

Quantum TE

The ULTIMATE In User Friendliness



*STILL the best
in Ultrasonic
Performance!*

- ▶ New Color-coded Direct Access keypad makes this Quantum very easy to use.
 - ▶ New Single key Direct Access to Gain, Range, Delay, Velocity, & Zero
 - ▶ New more user definable option keys... Watch the other guys follow this one!
 - ▶ Totally re-designed menu structure makes all operation simple
 - ▶ Built-In Help screens for every menu item
 - ▶ Super fast LCD display... The only choice for both bright sunlight & dark areas
 - ▶ Up to 30+ hours operation on 5 standard 'D' cell batteries
 - ▶ DAC, DAG & Weld Curves meets any requirement for straight beam or angle inspection
 - ▶ Only 6.2 lbs., Including batteries
- NDT Systems has consistently pioneered Innovation after innovation in portable ultrasonic flaw detectors. NDT was the first to

Introduce the use of Liquid Crystal Display's (LCD) for easier viewing in bright sunlight or dark areas, as well as providing the ultimate portability in a 6 lbs. package. The ALL NEW Quantum TE follows the tradition of Innovation... and then some! The Quantum TE is loaded with new features and conveniences absolutely unmatched by the competition. Give us the opportunity to demonstrate and we believe you'll agree.

QUANTUM TE FEATURES & SPECIFICATIONS

Super Fast LCD Display:
Provides UT screen refresh rates approaching EL Displays. The most visible display in bright light conditions.

Direct Access Keys:
Pulser/Receiver Menu
Thickness Menu
Flaw Menu
Main Menu
Full Menu

Option Keys:
Three user programable keys provide direct access to any menu item with one key-stroke.

New Menu Structure:
All functional areas 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.



DAG, DAC & Weld Curves:
Provides the ability to work within any specification. The operator can manually define the curve or have Quantum help (see photo).

Only 6.2 Lbs.:
The Quantum TE is extremely rugged in design, incorporating an all aluminum case, structure and bezels. This design is far more rugged than comparable units of similar design using plastic case structures.

Help Screens:
On screen context sensitive text help is available for any menu item.

User Definable +dB Key:
Unique to the Quantum Series Adjustable in 1 dB increments from 1 dB to available gain.

Power Sources:
This Quantum quite possibly is the most power efficient Quantum yet, running up to 30+ hours on a set of alkaline batteries and up to 20+ hours per charge on NiCad batteries. Compare that with the 4 to 7 hours offered by the competition.

Quantum TE Specifications

Display Mode: RF, +HW, -HW, FW
Graticule: Graphic and switchable
Receiver Frequency: 0.5 to 25 MHz broadband, Tuned - 0.5, 1.0 2.25, 5.0, and 10 MHz
Gain: 115 dB; 0.1, 1.0, 2.0, 6.0 dB selectable steps. Adj. reference gain. AGC
Pulser: 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 (1.25 mm - 5077 mm)
Delay: -0.15 - 150 inches (3807 mm) FS
Test Modes: Single, Dual & Angle
Sync: Initial Pulse (IP), Inter Face (IF), Delay
Flaw Mode: 2 gates, selectable Pos or Neg threshold. Visible and 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: RS-232 - Transfers instrument setups to/from PC
Power: NiCad battery pack, up to 20 hours per charge of 14 hours
Weight: 6.2 lbs. including integral battery
Transducer Inputs: Two BNC receptacles

Included Accessories

Shipped complete with (5) 'D' cell high capacity batteries, TEC1 battery charger, ML01 cable, QSET set-up and data transfer program and TE 232 PC interconnect cable, Operators Manual.

Optional Accessories

TE-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.
TEP1: Quantum TE carry pouch. Soft case pouch with shoulder strap.
QSP2: Battery Powered Serial Input Printer. Small lightweight inkjet printer, AC or battery powered, for full screen image or thickness printouts. Interconnect Cable QPC1 is included. Specify 110 or 220 Volt.
QPC1: Printer/Computer Cable. Interconnecting cable, 6-feet long from the Quantum RS-232 output to the QSP2 printer (DB25M); including DB25F adapter for use with IBM PC.
QTEBE: Battery Charger/Eliminator Provides direct AC operation of the Quantum TE without the need for a battery. Adapter plugs into the AC line and into the Quantum TE rear panel.

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