

Features

- •Four ways to present waveform: positive half-wave, negative half- wave, full wave and radio frequency.
- Automatic gain adjustment, defect equivalent calculation and peak memory function
- •Two high resolution scanning mode: A and B
- Display of echo envelope
- •Two individual gates setting and alarming function.
- •32 detecting channels are available with separate detecting parameters and DAC (Distance Amplitude Correction) curves in every channel.
- Automatic formation of DAC curves, and 30 points 'data can be recorded infinitely, adjustable offset curves and gain correction functions are available.
- •Three detecting modes(single-probe, dual crystal probe and transmission) with automatic calibration function
- Connected to PC via USB interface with advanced software for data analysis and management.
- Data and documents are managed with file allocation table (FAT)system, making the management of inspection data more convenient, reliant and faster
- •Super large memory up to 32M, 1000 echo data can be stored.
- •EL Highlight matrix display (no drift with angle, temperature or sunlight)
- •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 printers can be connected with TUD
- •Real-time waveform display and review

TUD310

ULTRASONIC FLAW DETECTOR

Standard Delivery

Main unit 1
Power adaptor 1
Neck strap 1
Cable for probe 2

•Straight probe(2.5MHz,Ø20) 1

Angle probe(5MHz,8×9K2) 1Couplant 1

Flash diskScrew driver

TIME certificate

Warranty card

•Instruction manual

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Optional Accessory

Connecting cable

Software for TUD310

Various probes

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•EPSON ink-jet printer

Technical Specification

Items	Description
Scanning range	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 High3~15)
Vertical linearity accuracy	≤3%
Horizontal linearity accuracy	≤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	Metric/inch
Interface	RS232 / USB
Printer	EPSON ink-jet printers
AC requirements	85-264V AC/1.0A,47-63Hz
Temperature	-10°C~40°C
Humidity	20%~90%RH
Power supply	Li battery4×3.6V 4000mAh
Charging time	4~5hours
Dimension (mm)	243×173×70
Weight (g)	1470