

**Product Name :**  
Portable Ultrasonic Flaw Detector

**Product Code :**  
CHINAELABC5240001



#### Description :

Portable Ultrasonic Flaw Detector

#### Technical Specification :

Portable ultrasonic flaw detector has the measuring range of 0-6000mm which can meet the defect detection needs of manufacturer and steel requirements of metallurgical industry, metal processing industry, and chemical industry.

The low-power consumption design and large-capacity lithium battery guarantee that the ultrasonic flaw detector can be used for a few months.

##### Technical Parameters

Measuring range: 0~9999mm at steel velocity

Bandwidth: 0.2 to 15MHz (automatic matching according to the probe frequency)

Material velocity: 1000-15000m/s

Dynamic range: ?36dB

Vertical linear error: ?2.0%

Horizontal linear error: ?0.1%

Resolution: >40dB (5P14)

Sensitivity leavings: 62dB (deep flat-bottom hole 200mm ?2)

Rejection: 0~80% linear without affecting the linearity and gain

Noise level: ?8%

Probe type: straight beam probe, angle beam probe, dual element probe, through-transmit probe

Gates: wave-getting gate, wave-losing gate, single gate reading, dual gate reading

Alarm: beep alarm and LED light alarm

Power supply: DC 9V

Working time: ?10 hours

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Overall dimension: 263×170×61mm

Operating temperature: -10?~50?

Relative humidity: 20~95%

Pulse energy: 200V, 300V, 400V, 500V selectable (suitable for various probes)

Pulse width: 30~510ns with continuous adjustments to different frequency probes

Probe damping: 200?, 500? selectable for meeting different requirements of resolution and sensitivity

Sampling: 10 digits AD converter at the sampling speed of 400MHz, waveform of highly fidelity

Rectification: positive half wave, negative half wave, full wave, RF

Gate reading: optional for single gate and double gate reading mode; peak readings within the gate

Gain: 0~110dB adjustable in selectable steps of 0.1 dB, 1 dB, 2dB and 6dB

Probe connections: BNC or LEMO

Note: all above indicators are got with 2.5 MHz probe and full wave detecting method.



**Engineering Lab China**