

ZHONGKE HS610e Digital Ultrasonic Flaw Detector



Features:

A. General

High light TFT screen; background color and brightness can be set according to environment; clear display under high-light or low-light environment.

Digital knob realize one-bottom operation

High performance lion-battery for longtime work

B. Pulse

Amplitude: selectable within 200V, 300V, 400V, suitable for wide range of probe

Duration: 100ns~300ns adjustable with step of 2ns, to match different frequency probe

Damp match: 51Ω,150Ω,200Ω,400Ω, meet requirements of different sensitivity and resolution

Probe mode: dual or single transducer

C. Testing range

0~14000mm

D. Signal condition

High speed sampling: 150MHz sampling rate

Rectify mode: dual, plus, minus and RF wave display

Gates: single gate, dual gates, hold peak within full screen waveform or hold peak within gate

Gain: Setting by step 0.1dB, 1dB, 2dB or 6dB; Gain can be automatically set according to echo amplitude

E. Alarm

Sound and light alarm according to the amplitude compared with DAC in gate

F. Data saving

50 sets of testing parameters can be calibrated and preset. User can preset the testing parameters according to the testing standards for various industries; and the testing parameters can be saved, recalled, edited, printed and sent to PC easily.

1000 sets of testing waveform and data can be saved, recalled, printed, and sent to PC easily.

G. Other function

Hold the peak and peak time

Calculate the equivalent diameter of defects

Record and replay the dynamic testing waveform

Locating defect with surface distance, depth, and sound path

Sizing the defect with SL value

Correcting the error caused by covered face

H. Real time recording

Record the real time and date of testing

I. Interface

-High speed USB 2.0

-RS232

J. Auto protect the screen

Specifications:

Amplitude	Selectable within 200V, 300V, 400V
Duration	100ns~300ns adjustable with step of 2ns
Damp match	51Ω,150Ω,200Ω,400Ω
Probe mode	dual or single transducer
Testing range	0~14000mm
Sampling	150MHz sampling rate / 8bits
Rectify mode	dual, plus, minus, and RF wave display
Frequency range	0.5-4MHz、2-8MHz、10MHz、2MHz-20MHz
Gain	Setting by step 0.1dB, 1dB, 2dB or 6dB
Sound speed	100m/s~20000m/s
Dynamic range	≥30dB
Vertical linear error	≤3%
Horizontal linear error	≤0.1%
Horizontal resolution	>40dB
Surplus sensitivity	>62dB
Rejection	0%~80%
Noise	≤10%
Power voltage	220VAC or 7.2VDC
Battery work time	5 hours
Temperature	-10~40°C
Humidity	20%~95%



Size	215×165×45(mm)
Weight	1.4Kg

HS610e standard configuration:

1. One host (includes one lithium battery)
2. Two probe lines (Q9-Q9)
3. One power charger
4. A lithium battery
5. A battery charging cable
6. Portable work with a set of
7. Communication lines, communication driver software
8. The instrument carrying a box
9. A copy of the instruction manual, certificate, warranty card

Zhongke Innovation Technology Co., Ltd.

is a professional manufacturer of NDT equipments 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!