

ANTARES



Topographer



CORNEAL TOPOGRAPHY MODULE

- Assisted manual acquisition
- Advanced ring editing system
- Available maps:
 1. Sagittal curvature map
 2. Angular curvature map
 3. Altimetry
 4. Refractive power
 5. Gaussian curvature map



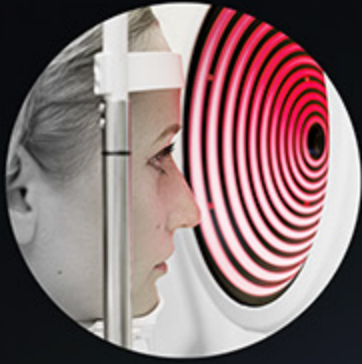
PRODUCT DESCRIPTIONS

ANTARES provides a multi topography report from the images captured from the built-in digital video camera. This device includes an editing software which allows you to edit edge position for proper reconstruction on all distorted surfaces.

VIDEOKERATOSCOPY MODULE

- Tear film examination with white light
- Tear film examination with fluorescein
- Break-up time measurement.
- Examination of tear layers.
- Examination of rigid LAC clearance with fluorescein





CORNEAL MEASUREMENTS

ANTARES topography function provides information about the curvature, elevation and refractive power of the cornea. Also provides many parameters to aid in the diagnosis and monitoring the corneal surface.



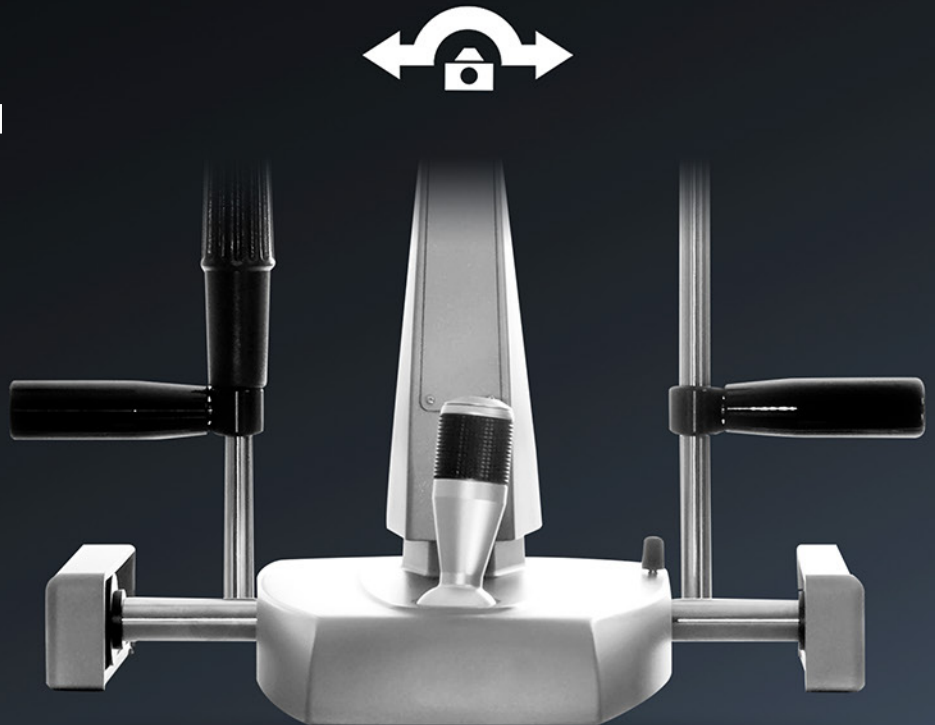
PUPILLOMETRY MODULE

- Pupillometry with scotopic light to determine pupil maximum extension and optic zone diameters for treatment settings.
- Pupillometry with mesopic light (4 lux)
- Pupillometry with photopic light (50 lux)
- Dynamic pupillometry, starting with over 400 lux and switching off the light source so that the pupil can dilate to its maximum extension
- Evaluation of pupil decentralization from the corneal vertex and calculation of the pupil centre during dilation.

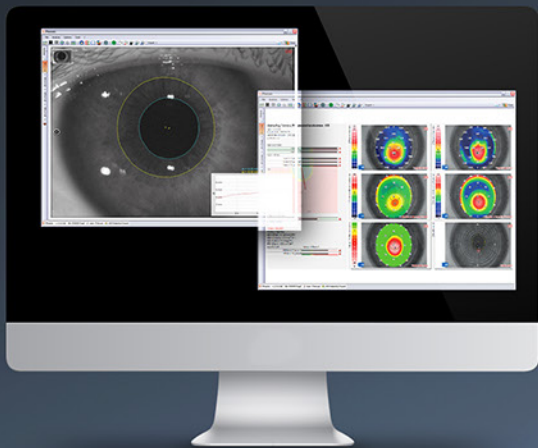
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KEY PRODUCT FEATURES

HIGH PRECISION ACQUISITION



DATA AND ANALYSIS



- Pupillography
- Fluorescein Imaging
- Lipid layer pattern imaging
- Advanced Analysis of the Tear Film
- Contact Lenses Application Module
- Tear meniscus height imaging and measurement
- Meibomian glands analysis, imaging & screening
- Keratoconous screening and detection
- High-resolution color video camera
- Advanced ring editing system
- 24 rings Placido's disk
- Videokeratoscope

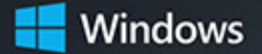
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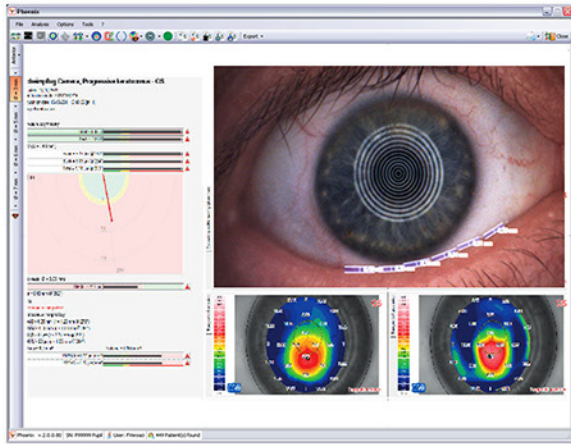
Phoenix Software

MADE IN ITALY



ANTARES works perfectly with the advanced **PHOENIX** software. This program enables comfortable working, by connecting all of your diagnostic instruments with a powerful patient database, giving you an extraordinarily effective work station.

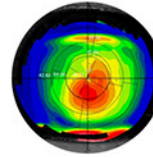




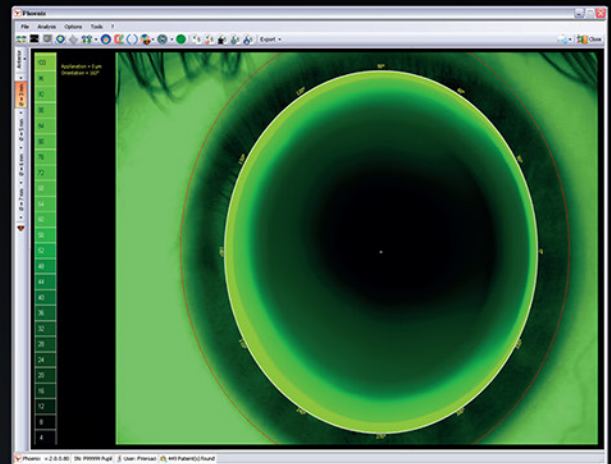
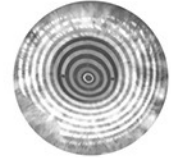
KERATOCONUS SCREENING

Keratoconus screening provides the clinician with important information about the patients cornea. This can help prevent complications associated with ectasia before corneal surgery is undertaken.

Klyce / Maeda Indices



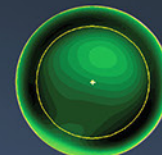
Rabinowitz Values



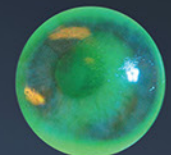
CONTACT LENSES APPLICATION MODULE

A contact lens fitting module is available which simulates the fit of rigid lenses based on an internal database of many lens manufacturers.

Lens Module

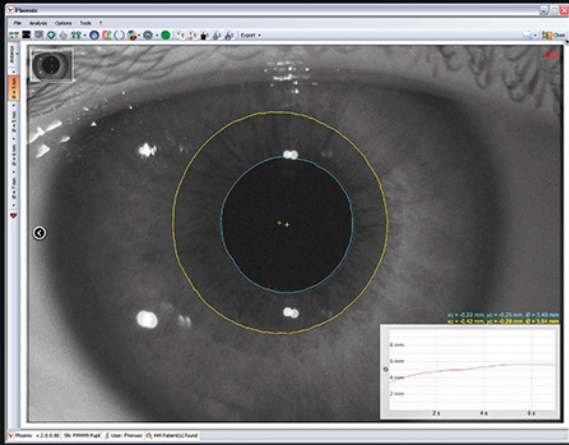


Anterior Segment



PUPILLOGRAPHY

ANTARES has built-in pupillometry measurement software. The measurement of the pupil in scotopic (0.04 lux), mesopic (4 lux), photopic (50 lux) conditions and in dynamic mode. Knowing the center and the diameter of the pupil, is essential for many clinical procedures which seek to optimize vision quality.



Infrared Pupillograph



Pupil Detection



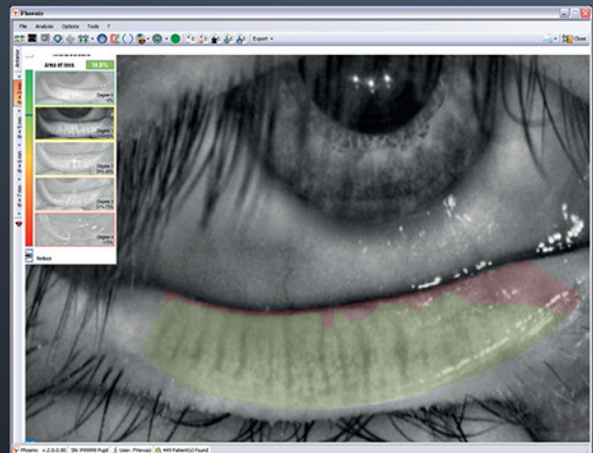
MEIBOGRAPHY

Meibomian glands can be viewed under infrared light once the image is captured, you can use the software to aid in the analysis of the condition of the glands

Infrared Imaging

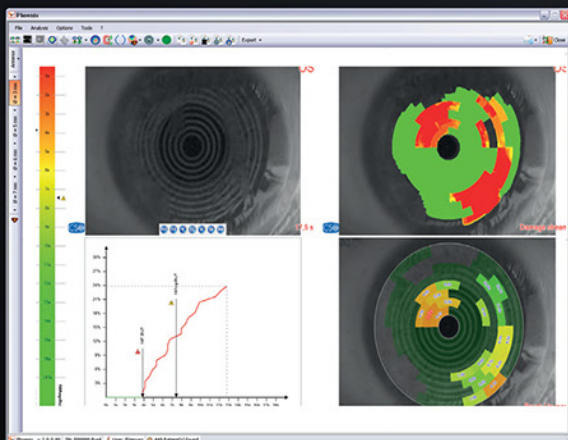


Transillumination



ADVANCED ANALYSIS OF THE TEAR FILM

Placido disk technology allows for the advanced analysis of the tear film, such as NI-BUT (Non Invasive Break-up Time).



Placido Disk



Meniscus Evaluation



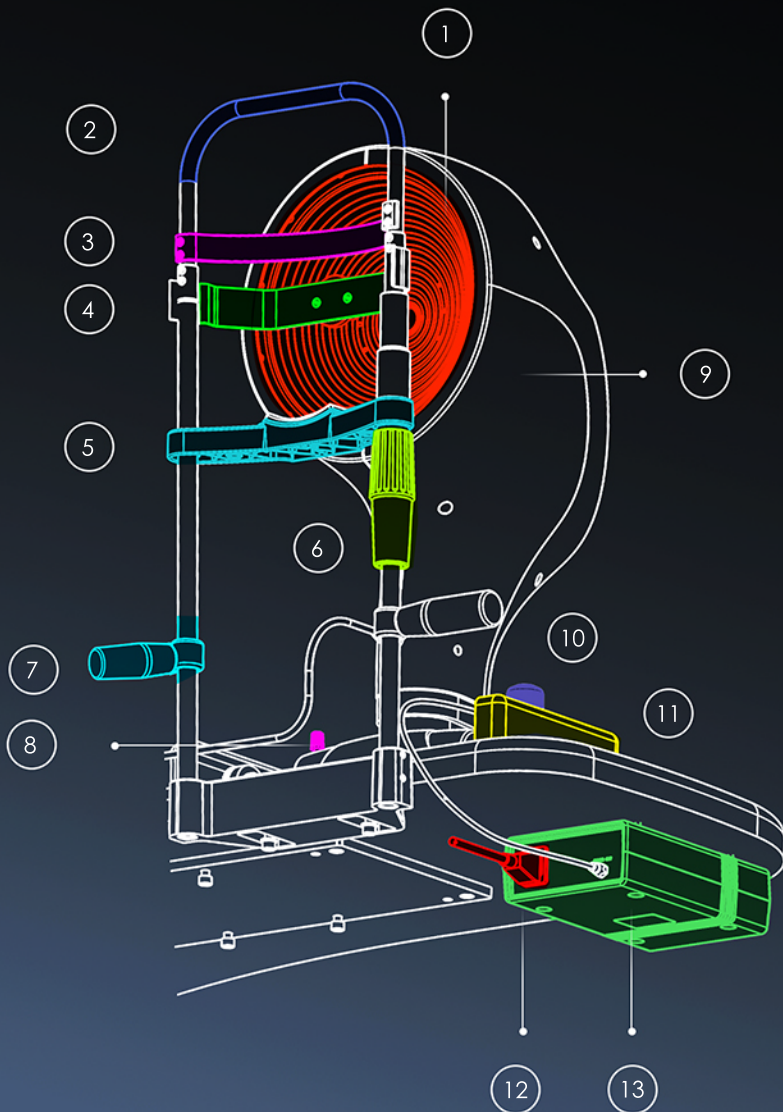


DRY EYE REPORT

Provides an overall evaluation of the clinical condition of the patient for a comprehensive diagnosis of the dry eye disease.

Diagnostics:

Ocular Surface Disease Index questionnaire (OSDI), limbal and conjunctival hyperaemia, meibomian glands analysis, tear meniscus analysis, NIBUT, tear osmolarity, and calculated merging together all partial scores,



1. Capturing Channel
2. Chin Rest Module
3. Head Rest
4. Calibration Tool
5. Chin Rest Cup
6. Knob Adjuster
7. Patient's Handle
8. Device Blocking Knob
9. Instrument with Placido's Disk
10. Joystick with Capturing Trigger
11. Slide Guide Guards
12. Power Supply Cable
13. Power Supplier



Measurements

Operation Distance	74 mm from corneal vertex
Number of Rings	24
Number of Measuring Points	6144 (24x256)
Number of Points Analysed	Over 100000
Diameter of the corneal area covered	0.4 to over 9.6 mm of Diameter
Dioptres Measuring Arc	1 to 100 D
Size (HxWxD) mm	505x315x251 mm
Weight	6.2 kg

Applicable Lighting

Placido's LED lighting	White LED
Fluorescein LED lighting	Blue LED 460 nm
Pupillometry	LED lighting IR LED 875 nm

Notes

Accuracy and repeatability error	Class "A" as per "ISO19980:2005 (E)
Power supply	24V DC external power supply unit
Input power supply unit	90-264 V AC: - 47/63 Hz Max 0.9 A OUTPUT: 24 V DC - 2 A
Power frequency	(50/60Hz) magnetic field IEC 61000-4-8
Power cable	Four-core cable conductors
Computer connection	USB3 Type A cable