

OUAM-Pad

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.





Feature

Keywords: square wave, intelligence, three defense, flat panel, cloud detection, B/C scanning

- o Dustproof, waterproof and shockproof industrial grade three-proof, suitable for harsh environment
- Smart Flat Ultrasonic Flaw Detector QUAM-PAD
- Square wave pulse excitation, optimized electroacoustic matching is more suitable for ultra-thick/ultra-
- thin workpiece inspection
- Ultra-thin smart tablet host, high-sensitivity touch HD screen
- WI-FI wireless IoT properties to help cloud detection
- Integrated XY position encoder for B/C sweep detection system application (optional) A variety of scanners can be widely used in pipes, flats, welds, etc. (optional)



Application

- Nondestructive testing
- Scientific research
- Teaching demonstration



Description

- o UFD-pad is our new generation of ultrasonic flaw detectors that transmit and receive ultrasonic waves in
- o Its advanced technology makes it unique, and its products can be applied in more fields, such as medical ultrasound imaging, NDT, and also for research and university lectures.
- DAC curves are also available
- o 12-bit analog, digital converter with a sampling frequency of 80
- VGA gain range from 0 to 80 dB
- MHz is used to digitize ultrasonic signals.

PARAMETER

Win10 system

Support WIFI

Support gravity sensing

USB interface

Mini HDMI interface

CPU uses 1.92GHz, 12 core Intel Cherry

Trail Z8350 processor

SPECIFICATIONS

Measuring Range 1.0~12000mm

Resolution

0.01mm(<100mm) 1mm(>100mm) Velocity

500~20000m/s 20fixed velocities

-20~3400us /resolution: 0.1us

Probe Delay

0~99us /resolution: 0.01us Auto Calibration

Velocity Calibration & Probe Delay

Calibration

Linear Error

Horizontal error < 0.1%

Vertical error≤3%

Dynamic Range

Sensitivity

≥64dB 200mmφ2 flat-bottomed hole Dimension (mm) 240×180×50mm

1.9Kg (including battery pack)

Working Environment

Temperature: -20°C~70°C

Humidity: 5%~90%

Pulse

Dive Pulse

Negative spikes, high energy/low adjustable Launch Repetition Frequency

PFR transmit pulse continuously adjustable

Matched Damp

50/150/400Ω

Receiver

Measuring mode Peak/Verge Bandwidth 0.3~1/0.5~4/2~15MHZ

Detector Pattern

0~110dB 0/0.1/0.2/0.5/1/2/6/12/

Detector Pattern

RF/Full-Wave/Positive/Negative half-wave

LCD

TFT Color Display .5 options for variable brightness

GUI Theme

Simple/Classical/Gray/Bright

Screen Update Rate ≥60Hz

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

Independent logic gate alarm, alarm hreshold thickness measurement

Storage

Channel Parameters

A Scan 2000

Thickness values 200,00 data

Wave video 5 min Reference wave

Input / Output

Probe connector LEMO or BNC

Regional

Clock Real-time display date/time Language English & Chinese

Unit mm/inch

Battery

High-energy lithium batteries, has excellent overcharge and over-discharge protection

Battery Monitoring

Coulomb energy measurement based on battery monitoring, percentage / time display the remaining battery life

Working Hours Can work continuously for more than 10

Battery Adapter Input: 100~240V/50~60Hz

Output: 9VDC/4A

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 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

Lock data set can be locked to avoid accidental

deletion of data Screen Saver Standby/Text/off

Equivalent curve

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 Straight / angle probe Probe line Chargers

Interface Gate

Battery

Intermediate medium for flooding situation testing

Printer

TP serial printer, print directly screen shots/waveform/ thickness of the three data report

Large capacity battery More than 20 hours

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