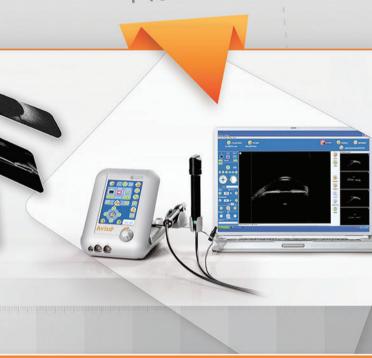


The Ultrasound Platform



A/B Scan & UBM





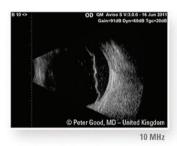


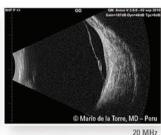
Quantel Medical's cutting edge technology in ultrasonography has brought constant and multiple innovations to ultrasound specialists worldwide since 1993.

Aviso A/B is a modular ultrasound platform that adapts to the varying demand of multispeciality practices. It offers the largest choice of probe frequencies in the market from conventional 10 MHz to high frequency anterior and posterior segment probes and covers all diagnostic needs.

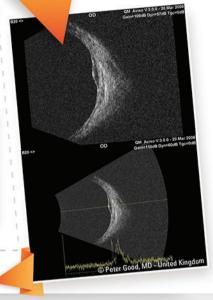
■ Image quality first

Aviso A/B delivers high resolution digital imaging. Its high signal to noise ratio helps differentiate the finest structures at all frequencies.









A constant high quality image standard is kept at any zoom factor used.

Powerful and user friendly interface

Whether with the Aviso A/B unique touchscreen remote or the computer terminal the examination is fast and easy:

- Seamless workflow for scan performing, viewing and editing,
- Eye diagram for easy probe labelling. Allows quicker and easier scan identification and interpretation,
- Unlimited number of scans per session,
- High performance post processing image tools such as measurement calipers, area, and markers for precise quantification,
- Still images and video always accessible for direct editing and analyzing,
- Automatic video recording of the last 40 seconds of examination for best scan selection and kinetic diagnosis,
- Full screen viewing of A & B scans,
- Various filters for tissue differentiation in B mode at all frequencies,
- Customizable multiple choice database search criteria.

■ DICOM & EMR compatible

EMR compatible, Aviso connects to any compatible software for data storage.

The DICOM option allows for an easy access to the patient work list and for the storage and retrieval of the exams performed with Aviso.



Unparalleled Linear Scanning UBM

■ Quantel Medical's proprietary magnetic 50 MHz with linear scanning Ultrasound Biomicroscope (UBM) probe technology

The 50 MHz probe reveals what you can not see with OCT alone, enabling the operator to visualize the structures located behind the iris such as the ciliary bodies, the processes and lens zonules.

Linear scanning offers the greatest signal intensity, providing superior anterior chamber image quality as the probe is always perpendicular with the tissue interface of interest.

Controlled through magnetic field, the transducer scanning motion offers a faster scanning process and an increased image resolution. This technology allows a higher comfort of use with less vibration and a probe lighter in weight.

New covers such as ClearScan® by ESI make UBM technology easier to use and shorten the learning curve (ClearScan is a registered trademark of ESI. Inc.).

UBM linear technology is also available on the 25 MHz probe, designed for anterior chamber imaging and cataract specialists.

Glaucoma management





Pupil Block



Cataract and refractive surgery



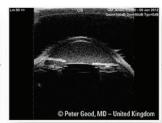
Angle to angle measurement / Sulcus to sulcus measurement





Phakic IOL





Anterior chamber hyphema, dysgenesis & angle closure

■ General examination





■ Glaucoma module: qualify and quantify

The Aviso A/B 50 MHz UBM probe is the tool of choice for studying the mechanisms and critical relationships between the iris, the lens and the ciliary body in glaucoma patients. It also helps to assess the efficacy of surgical procedures. The Aviso A/B glaucoma module offers semi-automated quantifying tools for angle and iris measurements:

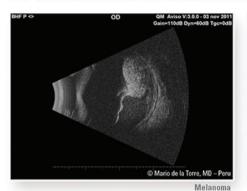
- AOD 500 & 750 (Angle Opening Distance)
- TIA (Trabecular Iris Angle)
- IT 750 & 2000 (Iris Thickness)
- ARA 500 & 750 (Angle Recess Area)
- TISA 500 & 750 (Trabecular Iris Space Area)
- LV (Lens Vault)



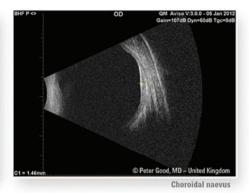


■ High-frequency 20 MHz for posterior segment imaging

The magnetic 20 MHz probe for retina is a unique diagnostic tool for high resolution posterior pole and retinal periphery imaging. The distinction between the retina, choroid and sclera as well as the vitreoretinal junction have never been finer.







■ Biometry module

Aviso A/B's biometry module allows axial length measurement of all eye types.

The set of IOL calculation formulas includes Shammas and Rosa and other formulas for challenging post-refractive cases. A unique scleral spike recognition feature allows the automatic discrimination of misleading optic nerve scans.

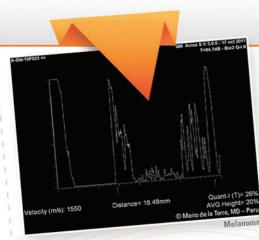
The Probeam biometry probe (A probe with built-in laser pointer) makes the patient's cooperation easier for faster acquisition. Automatic biometric readings obtained from a B mode image allow axial length measurements for difficult to measure long eyes or posterior staphyloma.

This technique provides the possibility to simultaneously view the posterior pole.

■ Standardized echography*

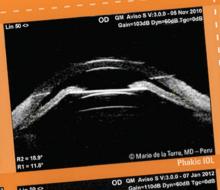
Quantel Medical is proud to manufacture the one and only standardized echography system that fully complies with Prof. Karl Ossoinig's requirements.

Aviso's standardized A mode offers unique tissues differentiation and characterization for optimal diagnosis of intraocular and orbital pathologies.

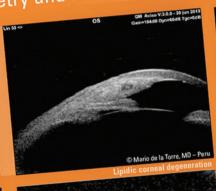


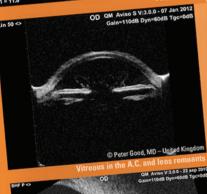
Aviso your Ultrasound Platform of choice for:

Cataract and refractive surgery
Corneal diseases
Glaucoma management
Vitreoretinal diseases
Intraocular tumors
Biometry and IOL calculation

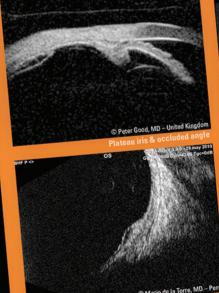


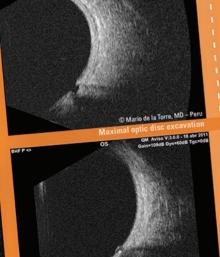












B SCAN MODES

Grey levels: 256

20 to 110 dB Adjustable gain: Time Gain Control (TGC): 0 to 30 dB

Manual and synchronized dynamic range adjustment from 25 to 90 dB

Unlimited storage capacity for still images and video sequences (up to 40 second duration) Image post-processing tools: Algorithmic & color image filters, calipers, areas, angles,

markers, comments

Glaucoma quantifying semi-automated tools with AOD 500 & 750, IT 750 & 2000, TIA, ARA 500 & 750, TISA 500 & 750, LV

POSTERIOR POLE EXAMINATION

Magnetic 10 MHz probe

Transducer frequency: 10 MHz Angle of exploration:

20 to 60 mm (0.79" to 2.37") Depth of exploration: 21 to 25 mm (0.83" to 0.98") Focus:

Axial resolution: 150 um Lateral resolution: 300 µm Frame rate acquisition: up to 16 Hz

Magnetic 20 MHz probe for posterior pole*

Transducer frequency: 20 MHz

Angle of exploration: 500 Focus:

24 to 26 mm (0.94" to 1.02") Axial resolution:

Lateral resolution: 250 µm Frame rate acquisition: up to 16 Hz

UBM & ANTERIOR SEGMENT EXAMINATION*

Magnetic 50 MHz UBM probe with linear scanning

Transducer frequency: 50 MHz

Linear transducer movement: exploration width 16 mm (0.63") 9 to 11 mm (0.35" to 0.43") Focus:

Axial resolution: 35 um Lateral resolution: 60 µm

Linear 25 MHz UBM probe

Transducer frequency:

exploration width 16 mm (0.63") Linear transducer movement: 11 to 13 mm (0.43" to 0.51") Focus:

Axial resolution: 70 um Lateral resolution: 120 um

Built-in physician and patient database Exportation of still images and video sequences Customizable digital and printed reports DICOM* and/or EMR compatible

Compatible with PC, USB video and DICOM printers



TECHNICAL SPECIFICATIONS

20 to 110 dB Adjustable gain: Time Gain Control (TGC): 0 to 30 dB

11 MHz Probe

Transducer frequency: 11 MHz 6 mm (0.23" Tip diameter: Electronic resolution: 0.04 mm (0.002") 40/80 mm on 2048 points Contact and immersion techniques compatible LED or laser pointer* Aiming beam:

Axial length measurements

Ultrasound propagation velocity adjustable per segment (anterior chamber, lens, vitreous) and IOL and vitreous material

Built-in pattern recognition: phakic, aphakic, PMMA, acrylic and silicone material for

pseudo-phakic eye types

Automatic calculation of standard deviation and average total length

(series of 10 measurements)

Acquisition modes: automatic, auto + save, manual

Automatic detection of scleral spike

IOI calculation

SRK-T, SRK 2, HOLLADAY, BINKHORST-II, HOFFER-Q, HAIGIS

Post-op refractive calculation:

- Pre-op and Post-op refraction, Pre-op and Post-op keratometry

- 6 different methods for keratometric correction and implant calculation:

History derived, refraction derived, contact lens method, Rosa regression, Shammas regression, Double K/SRK-T (Dr. Aramberri's formula)

7 values bracketed for desired ametropia for each IOL (IOL increment steps: 0.25D or 0.50D)

Simultaneous display of 4 different IOL calculations

GENERAL INFORMATION

Connectable to PC systems via USB-2 port operating under Windows 8 / Windows 7 Dedicated software for communication driving between the acquisition module and

Images displayed on the computer monitor

Electrical requirements

Power supply: 100-120 / 200-240 Vac ± 10% single phase + grounding

50 / 60 Hz Frequency: 25 VA max Power:

Features

Overall dimensions: 19 cm (L) x 17 cm (W) x 19 cm (H); 7.5" (L) x 6.7" (W) x 7.5" (H)

8.6 cm (W) x 11.5 cm (H); 3.4" (W) x 4.5" (H) Touch screen dimensions:

Weight: 1.5 kg (3.3 lb.)

* Option

Specifications are subject to change without notice.

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www.quantel-medical.com

Designed and Manufactured by Quantel Medical in France



Quantel Medical 11, rue du Bois Joli - CS40015 63808 Cournon d'Auvergne - FRANCE Tel: +33 (0)4 73 745 745

Fax: +33 (0)4 73 745 700 E-mail: contact@quantel-medical.fr **North America**

Quantel USA 601 Haggerty Lane Bozeman, MT 59715 - USA

Tel: +1 877 782 6835 Fax: +1 406 522 2005

E-mail: info@quantelmedical.com

Representative Offices Thailand, Chiang Mai Brazil, Rio De Janeiro



ISO 9001-13485