Osiris ABERROMETER

The ability to measure high order aberrations as well as standard refraction has become the new standard of care for your patients. Osiris, a total ocular aberrometer, and is indispensable for the correct evaluation of critical patients who have, in addition to traditional low-order defects, even more complex ocular aberrations. Osiris has a unique design that enables it to measure aberrations with a resolution of 43,000 points (at the maximum pupil diameter), with a wide dynamic. Thanks to the use of a pyramidal sensor, Osiris is also able to measure the total wave-front in real time with a frame rate of up to 33 images per second: this makes it possible to measure and view changes in power and aberrations while the patient is accommodating.

ANALYSIS SOFTWARE FOR ABERROMETRIC IMAGES

The tool integrates with the Phoenix software, offering a wide range of analysis options, such as refractive error maps and visual simulations (PSF, MTF and convolution with optotypes), which helps the clinician to understand and explain the patient’s visual problems. Osiris data can be combined with the topographic maps from other instruments produced by CSO, combining the total aberrometry with the corneal ones of Antares, Sirius or MS-39 instruments produced by CSO, combining the total aberrometry with the corneal ones of Antares, Sirius or MS-39. It is possible to calculate the wavefront internal component and, for example, to evaluate the impact of a toric system on vision.

FEATURES OF THE PHOENIX SOFTWARE

Data analysis for toric lenses (up to 12 parameters allowing patient data to be described), follow-up review and analysis, driven by all CSO devices.

ANALYSIS SOFTWARE FOR ABERROMETRY

For a subjective assessment of cataract and optical media opacity evaluation, Osiris can acquire backlit images without reflections.

For an objective assessment of cataract and optical media opacity evaluation, Osiris can acquire backlit images without reflections.

DENSITY MAPPING

For a subjective assessment of cataract and optical media opacity evaluation, Osiris can acquire backlit images without reflections.

DENSITY MAPPING

For an objective assessment of cataract and optical media opacity evaluation, Osiris can acquire backlit images without reflections.

DENSITOMETRY

For an objective assessment of cataract and optical media opacity evaluation, Osiris can acquire backlit images without reflections.

DENSITOMETRY

For an objective assessment of cataract and optical media opacity evaluation, Osiris can acquire backlit images without reflections.

DENSITOMETRY
**Data transfer**
- USB 3.0

**Power supply**
- External power source 24 VCC
  - In: 100-240Vac - 50/60Hz - 0.9-5A
  - Out: 24Vdc - 40W

**Power net cable**
- IEC C14 plug

**Dimensions (HxDxW)**
- 425 x 315 x 265

**Weight**
- 5.8Kg

**Chin rest movement**
- 70mm ± 1mm

**Minimum height of the chin cup from table**
- 24cm

**Base movement (xyz)**
- ±0.5 ±1 ±0.5

**Working distance**
- 78mm

**Light Sources**
- Aberrometer: Led @850nm
- Auxiliary: Led @780nm
- Fixation: Led @450-650nm

**Aberrometry**
- Points measured at maximum pupil:
  - 45000
- Spatial resolution:
  - 4µm
- Pupil size range:
  - 2-9mm
- Dioptric range:
  - Sph from -25D to +15D; Cyl up to 10D
- Repeatability:
  - 0.05D on test eyes
- Compatibility with standard:
  - DICOM v3.34 Integration profile EYE CARE WorkFlow

**Minimum System Requirement**
- PC: 4 GB RAM - Video Card 1 GB RAM (not shared)
- Operating systems: Windows XP, Windows 7 and Windows 10 (32/64 bit)

---

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