





■ NEW ANNULAR IMAGING

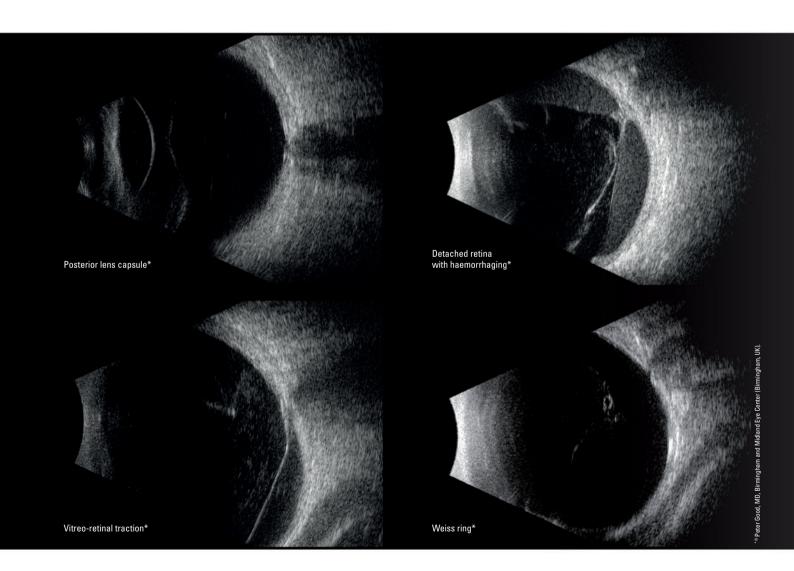
Quantel Medical has made a decisive leap forward with a new 5 ring annular technology on a 20 MHz probe.

The principle is to **emit alternating ultrasounds** by **5 concentric transducers** located in a single probe.

This technology:

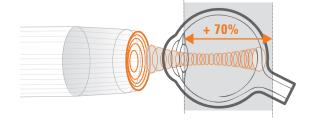
- · increases depth of field by 70%,
- increases lateral resolution by 27%,
- maintains high axial resolution.

The images thus obtained are spectacular as the **entire eye is now visible** with an exceptional level of **detail**.



■ A SINGLE MULTIFUNCTION PROBE

The annular technology almost doubles the depth of field: the new 20 MHz annular probe increases the depth of field by 70% and makes it possible to simultaneously examine pathologies of the vitreous, the retina and the orbit without compromising on image quality.



A/B/S/UBM Ultrasound Platform **■ REDESIGNED USER INTERFACE** The new ABSolu's user interface is intuitive and easy to use. It shortens the learning curve and makes it more fun to use. • Broad palette of measuring tools. • Display in B+B mode for easy comparisons of examinations. • Fully configurable patient report generator. ABSolu is also EMR compatible and connects to most data transfer and storage applications. ■ INTEGRATED **MOTION SENSOR** The B15, B20 and UBM probes are equipped with a position sensor that provides real-time essential informations such as: • the position of the probe on the eye, • the direction of the ultrasound beam. This helps the operator to identify the area of examination more rapidly. THIS TECHNOLOGY IS PATENTED AND EXCLUSIVE TO QUANTEL MEDICAL. ■ **DICOM I**MAGING A world premiere in ophthalmic ultrasound: Wi Fi new Full HD screen with greyscale display compliant with section 14 of the DICOM standard. • Constant and standardised image quality. • Reliable image interpretation.

■ ABSwitch & FUNCTION WIRELESS FOOTSWITCH



- Adjustable Gain (+ and –).
- Freeze/unfreeze image.
- Viewing of Cineloop images (forward and reverse function).
- Images saved in the patient's file.
- Tag on the Cineloop.

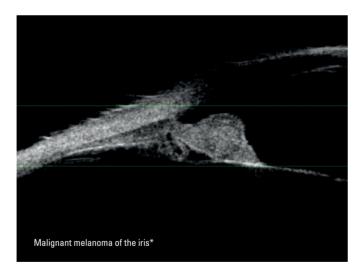
■ **NEW** UBM IMAGING

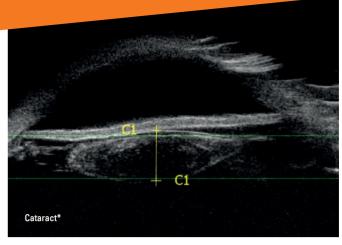
UBM technology makes it possible to diagnose the structures behind the iris, that other technologies cannot visualize. Quantel Medical now offers optimised UBM technology:

- new signal processing for enhanced resolution and penetration,
- linear transducer motion to optimise image quality,
- electromagnetic technology to increase speed acquisition and comfort of use.
- **Clearscan**TM compatible: rapid and comfortable examination.

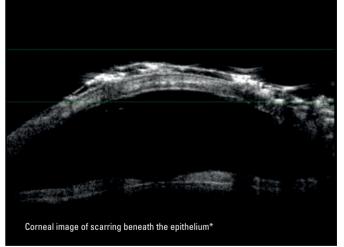


All the semi-automatic quantification tools are available on ABSolu (AOD, TIA, IT, ARA, LV) and facilitate examination and understand the mechanisms of the iris, the lens and ciliary bodies in patients with glaucoma.









■ STANDARDISED **ULTRASOUND**

With numerous enhancements that make it easier and more intuitive to use, ABSolu remains the only ultrasound platform that meets Professor Karl Ossoinig's criteria.

The S mode allows for:

- diagnosis of tumour lesions,
- diagnosis of retinal/vitreous membrane detachment,
- diagnosis of Graves' disease.

■ A-SCAN BIOMETRY AND B MODE BIOMETRY

The A-scan biometry and B mode biometry modules facilitate measurement of the axial length in eyes of all types:

- moderate to dense cataract,
- long eyes or posterior staphylomae.

This measurement is facilitated by the ProBeam™ probe (biometric probe with on-board laser) which makes for better cooperation from the patient during examination.

TECHNICAL SPECIFICATIONS

B SCAN MODES

Grey levels: 256 20 to 110 dB Adjustable gain: Adjustable Time Gain Control (TGC): 0 to 30 dB

Adjustable dynamic range: adjustment from 25 to 90 dB (for 15 and 50 MHz -

80 dB for 20 MHz 5A)

Image post-processing tools: filters (algorithm and colors), calipers, areas,

angles, markers, comments

semi-automated tools: AOD 500 & 750, TIA, IT 750 & 2000, ARA 500 & 750,

TISA 500 & 750, LV

Cineloop in B mode: up to 400 images

POSTERIOR POLE EXAMINATION

Magnetic 15 MHz probe

Glaucoma quantifying

Transducer frequency: 15 MHz Angle of exploration: 50°

Depth of exploration: 60 mm (2.36") Focus: 24 mm (0.94") Depth of field: 12 mm (0.47") Axial resolution: 115 um Lateral resolution: 400 um Frame rate acquisition: up to 16 Hz

Accelerometer for probe localization

Magnetic Annular 5 rings 20 MHz probe

Transducer frequency: 20 MHz - Annular 5 rings

Angle of exploration:

Depth of exploration: 60 mm (2.36") 22 mm (0.87") Focus: Depth of field: 20 mm (0.79") Axial resolution: 80 µm Lateral resolution: 200 um Frame rate acquisition: up to 16 Hz

Accelerometer for probe localization

UBM & ANTERIOR SEGMENT EXAMINATION

Magnetic 50 MHz UBM probe with linear scanning

Transducer frequency: 50 MHz Linear transducer movement: 16 mm (0.63") 10 mm (0.39") Focus: Axial resolution: Lateral resolution: 60 um Accelerometer for probe localization

STANDARDIZED A MODE

Digitally programmed S-shaped amplifier characteristics and comprehensive design criteria for standardized echography and tissue differentiation according to Karl C. Ossoinig MD. Automatic tissue sensitivity determination with specific gain value recorded.

Lesion Q1, Retina A1, Retina Q2, muscular profile Diagnosis functions featuring: with Optic nerve measurements

Probe Frequency: 8 MHz parallel beam Cineloop in A mode: up to 400 images

orbit 80 μs, eye 40 μs, zoom 20 μs

Distance measurement between 2 gates with adjustable velocity



BIOMETRY

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

11 MHz Probe

Transducer frequency: 11 MHz Tip diameter: 7 mm (0.28") 0.04 mm (0.0016") Flectronic resolution:

Depth of exploration: 40/80 mm (1.57"/2.36") on 2048 points Aiming beam: LED or laser beam ProBeam™

Contact and immersion techniques compatible

Axial length measurements

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

and IOL and vitreous material

Built-in pattern recognition: Phakic, Dense/Long, Aphakic, PMMA, Acrylic and

silicon for pseudo-phakic eyes Automatic, Auto+save, manual

Acquisition modes: Automatic detection of scleral spike

Automatic calculation of standard deviation and average total length (series of 10 measurements)

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)

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

Simultaneous display of 4 different IOL calculations

DATA MANAGEMENT

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 Storage capacity: no restriction of number of exams per patient

*in options

GENERAL INFORMATION

Connection 5 USB ports (1 on the base -4 on the bottom of the screen)

HDMI and Ethernet outlets

Windows 10 embedded exploitation system HDD 1TB - SSD128 Gb - RAM 16 Gb No restriction of storage in patient file

Electrical requirements

Power supply: 80-264 Vac Frequency: 47/63 Hz Power. 60 VA max

Features

Height 445 mm (17.51") - Depth 285 mm (11.22") -Overall dimensions: Width 545 mm (21.46") (W/O probe holders) and

840 mm (33.07") with all probes

Screen dimensions: 21" inch HD (1920*1080p) Weight: 10.6 kg (23.37 lb) (w/o probes)

www.quantel-medical.com

A product by Quantel Medical, France





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