

Ultrasonic Flaw Detector

UFD50

UFD 50



Key Features

- 3 Automated gain and gain scan;
- 3 Peak Hold and Peak Memory;
- 3 DAC, AVG, B scan, AWS
- 3 TCG curve
- 3 High-speed capture and very low noise
- 3 Automated make video of test process and play. Use USB flash disk, the length of video is unlimited.
- 3 High contrast viewing of the waveform from bright, direct sunlight to complete darkness and easy to read from all angles
- 3 Automated display precise flaw location (Depth d, level p, distance s, amplitude, sz dB, Ø);
- 3 Automated switch three staff gauge (Depth d, level p, distance s);
- 3 Automated calibration of transducer Zero-point, Angles, Front edge and material Velocity ;
- 3 Convenient to make and use DAC/TCG and AVG to evaluate the echo, the curve can be modified and compensated
- 3 6dB DAC functions;
- 3 100 independence setup, any criterion can be input freely, we can work in the scene without test block;
- 3 Big memory of 1000 A graph
- 3 Big memory of 300 A graph and 30000 thickness values
- 3 Li battery, continue working time up to 10 hours;
- 3 The embedded software can be online updated;
- 3 Display freeze;
- 3 Automated echo degree;
- 3 Angles and K-value;
- 3 Lock and unlock function of system parameters;
- 3 Electronic clock calendar ;
- 3 Two gates setting and alarm indication;
- 3 Gate and DAC alarm;
- 3 Automated measurement of nodularity and vermicularity
- 3 RS232/USB port, Communication with PC is easy
- 3 Powerful pc software and reports can be export to excel
- 3 Pulse parameteres can be adjusted
- 3 Dormancy and screen savers
- 3 Solid metal housing (IP65)

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Standard package

Main unit	1
2.5MHz-Ø20 straight probe	1
4MHz 60° 8x9mm angle probe	1
Probe cable (Q9 to Q9)	1
Probe cable (Q9 to C5)	1
4A/9V power adapter	1
Data managing software	1
Interface cable	1
Test certificate	1
Operation manual	1
Carrying case	1

Optional accessories

Standard block V-1 (IIW1)
Standard block V-2 (IIW2)
Probe cable Q9-Q9
Probe cable Q9-C5
Probe cable C9-Q9
Probe cable C9-C5
Lithium ion battery

Optional probes

- 5MHz, 6x6mm, 45°
- 5MHz, 6x6mm, 60°
- 5MHz, 6x6mm, 70°
- 2MHz, 8X9mm, 45°
- 2MHz, 8X9mm, 60°
- 2MHz, 8X9mm, 70°
- 4MHz, 8X9mm, 45°
- 4MHz, 8X9mm, 60°
- 4MHz, 8X9mm, 70°
- 2MHz, 14X16mm, 45°
- 2MHz, 14X16mm, 60°
- 2MHz, 14X16mm, 70°
- 4MHz, 14X16mm, 45°
- 4MHz, 14X16mm, 60°
- 4MHz, 14X16mm, 70°
- 2MHz, 20X22mm, 45°
- 2MHz, 20X22mm, 60°
- 2MHz, 20X22mm, 70°
- 4MHz, 20X22mm, 45°
- 4MHz, 20X22mm, 60°
- 4MHz, 20X22mm, 70°
- 2MHz, 12mm, 0°
- 4MHz, 12 mm, 0°
- 2MHz, 20mm, 0°
- 4MHz, 20 mm, 0°
- 0.5MHz, 24mm, 0°
- 1MHz, 24 mm, 0°
- 2MHz, 24mm, 0°
- 4MHz, 24 mm, 0°
- 2MHz, 12 mm, 0° DUAL
- 4MHz, 12 mm, 0° DUAL
- 2MHz, 20 mm, 0° DUAL
- 4MHz, 20 mm, 0° DUAL
- 2MHz, 24 mm, 0° DUAL
- 4MHz, 24 mm, 0° DUAL
- 4MHz, 3x10mm, 45°, FD=10mm
- 4MHz, 3x10mm, 60°, FD=8mm
- 4MHz, 3x10mm, 70°, FD=6mm

Specifications

Model	SUD10	SUD50
Measuring range (mm)	0.5~10000	
Frequency range (MHz)	0.5~20	
Pulse shift (μs)	-20~+3400	
Vertical linearity error	≤2.5%	≤3%
Horizontal linearity error	≤0.1%	
Gain (dB)	0~120	
Zero (μs)	0.0~99.99	
Material velocity	1000~15000 m/s	
SENSITIVITY margin	≥60dB	≥62dB
Dynamic scope	≥32dB	≥34dB
Measurement mode	single, dual, THRU	
Reject	0~80%	
Port type	BNC(Q9)	
Memory	300	1000
Independence setup	100	
sz, dB, ∅	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
Peak hold and Peak memory	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
B scan	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
DAC	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
AVG	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
TCG	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
Predefined standards (13)	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
Automated calibration (IIW)	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
6dB DAC	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
Make VIDEO	5 min	Unlimited
PC software	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
Online update	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
Curved surface correction	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
AWS	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
Pulse energy	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
Pulse width	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
Gate alarm	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
DAC alarm	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
Continue working time	10h	12h
Display	LED True Color	
Support	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
Wrist strap	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
Operating temperature	-20~55°C	
Dimension	240mm×180mm×50mm	238mm×160mm×48mm
Net weight	1.8kg	1.0kg
Standards	JB/T 10061-1999, JJG 746-2004	