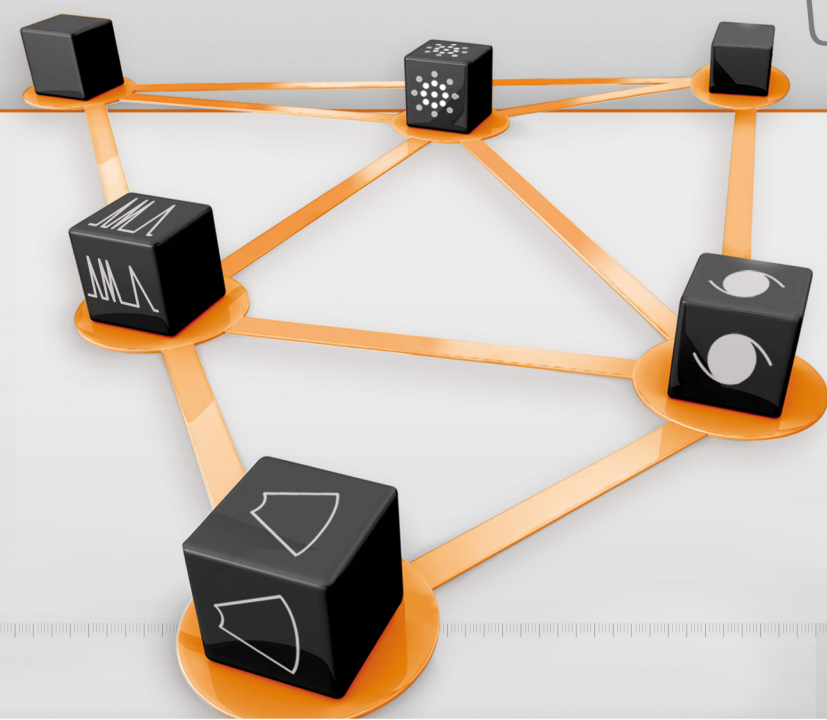


# Compact Touch™

3 in 1  
Ultrasound System



**A/B Scan & Pachymetry**



# Compact Touch™

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

**Compact Touch™** is the **portable A/B scan system** that adapts to today's clinical needs and tomorrow's medical challenges of general ophthalmologists.

Together with its **high quality B-scan mode**, and the **optional biometry and pachymetry modules**, **Compact Touch™** sets the standard in portability for ophthalmic ultrasound systems.

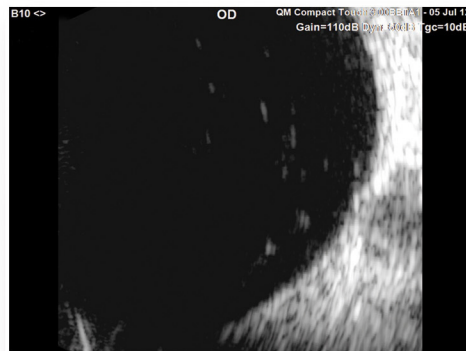
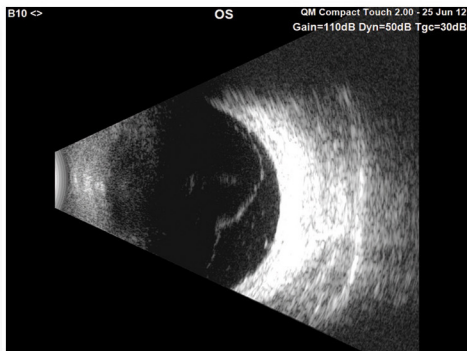
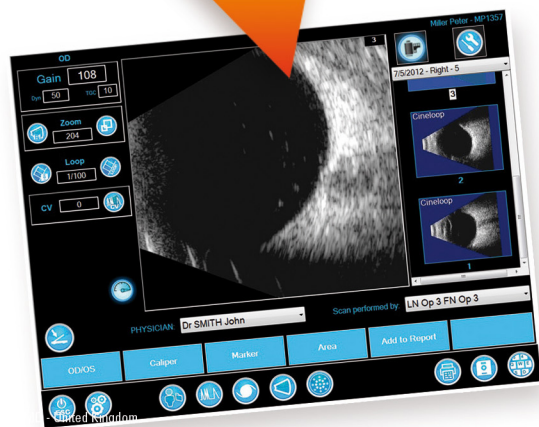
## ■ Superior B-scan visualization

Thanks to Quantel Medical's proprietary technology incorporated in B-scan probes, Compact Touch™ offers high resolution B mode images achieving better visualization and differentiation of structures and pathologies.

New High Frame Rate functionality provides real time imaging when kinetic examination is crucial.

Whether with still images or video sequences, Compact Touch™ provides the examiner the ability to obtain diagnosis with complete confidence.

B mode also allows for biometry in myopic patients with staphyloma and Compact Touch's software offers automatic A-scan measurement from B-scan for immediate IOL calculation.



## ■ Work faster and smarter

The intuitive user interface is accessible through a touch screen panel.

Easy and quick access to all functions speeds up image capture and processing.

Still images and video sequences can be reviewed easily in order to select the best scan.

Post processing of the images includes adjustment of the gain on a frozen image, distance and area measurements as well as input of comments.





# A/B Scan & Pachymetry

## ■ Precision in A-scan and IOL calculation

Ultrasound biometry is the only technology that allows measurements in all eye types including when dense cataracts are present.

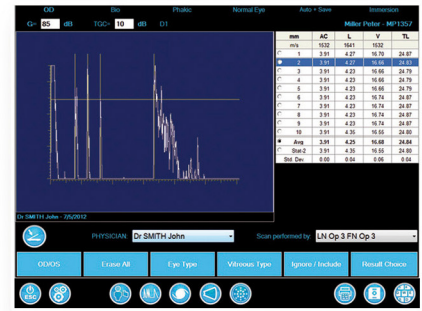
Compact Touch™ biometry option provides high precision axial length measurements, meeting the needs of advanced IOL types and calculations.

Together with the contact technique, immersion biometry is available to avoid any compression of the anterior chamber.

Scleral echo discrimination automatically eliminates optic nerve scans.

Quantel Medical's ProBeam™ is a biometry probe with built-in laser pointer that permits automatic focusing in the visual axis.

The IOL calculation function allows comparison between different IOL types and calculation formulae. A total of 12 IOL calculation formulae are available including post-refractive surgery formulae.



## ■ Easy glaucoma screening with the pachymetry option

With a precision of  $\pm 5$  microns, the pachymetry module allows fast and accurate corneal thickness measurements.

Built-in IOP correction calculation tables provide the ability to adjust for variations in intra-ocular pressure.

For refractive surgery, several measuring modes and corneal maps are available.



## ■ Mobile versatility

Weighing less than 5 kgs (11 lbs), Compact Touch is easy to transport to wherever it's needed.

The built-in patient and user databases provide unlimited access to information.

EMR compatible, Compact Touch™ connects to most of compatible softwares for data storage.



# Compact Touch™

## TECHNICAL SPECIFICATIONS

### B MODE

Grey levels: 256  
Adjustable gain: 20 to 110 dB  
Time Gain Control (TGC): 0 to 30 dB  
Dynamic range adjustment: 25 to 90 dB  
Storage of still images and video sequences (up to 10 second duration) on hard disk  
Image post-processing tools: calipers, areas, markers, comment

#### 10 MHz probe

Transducer frequency: 10 MHz  
Angle of exploration: 50°  
Depth of exploration: 20 to 60 mm (0.79" to 2.36")  
Focus: 24 to 26 mm (0.94" to 1.02")  
Axial resolution: 200 µm  
Lateral resolution: 600 µm  
Frame Rate Acquisition: up to 16 Hz

### BIOMETRY

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

#### 11 MHz Probe

Transducer frequency: 11 MHz  
Tip diameter: 7 mm (0.28")  
Electronic resolution: 0.03 mm (0.002")  
Depth: 60 mm (2.36") on 1536 points  
Contact and immersion techniques compatible  
Aiming beam: LED or laser pointer ProBeam™\*

#### 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

#### IOL 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)

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  
EMR compatible  
Compatible with PC and USB video printers

### PACHYMETRY\*

Transducer frequency: 20 MHz  
Tip diameter: 1.2 mm (0.05")  
Method: contact  
Convergence: 0.5 mm (0.02") from the tip  
Angle: 45°

#### Corneal thickness measurements

Measurement range: 200 to 999 microns  
Number of measurements: 1 to 10  
Precision: ± 5 microns  
Velocity: adjustable  
Methods: central measurement or cartographic map (automatic, continuous, scanning)  
Cartographic map: user - 8L - 4L - 9C8L - 9C4L - 5C8L - 5C4L - 9C - 5C

#### I.O.P. correlation tables

Tables correlating intraocular eye pressure and corneal thickness:  
Ehlers + Doughty + Dresdner + unlimited user-defined tables

#### Specifications

Bias correction: up to 120%

### GENERAL INFORMATION

Back-lit LCD colour touch screen monitor (resolution 1024x768)

#### Electrical requirements

Power supply: 100-240 Vac ±10% single phase without earth  
Frequency: 47-63 Hz  
Power: 70 VA max

#### Features

Overall dimensions: 37.5 cm (W) x 10 cm (D) x 27 cm (H)  
14.76" (W) x 3.94" (D) x 10.63" (H)  
Touch screen dimensions: 21 cm (W) x 16 cm (H); 8.27" (W) x 6.3" (H)  
Weight: 4.2 kg (9.26 lb)  
Ports: 2 USB, 1 ethernet

#### Peripherals and accessories

Keyboard\* with USB  
Mouse with USB  
External PC printer Windows® 7 compatible\*  
Video printer with USB connection\*  
Footswitch  
Carrying case  
Connection to medical servers via EMR

(\*) Option

Specifications are subject to change without notice.

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