



NDT expert

Solid (Beijing) Technology Co., Ltd.



Ultrasonic Flaw Detector

UFD-X5



X Series : High Performance

UFD X series Ultrasonic Flaw Detector could meet a variety of demands with superior features, which include portable, flexible, rapid and accurate.

High cost effective makes X series be the best choice for developing companies.

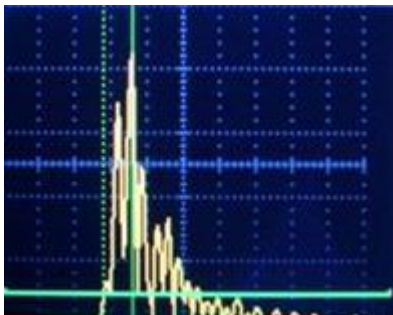


FEATURES:

- One Function Key, Easily Operation
- Ideal Menu Style
- Auto Calibration : Velocity, Probe Delay, Angle/K Value

FUNCTION:

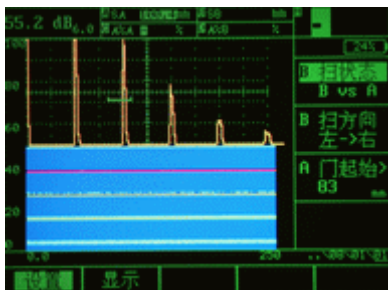
- **USB for storage Plug and play**
Convenient to read thickness values
- **B Scan-Display Flaw Directly**
Reducing analysis difficulty, missing detector
- **Massive Data Memory**
200,000 values/5 min video
- **Electronic Choice : Flaw detector and High Accurate Thickness Measured**
- **5 Intelligent DAC curves, comply to JIS and API standard**



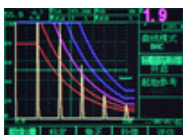
Feature Indicator



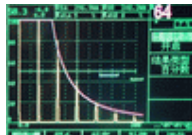
Value Display Area



Two Dimension Color Code B Scan



DAC Curve



DGS Curve

OPERATION

- **High Accuracy: 10 places for AD samples**
- **Extra-long Standby Time:**
20 hours, getting rid of trouble from battery
- **Display screen could be adjusted to provide 5 optimum**

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- Magnalium alloy coated, AP65 encapsulation, strong and durable , avoiding electro-magnetic interference

SPECIFICATIONS
Measuring Range 1. 0~12000mm
Resolution 0.01mm (<100mm) 1mm (>100mm)
Velocity 500~20000m/s 20fixed velocities
Delay -20~3400us /resolution : 0.1us
Probe Delay 0~99us /resolution: 0.01us
Auto Calibration Velocity Calibration &Probe Delay Calibration
Linear Error Horizontal error≤0.1% Vertical error≤3%
Dynamic Range ≥36dB
Sensitivity ≥64dB 200mmΦ2 flat-bottomed hole
Dimension (mm) 240×180×50mm
Weight 1.9Kg (including battery pack)
Working Environment Temperature: -20℃~70℃ Humidity: 5%~90%
Pulse
Dive Pulse Negative spikes,high energy/low adjustable
Launch Repetition Frequency PFR transmit pulse continuously adjustable
Matched Damp 50/150/400 Ω
Receiver

Measuring mode
Peak/Verge
Bandwidth
0.3~1/0.5~4/2~15MHZ
Detector Pattern
0~110dB 0/0.1/0.2/0.5/1/2/6/12/
Detector Pattern
RF/Full-Wave/Positive/Negative half-wave
Display
LCD
TFT Color Display .5 options for variable brightness
GUI Theme
Simple/Classical/Gray/Bright
Screen Update Rate
≥60Hz
GUI Theme
imple / classical / gray / s trong / weak light 5, the user can through the set text, A,background color, sweep waveform coordinate free cust om theme
Gate / measuring value / alarm
Sluice gate
Two Separated Gate A/B
Measured value display
5 measured value display area, where a main display area, Selectable measurement value content SA/SB/DA/DB/PA/PB/A%A/A%B/dBtA/dBt B/dBrA/dBrB/SBA/DBA/PBA/LA/LB
Alarm
Independent logic gate alarm, alarm threshold thickness measurement
Storage
Channel Parameters 20
A Scan 2000
Thickness values 200,00 data setd, liner

Wave video	5 min
Reference wave	4
Input / Output	
Probe connector	LEMO or BNC
Communications	RS232
Regional	
Clock	Real-time display date and time
Language	English & Chinese
Unit	mm/inch
Battery	
Battery	High-energy lithium batteries, has excellent overcharge and over-discharge protection
Battery Monitoring	Coulomb energy measurement based on battery monitoring, the percentage / time display the remaining battery life
Working Hours	Can work continuously for more than 10 hours
Battery Adapter	Input : 100~240V/50~60Hz Output : 9VDC/4A
High ranking	
U disk storage	Storage screenshots / waveform / thickness three data report
Gate broadening	Gate area of concern for the details of observation and analysis
B-scan two-dimensional coding	Thickness / contour scanning; grayscale / color palette settings
Curve freeze	YES
Characteristic indicator	Sound path measurement wavefront and amplitude measurement position



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indicator
CSC Surface Correction According probe angle, diameter of the workpiece thickness and curvature correction for the measured values
Lock Each menu can be locked independently to avoid system-related parameter adjustment; data set can also be locked to avoid accidental deletion of data
Screen Saver Standby / Text / off
Equivalent curve
DAC curve Can record 30 calibration points; Automatic Gain; any order calibration; calibration / edit two modified methods; consider the material attenuation and surface compensation factor; five adjustable

gain curve to assess compliance with JIS and API Standards		
DGS curve For large flat-bottomed, flat-bottomed hole vias three reference types, consider a reference attenuation, attenuation and surface material compensation factors, defect assessment methods: equivalent size / equivalent gain / percentage		
Standard		
Main engine		1
Straight / angle probe		1
Probe line		1
Chargers		1
Battery		1
Optional	Instructions	1
	Box	1
	Coupling	1
	agent	
Interface Gate		

Intermediate medium for flooding situation testing
Printer TP serial printer, you can print directly screenshots / waveform / thickness of the three data report
Large capacity battery Can work continuously for more than 20 hours
Communications USB