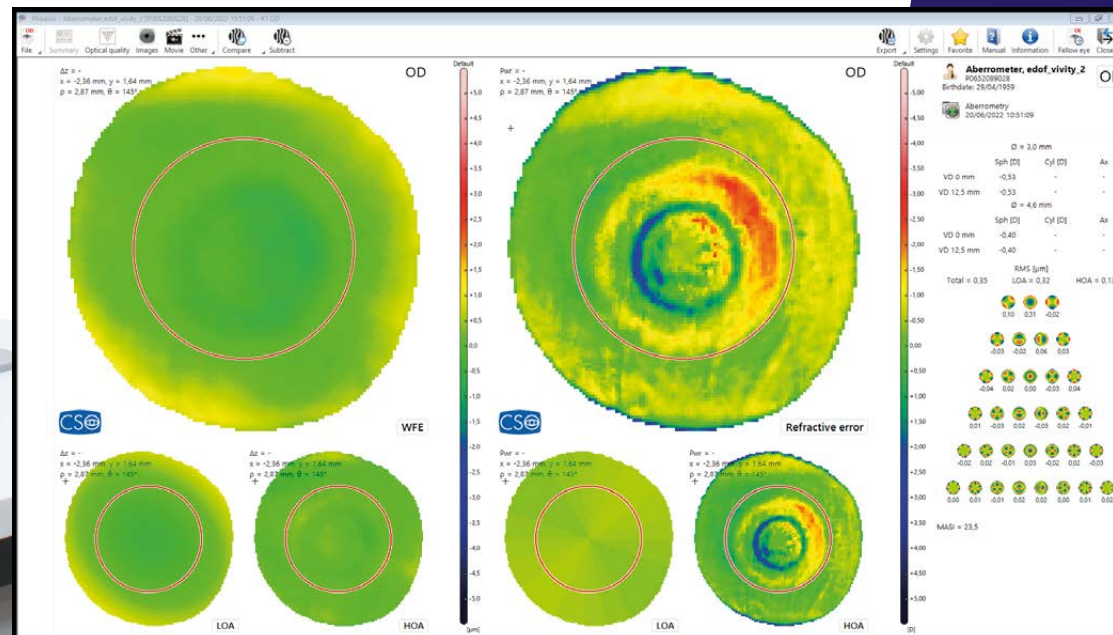
OCULAR ABERROMETER

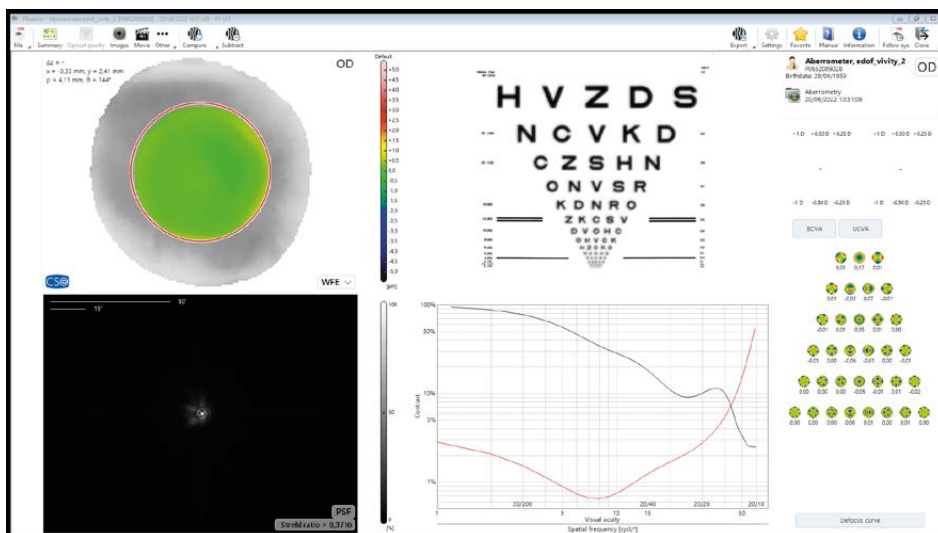
Osiris is an Ocular aberrometer for the analysis of wavefront irregularities and dynamic accommodation. It effectively assesses both traditional low-order defects and complex ocular aberrations, ensuring comprehensive diagnostic insights.



OCULAR ABERROMETRY

The Osiris pyramidal sensor, allows the device for measuring aberrations with a resolution of 45.000 points (at the maximum pupil diameter), with a wide dynamic range. It is also able to measure the ocular wavefront in real time with a frame rate of up to 33 images per second: this makes possible to measure and view changes in power and aberrations while the patient is accommodating.





The software application offers 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.

OBJECTIVE DEFOCUS CURVE MEASUREMENT

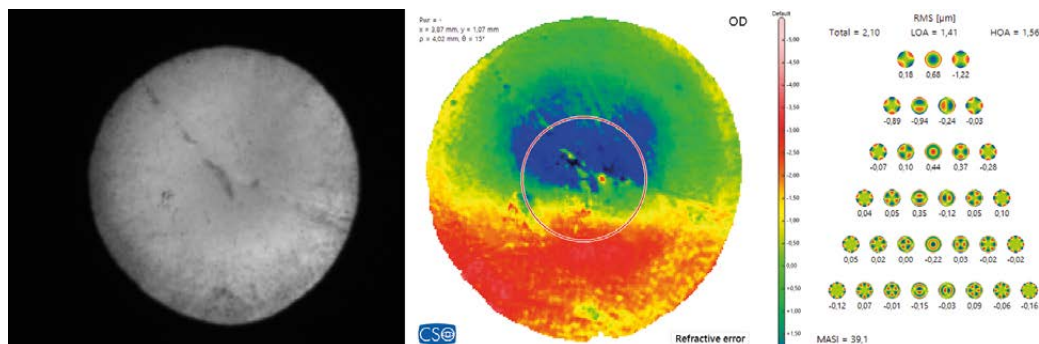
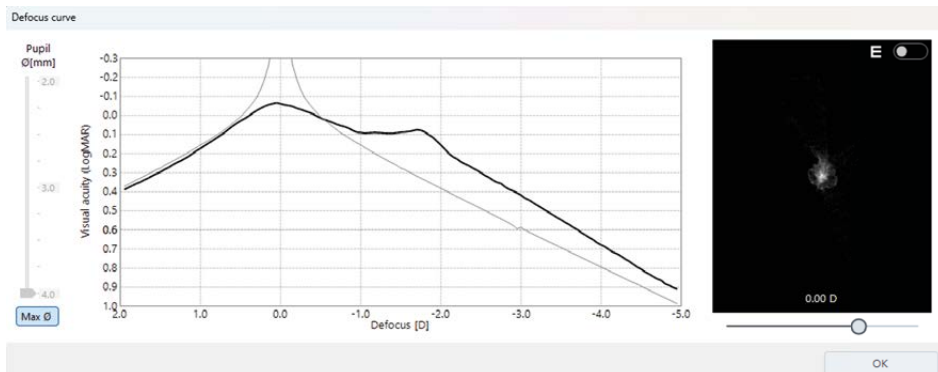
Osiris is able to simulate the monocular defocus curve generated by the eye, this feature provides with essential insights for evaluating the effectiveness of presbyopia correcting solution

DENSITOMETRY

Osiris provides back-scattered images of the eye's optical media, enabling the evaluation of opacities.

MASI INDEX

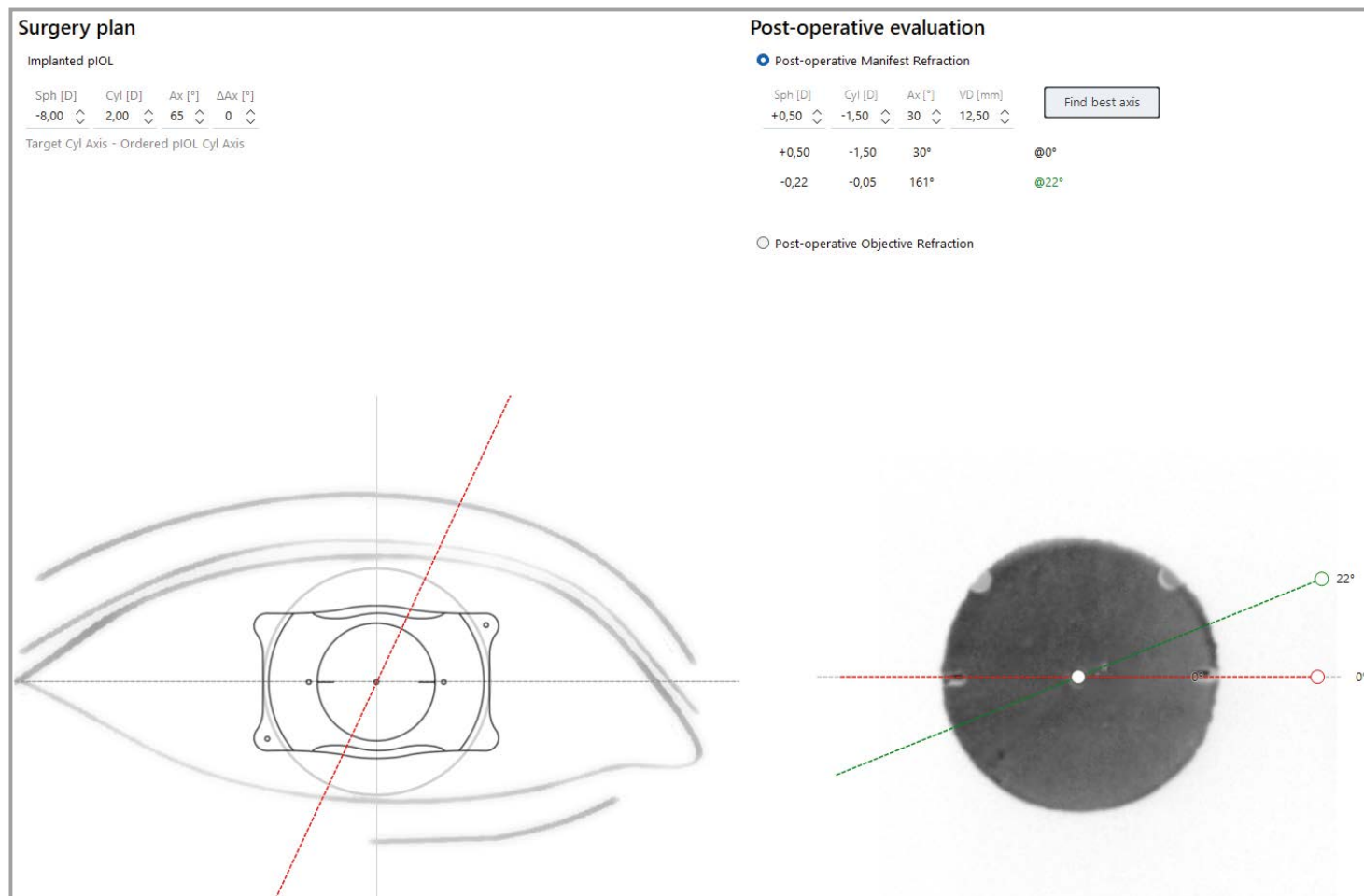
The Micro Aberration Scattering Index (MASI) assists in evaluating very high-order wavefront irregularities caused by cataracts or certain surgical procedures.

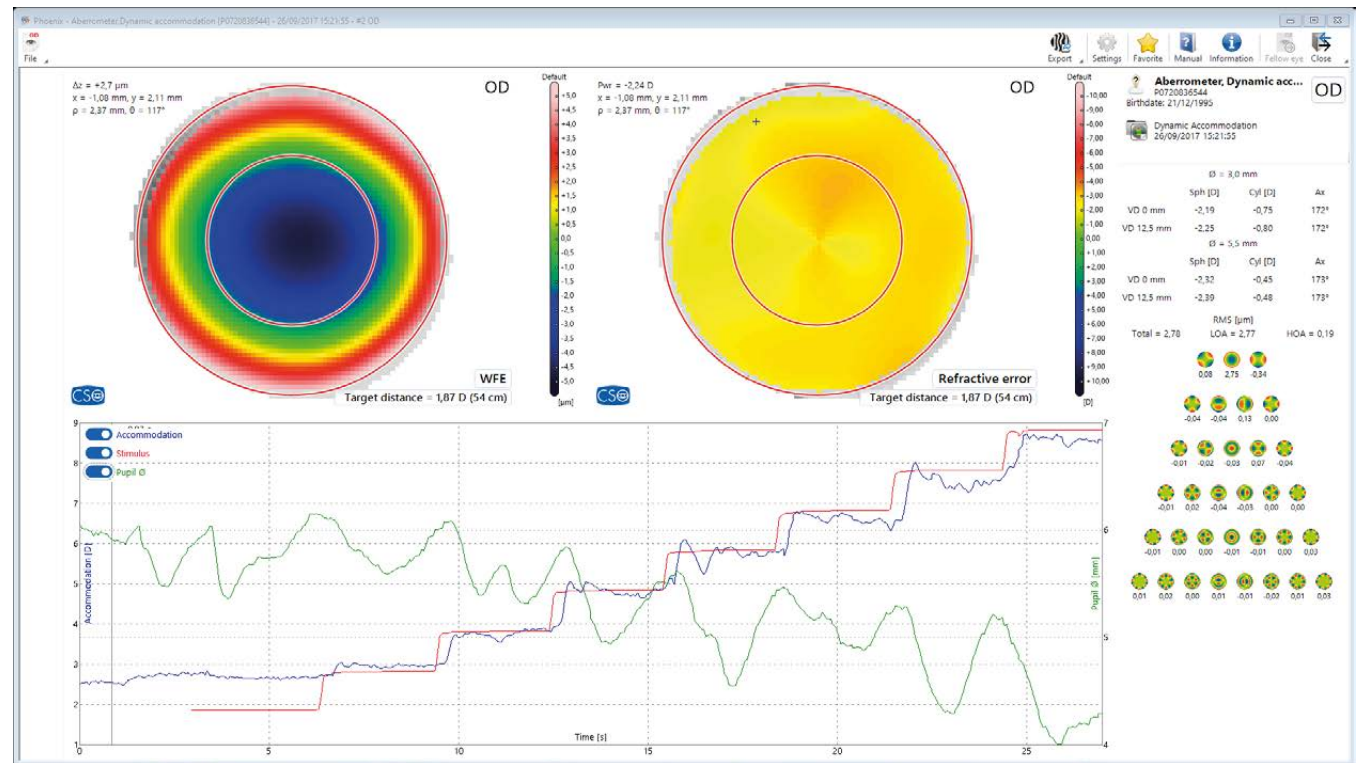


REINSTEIN TORIC PIOL ASSISTANT

The Reinstein Toric pIOL Assistant has been developed to support surgeons during the postoperative assessment of toric phakic IOL (pIOL) implantation. When the postoperative astigmatic outcome differs from the intended target, this tool analyzes the resid-

ual refractive astigmatism and identifies the optimal axis for rotating the toric pIOL. This enables the surgeon to determine the lens orientation that provides the best possible astigmatic correction, helping to optimize the final visual outcome





DYNAMIC ABERROMETRY

Real-time measurement of the ocular wavefront is important for evaluating of the accommodative phases. Customizable exam modes (ramps or square waves) are available to evaluate the patient's ability to focus at near and intermediate distance.

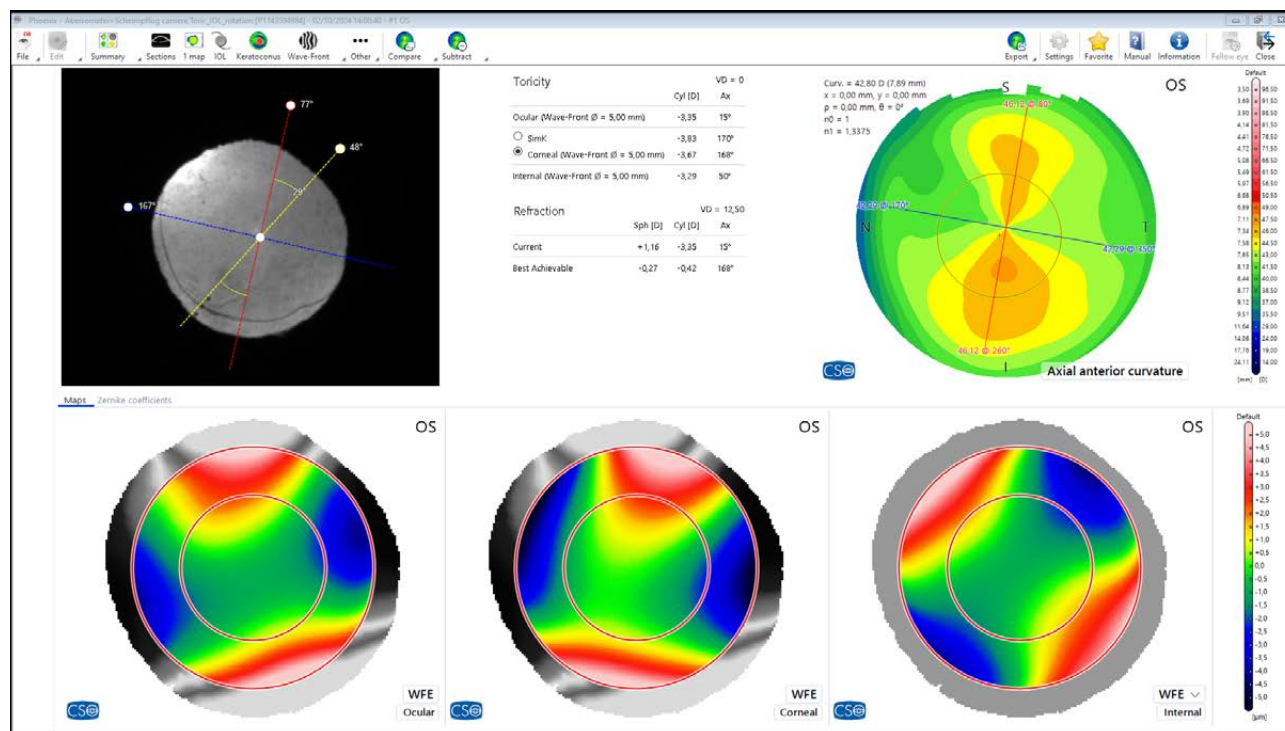
PHOENIX INTEGRATION

Phoenix application software allows for Osiris management and the integration of all CSO devices into a single platform for shared patient and exam storage.

Phoenix facilitates the analysis, comparison, and follow-up of patients' clinical conditions and merges data from different CSO devices to create combined diagnostic summaries.

Osiris ocular aberrometer combined with a CSO tomographer (MS-39 or Sirius+):

Designed for the postoperative assessment of toric IOL implantation, the Toric IOL Assistant determines the optimal toric IOL rotation axis when the achieved astigmatic outcome differs from the intended target, helping maximize astigmatic correction and optimize postoperative visual outcomes.







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 $\pm$ 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 (white light)

ABERROMETRY

Points measured at maximum pupil	45000
Spatial resolution	41 μ m
Pupil size range	2-9mm
Dioptric range	sph from -25D to +15D; cyl up to 10D
Repeatability	0.05D on test eyes

DICOM

DICOM Version 3 ; IHE integration profile: Unified Eye Care Workflow (Eye Care Image, Broad Worklist Query, Patient Based Worklist Query, Encapsulated PDF Option for Evidence Documents, Imaging Procedure Status Update (DICOM), Procedure Status Tracking (DICOM MPPS) Option

For information regarding the minimum requirements for PC and operating systems, please consult your authorized dealer.



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