

HST-650 Ultrasonic Flaw Detector



Features:

1. 10 independent flaw detection channels, which can freely set and store various flaw detection processes and standards, and can store 100 flaw detection waveform signals and data
2. real time dynamic color recording with recording time up to 50 minutes
3. There are two scanning modes: A-scan and b-thickness scan
4. Square wave pulse generator: adjustable pulse width, suitable for detecting the defects of different materials and different depth workpieces;
5. DAC curve making

- 6.5.7-inch TFT color display, users can set the screen color according to the environment
7. Compatible with single crystal straight, single crystal oblique, double crystal and transmission probes
8. Three detection modes: positive half wave, negative half wave and full wave
9. It has automatic calibration function of straight probe and angle probe, which is easy to use;
10. functions such as defect peak memory to assist in qualitative judgment of defects
11. audible and visual alarm and low power alarm can be set for gate, curve wave in, wave loss and other conditions
12. main menu and submenu are displayed in the same window. Clear at a glance, easy to operate, easy to find
13. The main functions are fast access through the shortcut key, and the shuttle wheel is convenient to adjust the settings quickly
14. multiple industry reports available
15. Data can be imported into the computer through USB2.0 Interface
16. Large capacity lithium battery can guarantee a endurance of more than 20 hours and can be replaced at any time
17. The standby battery can be charged separately, and the battery can be charged when the host is working
18. It can be operated by a single wrist strap handset or by hanging it on the chest
19. Protection grade IP53, can be used in dripping environment or light rain

Technical parameters:

Detection range	0-9999mm
Working frequency	0.2mhz ~ 15MHz
Sound speed range	1000m / S ~ 9999m / S
Gain range	0dB ~ 110dB
Sampling frequency	100MHz
Display delay	- 20 μ s to + 3400 μ s
Probe bias	0 μ s ~ 99.99 μ s
Electric noise level	$\leq$ 10%
Sensitivity margin	$>$ 62db
Resolution	$>$ 40dB (5p14)

Linear inhibition	0-80% (Digital inhibition)
Vertical linear error	$\leq 3\%$
Horizontal linear error	$\leq 0.1\%$
Dynamic range	$\geq 32\text{dB}$
Battery	6 × 3.7V (lithium battery)
Power supply	8.4v
Ambient temperature	- 20 °C ~ 50 °C
Ambient humidity	20% - 90% RH
Size	23cm × 17cm × 5.5cm
Weight	1.56kg (including leather cover)

Standard configuration:

Item	QTY
Host	1 PC
Straight Probe	1 PC
Angle Probe	1 PC
Probe Connecting Cable	2 PCs
Power Adaptor & Cable	1 PC
USB CD With PC Software	1 PC
Protective jacket	1 PC
Communication Cable	1 PC
Calibration Certificate	1 PC
User Manual	1 PC
Instrument Case	1 PC

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