MS-39
AS-OCT

EN

CSO

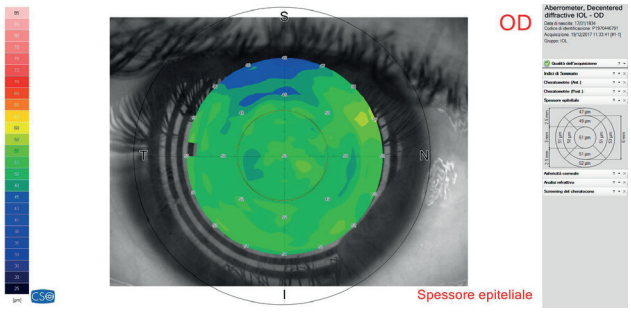
MS-39

AS-OCT

Is the most advanced device for the analysis of the anterior segment of the eye. MS-39 combines Placido disk corneal topography, with high resolution OCT-based anterior segment tomography. The clarity of the cross-sectional images, with a 16 mm diameter, along with the many details of the cornea structure and layers revealed by the MS-39, will be appreciated by anterior segment specialists. MS-39 provides information on pachymetry, elevation, curvature and dioptric power of both corneal sufaces. In addition to anterior segment clinical diagnostics, MS-39 can be used in corneal surgery for refractive surgery planning. An IOL calculation module is also available, based on Ray-Tracing techniques, Additional tools allow MS-39 to perform accurate pupil diameter measuremets and the advanced analysis of tear film.

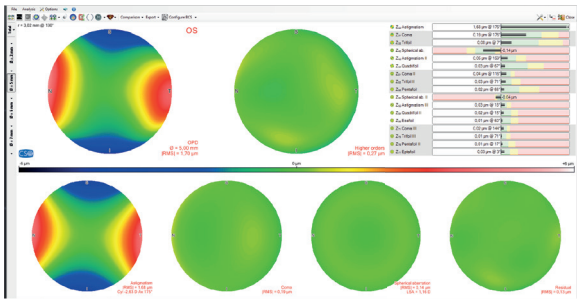
EPITHELIAL MAP

MS-39 includes the advanced measurement of the epithelial layer. The epithelial masking effect is known, so knowledge of its morphology is very useful assess abnormalities of the corneal surface.



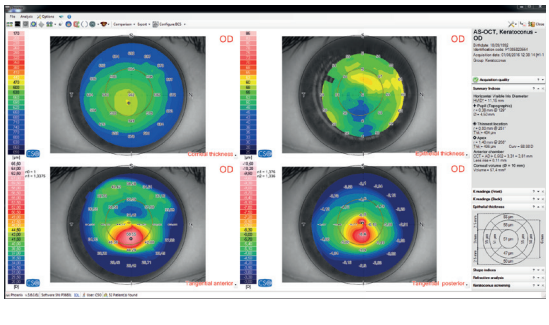
CORNEAL ABERROMETRY

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) can help the clinicain in understanding or explaining the patient's visual problems.



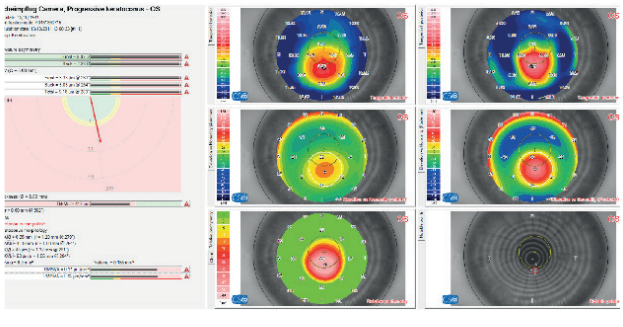
FEATURES OF THE PHOENIX SOFTWARE

MS-39 uses the Phoenix software platform allowing patient data to be saved for future review and analysis, shared by all CSO devices.



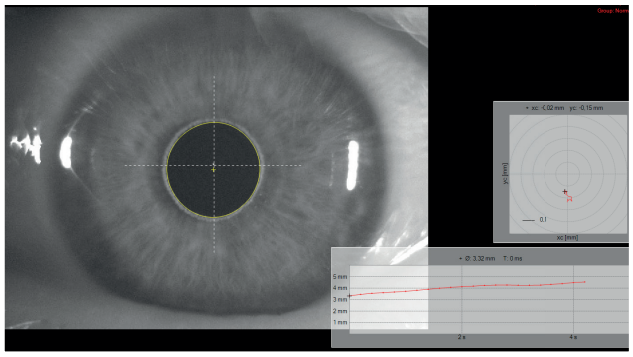
KERATOCONOUS SCREENING

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.



PUPILLOGRAPHY

MS-39 has builtin pupillography 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.

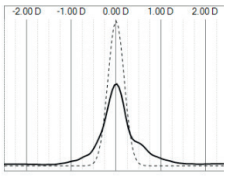


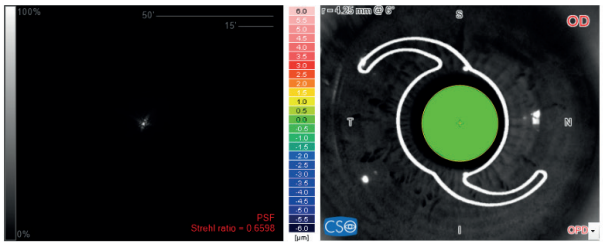
IOL CALCULATION MODULE

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.

Power [D]	Pred.Sph.Eq. [D]
+27.00	+1.99
+27.50	+1.68
+28.00	+1.36
+28.50	+1.03
+29.00	+0.70
+29.50	+0.36
+30.00	**+0.02**

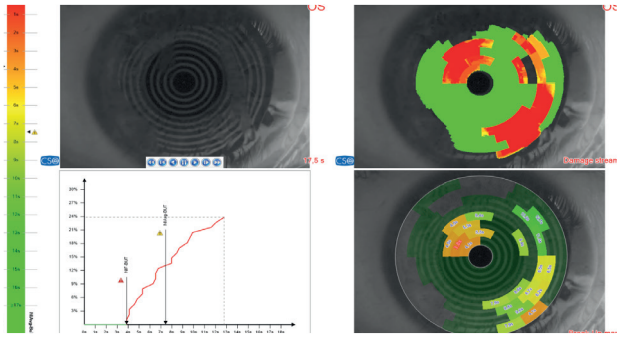
IOL cyl[D]	Sph[D]	Cyl[D]	Ax[°]
0.00	+0.07	-0.11	142°





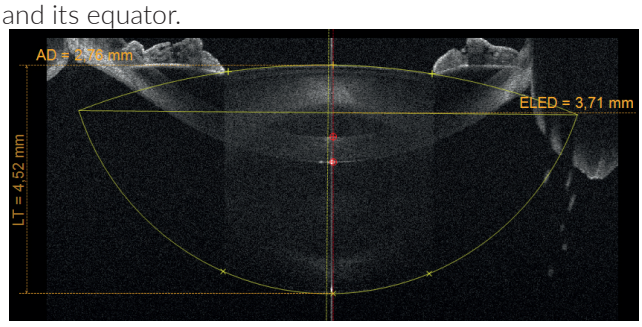
ADVANCED ANALYSIS OF THE TEAR FILM

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



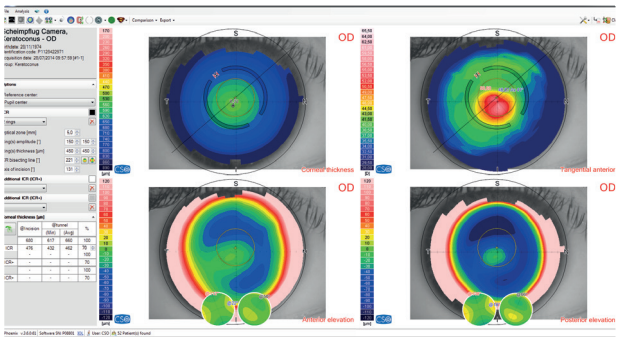
CRYSTALLINE BIOMETRY

In order to more accurately determine the ELED, and consequently to refine the intra-ocular lens calculation, MS-39 provides an acquisition mode to measure the crystalline lens thickness, its distance from the cornea and its equator.



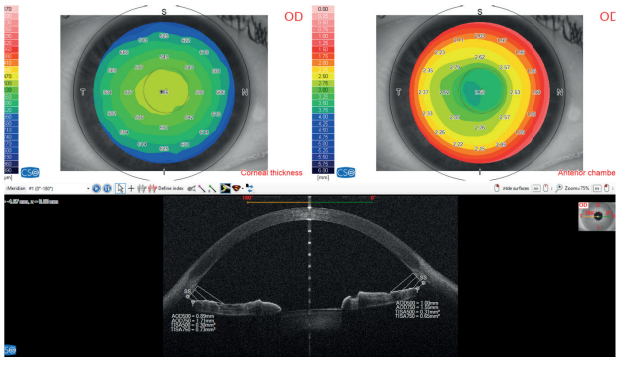
INTRASTROMAL RINGS

On the basis of the pachymetry map and corneal altimetric data, MS-39 allows for intrastromal rings system planning, which maybe an option for the correction of refractive defects and some forms of keratoconus.



GLAUCOMA SCREENING

For glaucoma specialists MS-39 enables the measu- rement of AOD, TISA and corneal pachymetry. These values are useful in the diagnosis of the disease.



MS-39

AS-OCT

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LIGHT SOURCES	
Placido disk illumination	
Pupillographic illumination	
TOPOGRAPHY	
SECTION	
Image field	
Axial resolution	µm (in tissue)
Transversal resolution	µ
Image(s) resolution	Keratoscopy (640x480) + 25 radial scans on a 16mm transversal field (1024 A-scan) - Section: on 16mm (1600 A-scan) on 8mm (800 A-scan)
Operating system	

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