

# ULTRASONIC FLAW DETECTOR TUD320



## Product Information

**Product** • Color TFT display screen with backlight

**info:** • Reference waves with different colors can be displayed at the same time

- Curved surface correction: inspection of inner and outer curved surface, auto-correcting the detecting result according to diameter of curved surface
- DGS (AVG) curve: special key is designed for 2 types of DGS curves: flat-bottom hole and infinite plane.
- Real-time battery power indication, displayed by percentage
- 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;
- Two scanning mode: A and B;
- Two measuring unit: mm/inch;
- Four Rectify Ways: positive half-wave, negative half-wave, full wave and radio frequency.
- Gate alarming function.
- 10 detecting channels are available with a separate detecting parameter and DAC curve in every channel.

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## Technical specifications

Items	Description
Scanning Range	2.5 mm ~5000 mm
Scanning Resolution	0.1mm (2.5mm ~100mm) 1mm (100 mm ~5000mm)
Gain Range	0dB ~110 dB
D-Delay	-20 $\mu$ s~+3400 $\mu$ s
P-Delay	0 $\mu$ s~99.99 $\mu$ s.resolution 0.01 $\mu$ s
Sound speed	1000 m/s~9999m/s
Bandwidth	0.2MHz~15MHz(Low0.2~1, Mid.0.5~4, High 3~15)
Vertical linearity error	$\leq$ 3%
Horizontal linearity error	$\leq$ 0.2%
Dynamic range	$\geq$ 32dB
Rectification	Positive half wave, negative wave, full wave, and RF
Sensitivity leavings	$\geq$ 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
Printer	TP UP-NH-S line thermal printer
AC requirements	85-264V AC/1.0A,47-63Hz
Temperature	-10 $^{\circ}$ C ~40 $^{\circ}$ C

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Humidity	20%~90%RH
Power supply	Li battery 4x3.6V 4000mAh
Charging time	4~5hours
Weight	1.47kg
Overall dimension	243mmx173 mmx70 mm

## Standard delivery

- Main unit 1
- Power adaptor 1
- Neck strap 1
- Cable for probe 2
- Carrying case 1
- Instruction manual 1
- Straight probe 1
- Angle probe 1
- Couplant 1

## Optional accessories

- Connecting Cable
- Dataview for communication with PC
- TP UP-NH-S line thermal printer
- Various probes