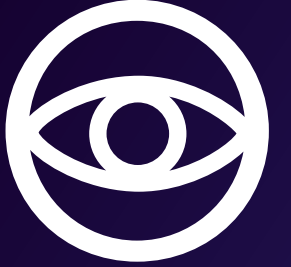




CS 

OSIRIS T

OCULAR
ABERROMETER
CORNEAL
TOPOGRAPHY

CS

OSIRIS-T OCULAR ABERRROMETER CORNEAL TOPOGRAPHER

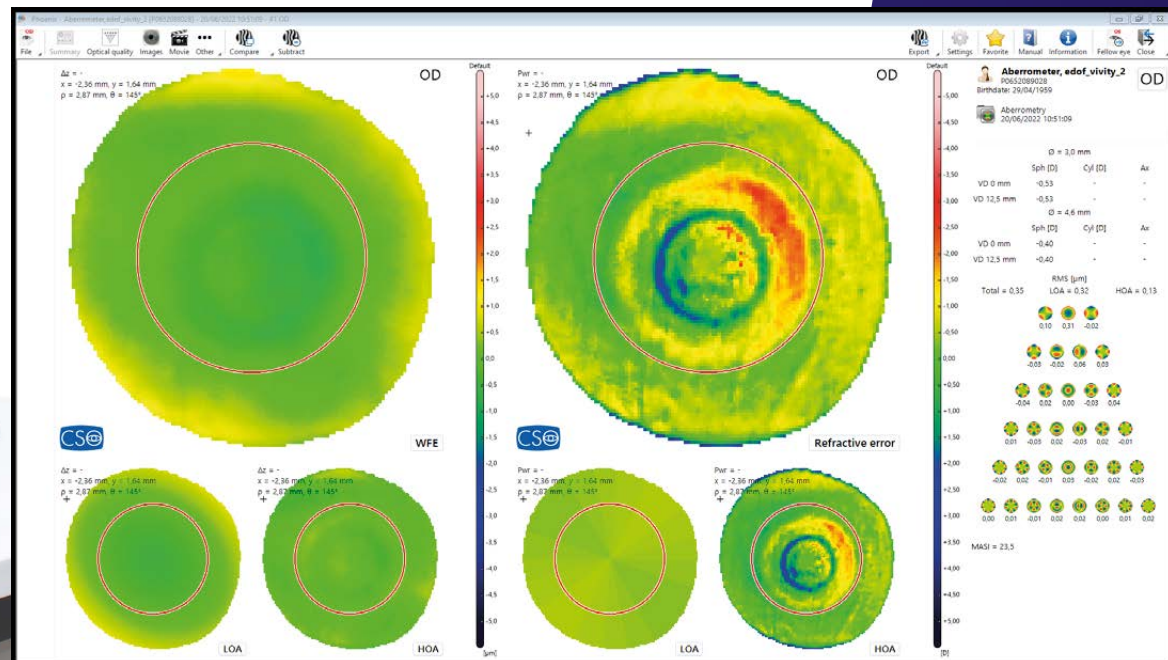
Osiris-T provides a comprehensive assessment of the eye's optical performance by combining corneal topography with ocular aberrometry. It accurately characterizes conventional low-order refractive errors as well as higher-order aberrations arising from both the cornea and internal ocular structures, providing a complete overview of the eye's optical quality.

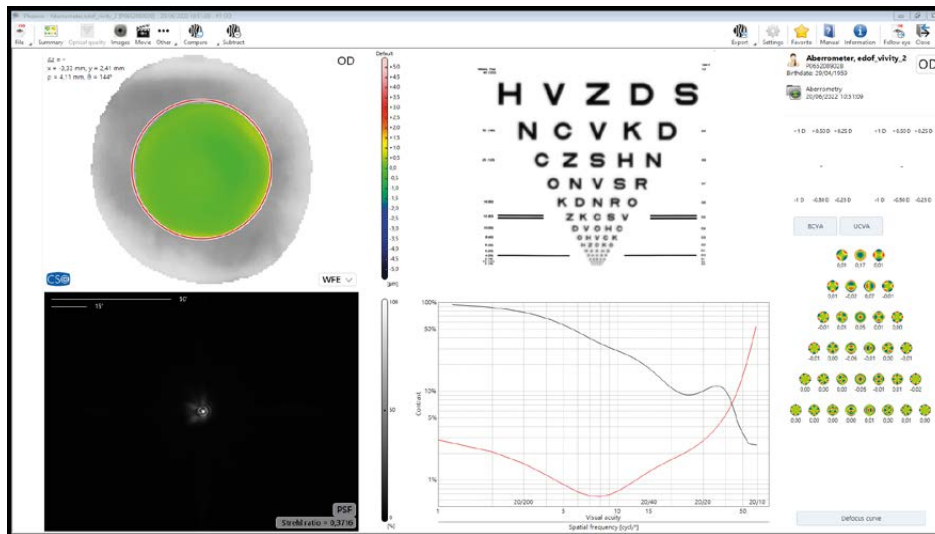




OCULAR ABERROMETRY

The Osiris-T 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.

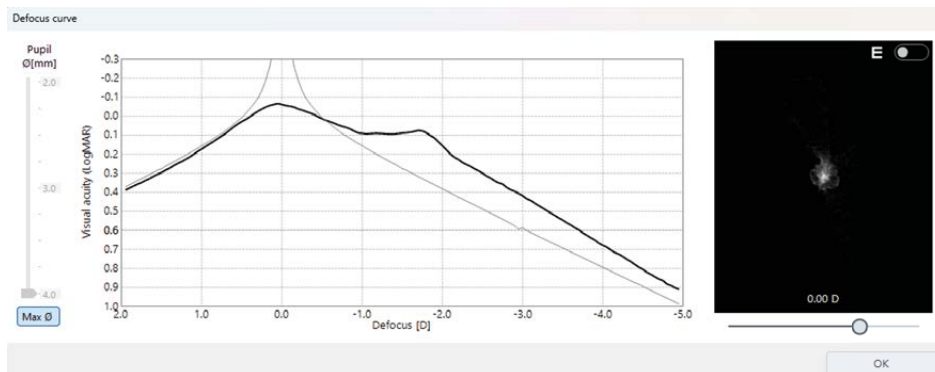




The software application offers a wide range of analysis options, such as refractive error maps and visual simulations (PSF, MTF and convolution with optotype), which helps the clinician to understand and explain the patient's visual problems.

OBJECTIVE DEFOCUS CURVE MEASUREMENT

Osiris-t 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

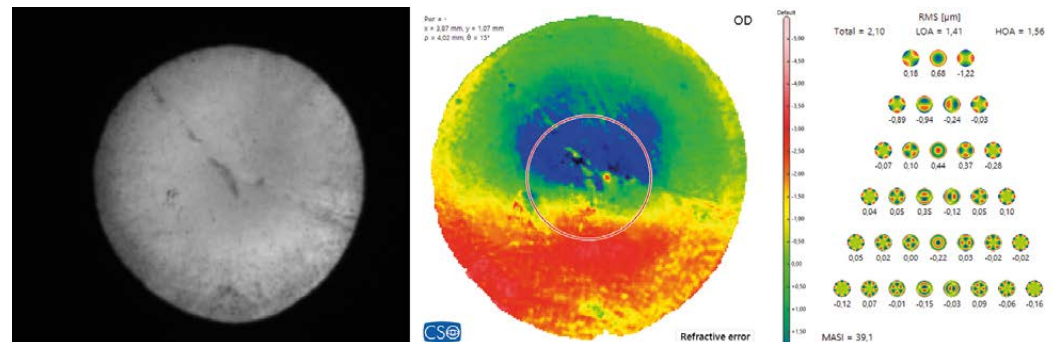


DENSITOMETRY

Osiris-T provides back-scattered images of the eye's optical media, enabling the evaluation of opacities.

MA SI INDEX

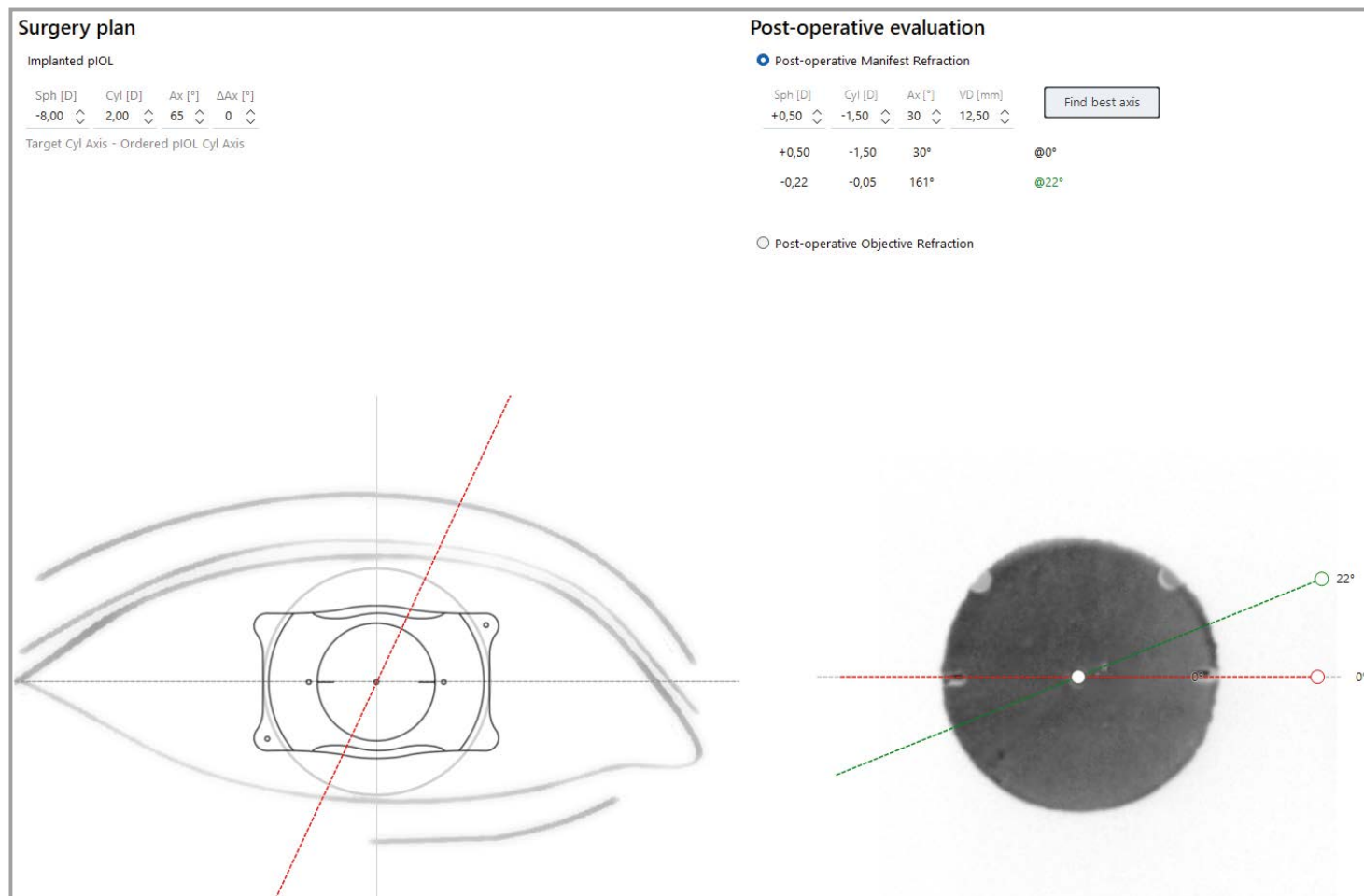
The Micro Aberration Scattering Index (MASI) helps in the evaluation of the super-high orders irregularity of the wavefront



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-

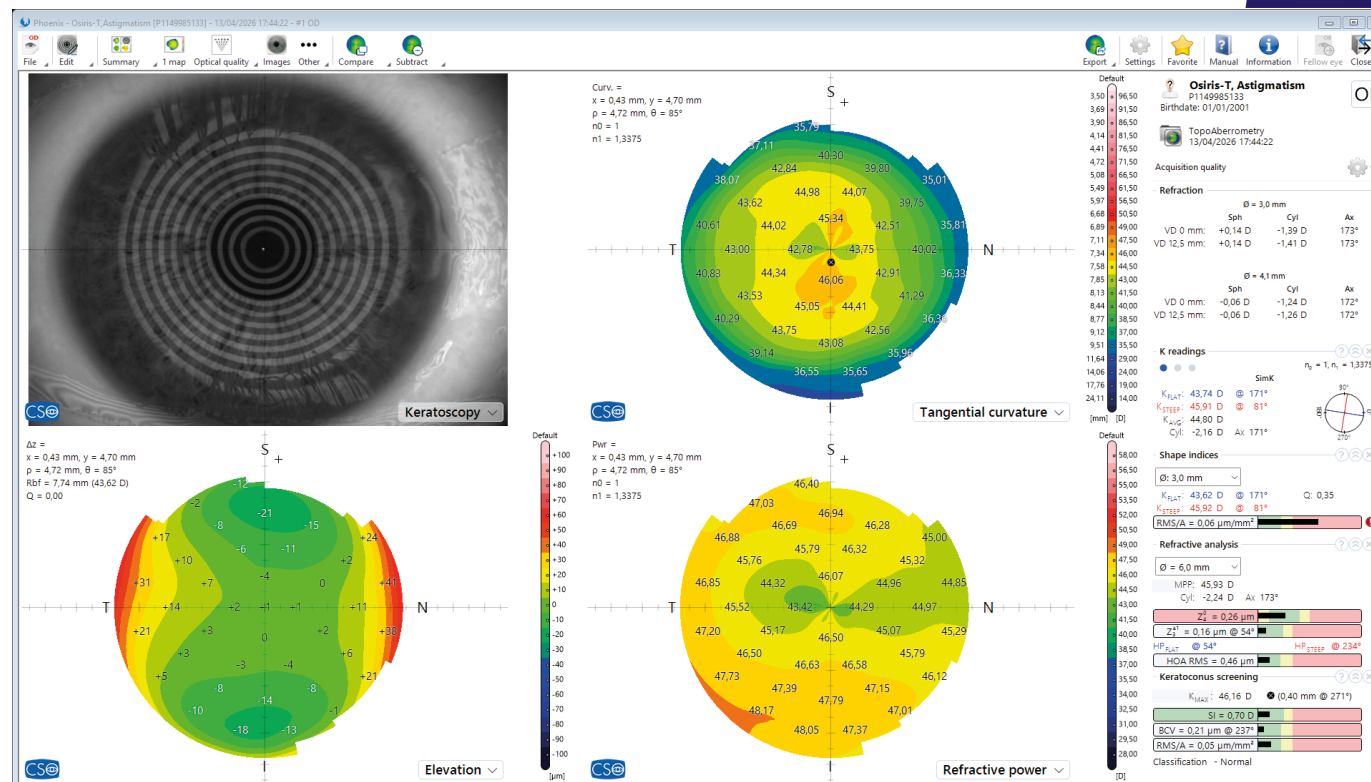
ual refractive astigmatism and identifies the optimal axis for rotating the toric pIOL. This enables the surgeon to determine the lens orientation that provides the best possible astigmatic correction, helping to optimize the final visual outcome

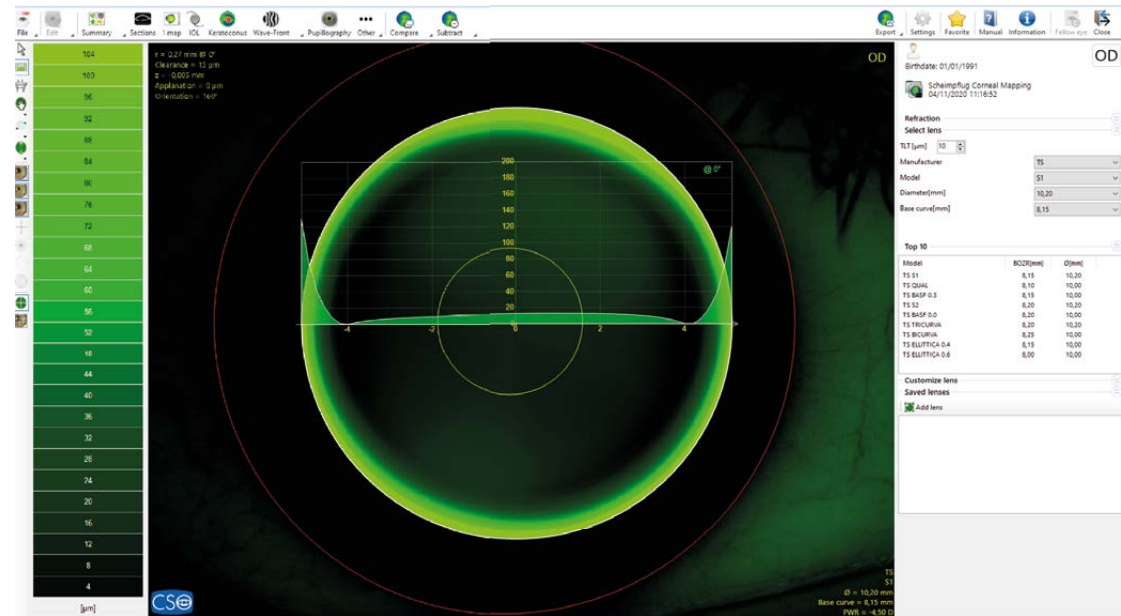
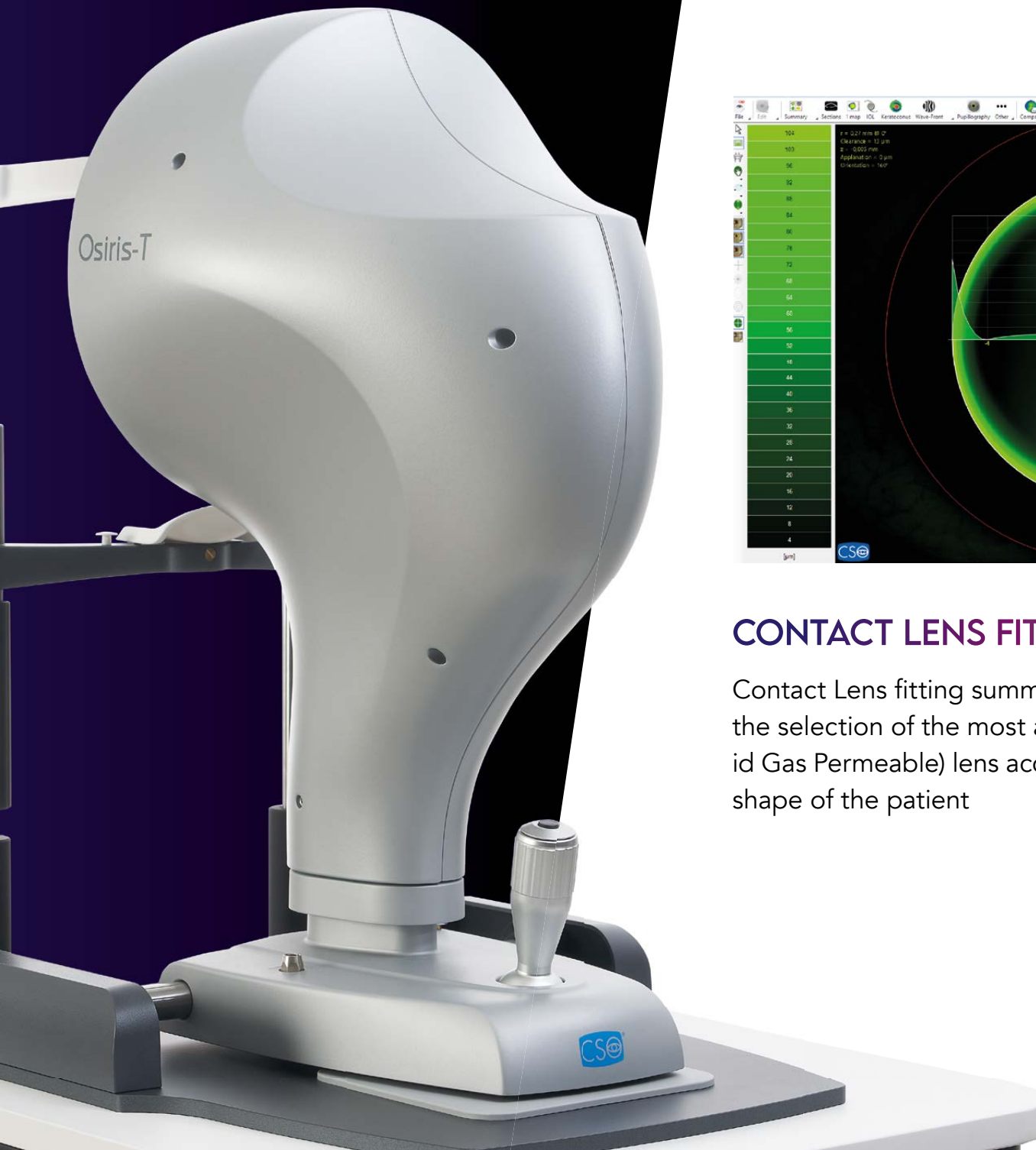


CORNEAL TOPOGRAPHY

Using a reflection based topography system, Osiris-T is able to evaluate the morphology of the anterior surface of cornea by the mean of curvature, elevation and power maps. The availability of consoli-

dated synthesis indices, makes the exam evaluation simple and intuitive. The integration of topography and aberrometry enables the calculation of the internal component of the wavefront.





CONTACT LENS FITTING

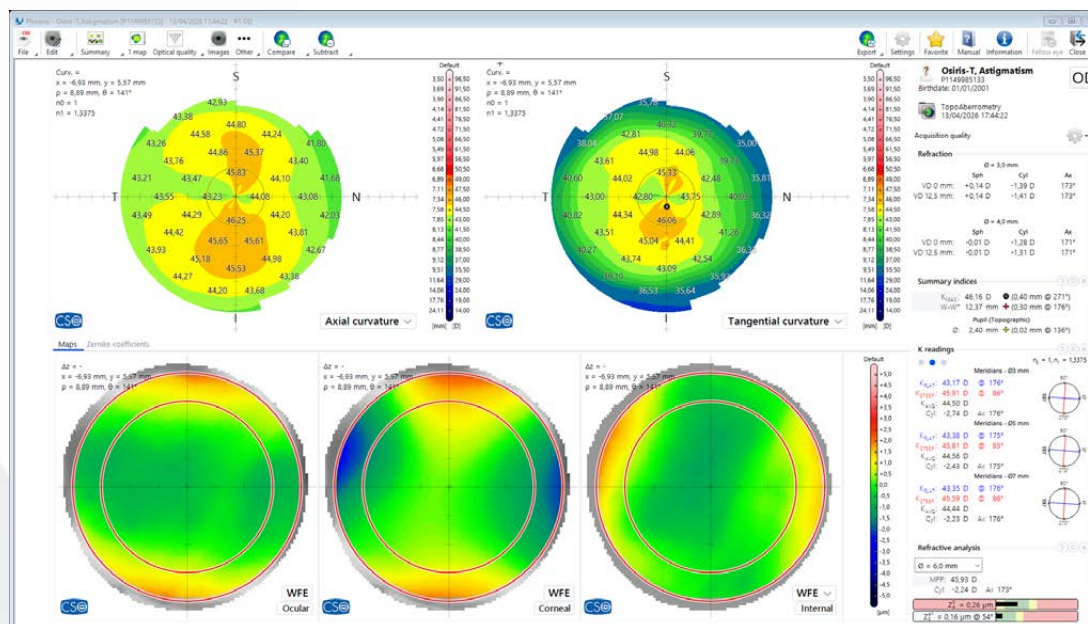
Contact Lens fitting summary assists the user in the selection of the most appropriate RGP (Rigid Gas Permeable) lens according to the corneal shape of the patient



Osiris-T

TOPO-ABERROMETRY SUMMARY

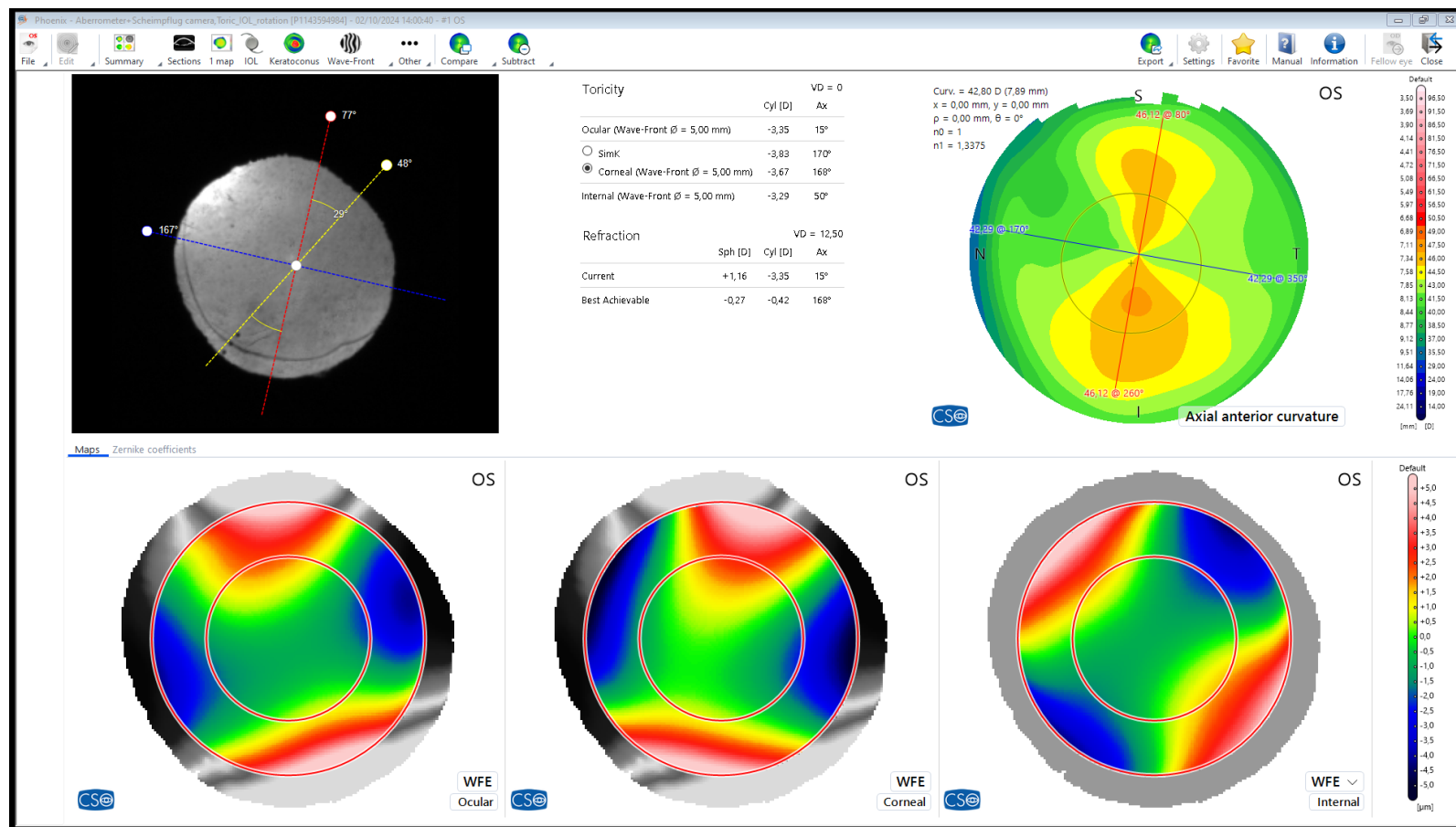
Aberrometry and topography data are also presented in a comprehensive summary, highlighting the key maps and indices related to both functions



TORIC IOL ASSISTANT

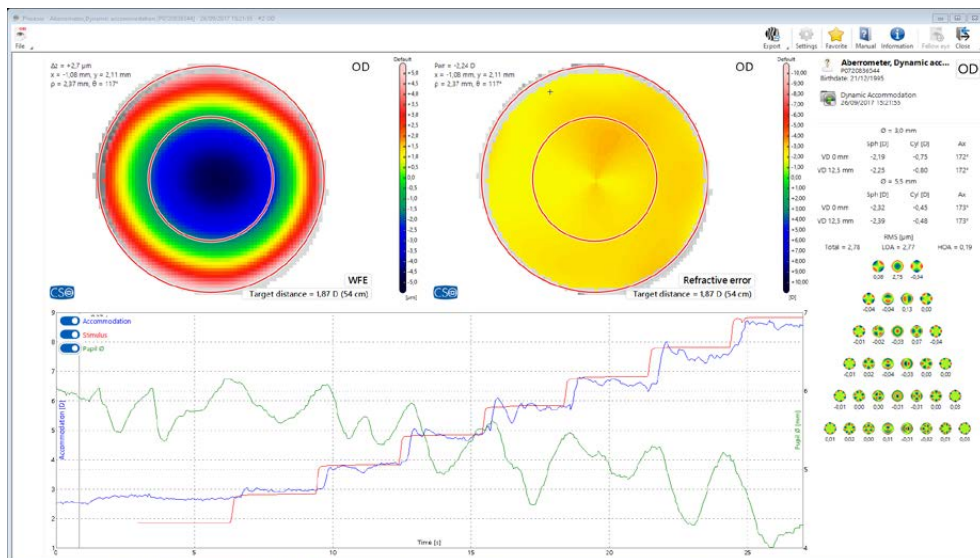
The Toric IOL Assistant has been developed to support surgeons during the postoperative assessment of toric IOL implantation. When the postoperative astigmatic outcome differs from the intended target, the software analyzes corneal astigmatism, internal

astigmatism, and residual refractive astigmatism to determine the optimal axis for toric IOL rotation. This enables the surgeon to identify the lens orientation that maximizes astigmatic correction, helping to optimize postoperative visual outcomes



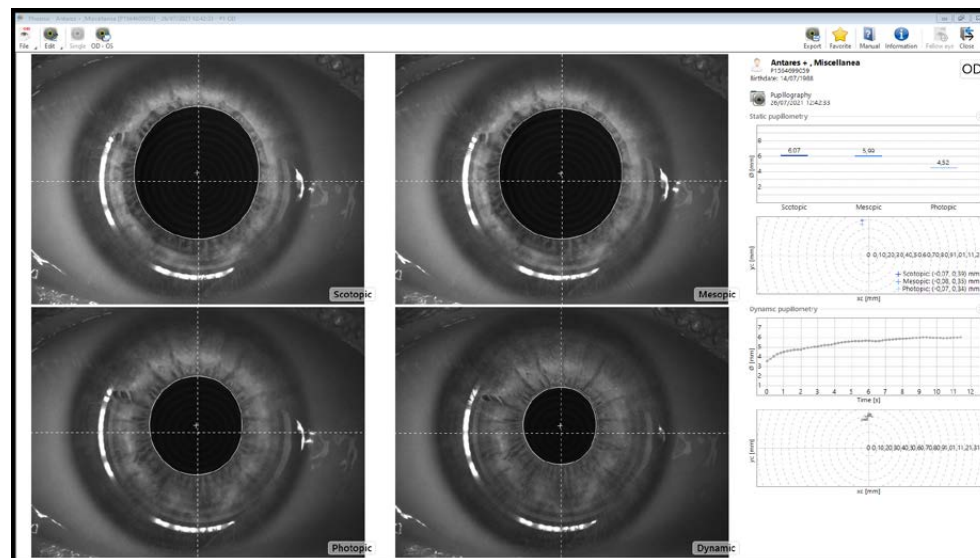
DYNAMIC ABERROMETRY

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.



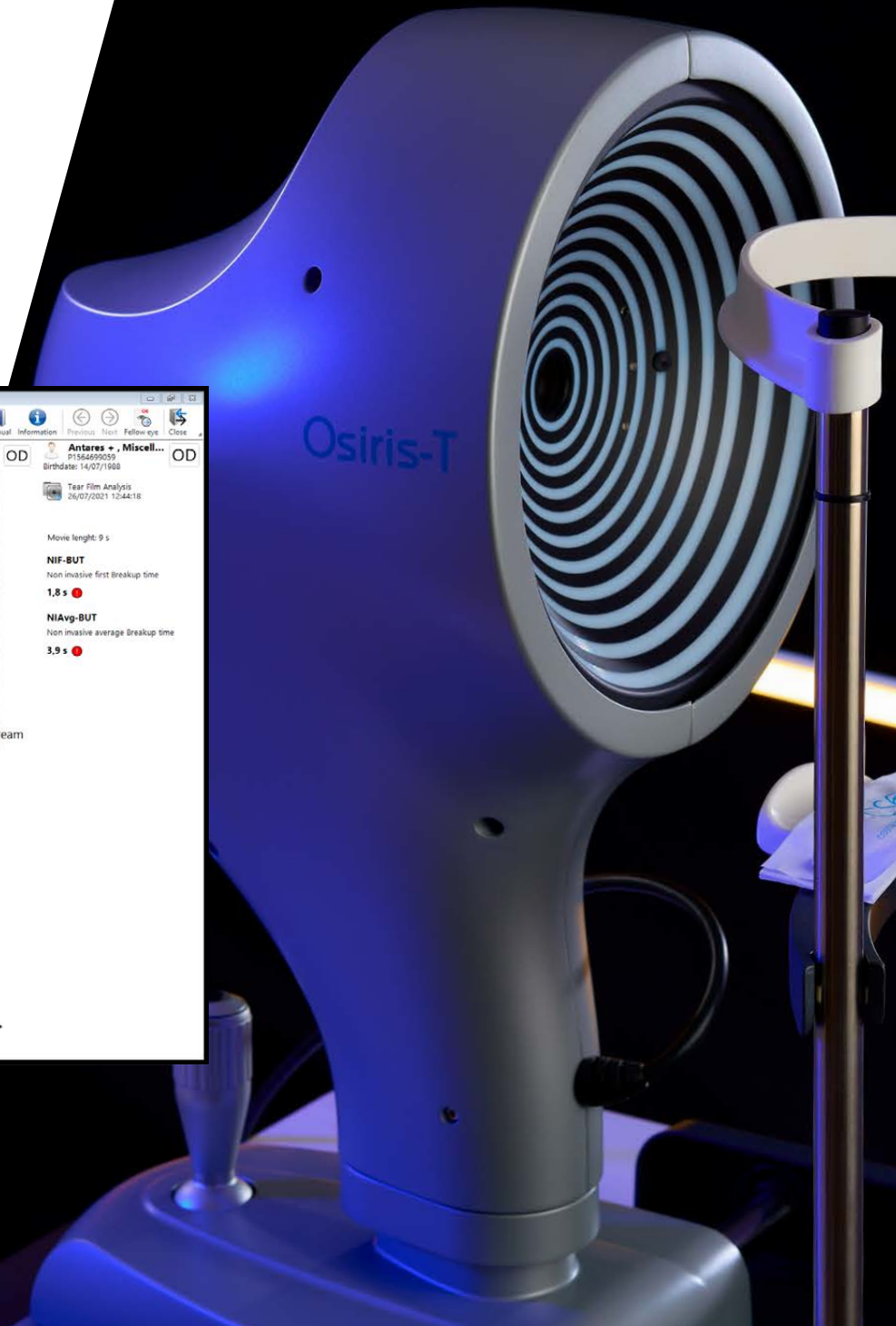
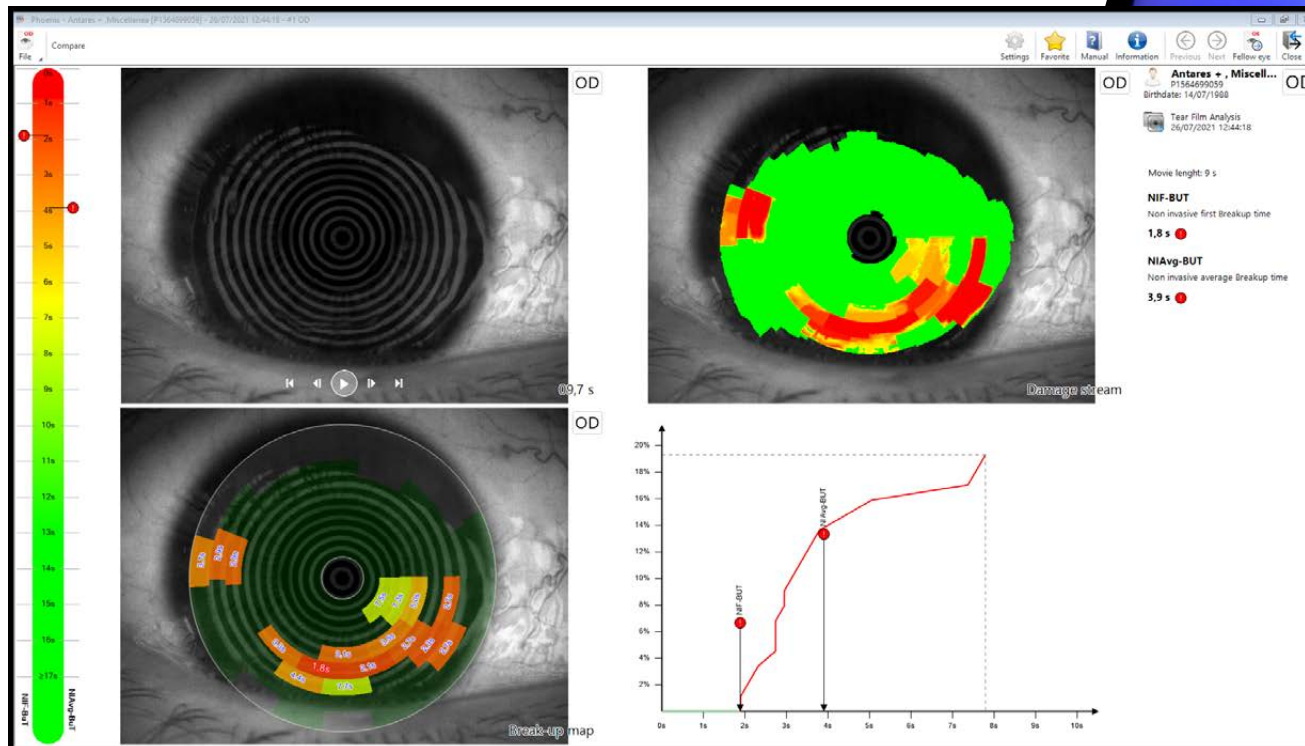
PUPILLOGRAPHY

The integrated pupillography module allows for the evaluation of pupil diameter across scotopic, mesopic, photopic, and dynamic lighting conditions, providing essential information for many clinical procedures which seek to optimize vision quality



TEAR FILM ANALYSIS

Based on Placido disc rings reflection, Osiris-T is able to evaluate tear film stability through a non-invasive tear film break-up test



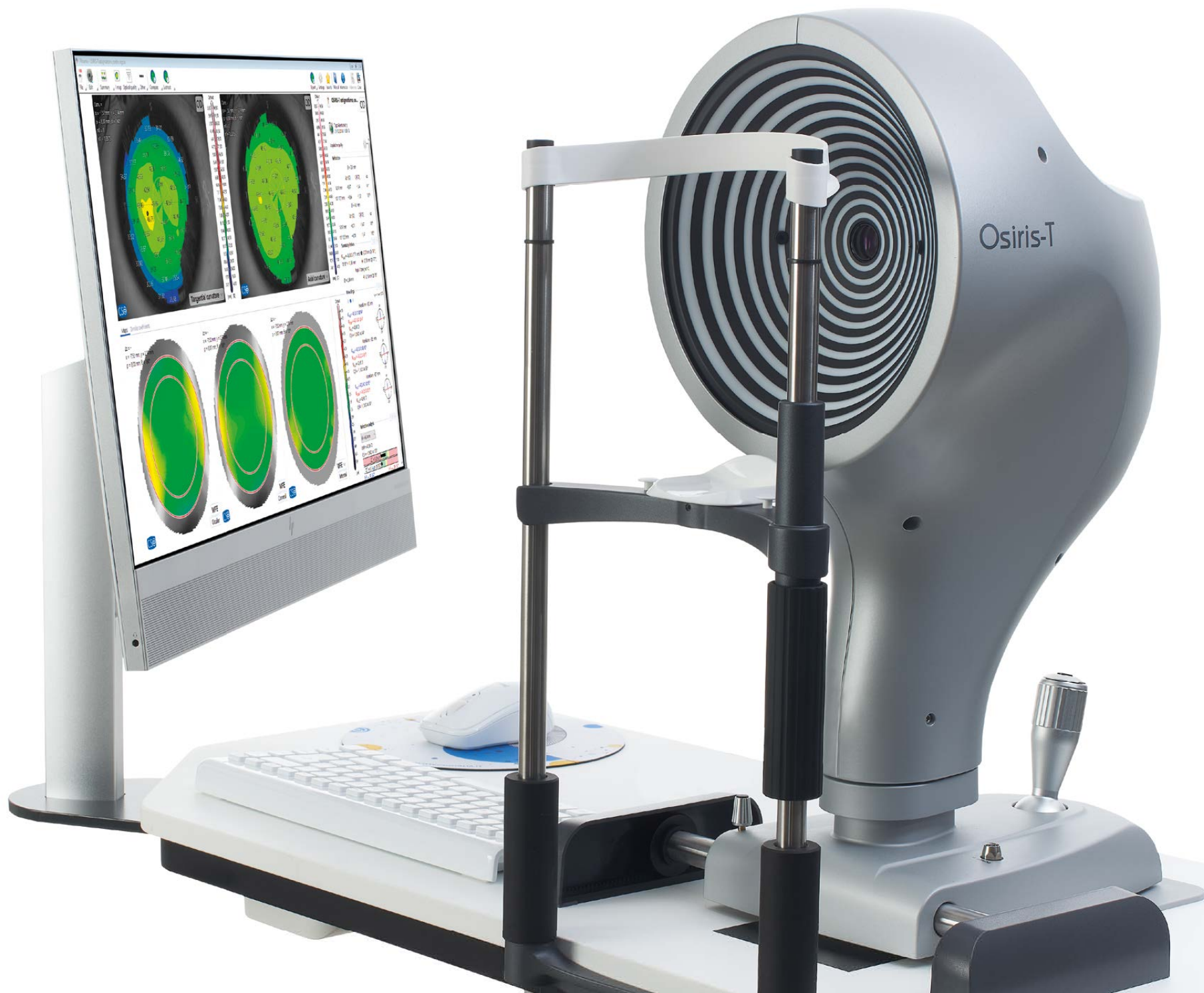
PHOENIX APPLICATION SOFTWARE INTEGRATION

Phoenix application software allows for Osiris-T 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-T Ocular aberrometer in combination with other CSO devices, enables the evaluation and classification of dry eye disease according to the DEWS III criteria (Dry Eye Workshop III) through a wide range of tear film tests

	Antares+	Sirius+	MS-39	Osiris-t	SL9900_99K ELITE	SL9900_99K with Mizar camera
OSDI questionnnaire	✓	✓	✓	✓	✓	✓
NIBut	✓	✓	✓	✓	✗	✗
Conjunctival redness	✓	✓	✗	✗	✓	✓
Papillary conjunctivitis	✓	✓	✗	✗	✓	✓
Corneal fluorescein staining	✓	✓	✗	✗	✓	✓
Conjunctival lissammine green staining	✓	✓	✗	✗	✓	✓
Lid Wiper	✓	✓	✗	✗	✓	✓
Meibomian glands ducts analysis	✓	✓	✗	✗	✓	✓
Meibography	✓	✓	✓	✗	✓	✗
Lipid layer interferometry	✓ It requires the Placido light diffuser	✓	✗	✗	✓ It requires Polaris	✓ It requires Polaris
Tear meniscus height	✓	✓	✗	✗	✓	✓
Blink rate	✓	✗	✗	✗	✗	✗
Osmolarity To be Imported by 3° party devices	✓	✓	✓	✓	✓	✓
MMP-9 To be Imported by 3° party devices	✓	✓	✓	✓	✓	✓
IgE To be Imported by 3° party devices	✓	✓	✓	✓	✓	✓
LT-α To be Imported by 3° party devices	✓	✓	✓	✓	✓	✓





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	with plug C14
Dimensions (HxWxD)	515 x 315 x 255mm
Weight	6.9Kg
Chin rest movement	70mm $\pm$ 1mm
Minimum height of the chin cup from the table	24cm
Base movement (xyz)	105 x 110 x 30mm
Working distance	74mm

LIGHT SOURCES

Aberrometer	Led @850nm
Fixation	Led @450-650nm (white light)
Placido	Led @635nm
Pupillometry and auxiliary	Led @780nm

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

TOPOGRAPHY

Placido rings	22
Measured points	5632
Topographic covering (in 43D)	10mm
Dioptric measurement range	from 1D to 100D
ISO 19980;2021	Compliant (Class A)

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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