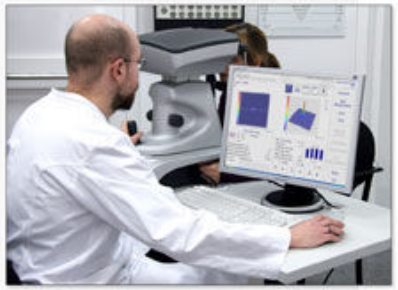
OQAS™ II

Based on the double pass technique OQAS II provides us usefull information by obtaining the PSF and MTF, quantifing the degree of intraocualr scattering or measuring the IOL accommodation range.
All theses modules can be integrated in one single application.

By means of these apparatus you will be able to tell your patients how well the images on the retina are formed.

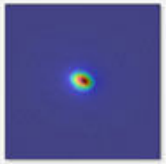


Scatter Meter

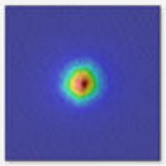
By processing the aerial images obtained with OQAS II the intraocular scattering can be quantified using OSI* (Optical Scattering Index).

Thus, a clasification of cataract stage or capsular opacification can be carried out.

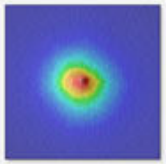
*OSI larger than 1.5 indicates a considerable degree of intraocular scattering. OSI ranges between 0 to 10



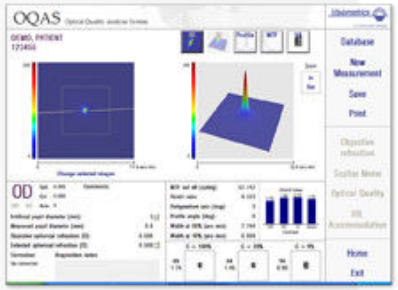
OSI: 0.2



OSI: 2.1



OSI: 4.1



Optical Quality Analysis
(PSF, MTF)

The real psf and MTF affected by aberrations and intraocular scattering are obtained. These parameters describe the actual optical performance of the eye, the ideal system when you want to know objectively the optical limits of Visual Acuity and eye performance.

IOL
Accommodation Range

Accommodation and pseudo-accommodation of intraocular lenses are measured by taking images at different virtual object positions. This is the best way to determine objectively IOL performance.

Visiometrics

Technical Specifications

Measurement range: From +8 to -8 D S.E. (up to +/- 20 using trial lenses)
Reproducibility: +/- 0.10 D
Accuracy: +/-0.10 D
Integrated pupilometer
Accuracy: +/- 0.1 mm
Artificial pupil diameter: 2 to 8 mm
OSI measurement time: 20 sec
Optical Quality measurement time: 20 sec.
IOL Accommodation range measurement time: 60 sec.
Laser diode wavelength: 780 nm
Best focus determination: automatic

General specifications

Size:
- Equipment: 530 (L) x 425 (W) x 526 (H) mm
- Table (optional): 1000 (L) x 600 (W) x 600-800 (H) mm
- Recommended working space: 2.5 m2

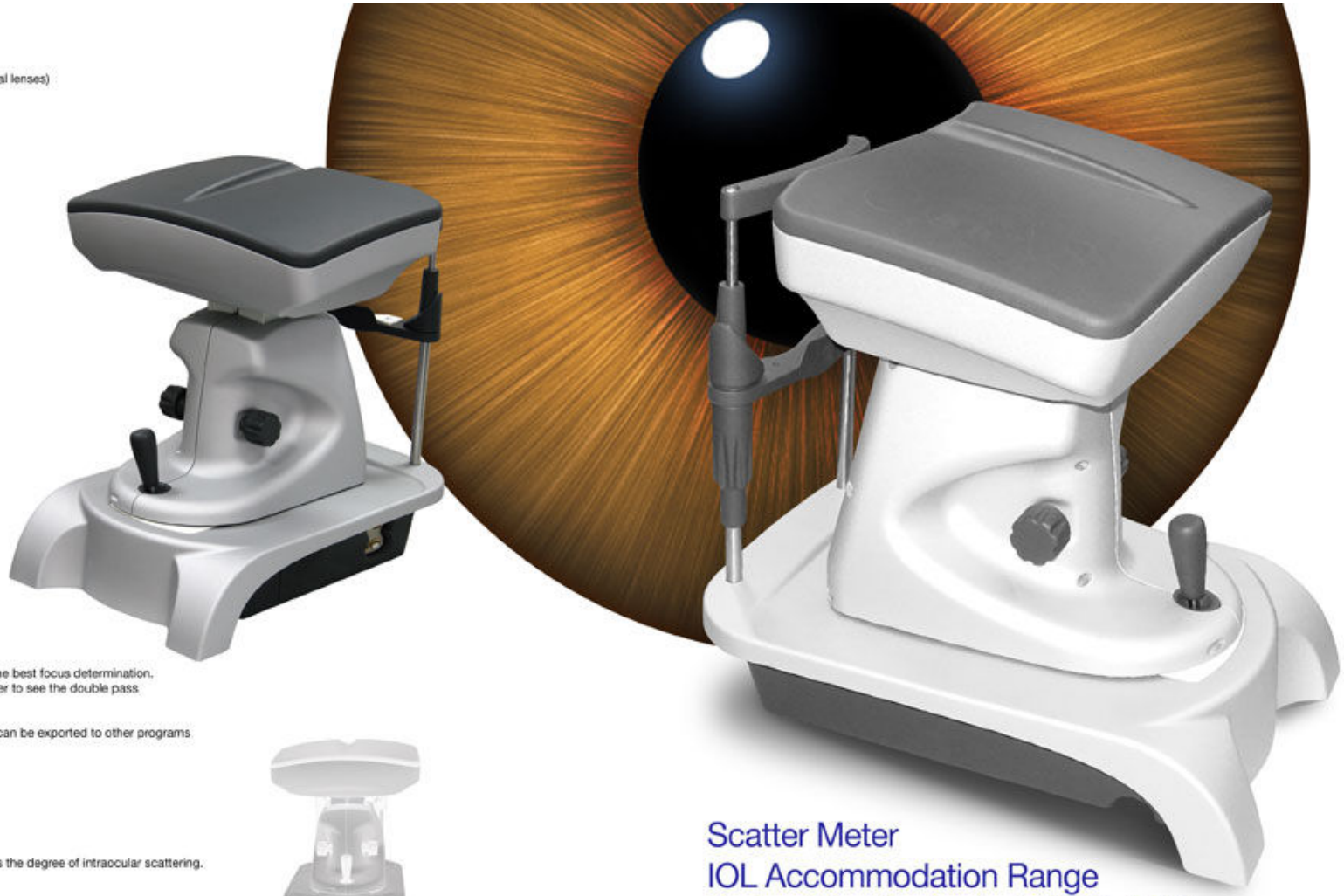
Weight: 15 Kg (aprox)
Power supply: 110/220 V 50/60 Hz
Working temperature: +10 to +40 ºC

Components

OQAS main unit
Adjustable chin rest
Personal Computer
Power supply and comunication wires
Adjustable table (optional)
Printer (optional)

Software
General

Autofocus: double-pass sequence shown. The user can check the best focus determination.
Double-pass image visualization. This functionality allows the user to see the double pass image in real time for different spherical refraction corrections.
Automatic pupil measurement
Useful and user-friendly patient database built in. The database can be exported to other programs
Easy acquisition and manipulation of the images
Complete printable report



Scatter meter

OSI determination. This parameter objectively describes the degree of intraocular scattering. This feature makes cataract classification much easier.

IOL Accommodation range

IOL Accommodation measurement. It is possible to see the retinal image quality for different object positions; therefore, the IOL performance can be determined.

Optical quality analysis

2D and 3D view of the double-pass image (PSF)
Ocular MTF (Modulation Transfer Function) and profile image display
Representation of Visual Acuity and Contrast Sensitivity function

Scatter Meter
IOL Accommodation Range
Optical Quality Analysis (PSF, MTF)

See through your patient's eye

OQAS™ II

Visiometrics

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