

Ultrasonic Flaw Detector UFD-PAD

UFD-Pad:High Performance

We pursue the degree of portability in industrial flaw detection and make it simple. The team works hard day and night to develop new flat-panel flaw detector to make flaw detection more simple and convenient and meet the increasingly updated needs of modern flaw detection.





Features:

- dust-proof, water-proof and shock-proof, industrial-grade three-proof, suitable for harsh site
 environment
- intelligent flat panel ultrasonic flaw detector ufd-pad
- square wave pulse excitation, optimized electro-acoustic matching is more suitable for ultra-thick /ultra-thin workpiece detection
- @ ultra-thin intelligent tablet host wiht high sensitivity and touch high-definition screen
- @ wi-fi wireless Internet of things property, power cloud detection
- o integrated XY position encoder, B/C scan detection system application(optional)
- a variety of scanners can be widely used in pipes, plates, welding seams, etc.(optional)
- Integrated, portable, suitable for steel structure field testing.
- Large screen display, intuitive and clear data,
- Suitable for connecting various scanning devices (it can test the inner wall of pipes, etc.)



Application field

 Pressure vessels, petrochemical, aerospace, welding, railways, steel mills, nuclear industry, aircraft manufacturers, automobile production



General descriptions

- Square Wave Excitation and Narrow Band Filtering
- B/C, 5 DAC curves, in accordance with JIS, APS standards
- Practical DGS



Parameter

Win10 system Support WIFI Support gravity sensing The USB interface The Mini HDMI CPU using 1.92 GHz 12 nuclear Intel Cherry Trail Z8350 processor

SPECIFICATIONS

Measuring Range 1.0~1000mm Resolution 0.01mm(<100mm) 1mm(>100mm) Velocity 500~20000m/s 20fixed velocities Delay -10~1000mus /resolution: 0.1us Probe Delay 0~200us /resolution; 0.01us Auto Calibration Velocity Calibration & Probe Delay Calibration Linear Error Horizontal error≤0.1% Vertical error≤3% Dynamic Range ≥36dB Sensitivity ≥64dB 200mmф2 flat-bottomed hole Dimension (mm) 280×185×26.5 Weight Kg (including battery pack)

Pulse

Dive Pulse

Working Environment

Humidity: 5%~90%

Temperature: -10°C~50°C

Square wave pulse 50-200v,
Pulse width 25ns-15us
Maximum 20KHz repetition frequency
The pulse transmission repetition
frequency PRF is continuously adjustable

Receiver

To detect patterns
Pulse echo/transmit receive/transmit
Measurement peak/edge
Gain 0 ~80 db
Detection methods
Positive/negative half wave /RF/ full wave
The frequency bandwidth
0.1M-20M

Display

With 10 inches, IPS, 1920 x 1200 touch screen

Gate

Gate Two Separated Gate A/B
Measured value display
5 measured value display area,
SA/SB/DA/DB/PA/PB/A%A/A%B/dBtA/dBtB/dBrA/dBrB/SBA/DBA/PBA/LA/LB
Alarm
Independent logic gate alarm, alarm
hreshold thickness measurement

Storage

Hard disk space; 60G

Channel Parameters 20

A Scan 2000

Thickness values 200,00 data

Wave video

Reference wave 4

Input / Output

Probe connector C5

Regional

Clock Real-time display date/time Language English &Chinese Unit mm/inch

Battery

The battery
Lithium battery adopts 3.7v12000mah
battery for continuous operationDo 8 hours
Enter 100 ~ 240 v / 50 ~ 60 hz
Output 5 VDC / 2 a

High ranking

U disk storage Storage screen shots/waveform/thickness three data report Gate broadening Gate area of concern for the details of observation and analysis B-scan two-dimensional coding Thickness / contour scanning; grayscale / color palette settings Curve freeze YES Characteristic indicator Sound path measurement wave front and amplitude measurement position indicator CSC Surface Correction According probe angle, diameter of the work-piece thickness and curvature correction for the measured values data set can be locked to avoid accidental

Equivalent curve

Screen Saver Standby/Text/off

deletion of data

DAC curve

Can record 30 calibration points;

Automatic Gain; any order calibration;
calibration / edit two modified methods;
consider the material attenuation and
surface compensation factor; five
adjustable gain curve to assess
compliance with JIS and API Standards
DGS curve
large flat-bottomed, flat-bottomed hole,
through-hole

Standard

 Main engine
 1

 Straight / angle probe
 2

 Probe line
 2

 Chargers
 1

 Battery
 1

 The instructions
 1

 The packing cases
 1

 The coupling agent
 1

optional

160MHz sampling frequency