Sirius+

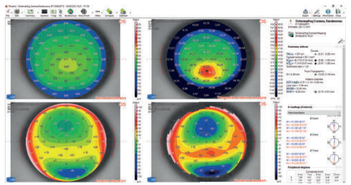
TOMOGRAPH AND CORNEAL TOPOGRAPHER

Sirius+ combines placido disk topography with Scheimpflug tomography of the anterior segment providing information on pachymetry, elevation, curvature and dioptric power of both corneal surfaces over a diameter of 12 mm. All biometric measurements of the anterior chamber are calculated using up to 100 HR corneal sections. Measurement speed reduces the effect of eye movement producing a high quality accurate measurement.

In addition to the clinical diagnosis of the anterior segment the most common uses are: refractive and cataract surgery, an IOL calculation module is available.
Objective examinations provide an accurate measurment of pupil diameter in scotopic, mesopic and photopic conditions.

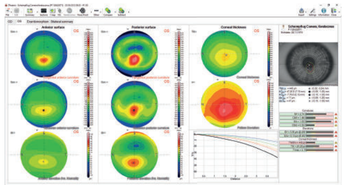
FEATURES OF THE PHOENIX SOFTWARE

Sirius+ uses the Phoenix software platform allowing patient data to be saved for future review and analysis, shared by all CSO devices.



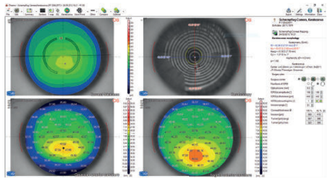
KERATOCONOUS SCREENING

Keratoconous screening provides the clinician with important information about the patinets cornea. Understanding this can help prevent complications associated with ectasia before corneal surgery is undertaken.



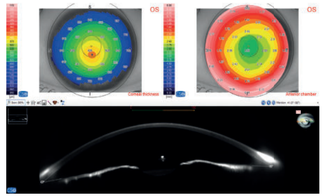
INTRASTROMAL RINGS

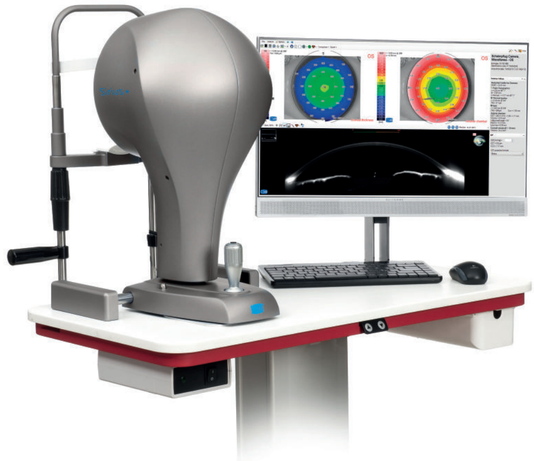
On the basis of the pachymetry map and corneal altimetric data, Sirius+ allows for intrastromal rings system planning, which may be an option for the correction of refractive defects and some forms of keratoconus.



GLAUCOMA SCREENING

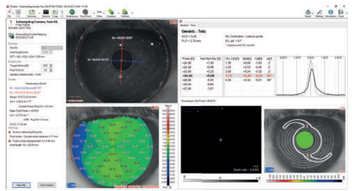
For glaucoma specialists Sirius+ enables the measurement of irido-corneal angles and pachymetry. These two values are useful in the diagnosis of the disease.





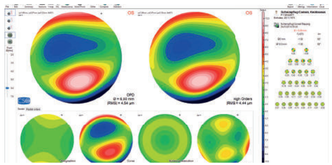
IOL CALCULATION MODULE (OPTIONAL)

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.



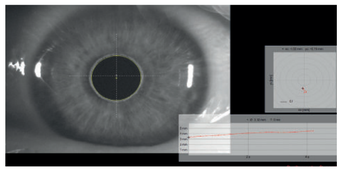
CORNEAL ABERROMETRY

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



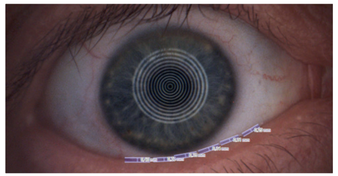
PUPILLOGRAPHY

Sirius+ has built-in pupillography measurement software. The measurement of the pupil in scotopic, mesopic, photopic, conditions and in dynamic mode. knowledge of the center and the diameter of the pupil, is essential for many clinical procedures which seek to optimize vision quality.



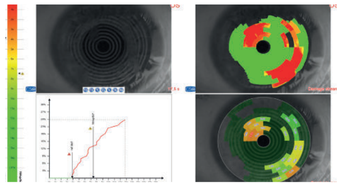
VIDEOKERATOSCOPY

The use of a new white light allow the acquisition of color pictures and videos. Light diffuser filter provides the analisys of tear lipid layer pattern. Blue light illumination source, for the stimulation of Fluorescein, will extend the functions of the device for the application of rigid and ortho-k contact lenses.



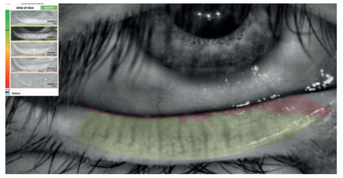
ADVANCED ANALYSIS OF THE TEAR FILM

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



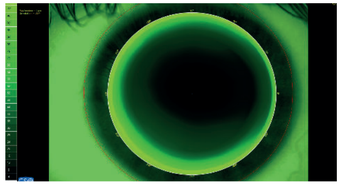
MEIBOGRAPHY

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.



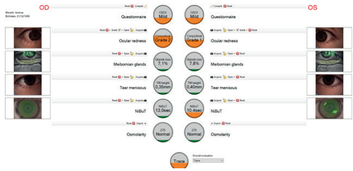
CONTACT LENSES APPLICATION MODULE

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



DRY EYE REPORT

Based on the Ocular Surface Disease Index questionnaire (OSDI), limbar and conjunctival hyperaemia, Meibomian glands analysis, tear meniscus analysis, NIBUT, and tear osmolarity (imported), calculated merging together all partial scores, provides an owerall evaluation of the clinical condition of the patient for a comprehesive diagnosis of the dry eye disease.



Sirius+
TOMOGRAPH AND CORNEAL TOPOGRAPHER

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 (HxWxD)	509 x 315 x 260mm
Weight	7 Kg
Chin rest movement	70mm ± 1mm
Minimum height of the chin cup from the table	24cm
Base movement (xyz)	105 x 110 x 30mm
Working distance:	74mm
LIGHT SOURCES	
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
Measured points	from 42032 to 151232 for the front surface from 36400 to 145600 for the rear surface
Topographic coverage	12mm
Dioptric measurement range	1D to 100D
Measurement accuracy	class A according to UNI EN ISO 19980-2012
Compatibility with standard	DICOM v3 (IHE integration profile EYECARE Workflow)

ACCESSORIES

Light diffuser filter for auxiliary illumination, magnetic lock	light diffuser filter
Yellow barrier filter, magnetic lock	530 nm filter
Additional lens, magnetic lock	-6D lens
Calibration tool	r 8 mm calibration tool

MINIMUM SYSTEM REQUIREMENT

PC: CPU: I3 or higher (suggested I5) - CHIP SET: intel - RAM: 4 Gbyte or higher (suggested 8 Gbyte) -
GRAPHIC VIDEO BOARD: 1 Gbyte not shared - RESOLUTION: 1280x960 or higher - USB 3.0 port -
Operating System: Windows 10 (64bit)

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