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ANTARES+

CORNEAL
TOPOGRAPHER

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CORNEAL TOPOGRAPHER

Antares+ is a Placido disc based corneal topographer for the analysis of the anterior surface of cornea.

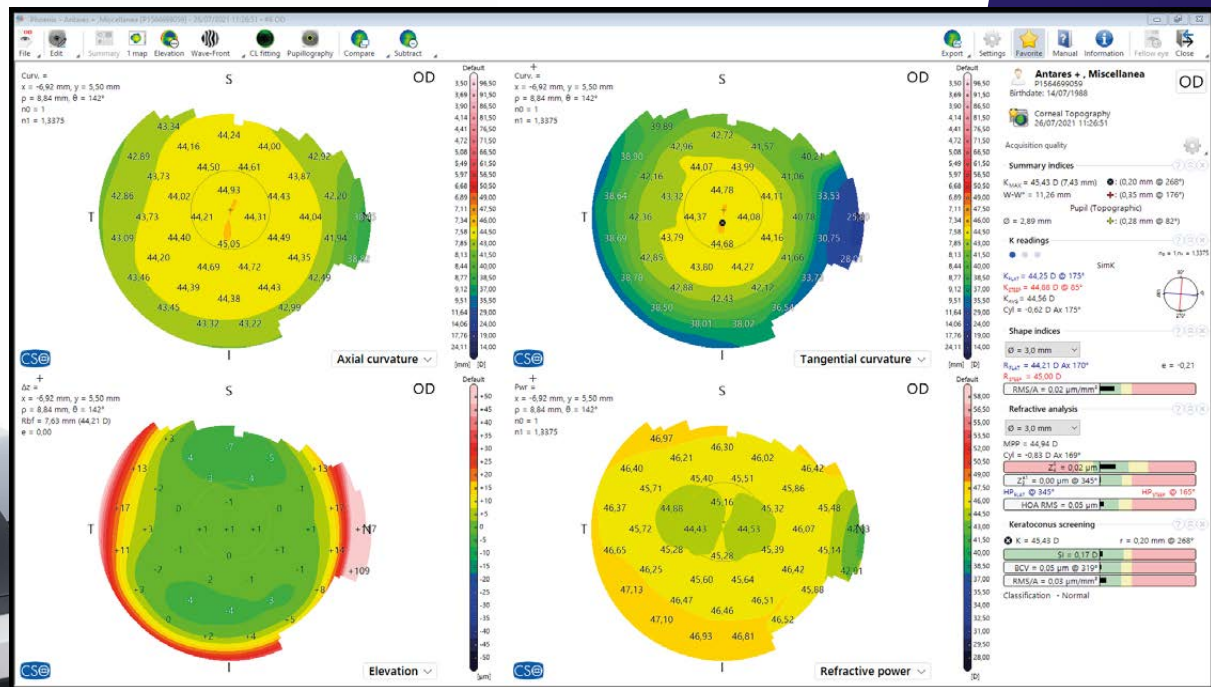
Additionally, Antares+ features pupil diameter measurement, Meibomian gland loss analysis, tear film analysis and a video keratotomy module for ocular surface imaging.





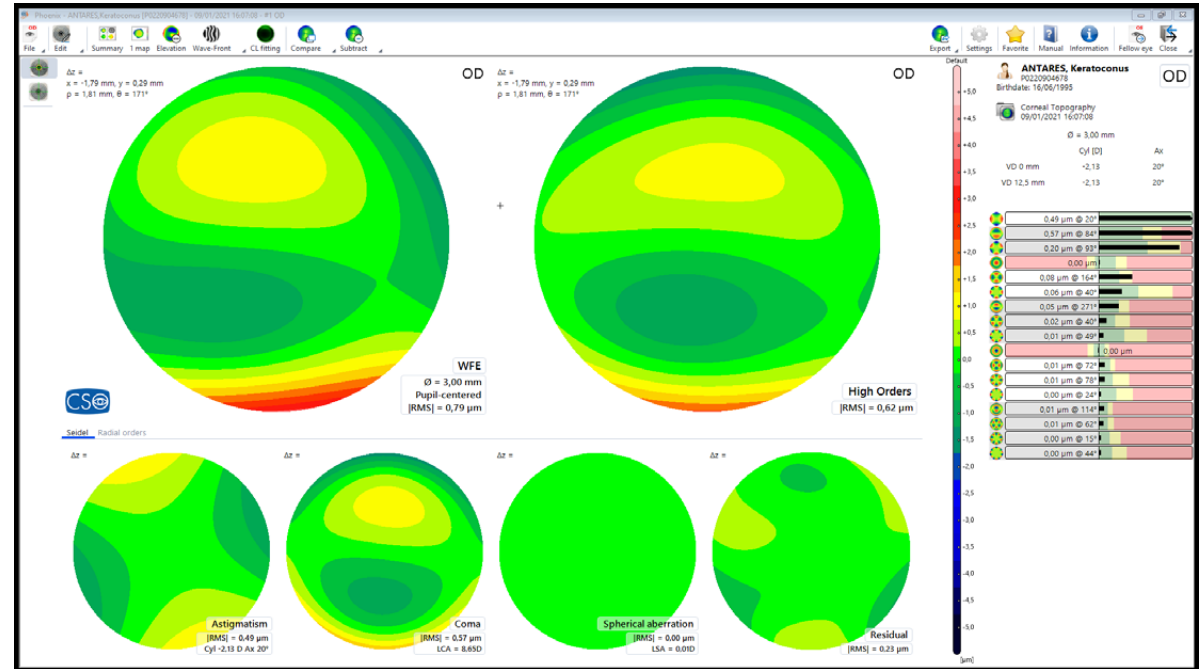
CORNEAL TOPOGRAPHY

An updated focusing system makes the topographic acquisition of the anterior corneal surface extremely fast and accurate. Curvature, elevation, and refractive power maps and the related indices analyses are displayed in diagnostic summaries customizable by the user.



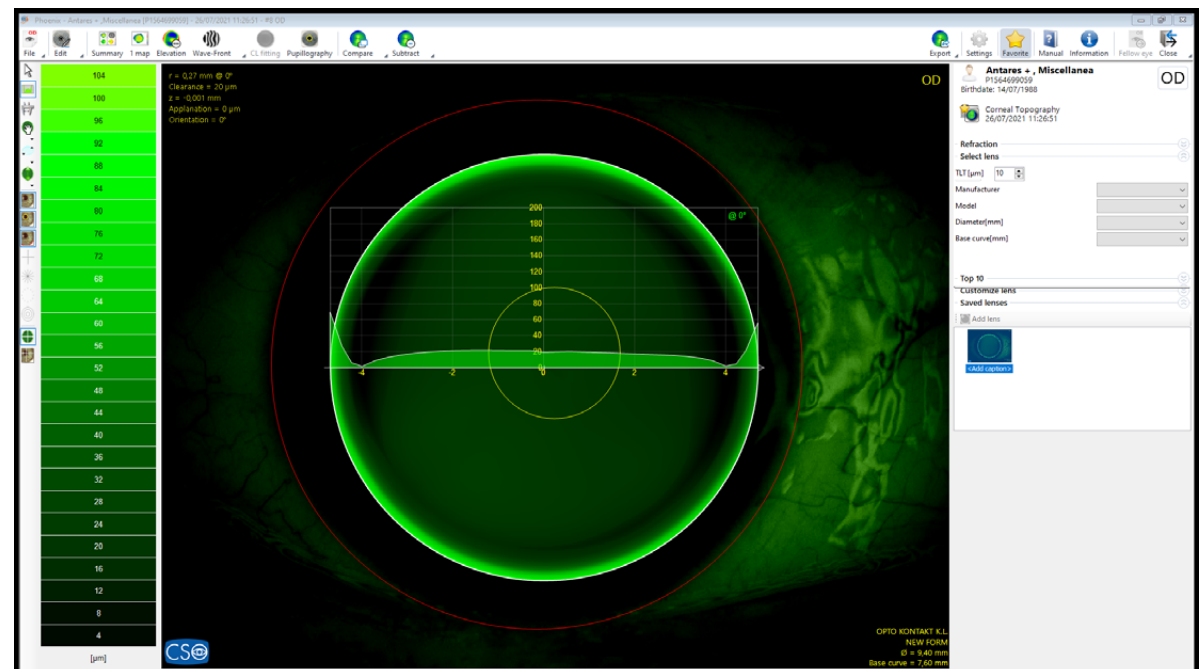
CORNEAL ABERROMETRY AND OPTICAL QUALITY SUMMARY

The aberrometric analysis of the anterior surfaces uses Zernike polynomials to comprehensively assess wavefront abnormalities across various simulated pupil diameters. Additionally, Antares+ provides valuable insights into the optical quality of the cornea through parameters such as Point Spread Function (PSF), Modulation Transfer Function (MTF), and simulated visual acuity.



CONTACT LENSES 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.

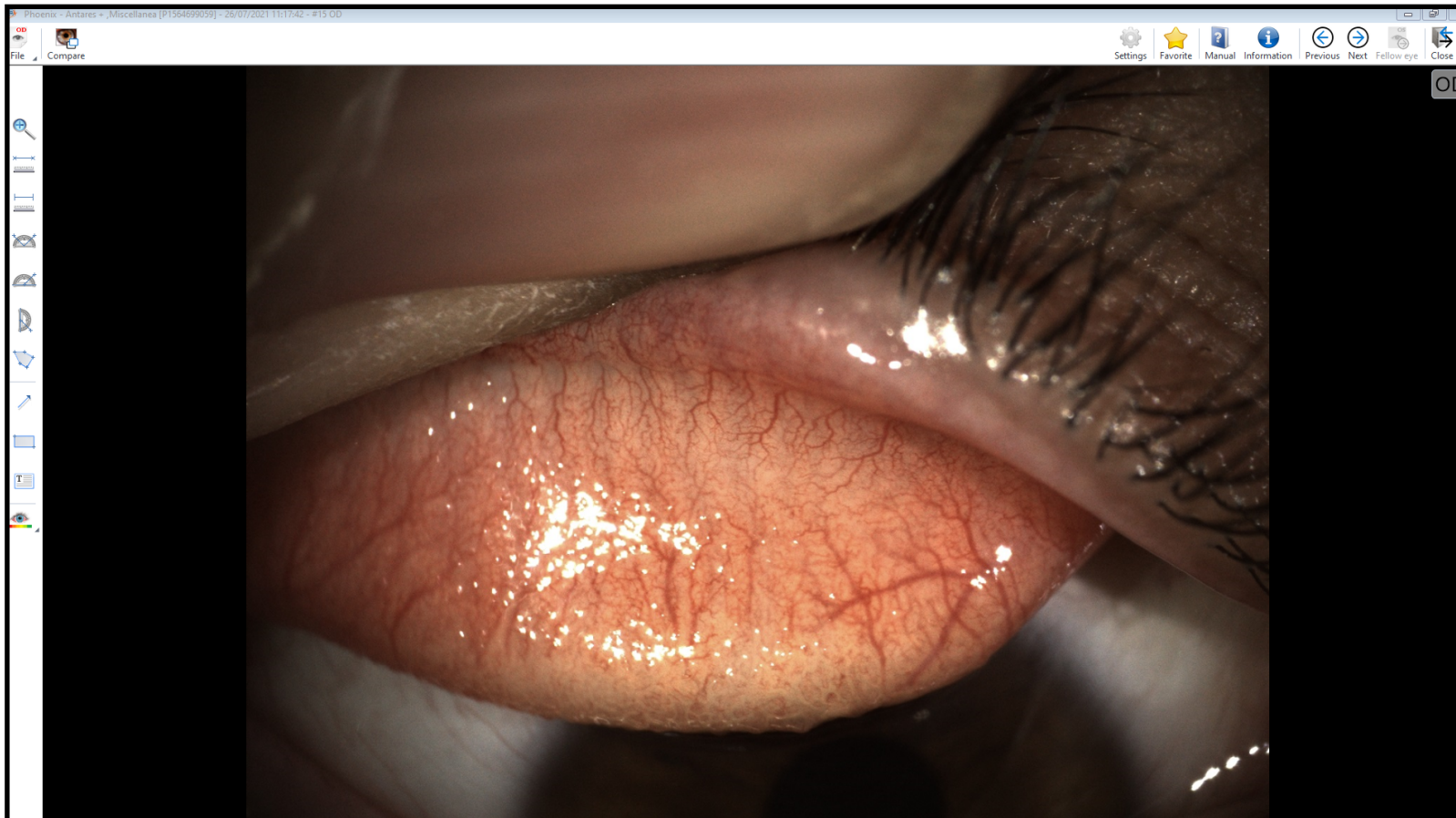


VIDEO KERATOGRAPHY

Antares+ system utilizes a keratoscope with white light and diffuse illumination provided by white LEDs, enabling the acquisition of color photos and videos of the ocular surface. The inclusion of blue LEDs, combined with an external yellow filter facili-

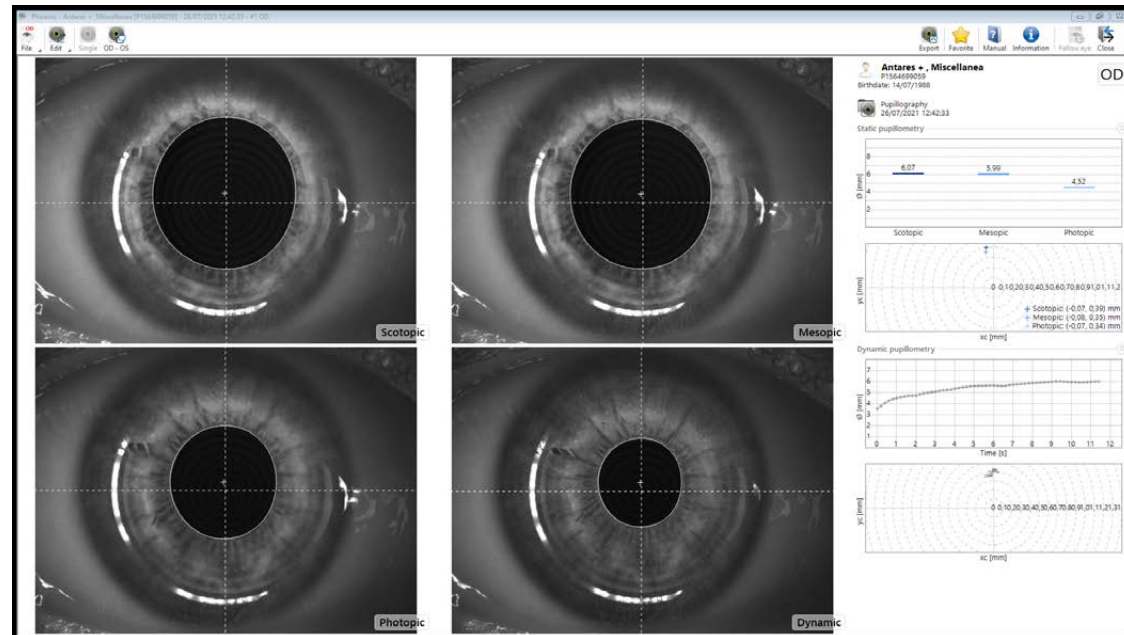
tates the observation, centration check, and fitting of fluorescein-stained contact lenses. Additionally, a light diffuser* can be installed in front of the Placido disc to analyze the tear film lipid layer.

**not provided in the standard configuration*



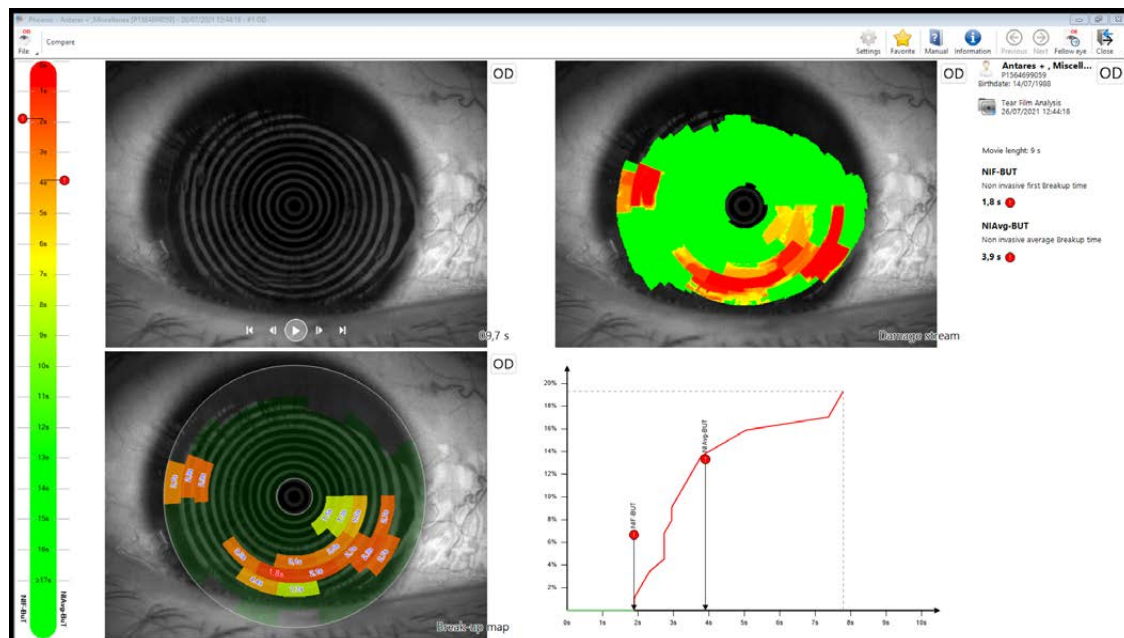
PUPILLOGRAPHY

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.



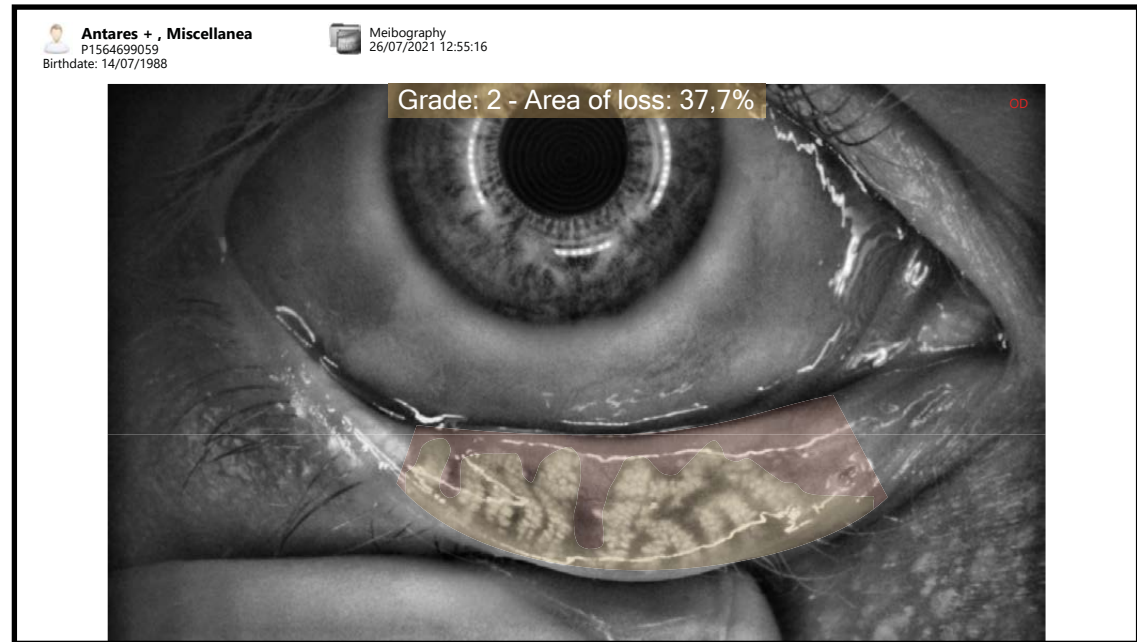
TEAR FILM ANALYSIS

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



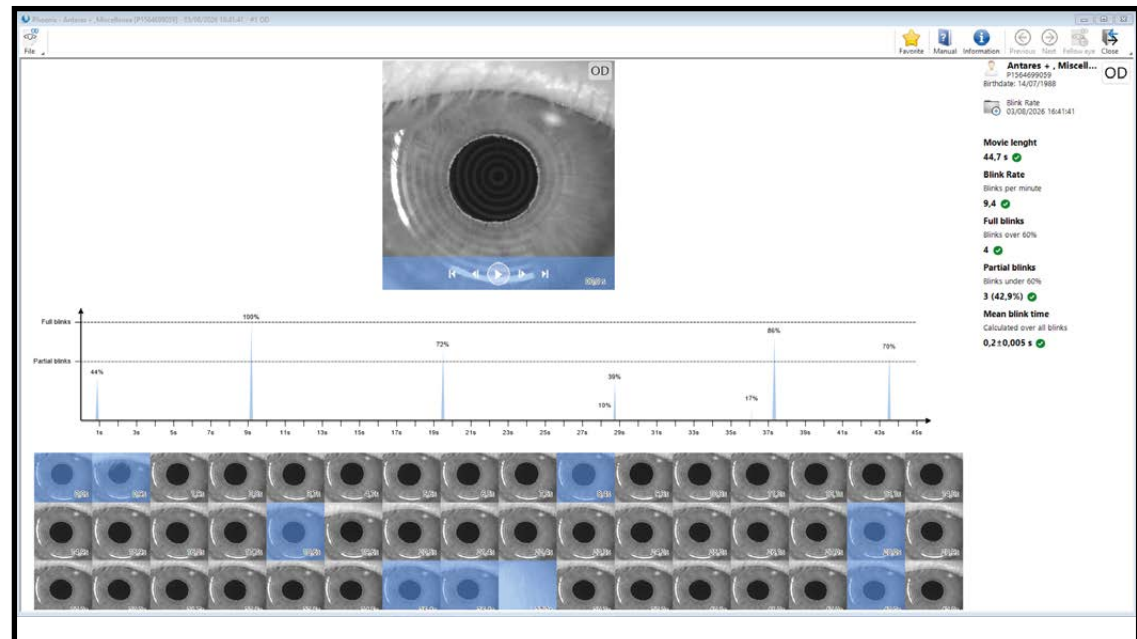
MEIBOGRAPHY

The infrared illumination is utilized for imaging the meibomian glands. Software analysis and grading scales assist physicians in evaluating Meibomian glands loss.



BLINK RATE

Records blink frequency and completeness to support the evaluation of blink-related factors that may affect tear-film distribution and ocular surface exposure.





Antares+

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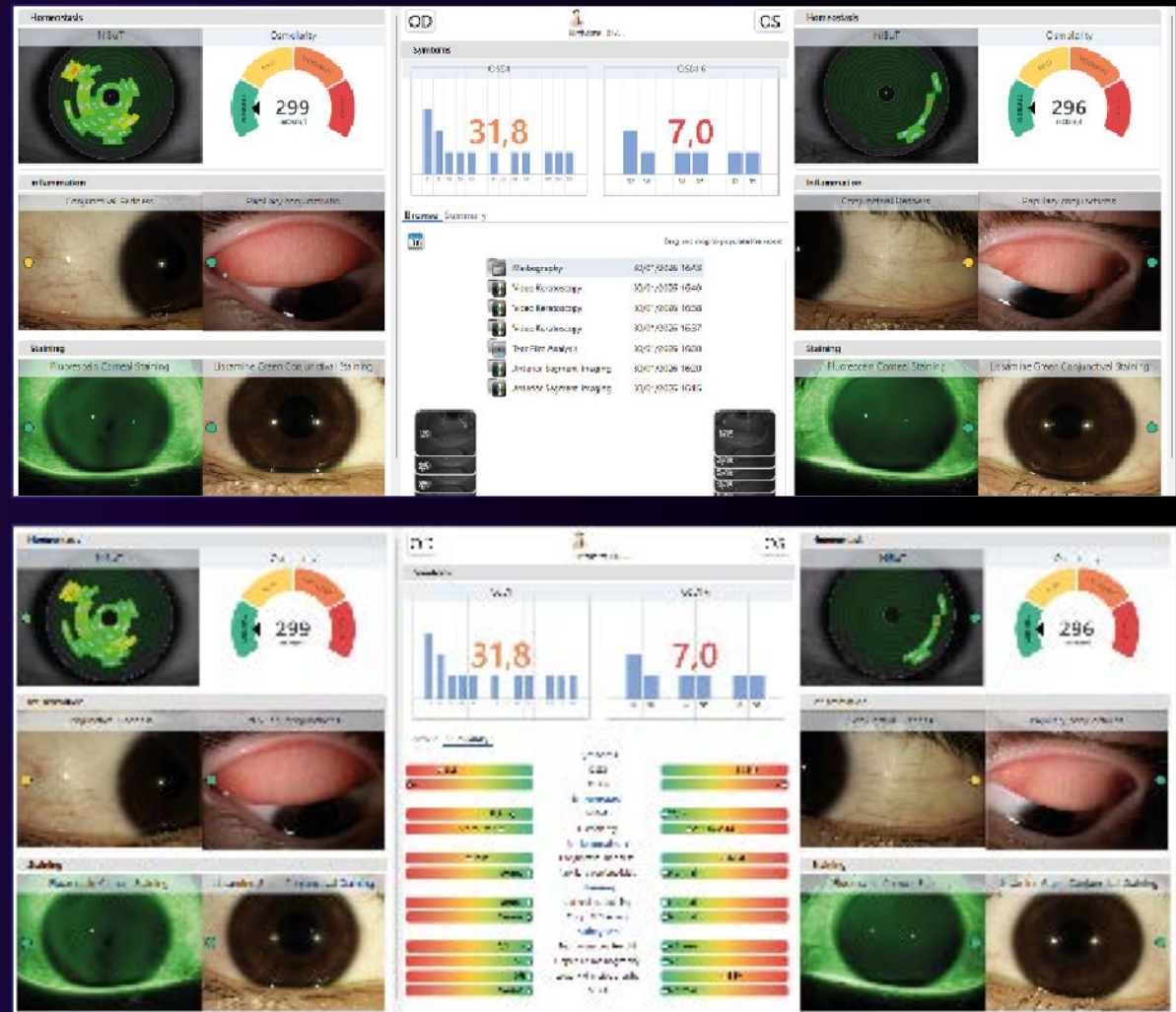
ANTARES+ TRANSDUCER

DRY EYE REPORT

Antares+ 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

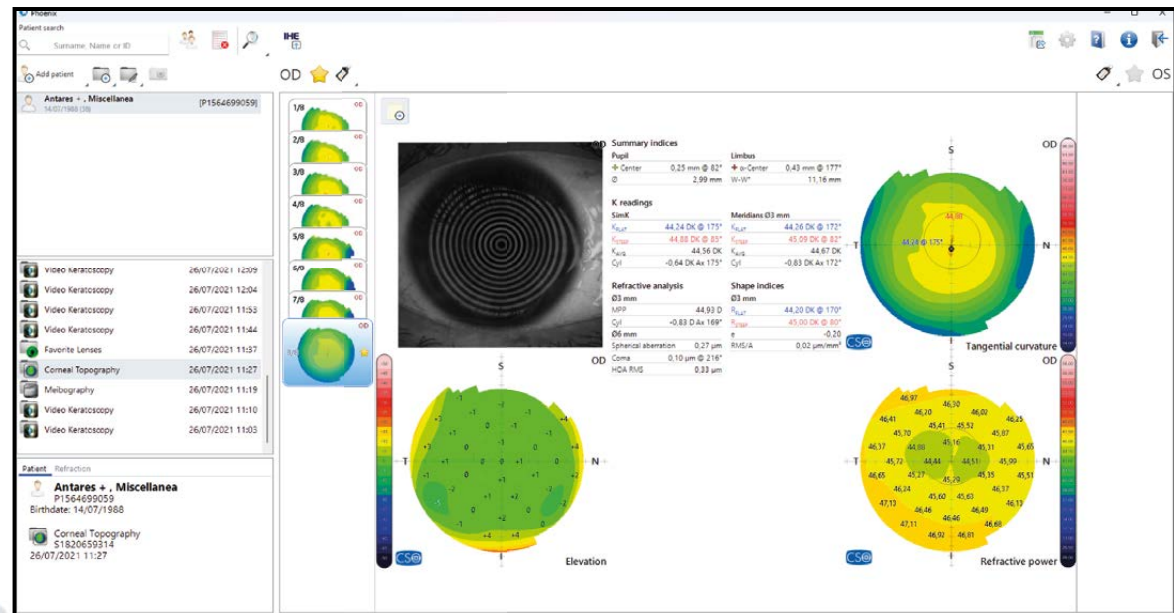
- OSDI questionnaire
- Non-invasive break-up time (NIBut)
- Conjunctival redness
- Papillary conjunctivitis
- Corneal fluorescein staining
- Conjunctival lissamine green staining
- Lid wiper
- Meibomian glands ducts analysis
- Meibography
- Lipid layer interferometry*
- Tear meniscus height
- Blink rate
- Osmolarity
(to be imported from a third-party device)
- MMP-9 analysis
(to be imported from a third-party device)
- IgE analysis
(to be imported from a third-party device)
- LT- α analysis
(to be imported from a third-party device)

**the light diffuser for lipid layer assessment is not included in the standard configuration*



PHOENIX APPLICATION SOFTWARE

Phoenix application software allows for Antares+ management and for the integration of all CSO devices into a single platform for a shared storage of patients and exams. Phoenix facilitates the analysis, comparison, and follow-up of patients' clinical conditions.





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 (HxDxW)	515 x 315 x 255mm
Weight:	6.5Kg
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	74mm

LIGHT SOURCES

Placido disk	LED @450-650nm (white light)
Pupillography and Meibography	LED @940nm
Auxiliary White	LED @450-650nm (white light)
Fluorescein stimulation	LED @470nm

TOPOGRAPHY

Placido disk rings	24
Measured points	6144
Topographic coverage	10mm (on a 43D sphere)
Measurement accuracy	Compatibility with standard Class A according to the UNI EN ISO 19980

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

ACCESSORIES

Light diffuser filter for auxiliary illumination with magnetic lock (not included in the standard configuration)

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



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CSO s.r.l. • Via degli Stagnacci 12/E
50018 Scandicci - FI • Italy

www.csoitalia.it

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