





Tomographer & Topographers



MADE IN ITALY



ABOUT SIRIUS+



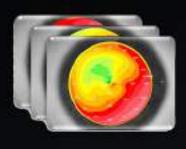
SIRIUS examinations provides an accurate measurment of pupil diameter in scotopic, mesopic and photopic conditions. When combined with the corneal map they can be used for refractive surgery planning and follow up. All biometric measurements of the anterior chamber are calculated using 25 sections from the cornea.





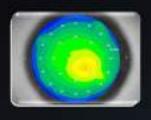
S CHEIMPFLUG TOMOGRAPHY

100 HR Corneal Sections



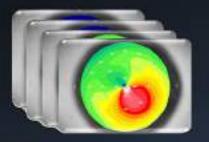
Corneal Thickness

SIRIUS is a fully featured multi-functional placido disk topographer and Scheimpflug's tomographer with a dedicated software designed to help in the detection and analysis of Dry Eyes.

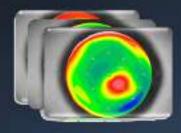


Anterior, posterior and total refractive power map reports





Anterior chamber depth and posterior corneal surface elevations



Tangential and axial curvature of anterior and posterior corneal surface

PRECISE SURFACES

SIRIUS is able to obtain the accurate measurement of elevations, curvature. power and thickness for the whole cornea surfaces over a 12mm in diameter.



The most common uses are for refractive and cataract surgery, and IOL calculation module is available. Photos and videos with blue & white diffuse light.



ILLUMINATION

Placido Disk

LED @400-700nm

Scheimpflug LED @475nm UV-free

Pupillography

LED @940nm

Auxilary Lighting

LED 400-700nm

Fluorescene Lighting

LED @470nm

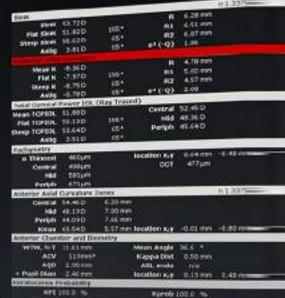




CONNECT YOUR TWO DEVICES

SIRIUS+ uses the Phoenix Software platform allowing patient data to be saved for future review and analysis, shared by all CSO devices. Enables both comfort and flexability with CSO's optional single and double electrical tables designed for all ophthalmic instruments.





COBRA

ANTERIOR SEGMENT I A G N O S T I C S

Anterior and posterior corneal topography information are available for diagnosis, for refractive/ cataract pre-operative planning or for follow up purposes.

Pupillography



What does it do?

Dry Eye Report



- Map of Anterior Chamber Depth & Analysis
- Refractive & Cataract Surgery Planning Tools
- IOL calculation with Ray Tracing Techniques
- Automatic Calculation of Iridocorneal Surface and works with already treated eyes (e.g. LASIK)
- Advanced Topography Ring Editing System
- Corneal Pachymetry (12 mm diameter)
- Contact Lenses Application Module
- OPD Analysis and Visus Simulation
- Scheimpflug's Images Comparison
- Summary of Acquisition Reliability

Tear Film Analysis

RGP lens fitting



- Intra Stromal Rings Summary
- Phoenix Software Platform
- IOP Correction Formulas
- 4 maps + image summary
- 24 Rings Placido's Disk
- Contact Lenses Autofit
- Keratoconus Summary
- Corneal Aberrometry
- Glaucoma Summary
- Videokeratoscope
- Cataract Summary

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Meibomian Glands Analysis

Tear meniscus & Ocular Redness



Densitometry



Topographic Maps & Summary









Thanks to the new color camera, allows the measure of tear film break-up time, meibomian glands analysis, conjuntival, limbar hyperemia and tear meniscus height. In addition, all functionalities merge together for all partial score to provide a complete Dry Eye report for comprehensive assessment of the patients corneal condition and helping the diagnosis of the Dry Eye Disease DED.

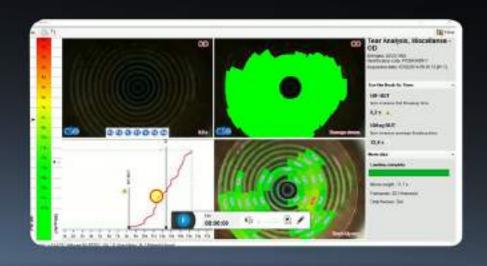










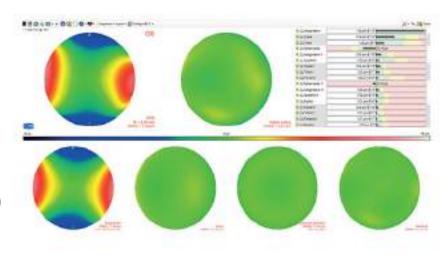


ADVANCED ANALYSIS OF THE TEAR FILM

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

CORNEAL ABERROMETRY

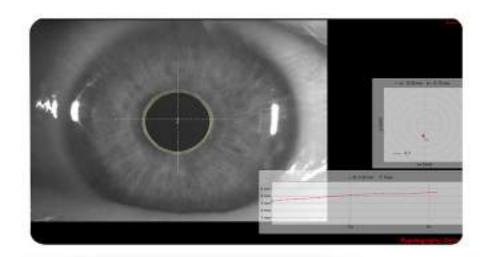
Offers a complete overview of the corneal contribution to the vision. Anterior, posterior or total corneal aberration are selectable for several pupil diameters. The OPD/ WFE map and the simulated vision functions (Spot Diagram, PSF, MTF, Image convolution) help the clinician understanding and explaining the visual discomfort to the patient.





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.

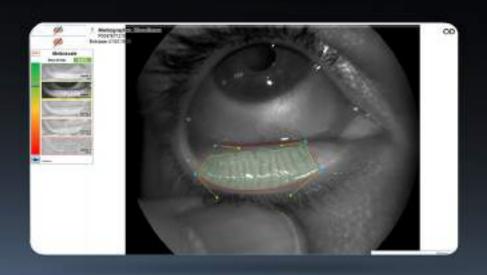


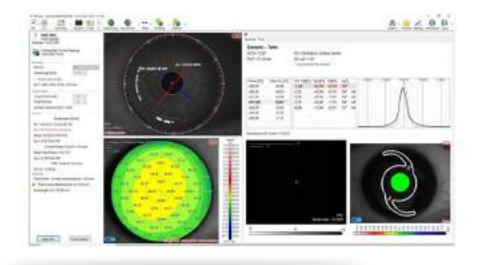
PUPILLOGRAPHY

Sirius has built-in pupillography withpupil measurement of 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.

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

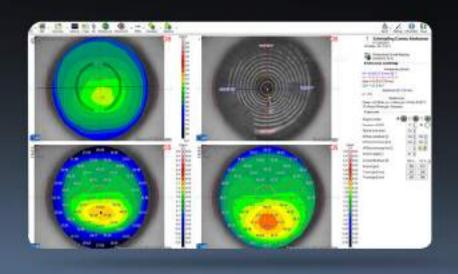




IOL CALCULATION MODULE

(OPTIONAL)

This module is based on Ray-Tracing techniques, regardless of the state of the cornea (untreated or previously treated for refractive purposes), provides the calculation of the spherical and toric power of the intraocular lens.

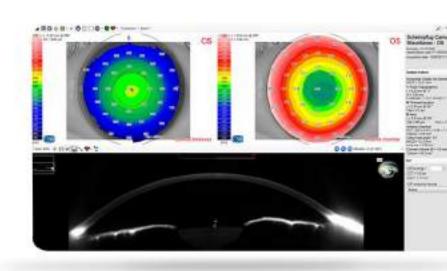


INTRASTROMAL RINGS

On the basis of the pachymetry map and corneal alti - metric data, SIRIUS allows for intrastromal rings system planning, with variableoptions for the correction of refractive defects and some forms of keratoconus.

GLAUCOMA SUMMARY

Aberrometric analysis offers a complete overview of the corneal aberrations. It is possible to select the contribution cornea of the anterior, posterior or total for different pupil diameters. The OPD/WFE maps and the visual simulations (PSF & MTF) can help the clinician in understanding or explaining the patient's visual problems.



KERATOCONUS SCREENING

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



Technical Data



Light Source

Placido Disk	LED @400-700nm
Scheimpflug	LED @475nm UV-free
Pupilligraphy	LED @940nm
Fluoresceine Lighting	LED @470nm
Auxiliary Lighting	LED 400-700nm

Topography

Placido rings	22
Topographic Coverage	12mm
Measured Points	Class A according to UNI EN ISO 19980-2012
Dioptric Measurement range	1D to 100DT
Measurement accuracy	Class "A" as per "ISO19980:2005 (E)
Power frequency	(50/60Hz) magnetic field IEC 61000-4-8
Power cable	Four-core cable conductors



Accessories

Light Diffuser Filter

Auxiliary illumination & magnetic

Yellow Barrier Filter

Magnetic 530 nm filter

Additional Lens

Magnetic -6D lens

Calibration Tool

R8 mm calibration tool