



Intelligent Panel Ultrasonic Flaw Detector

UT-TOUCH



We pursue the portability of industrial flaw detection and simplify the complexity. The team has worked hard day and night to develop new flat-panel flaw detectors to make flaw detection simpler and more convenient, and meet the increasingly updated modern flaw detections.

Function:

- Dustproof, Waterproof and shockproof Industrial grade protection
- Suitable for harsh testing environment
- Intelligent flat panel ultrasonic flaw detector UFD-PAD
- Square wave pulse excitation, optimized electro-acoustic matching is more suitable for ultrathick/ultra-thin workpiece detection, ultra-thin smart panel host, high-sensitivity touch high definition screen.
- WI-FI wireless Internet of Things attributes to help cloud detection
- Integrated XY position encoder, can realize the application of B/C scanning detection system (optional)
- Integrated, portable, suitable for on-site inspection of steel structures. Large-screen display, the data is intuitive and clear.
- Suitable for connecting a variety of scanning devices (can be used for pipe inner wall inspection, etc.)

Performance:

- Production industry: casting, forging, metallurgy, target material and other production enterprises' products. (Plates, bars, tubes, targets, etc.). In-service inspection: In-service workpiece inspection in steel structure, transportation, electric power, petroleum, petrochemical, new energy and other industries. (Welds, shafts, pipes, etc.)
- Manufacturing industry: aviation, aerospace, shipbuilding, machining and other industries, inspection of special material workpieces. (Composite materials, nonferrous metal materials, etc.) Comply with JIS and API standards. Built-in ultrasonic non-destructive testing standards.
- WI-FI wireless Internet of Things attributes, help cloud detection, cloud storage, cloud update
- The integrated XY position encoder can realize the application of B/C scanning detection system (optional). variety of scanners can be widely used in pipelines, plates, welds, etc. (optional). Suitable for connecting multiple scanning devices (optional) Pipeline inner wall inspection, etc.

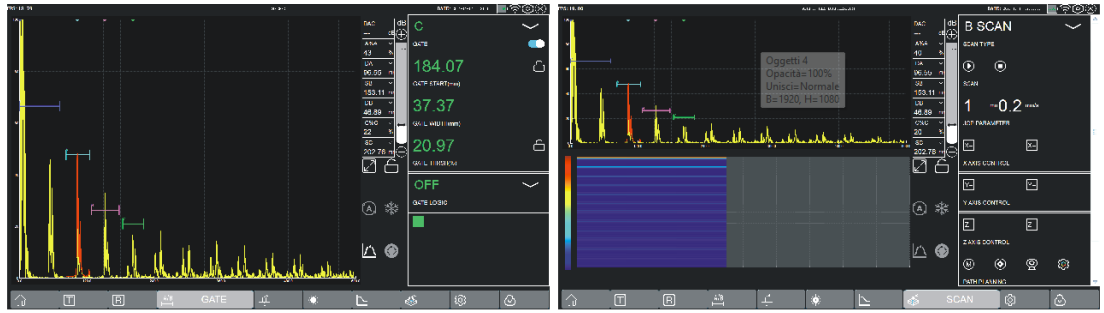
Operation:

Visualized operation, easy to learn;
The textual menu structure makes the settings you need clear at a glance
Support a variety of standard probes;
Products are widely used in pressure vessels, petrochemicals, aerospace, welding, railways, metallurgy, steel structures, electric power, boilers, nuclear industry, shipbuilding, aircraft manufacturing and automobile production.





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System
Win7 Support WIFI Support gravity sensor USB interface HDMI interface SIM interface CPU 1.83 quad-core (N2930) RAM 8G Hard disk 30G
Display
With 10-inch, IPS, 1920×1200 touch screen
Power supply
Battery Lithium battery adopts 3.7V12000mAh battery for continuous work 8 hours Input 100~240V/50~60Hz Output 19VDC/3.42A
Feature
working principle Ultrasonic (pulse-echo/echo-echo)
Detection range 10mm – 2000mm
Velocity 100-9999m/s, Preset 26 common material sound velocities
Probe delay 0-200us
Display delay -198-200mm
Dynamic range >36dB
Sensitivity >84dB 200mm, 2mm flat bottomed hole
Dimension(mm) 280×185×26.5mm
Weight 1.2Kg
Working Environment Temperature -10-60°C Humidity 5%-90%
Drive system
Square wave pulse 50-230V

Pulse width 50-1500ns
Repeat frequency 100-5000Hz Continuous adjustable
Pulse 1-10
Matched damp 50Ω
Receive system
Gain 0-110dB dynamic range
Gain interval 0.1/0.2/0.5/1/2/6/12
Sampling frequency 80-160M
Testing method Peak/edge
Testing method Full wave/positive wave/negative wave/RF
Bandwidth frequency 1.25/2.5/5/10/20/0.5-2.5/2-5/4-15/all
Mean Value 1-10000
Storage
A scan raw data B scan imaging C scan imaging Defect list Export report
USB
Save data via USB to USB flash drive
Input-Output
Probe connection C5
I/O Encoder interface
Regional
Language Chinese/English
Unit mm/inch
Clock Real time display date/time
Gate

Quantity
4 independent gates (1 interface gate)
Follow the gate
Support gate 1 frame selection of boundary waves, gates 2, 3, and 4 are always in the same position after the boundary waves as follow-ups
Measured value display
The maximum peak amplitude, position (SA), depth (DA), horizontal distance (PA, RA (remove the leading edge of the probe)) and the number of round trips in each gate.
Alarm
Alarm logic is set in each gate (positive (waveform is higher than the gate)/negative (waveform is lower than the gate)/close)
Quick operation
Full screen/lock screen/auto gain/freeze/envelope/device reconnection
Equivalent curve
DAC/TCG 5 curves
Standard
GB 11345, NB 47013
Standardize
10 non-sequential calibration points
DGS
Suitable for three reference types of large flat bottom/flat bottom hole/through hole, considering the reference attenuation, material attenuation and surface compensation factors, defect evaluation method: equivalent size/equivalent gain/percentage
Cloud
Date
Upload/download/analyze data
Update