

ZHONGKE HS150 Digital Ultrasonic Flaw Detector



Features:

- Hand held structure, beautiful designed, firm, good sealing performance, with strong anti-interference ability.
- TFT color display, with 100% display linearity, and is not influenced by environmental interference.
- High quality circuit system, stable and reliable performance.
- High-precision positioning, positioning, to solve the long distance positioning error.
- Real-time detection, positive and negative detection wave and RF wave display.
- Excellent wide band amplifier, and automatic calibration. With good near field resolution ability.
- Simple, strong operating function, English prompt, dialogue operation, practical and easy to learn.
- Detection range stepless regulation function.

- Gate location alarm, double gate failure wave alarm function, suitable for the completion of different types of testing tasks.
- Dynamic defect envelope description.
- Amplitude curve is automatically drawn according to standard. And can move up and down freely.
- Automatic calibration of the zero point of the probe and the K value of the angle probe (refractive index) testing.
- Flexible clutter suppression control function. Does not affect the gain, linear.
- Automatic fast sensitivity adjustment function. Improve the detection speed.
- Automatic wave crest tracking search function. Improve detection accuracy.
- With the function of describing the nature of the defect peak point trajectory envelope.
- The near field zone is small, can sheet and pipe inspection.
- RS232C interface, the communication function and printing function of the test data transmitted with the computer. Realization of computer management of ultrasonic flaw detector.
- Preset 10 groups of testing parameters.
- Can store 300 flaw echo, curve and data.

Main Technical Parameters:

Working mode: single detector, twin flaw detection

Scanning range: Zero interface incident to 6000mm steel longitudinal wave

Sampling frequency / Number: 150MHz/8bits

Detection mode: full detection, positive and negative detection, radio wave display

Operating frequency: 0.5MHz ~ 20MHz (bandwidth optional: 0.5-4MHz, 2-8MHz, 0.5MHz-20MHz)

Equivalent input noise of each frequency band: < 15%

Attenuator precision: < + 1dB/12dB

Gain adjustment: 110dB (0.1dB, 2dB, 6dB step, fully automatic regulation)

Sound speed range: (100 ~ 20000) m/s

Dynamic range: 30dB

Vertical linear error: less than 3%

Horizontal linear error: less than 0.1%

Resolution: > 40dB (5N14)

Sensitivity: > 60dB (deep 200mm Phi 2 flat bottom holes)

Digital suppression: (0 ~ 80)%, does not affect the linearity and gain

Power supply, voltage: DC (DC) 7.2V + 10%; AC (AC) 220V + 10%

Working time: 5 hours of continuous work (lithium battery power supply)

Ambient temperature: (-10 ~ 40) C (reference value)

Relative humidity: (20 ~ 95)% RH

Exterior dimension: 200 x 138 x 60 (mm)

Standard configuration of HS150 instrument:

1. Host	1 SET
2. Line probe (Q9-Q9)	2 PIECES
3 Power charger	1 PIECE
4. Lithium battery	1 PIECE
5. Battery charging connection cable	1 PIECE
6.Portable communication driver	1 SET
7.Software operation with a communication line	1 SET
8. Instruments a suitcase	1 PIECE
9.Manual, certificate, warranty card each one	

Zhongke Innovation Technology Co., Ltd.

is a professional manufacturer of NDT equipment with independent intellectual property rights. Zhongke has been working on R&D of Ultrasonic technology for over 30 years. Now Zhongke has different series of NDT products, such as Phased Array Detector, TOFD Detector, Conventional Ultrasonic Flaw Detector, EMAT Detector and Online Automatic Inspection Systems for Pipe, Tube, Plate, Bars, Vessel, Automobile Parts and etc. Zhongke also has committed to provide the customers with various kinds of all-round, efficient, steady, reliable ultrasonic solutions!