MS-39

AS-OCT

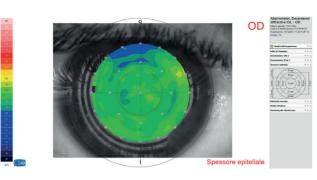
segment specialists. MS-39 provides information on

Is the most advanced device for the analysis of the anterior segment of the eye. MS-39 combines Placido both corneal sufaces. In addition to anterior segment clidisk corneal topography, with high resolution OCT-ba-nical diagnostics, MS-39 can be used in corneal surgery sed anterior segment tomography. The clarity of the for refractive surgery planning. An IOL calculation mocross-sectional images, with a 16 mm diameter, along dule is also available, based on Ray-Tracing techniques, with the many details of the cornea structure and layers Additional tools allow MS-39 to perform accurate pupil revealed by the MS-39, will be appreciated by anterior diameter measuremets and the advanced analysis of



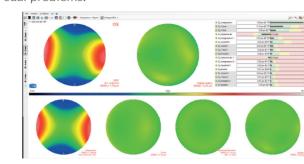
EPITHELIAL AND STROMAL MAP

MS-39 includes the advanced measurement of the epithelial and stromal layer. The epithelial masking effect is corneal aberrations. It is possible to select the contribuknown, so knowledge of its morphology is very useful assess abnormalities of the corneal surface.



CORNEAL ABERROMETRY

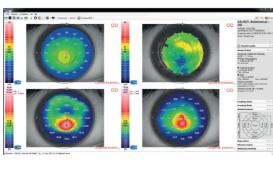
tion of the anterior, posterior or total cornea for different pupil diameters. The OPD/WFE maps and the visual simulations (PSF, MTF, image convolution) can help the clinicain in understanding or explaining the patient's visual problems.





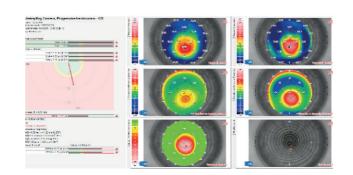
FEATURES OF THE PHOENIX SOFTWARE

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



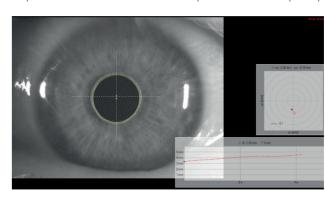
KERATOCONOUS SCREENING

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.



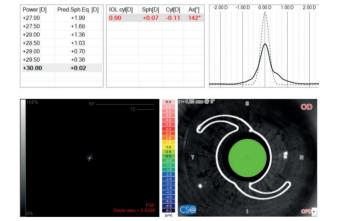
PUPILLOGRAPHY

MS-39 has builtin pupillography measurement software. The measurement of the pupil in scotopic (0.04 lux), mesopic (4 lux), photopic (50 lux) conditions planning, which maybe an option for the correction of 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.



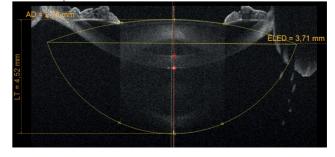
IOL CALCULATION MODULE

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.



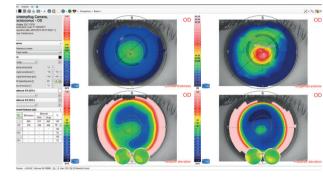
CRYSTALLINE BIOMETRY

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



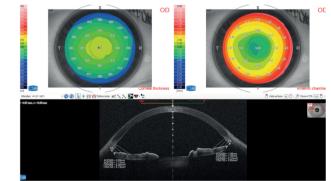
INTRASTROMAL RINGS

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



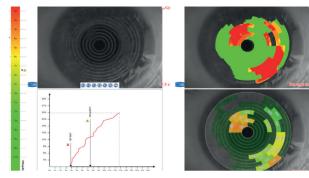
GLAUCOMA SCREENING

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.



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). Based on the Ocular Surface Disease Index questionnaire (OSDI), limbal and conjunctival hyperaemia, Meibomian glands analysis, tear meniscus



analysis and tear osmolarity, 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.

MS-39

AS-OCT

TECHNICAL DATA

| Data transfer | USB 3.0 |
|---|--|
| Power supply | external power source 24 VDC In: 100-240Vac - 50/60Hz - 2A - Out: 24Vdc - 100W |
| Power cable | IEC C14 plug |
| Dimensions (HxWxD) | 505 x 315 x 251mm |
| Weight | 10.4Kg |
| Chin rest movement | $70mm \pm 1mm$ |
| Minimum height of the chin cup from table | 23cm |
| Base movement (xyz) | 105 x 110 x 30mm |
| Working distance: | 74mm |
| LIGHT SOURCES | |
| Placido disk illumination | Led @635nm |
| OCT source | SLed @845nm |
| Pupillographic illumination | Led @950nm |
| TOPOGRAPHY | |
| Placido disk rings | 22 |
| Measured points | 31232 (anterior surface) 25600 (posterior surface) |
| Topographic covering | 10mm |
| Dioptric measurement range | from 1D to 100D |
| Measurement accuracy | Class A according to UNI EN ISO 19980-2012 |
| SECTION | |
| Image field | 16mm x 8mm |
| Axial resolution | 3.6 μm (in tissue) |
| Transversal resolution | 35 μm (in air) |
| 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 | Windows 10 (64 bit) |
| | |

*The specifications and the images are not contractually binding and can be modified without notice. Windows® is a Microsoft Corporation trade mark.



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