

SCHWIND SIRIUS –

The perfect combination for refractive and therapeutic corneal surgery



The SCHWIND SIRIUS is a diagnostic device of the latest generation combining a 3D rotating Scheimpflug camera with a Placido disc topographer. This “two in one system” allows for a fast and complete analysis of both the entire cornea and the anterior segment in one step.

APPLICATIONS

Anterior Segment Analysis (Integrated Scheimpflug camera)

- Corneal and anterior segment analysis
- Posterior corneal topography
- Anterior chamber analysis
- Tangential and axial curvature for the posterior corneal surface
- Corneal pachymetry up to 12 mm diameter

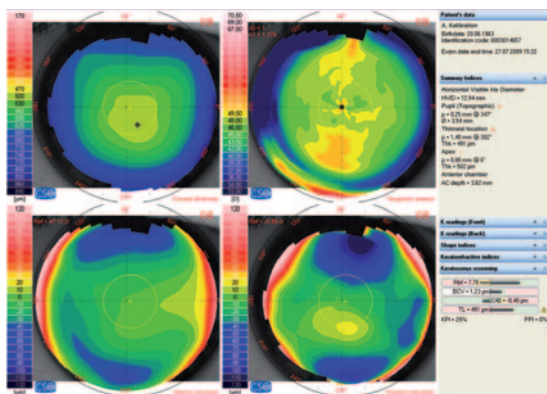
Topography (Combined with Placido disc)

- Anterior corneal topography
- Tangential and axial curvature for the anterior corneal surface
- K-readings
- Corneal wavefront analysis and visual quality simulation
- Keratoconus screening

Pupillometry

The integrated pupillometer captures the diameter of the pupil either in static or dynamic conditions.





Map summary

Maps

- Refractive power for the anterior and posterior corneal surface and equivalent power
- Altimetric maps referred to various surfaces
- Tangential and axial curvature for anterior and posterior corneal surfaces
- Corneal thickness map and anterior chamber depth
- Corneal wavefront
- Differential maps of up to 3 maps
- Comparison of up to 4 maps

Technical data

Dual head custom-designed measurement unit

Cameras	2 monochromatic VGA CCD cameras
Resolution	640 x 480 pixel
Dimensions	(H) 510 x (W) 250 x (D) 320 mm
Weight	7 kg
Working distance/distance to corneal vertex	80 mm
Power supply	100-240 VAC, 1.5 A, 47-63 Hz

Specifications

3D rotating Scheimpflug camera

Acquisition time	less than 1 second
Number of measuring points	21632 points for the anterior surface and 16000 for the posterior surface
Number of points analyzed	more than 100000

Corneal Topographer (Keratoscope)

Number of placido rings	22
Diameter of the corneal area covered	0.4 to 12 mm diameter
Dioptres measurement range	1 to 100 D
Measurement tolerance and repeatability	±0.005 D
K-readings	in dioptres and millimetres

Pupillometer

Defined light conditions	Photopic: 40 lux / Mesopic: 4 lux / Scotopic: 0.04 lux
--------------------------	--

Compliance

CE conformity in accordance with Medical Device Directive (MDD) 93/42/EEC

Data Export to SCHWIND AMARIS

via SCHWIND CAM for

Corneal Wavefront
 Optional: Static Cyclotorsion Control (SCC)
 Pachymetry (PALK)

Optimal functionality and reliability as well as compliance with all legal regulations can only be ensured through usage of products supplied by SCHWIND – whether as single component or as system combination.