

QFT 200 Series

The Next Generation



- NEW Color Coded Direct Access keypad Makes This Quantum *SO EASY* To Use
- NEW Single Key Direct Access to Gain, Range & Delay... No More Searching Through Endless Menus
- NEW *User Definable* Option Keys... Watch The other guys Follow This One!
- Totally Re-Designed Menu Structure Makes All Operations Simple
- Built In Help Screens For Every Menu Item
- Super Fast LCD Display... The Only Choice For Both Bright Sunlight & Dark Areas
- New Built In Tilt Stand Makes The QFT200 Even More Convenient!
- DAC, DAG & Weld Curves Meets Any requirement For Straight Beam Or Angle Inspection
- Still Only 3lbs, Including Batteries

All This And *STILL* The Best In Ultrasonic Performance!

 **NDT Systems, Inc.**
Worldwide Excellence In Ultrasonics

QFT200 Series Features and Specifications



QFT 200 Features and Specifications

NDT Systems, Inc. has consistently pioneered innovation after innovation in portable ultrasonic flaw detectors. NDT was the first to introduce the use of Liquid Crystal Displays for easier viewing in bright sunlight or dark areas, as well as providing the ultimate in portability in a 3lb package. The **ALL NEW Quantum QFT200** follows the tradition of innovation...and the some! The **QFT 200** is loaded with new features and conveniences absolutely unmatched by the competition. Give us the opportunity to demonstrate and we believe you'll agree.

Direct Access Keys...

"MAKE IT EASIER TO USE!" We've been listening as demonstrated by our new Color Coordinated sealed membrane keypad. This new control panel is the easiest to use in business. It provides **single stroke** access to Gain, Range and Delay...what a concept; provide the user with direct access to the three single most commonly used features of an ultrasonic flaw detector. No need to select a function and move somewhere else on the panel to adjust as with ALL other compact digital portables.

User Definable Keys...

We have also provided you a means to "program" your gage with up to four of your own most commonly used features via our user definable keys. Just cursor to the menu item you would like to access with a single key stroke, press and hold one of the four option keys for 2 seconds and that key is now the selected function! What could be easier. Recall of instrument setups can also be accessed through this feature.

NEW Menu Structure...

All functional are divided into six logical groups so menu hopping is minimized. These menus are oriented vertically, in simple English along the left edge of the screen.

Built In Help Screens...

It's like having the manual built in! Have a question on a particular menu item? Just press and hold the select key for 2 seconds and up to a full screen of text explains the function and how to use it. This feature is active for each and every menu function.

Built In Tilt Stand... Standard

Okay...we should have done this a long time ago.

Super Fast LCD Screen...

An **ALL NEW** approach to Liquid Crystal Displays. This display is 4.8" X 2.4" in size and so much faster you may have to see it to believe it. LCDs will give you superior visibility in the brightness of lighting conditions to the darkest areas you can find. Just ask the other guy to bring his EL (orange or yellow & black display) based instrument outside. It gets tough to see if you can see at all! Give us an opportunity to demonstrate it to you.

DAC, DAG & Weld Curves...

Provides the ability to work within any specification. The operator can manually define the curve or have Quantum help.

Still Only 3lbs...

Have you ever carried 6lbs all day. It seems like 60lbs after awhile! Still at 3lbs, including internal batteries and no bulky belt packs to attain a reasonable battery life or misplace. **Quantum's** Battery lasts up to 7 full hours on a single 1.75 hour charge. And we supply two batteries for up to 14 full hours of use!

Specifications:

Display Mode: RF, +HW, -HW, FW
Graticule: Graphic and switchable
Receiver Frequency: 0.5 to 25 MHz broad-band, Tuned - 0.5, 1.0, 2.25, 5.0, and 10 MHz
Gain: 115dB; 0.1, 1.0, 2.0, 6.0dB selectable steps. Adj reference gain. AGC
Pulsar: Square wave; 50 - 400 Volts in DV increments. 30 to 250ns width in 5ns increments
Damping: 16 values, 16 to 500 Ohms
Reject: Linear to 90% maximum
Range: 0.050 to 200 inches (1.25mm - 5077mm)
Delay: -0.15 - 150 inches (3807 mm) FS
Test modes: Single, Dual & Angle Mode
Sync: Initial Pulse (IP), Inter Face (IF), Delay

Flaw Mode: 2 gates, selectable Pos or Neg threshold. Visible & Audible. Triggered at PRF. Gate start variable over entire displayed range. Gate widths variable from gate start to maximum displayed range. Gate level adjustable from 10% to 90%
Thickness Mode: Single echo or echo to echo measurement. Independently adjustable IP, IF and echo blocking gates. HI & LO alarms, large numeric readout. 0.001" & 0.0001" resolution selectable. Last reading Hold
Angle Mode: Flaw Triangulation (sound path, surface distance & flaw depth). Refracted angle adjustment variable from 0 - 90. Flaw gate alarm
DAC, DAG & Weld Curves: Manually or automatically adjustable or display up to 6 curves at various dB increments about the primary curve
Zoom: Zoom between cursors to full screen
Peak Echo Hold: Creates an envelope of largest peak values across A-Trace
Freeze: Freezes A-Trace
User Definable Keys: 4 Keys
Direct Access Keys: Gain, Range & Delay
Stored Setup Memory: 50 User definable setups
Input/Output: RS232 - Transfers instrument setups to & from PC
Power: NICAD battery pack, up to 7.5 hours per charge of 1.5 hours
Weight: 3.2lbs including integral battery

Included Accessories:

Shipped complete with (2) QBP2 Hi Capacity battery packs, QBC1 Quick charge battery charger, BL01 cable, ML01 cable, QCC2 Carry Case, QSET set up & data transfer program and QPC1 PC interconnect cable, Operators Manual

Optional Accessories:

QFT200-DL Data Logging Option: Store up to 4500 data points or split memory between data points and A-Traces. 16 character alpha numeric location designators. Store data in a serial fashion or in a "grid" style. Export data to common spreadsheets such as Quattro Pro or Excel
QCP1: Quantum chest pack
QBH1: Battery belt holster
QHP1: Quantum belt holster

Transducers are required accessories. Please consult your salesman or the factory for help with your application

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