

# Compact Touch<sup>®</sup>



**COMPACT IN  
DESIGN,  
DEFINITIVE IN  
DIAGNOSIS**

**A/B/P Ultrasound Platform**

# Compact Touch<sup>®</sup>

## ■ QUANTEL MEDICAL REDEFINES THE STANDARD IN B-SCAN IMAGING

The new Compact Touch benefits from a **new generation of 15 MHz B probe** with a **resolution increased by 30%**. It allows for a better visualization of the eye structures and the orbit hence a better diagnosis.

**Small in size**, this probe benefits from an **excellent ergonomics** to **facilitate its handling and use**.



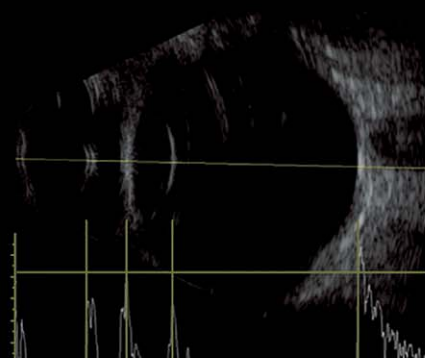
© Peter Good, MD  
Birmingham and Midland Eye Centre (Birmingham, UK)  
Choroidal melanoma



© Adil El Maftouhi - Hôpital des XV-XX (Paris, France)  
Centre Ophtalmologique Rabelais (Lyon, France)  
Diabetic Retinal Detachment

The Compact Touch has the exclusive technology of **biometry in B-mode** that allows to automatically measure the axial length from a B-mode image.

This technique is essential for the patients with long myopic eyes associated with staphylomas.



mm	AC	AC	AC	TL
m/s	1532	1532	1532	
1	3.24	3.24	3.24	24.11
Avg	3.24	3.24	3.24	24.11
Stat-2	3.24	3.24	3.24	24.11
Std. Dev.	0.00	0.00	0.00	0.00



Heir of a **brilliant** past, turned toward **future**

**DICOM**

## ■ A **CONNECTED ULTRASOUND** PLATFORM

- With a **DICOM interface**, the new Compact Touch can now import (worklist function) and export (storage function) images and patients reports to the PACS. Reports and images printout is also possible either on a **DICOM printer**, or a **local printer with WIFI**.
- **Videos sequences (CINELOOPS)** can also be sent in **DICOM format**.
- For more ease of use, a wireless keyboard and mouse can also be connected.
- A new **HDMI** video output.



## ■ A **SLEEK DESIGN**, WITH INCREASED **ERGONOMICS**

A weight now **less than 4kg**, **Compact Touch** has never been so well named, its dimensions have been significantly reduced to fit better in every working environment.

- It is more easily transportable, thanks to its foldable and **reclining carrying handle**.
- To further increase working ergonomics around the patient, its **VESA fixation** offers the possibility to be **mounted either on a wall**, on an **articulated arm**, or on a **mobile trolley** (optional).
- Fanless, it is as **silent** as a tablet.



Non-contractual picture



Non-contractual picture



Wi Fi

EMR



HDMI

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## ■ A-SCAN AND IOL CALCULATION

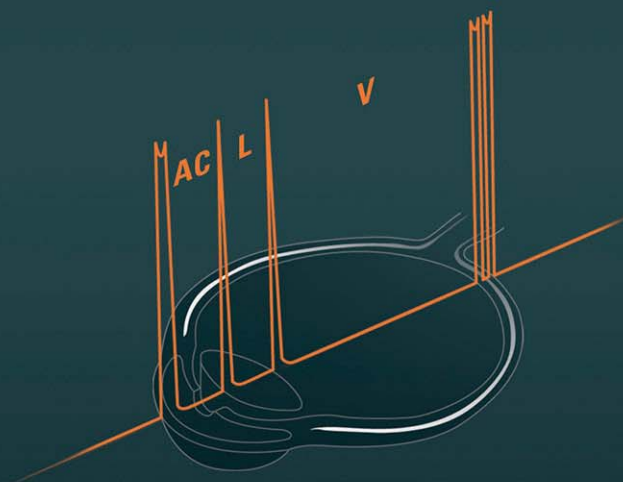
Ultrasound biometry is the only technology that allows measurements in all eyes types including when dense cataract are present. **With the immersion technique, the axial length measurement accuracy is 0.03mm.**

The **patented A-scan Probeam™** technology is an exclusivity from Quantel Medical. This probe generates a laser beam that offers a fixation point to the patient facilitating: this facilitates the measurement while increasing ease of acquisition.

The **IOL calculation** function allows comparison between different IOL types and calculation formulae.

A total of 12 calculation formulae is available including post-refractive surgery formulae.

The **IOL implant calculation is done at 0.25D.**



## ■ PACHYMETRY

Essential for glaucoma diagnosis and for refractive surgery, Compact Touch offers several measuring modes and corneal maps with an accuracy of  $\pm 5$  microns.

Intraocular pressure can be adjusted thanks to built-in IOP correction calculation tables.



## 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 40 second duration) on hard disk	
Image post-processing tools:	calipers, areas, markers, comment

### 15 MHz probe

Transducer frequency:	15 MHz
Angle of exploration:	50°
Depth of exploration:	60 mm (2.36")
Focus:	24 mm (0.94")
Axial resolution:	115 µm
Lateral resolution:	400 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 (2.4") 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  
DICOM compatible (Worklist, Storage, Print)\*  
EMR compatible  
Compatible with PC and USB video printers

## TECHNICAL SPECIFICATIONS

### 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%
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## GENERAL INFORMATION

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

### Electrical requirements

Power supply:	100-240 Vac ±10% single phase without earth
Frequency:	50/60 Hz
Power:	60 W max

### Features

Overall dimensions:	26.8 cm (W) x 4.0 cm (D) x 24.6 cm (H) 10.6" x (W) x 1.6" (D) x 9.7" (H)
Touch screen dimensions:	21 cm (W) x 16 cm (H) - 8.3" (W) x 6.3" (H)
Weight:	3.5 kg (7.7lb)
Ports:	4 USB, 1 ethernet

### Peripherals and accessories included in the basic configuration

Footswitch  
Bluetooth mouse

### Peripherals and accessories in option\*

Keyboard with USB and bluetooth  
Mouse with USB  
External PC printer Windows Operating System compatible (USB or Wifi)  
Video printer with USB connection

### (\*) Option

Specifications are subject to change without notice.

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