ISO 9001

ULTRASONIC FLAW DETECTOR TUD310

Features:

- Two measuring unit: mm/inch
- Four Rectify Ways: positive half-wave, negative half-wave, full wave and radio frequency
- Two scanning mode: A and B
- Gate alarming function
- 32 detecting channels are available with separated detecting parameters and DAC curve in every channel
- Automatic generation of DAC curve, and 30 points can be recorded at most, adjustable offset curves and gain correction functions are available
- Three detecting modes: single-probe , dual-probe and transmission
- Equipped with high-speed USB port and flash memory device can be used directly on the instrument
- Data and documents are managed under FAT file system, making the management of inspection data more convenient, faster and more reliant
- Super large memory up to 32M, 1000 echo data can be stored in 32 detecting channels
- Brand new digital signal circuit is designed for TUD310, Digital signal processor (DSP) is used for signals analyzing, making circuit noise reduced properly and waveform more stable
- EPSON ink-jet printer can be connected with TUD310 by USB cable
- Real-time waveform display and review

Technical Specification

Scanning rrange	2.5 mm ~9999 mm
Scanning resolution	0.1mm (2.5mm~100mm) 1mm (100 mm~5000mm)
Gain range	0dB ~110 dB
D-Delay	-20μs~+3400μs
P-Delay	0μs~99.99μs, resolution 0.01μs
Sound speed	1000 m/s~9999m/s
Bandwidth	0.2MHz~15MHz (Low0.2~1 Mid.0.5~4 High 3~15)
Vertical linearity error	≤3%
Horizontal linearity error	≤0.2%
Dynamic range	≥32dB
Rectification	Positive half wave, negative wave, full wave, and RF
Sensitivity leavings	≥60dB
Test mode	Pulse-echo, dual and through transmission
Pulser	Spike excitation pulser
Damping	50ohms, 150ohms and 400ohms
Reject	Linear, 0-80% of full screen, variable in steps of 1%
Unit	mm/inch
Interface	RS232 / USB
Printer	EPSON ink-jet printers
AC requirements	85-264V AC/1.0A,47-63Hz
Temperature	-10℃~40℃
Humidity	20%~90%RH
Charging time	4~5 hours
Power supply	Li battery 4×3.6V 4000mAh
Overall dimension	243×173×70mm
Weight	1.47kg

Standard Delivery

Main unit	1
Power adaptor	1
Neck strap	1
Cable for probe	2
Carrying case	1
Straight probe	1
Angle probe	1
Couplant	1
Flash disk	1
TIME certificate	1
Warranty card	1
Instruction manual	1

Optional Accessory

- Dataview software for TUD310
- Various probes (see page 48)
- EPSON ink-jet printer

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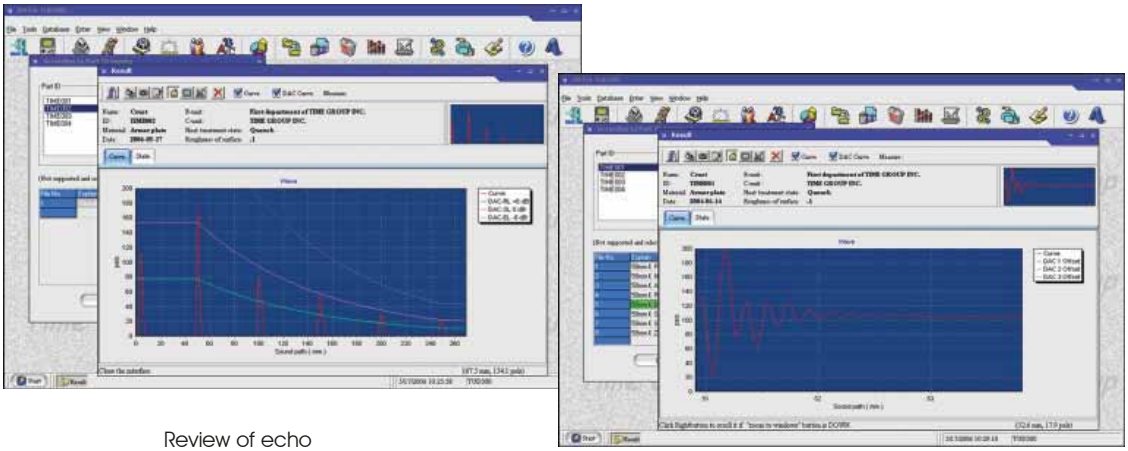
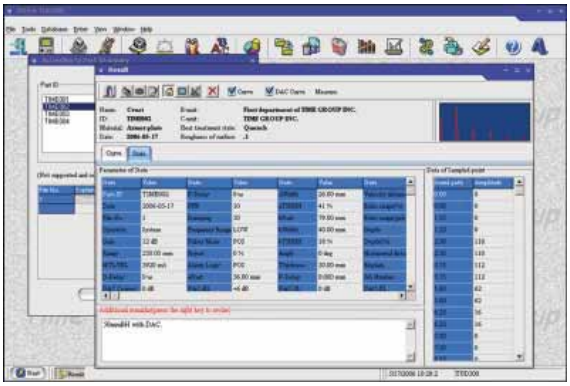
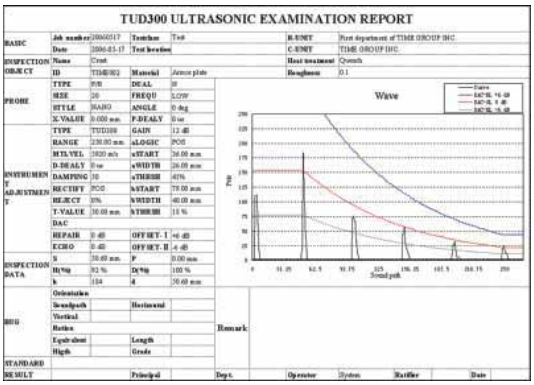
- Editing and management of saved data and echoes
- Edit and print of examination report as users' demand
- Dataview for TUD310 and TUD360 is equipped with real-time display of detecting waves on the computer screen



Review of echo



Scroll and review data for examination



Edit and print of Examination Report

TIME supplies various kinds of ultrasonic probes as customer's requirements