

Digital Ultrasonic Flaw Detector SUFD-600T

Specifications:

- Measuring Range (mm): 0 ~ 15M / 0-20M
- Channels: 500
- Frequency Range (MHz) 0.2~20MHz
- Material Velocity (m/s): 1000 ~ 15000m/s
- Vertical Linearity Error: $\leq 2.5\%$
- Horizontal Linearity Error: $\leq 0.1\%$
- Sensitivity Leavings: $\geq 65\text{dB}$
- Dynamic range: $\geq 36\text{dB}$
- Resolving Power: $\geq 40\text{dB}$
- Gain (dB): 0 ~ 120dB
- Measurement Mode: Single Dual Thru
- Reject: 0~80%
- Pulse Displacement (μs): -20 ~ +3400
- Zero (μs): 0.0 ~ 99.99
- Port Type: BNC(Q9) or Lemo 01(C9)
- Operating Temperature ($^{\circ}\text{C}$): -20~70
- H*W*D(mm): 240*156*48
- Weight (kg): 1.0 with battery



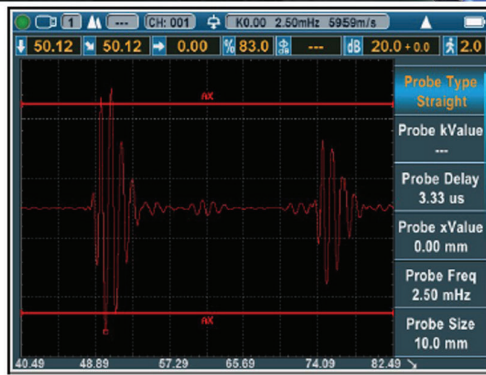
Standard Accessories:

- | | | |
|-----|-------------------------|----------|
| No. | Item | Quantity |
| 1 | Main Body | 1 |
| 2 | Straight Beam Probe | 1 |
| 3 | Angle Probe | 1 |
| 4 | Machine-probe Cable | 1 |
| 5 | Power Adapter (Charger) | 1 |
| 6 | USB communication Cable | 1 |
| 7 | Manual | 1 |
| 8 | Instrument Case | 1 |
| 9 | Guarantee Card | 1 |
| 10 | Packing List | 1 |



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SPECIFICATION STANDARD,ADVANCED

Feature	SUFD-600T (Standard)	SUFD-600T (Advanced)
Range	0 to 15m (steel velocity), transmit 30m	0 to 20m (steel velocity), transmit 40m
Velocity	100 ~ 15000 m/s	100 ~ 20000 m/s
Protection Level	IP65	IP67
Advanced Functions	/	Weld diagram, probe frequency detection
Pulse Repetition	20 ~ 2000 Hz	20 ~ 2000 Hz
Bandwidth	0.2 ~ 20 MHz	0.2 ~ 20 MHz
Dynamic Range	≥36 dB	≥36 dB
Vertical Linearity	≤2.5%	≤2.5%
Horizontal Linearity	≤0.2%	≤0.2%
Resolving Power	>40 dB (5P14 in steel)	>40 dB (5P14 in steel)
Sensitivity Leavings	>65 dB (2.5MHz, Φ20mm for Deep 200mm, Φ2 flat-bottomed hole, wave H50%)	>65 dB
Noise	≤10%	≤10%
Channel Files	500 files for calibration and probe setup	500 files for calibration and probe setup
Report Files	1000 PDF reports	1000 PDF reports
Display	IPS 60Hz, 640×480 resolution	IPS 60Hz, 640×480 resolution
Reject (Suppression)	0 ~ 80% of full screen height	0 ~ 80% of full screen height
Probe Type	Straight, angle, dual, penetrating	Straight, angle, dual, penetrating
Gate Monitors	Two independent gates	Two independent gates
Trigger	Peak trigger, Edge trigger	Peak trigger, Edge trigger
Alarms	Threshold positive/negative with LED Flash	Threshold positive/negative with LED Flash
Power Supply	AC 100-240V, 50-60 Hz	AC 100-240V, 50-60 Hz
Battery	Lithium-ion 9V, >12 hours	Lithium-ion 9V, >12 hours
Auxiliary Functions	Screen capture, video recording, B-scan, DAC, AVG, AWS data analysis	Screen capture, video recording, B-scan, DAC, AVG, AWS data analysis
Video Recorder	10 files (max 5 min each), 30 FPS, stored in U-disk	10 files (max 5 min each), 30 FPS, stored in U-disk
Dimensions (mm)	230 × 157 × 52	230 × 157 × 52
Weight (kg)	1.12	1.12
Operating Temperature	-10 ~ 50°C	-10 ~ 50°C
Relative Humidity	20 ~ 95% RH	20 ~ 95% RH
Pulse Energy	100V ~ 500V (selectable)	100V ~ 500V (selectable)
Pulse Width	0.1 ~ 0.5 μs	0.1 ~ 0.5 μs
Probe Damping	50Ω, 150Ω, 300Ω, 400Ω	50Ω, 150Ω, 300Ω, 400Ω
Scan Speed	16-digit AD Converter, 320 MHz	16-digit AD Converter, 320 MHz
Rectification	Positive/Negative Half-wave, Full-wave, RF	Positive/Negative Half-wave, Full-wave, RF
Bandwidth	0.1 ~ 20 MHz (Amplifier Bandpass & Narrow Bandpass)	0.1 ~ 20 MHz (Amplifier Bandpass & Narrow Bandpass)
Gain	110 dB (0.1 dB, 1 dB, 2 dB, 6 dB)	110 dB (0.1 dB, 1 dB, 2 dB, 6 dB)
Communication Ports	USB / RS232	USB / RS232
Probe Interface	BNC / LEMO	BNC / LEMO



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