

Specifications

Measurement Range: Min. +8 D to -15 D S.E.
(higher ametropias including astigmatism can be neutralized with an additional lens)
Reproducibility: +/- 0.10 D
Accuracy: +/- 0.10 D
Natural Pupil diameter measurement : Automatic
Accuracy: +/- 0.1 mm
Artificial Pupil Diameter: 2 to 8 mm
Image capture time: 250 ms
Diode Laser Wavelength: 780 nm
Laser power selection: Automatic
Maximum laser energy at the pupil plane: 0.02mJ/cm2*
Best focus position: Automatic
(although measurements may be taken in any position)
Standard E fixation target
XY translation: Automatic
Size: 490 x 454 x 252 mm.
Recommended working space: 2.5 m2
Weight: approx. 20 Kg.
Power Supply: 220/240 V 50/60Hz
Temperature : +10° C - +40° C
Humidity: 30%-70%

Components:

- OQAS Main unit
- Adjustable Chin rest
- Adjustable table (optional)
- Power supply cable
- Personal Computer
- Video display
- Printer (optional)
- RS232 Cable
- Coaxial cable (2 units)

Hardware:

- Intel® Pentium® IV Personal Computer
- 15 inch TFT monitor (17 inch optional)
- RS-232 and coaxial interface with main unit

Software:

- 2D and 3D view of the retinal image
- Ocular MTF (Modulation Transfer Function) and profile image display
- Dynamic register (video) of the retinal image
- Representation of Visual Acuity and Contrast Sensitivity function
- Tools for optimum visualization and quantification of the image (powered by OpenGL®). The image can be rotated, moved and scaled just dragging the mouse.
- Useful and user-friendly patient database
- Easy acquisition and manipulation of the images
- Complete printable A4 report

* More than 100 times below that the exposure values permitted by safety standards (ANSI)

Visiometrics 
The Human Vision Company

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OQAS™

OPTICAL QUALITY ANALYSIS SYSTEM



OBJECTIVE VISION

Visiometrics 
The Human Vision Company

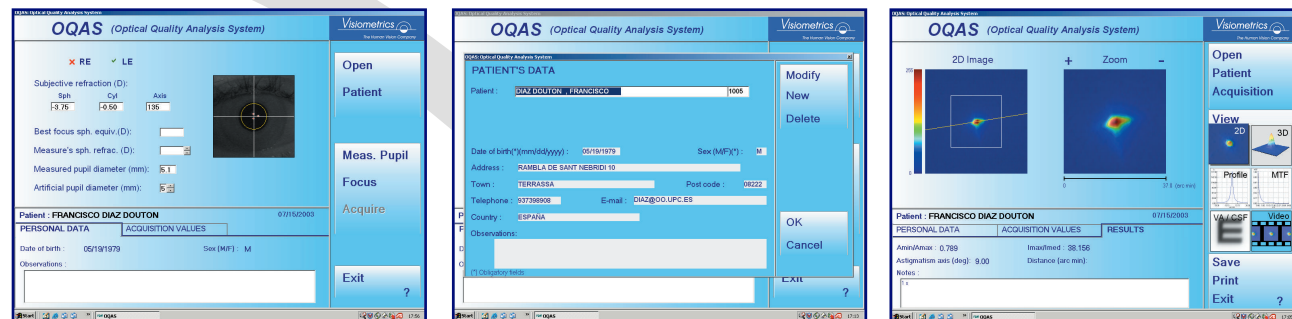


Objective measurements of true vision quality has become an urgent need for all the professionals in the optical field in general and for the ophthalmological surgeons in particular.

OQAS[®] is based on the double-pass technique and provides an objective measurement of the optical quality of the eye.

OQAS[®] is specially designed for:

- Comparing pre and post refractive surgery measurements.
- Showing the effect of ocular aberrations in visual acuity.
- Showing the effect of accommodation through the quality of the retinal image.



OQAS[®] provides:

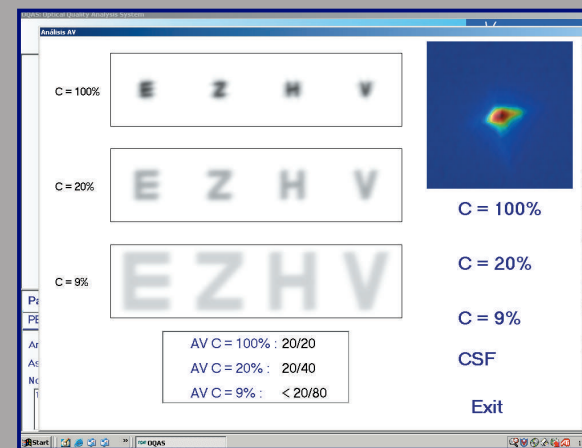
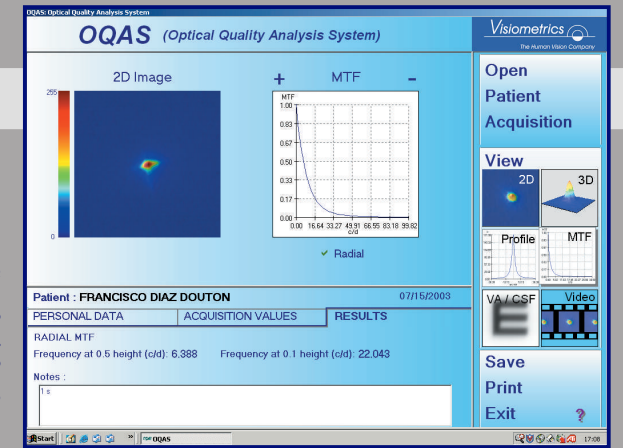
- Two and three dimensional maps of the retinal image, a qualitative way to evaluate the quality of vision.
- The ocular MTF (Modulation Transfer Function) and other quantitative parameters useful to understand the performance of the eye.
- A dynamic register of the retinal image.
- A useful and user-friendly patient database.
- Tools for optimised visualization and quantification of the images, such as zoom, rotation, profiles and measurements.
- Instant animated translation to currently used parameters such as: visual acuity (Snellen Chart values) and contrast sensitivity test.
- Objective measurements of glare.
- Accommodation measurement.



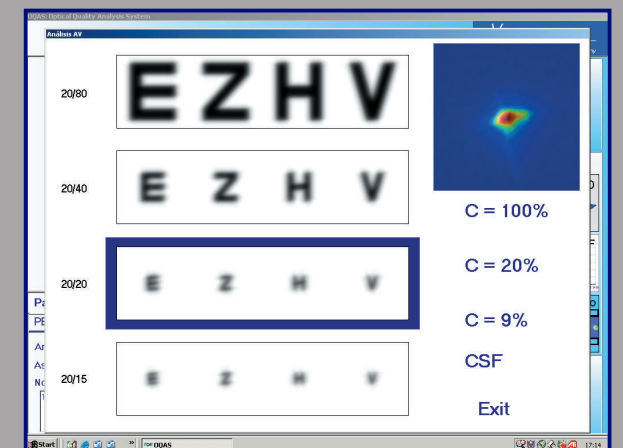
OQASTM

OPTICAL QUALITY ANALYSIS SYSTEM

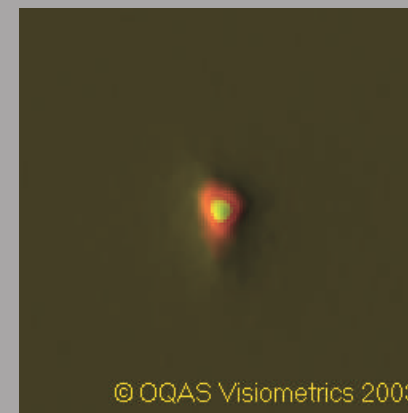
The MTF gives us all the information of the optical quality of the eye. OQAS[®] provides parameters that permit comparing and comprehension of the images



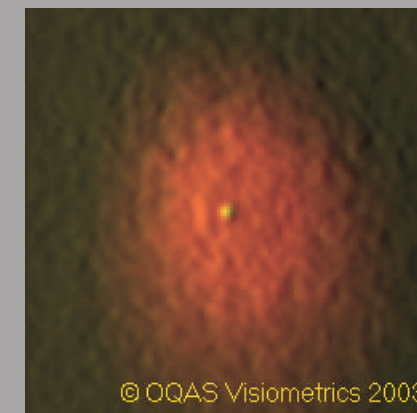
Representation of Contrast Sensitivity



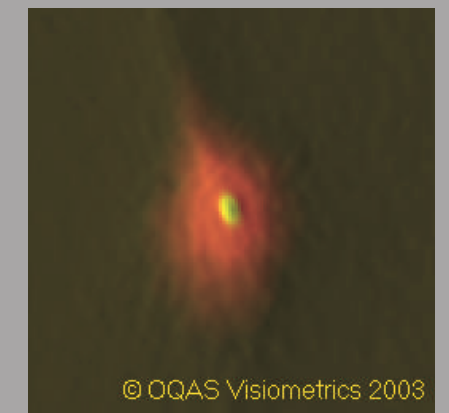
Representation of Visual acuity



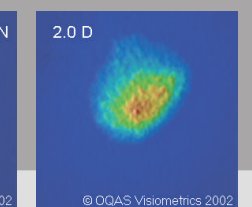
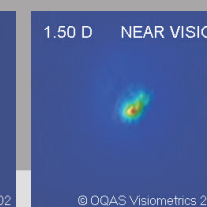
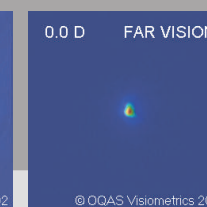
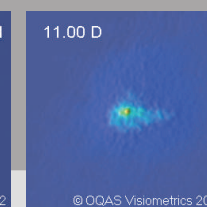
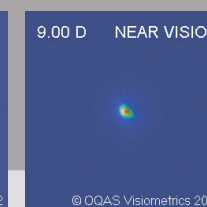
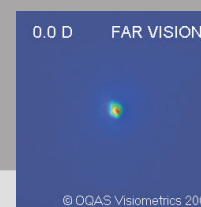
Normal eye



Cataract eye



Post-Lasik



OQAS[®] accommodation analysis

It registers images for different accommodative conditions. It provides a tool for the determination of changes on optical quality between far and near vision
Retinal image visualization for different accommodative levels
Determination of the accommodation amplitude.

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