ULTRASONIC FLAW DETECTOR
CODE:iFlaw-1500

- Provides semi-automatic two-point calibration and automatic calibration functions for sensor zero offset, angle, front-end, and material velocity;
- Equipped with defect location capabilities, which can display information such as sound path, projection (surface distance), depth, and amplitude in real-time;
- Capable of automatic defect sizing using AVG/AVG or DAC and generating reports;
- Can connect to mobile devices via Bluetooth to generate and print inspection reports on site;
- Features curved surface correction functionality;
- Equipped with video recording and playback capabilities, as well as automatic gain control;
- A-scan freeze function: allows freezing the displayed waveform and sound path data, B-scan display function, capture markers, and echo color display within the gating range;
- Includes a peak hold function that compares frozen peak waveforms with real-time A-scans for easy interpretation of test results;
- Features crack height measurement capability;
- Offers multiple storage functions, including storage for 500 sets of calibration settings and 1000 sets of test report files, with unlimited storage available via USB drive connection;
- The pulser has multiple adjustable parameters, including pulse energy, width, and repetition frequency, as well as various testing modes and probe types;
- Equipped with two independent gates for signal height or distance measurement, providing multiple measurement options;

Probe Connection Mode

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TECHNICAL SPECIFICATION

Filter Band	0.2~35 MHz
Total Gain Amount	120 dB (with 0.1dB, 1dB, 2dB, 6dB incremental values)
Hardware Real-time Sampling	High-resolution 10-bit AD converter, sampling rate 320MHz, waveform highly preserved
Detection Range	15meters(steel,longitudinal wave),transmission30meters(expandable)
Sound Velocity Range	(100~20000)m/s
Dynamic Range	≥38dB
Pulse Amplitude	100V, 200V, 300V, 400V, 500V, selectable in steps, suitable for a wide range of probes
Pulse Width	Continuously adjustable in the range of (0.03~0.51)μs to match different frequency probes
Probe Impedance	50Ω, 100Ω, 150Ω, 400Ω selectable, to meet different sensitivity and resolution requirements
Probe Types	Straight probe, inclined probe, dual-crystal probe, penetration probe, crawling wave probe, surface wave probe
Repetition Rate	10-3000Hz adjustable
Receiving Waveform	Positive half-wave, negative half-wave, full wave, RF waveform
Gate	Incoming wave gate, lost wave gate; single gate, dual gate
Gate Reading	Single gate and dual gate reading modes available
Alarm	Buzzer alarm, LED light alarm
Connector	BNC/LEMO optional
Vertical Linear Error	≤1.5%
Horizontal Linear Error	≤0.1%
Digital Rejection	(0~80)%, no effect on linearity and gain
Resolution	>40dB (5P14)
Sensitivity Margin	>66dB (deep 200mm Φ2 flat-bottomed hole)
Power Requirements	AC Mains 100-240 VAC, 50-60 Hz
Temperature	Operating Temperature -10°C to 50°C Storage Temperature -30°C to 50°C
Size	260mm×175mm×60mm

STANDARD DELIVERY

Main unit	1 pc
High-precision straight probe	1 pc
High-Precision angle probe	1 pc
Probe connection wire	2 pcs
9V power adapter	1 pc
User manual	1 copy
Certificate	1 copy
Warranty card	1 copy
Ultrasonic flaw detector mobile APP	1 pc
Instrument strap	1 pc

High-precision straight probe

OPTIONAL DELIVERY

Standard test blocks	
Other types of probes	
Other probe cables	
Coupling agents	
Bluetooth printer	

High-Precision angle probe

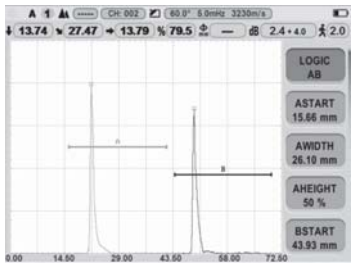
Probe connection wire

9V power adapter

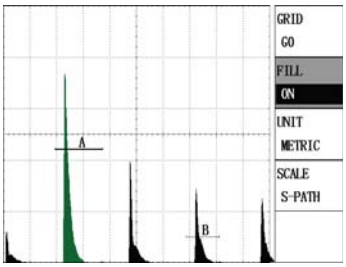
Coupling agents

Display Mode

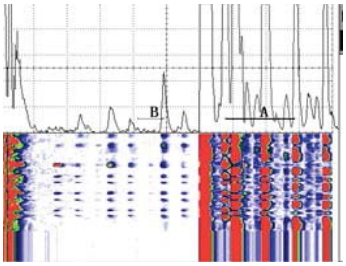
Calibration Interface



Gate Setting



Fill Mode



B-Scan Image