



SIRIUS+ SCHEIMPFLUG

Tomographer & Topographers



MADE IN ITALY



TOMOGRAPH

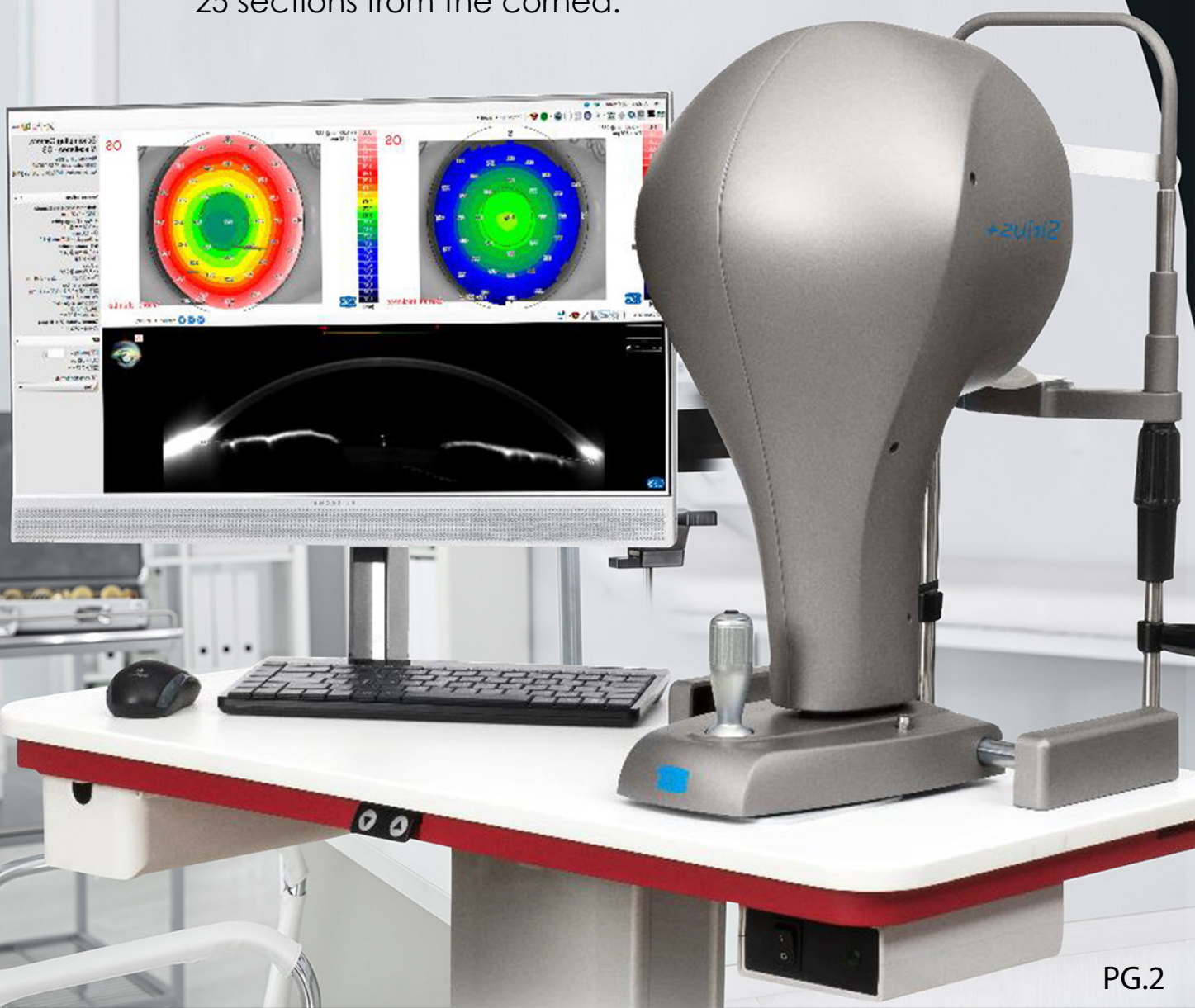


TOPOGRAPHER

ABOUT SIRIUS+



SIRIUS examinations provides an accurate measurement 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.





PRODUCT OVERVIEW

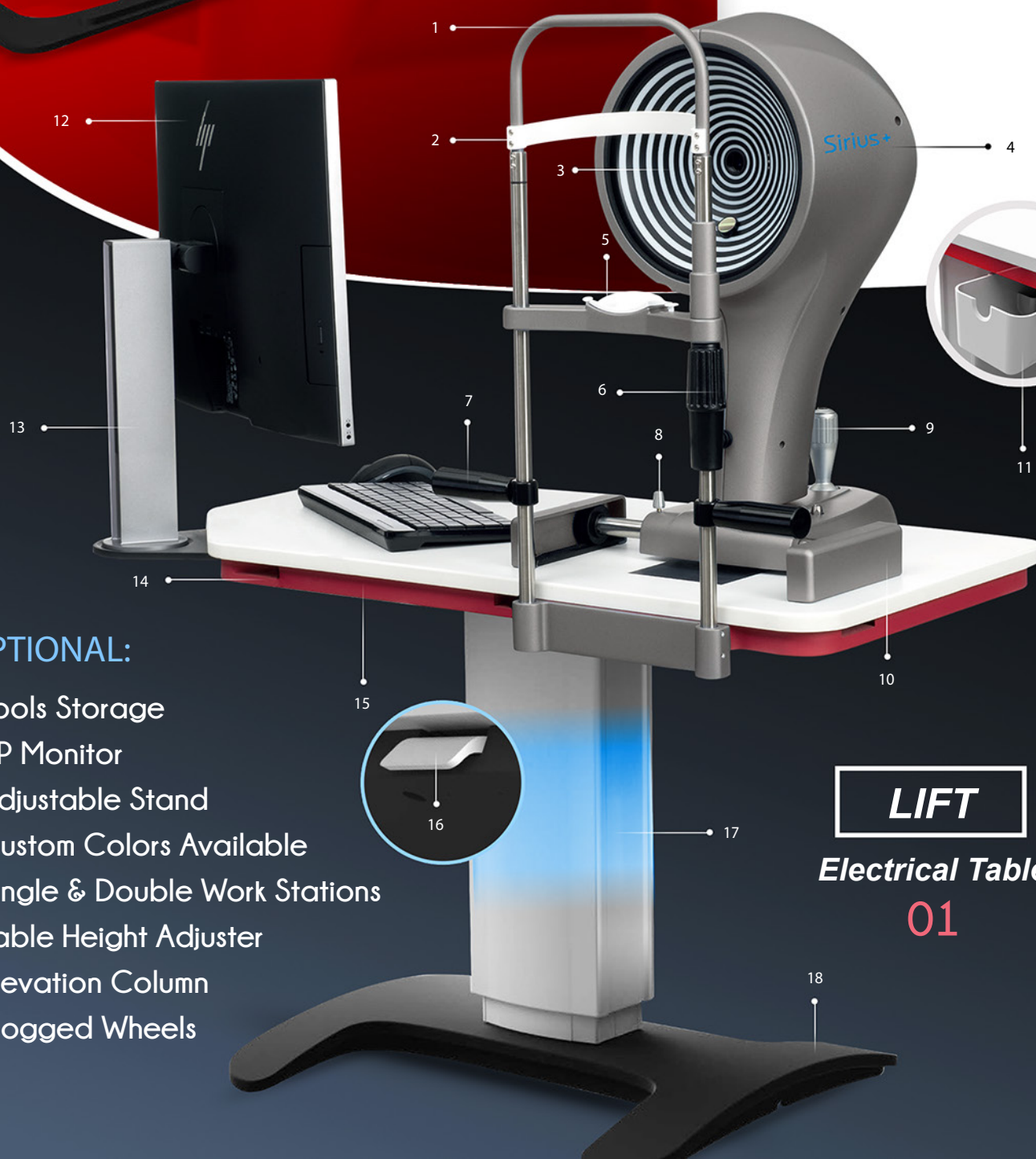
INCLUDED:

1. Chinrest Module
2. Head Rest
3. Capturing Channel
4. Resolution (1280x960)
5. Chinrest Cup
6. Knob Adjuster
7. Patient's Handle
8. Device Blocking Knob
9. Capturing Trigger Joystick
10. Slide Guide Guards



LIFT

**Electrical Table
02**



OPTIONAL:

11. Tools Storage
12. HP Monitor
13. Adjustable Stand
14. Custom Colors Available
15. Single & Double Work Stations
16. Table Height Adjuster
17. Elevation Column
18. Cogged Wheels

LIFT

**Electrical Table
01**

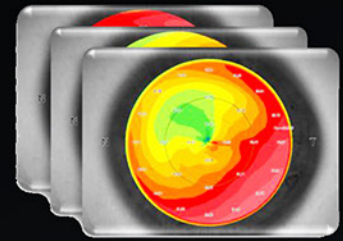
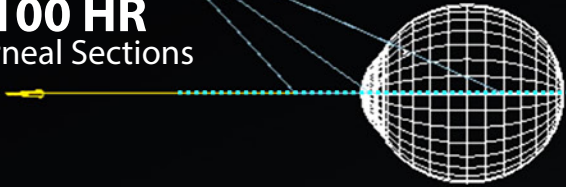


SCHIEMPFLUG

TOMOGRAPHY

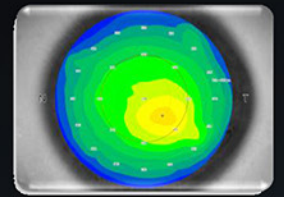


100 HR
Corneal Sections

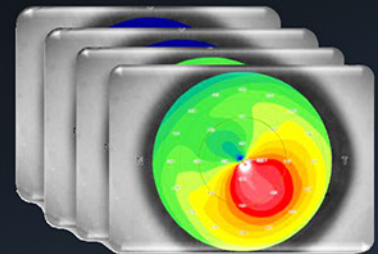


Corneal Thickness

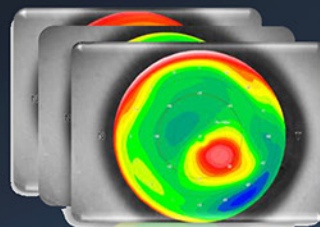
SIRIUS is a fully featured multi-functional placido disk topographer and Scheimpflug's tomographer with a dedicated software designed to help in the detection and analysis of Dry Eyes.



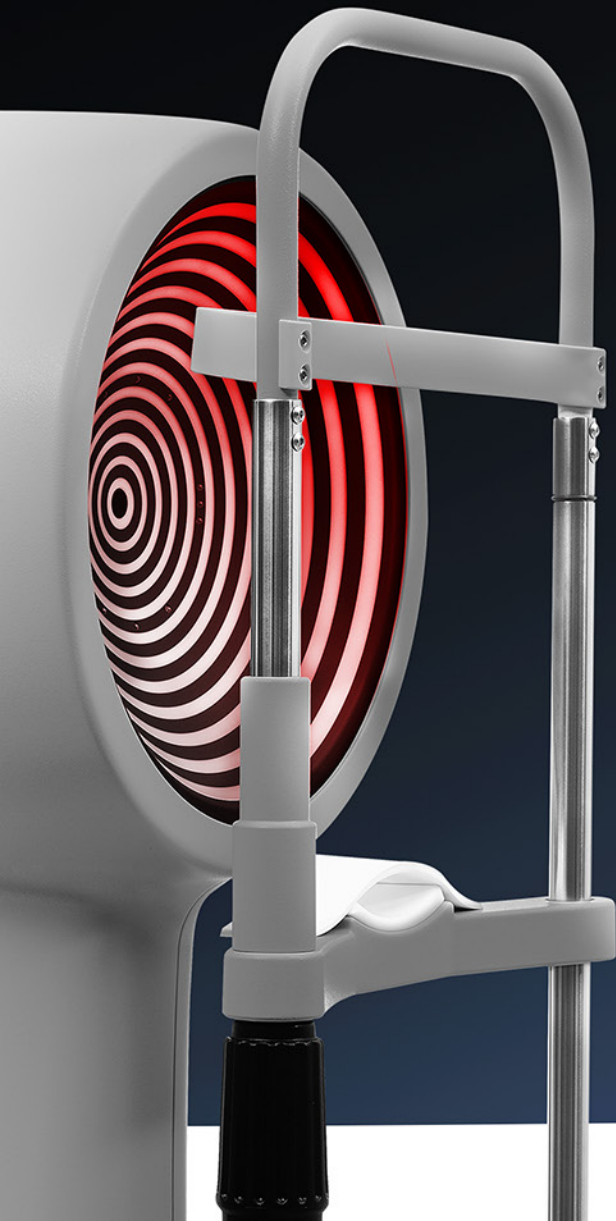
Anterior, posterior and total refractive power map reports



Anterior chamber depth and posterior corneal surface elevations



Tangential and axial curvature of anterior and posterior corneal surface

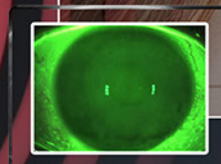
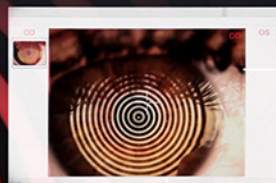


PRECISE SURFACES

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

CORNEAL Measurements

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
Auxiliary Lighting	LED 400-700nm
Fluorescence Lighting	LED @470nm



PHOENIX CSO®



SOFTWARE

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 flexibility with CSO's optional single and double electrical tables designed for all ophthalmic instruments.



Windows



COBRA+



n 1.3375					
SimK					
SimK	53.72 D		R	6.28 mm	
Flat SimK	51.82 D	155°	R1	6.51 mm	
Steep SimK	55.62 D	65°	R2	6.07 mm	
Astig	3.81 D	65°	e' (-Q)	1.86	
Posterior Axial Curvature					
Mean K	-8.36 D		R	4.78 mm	
Flat K	-7.97 D	155°	R1	5.02 mm	
Steep K	-8.75 D	65°	R2	4.57 mm	
Astig	-0.78 D	65°	e' (-Q)	2.08	
Total Corneal Power IOL (Ray Traced)					
Mean TCPIOL	51.88 D		Central	52.45 D	
Flat TCPIOL	50.13 D	155°	Mid	48.36 D	
Steep TCPIOL	53.64 D	65°	Periph	45.64 D	
Astig	3.51 D	65°			
Pachymetry					
o Thinnest	460 µm		location x,y	0.64 mm	-0.48 mm
Central	498 µm		CCT	477 µm	
Mid	581 µm				
Periph	671 µm				
Anterior Axial Curvature Zones					
n 1.3375					
Central	54.46 D	6.20 mm			
Mid	48.19 D	7.00 mm			
Periph	44.09 D	7.66 mm			
Kmax	60.54 D	5.57 mm	location x,y	-0.01 mm	-0.80 mm
Anterior Chamber and Biometry					
WTW, N-T	11.61 mm		Mean Angle	36.6 °	
ACV	119 mm³		Kappa Dist	0.50 mm	
AQD	2.95 mm		ASL endo	n/a	
+ Pupil Diam	2.46 mm		location x,y	0.13 mm	0.48 mm
Keratococonus Probability					
KPI	100.0 %		Kprob	100.0 %	
CLM1aa	9.31 D		PPK	100.0 %	



ANTERIOR SEGMENT DIAGNOSTICS

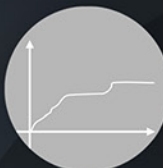
Anterior and posterior corneal topography information are available for diagnosis, for refractive/ cataract pre-operative planning or for follow up purposes.

Pupillography



What does it do?

Dry Eye Report



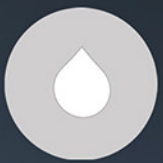
Tear meniscus & Ocular Redness



RGP lens fitting



Tear Film Analysis



Meibomian Glands Analysis



Densitometry



Topographic Maps & Summary



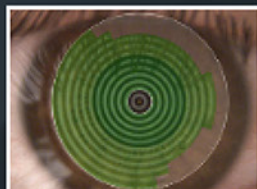
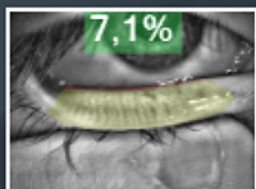
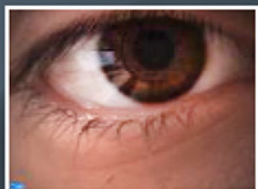
- Map of Anterior Chamber Depth & Analysis
- Refractive & Cataract Surgery Planning Tools
- IOL calculation with Ray Tracing Techniques
- Automatic Calculation of Iridocorneal Surface and works with already treated eyes (e.g. LASIK)
- Advanced Topography Ring Editing System
- Corneal Pachymetry (12 mm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

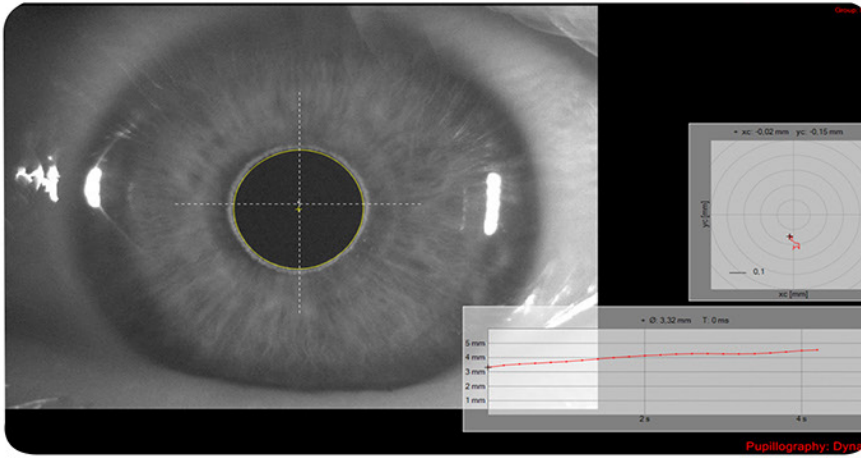


CSO® DRY EYE REPORT OD

Thanks to the new color camera, allows the measure of tear film break-up time, meibomian glands analysis, conjunctival, 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.

Reset <input checked="" type="checkbox"/> Compile 	OSDI Mild
Questionnaire	
Reset <input checked="" type="checkbox"/> Grade  Open  Acquire 	Conjunctival Grade 2
Ocular redness	
Reset <input checked="" type="checkbox"/> Open  Acquire 	Glands loss 7,1%
Meibomian glands	
Reset <input checked="" type="checkbox"/> Open  Acquire 	TM height 0,35mm
Tear meniscus	
Reset <input checked="" type="checkbox"/> Open  Acquire 	NiBuT 13,0sec
NiBuT	
Reset <input checked="" type="checkbox"/> Import 	275 Normal
Osmolarity	



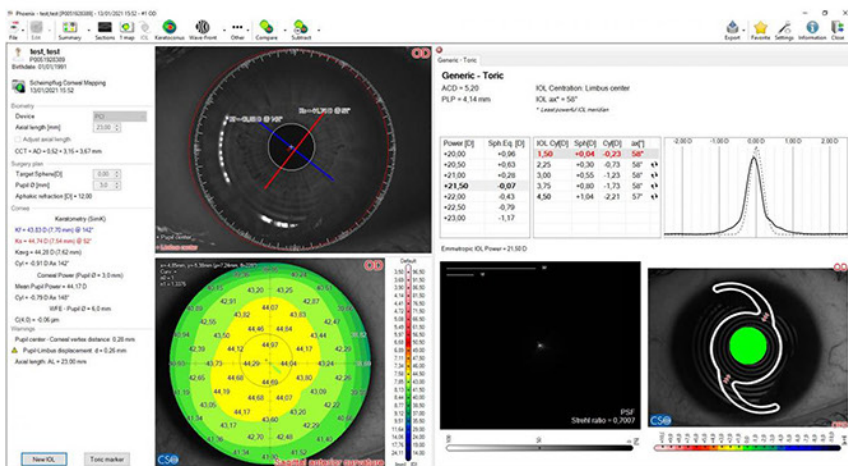
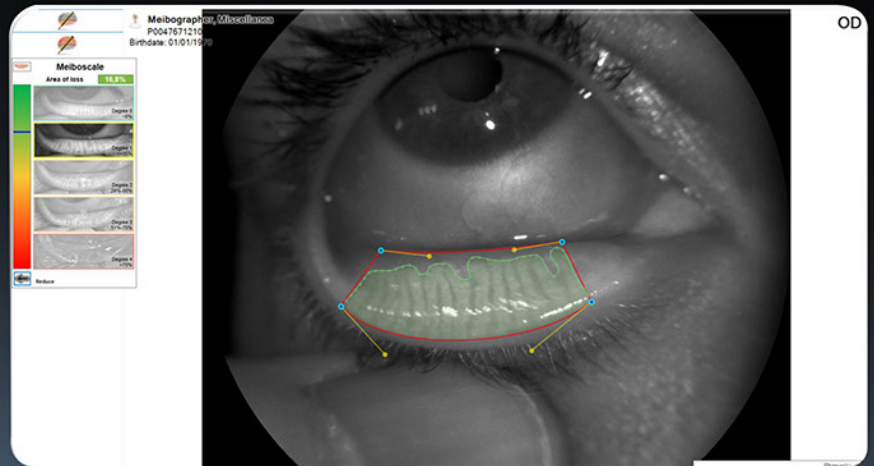


PUPILLOGRAPHY

Sirius has built-in pupillography with pupil 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

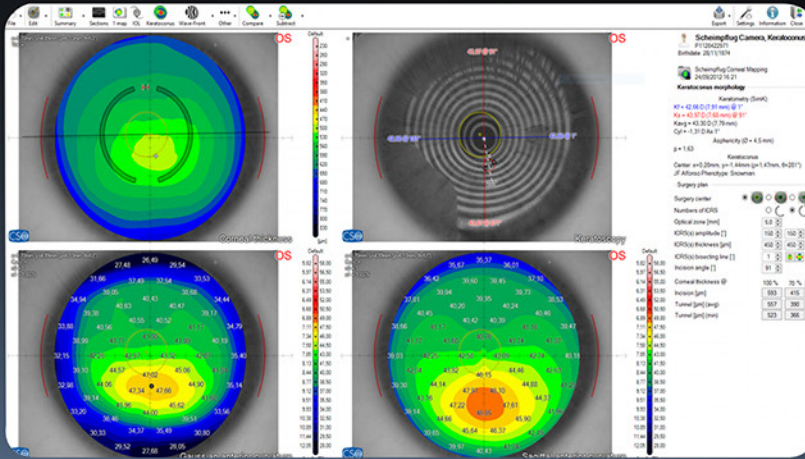
Meibomian glands can be viewed under infrared light once the image is captured, you can use the software to aid in the analysis of the condition of the glands



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.

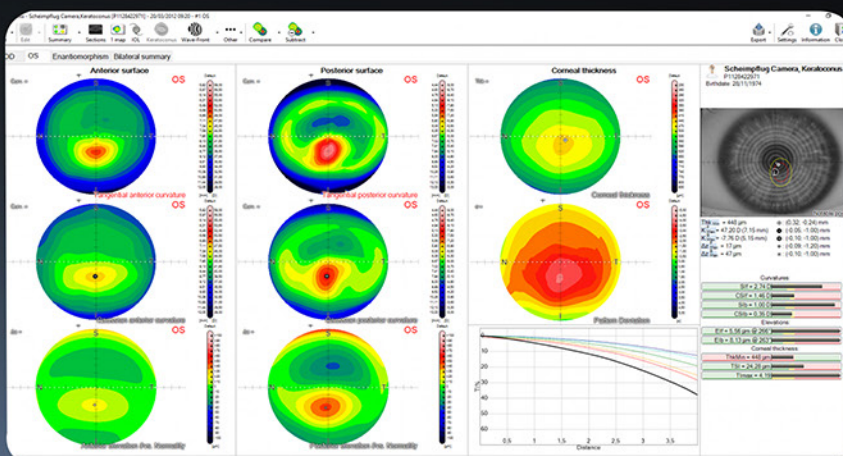
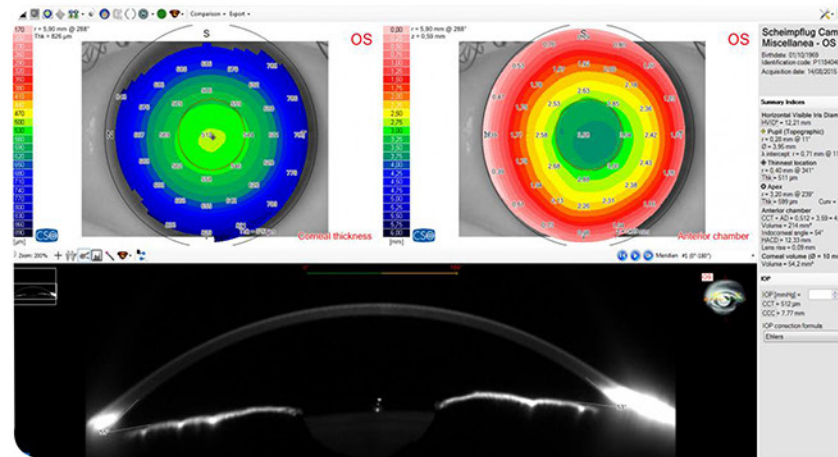


INTRASTROMAL RINGS

On the basis of the pachymetry map and corneal alti - metric data, SIRIUS allows for intrastromal rings system planning, with variable options 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

Keratoconus screening provides the clinician with important information about the patient's cornea. This will help prevent complications associated with ectasia before corneal surgery is undertaken.



PRODUCT



SPECIFICATIONS

MADE IN ITALY

Technical Data

Data Transfer	USB 3.0
Power Supply	External power source 24 VCC
Power net cable	IEC C14 plug
Dimensions (HxWxD)	515 x 315 x 255mm
Weight	7 Kg
Chin rest movement	70mm \pm 1mm
Base movement (xyz)	105 x 110 x 30mm
Working distance	74mm

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