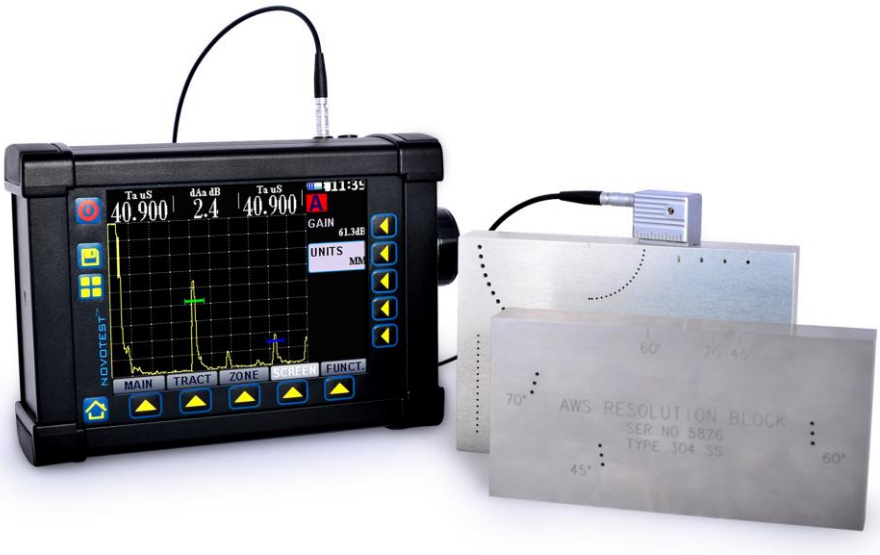
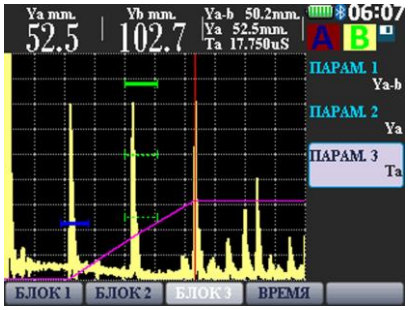
Ultrasonic Flaw Detector NOVOTEST UD-1

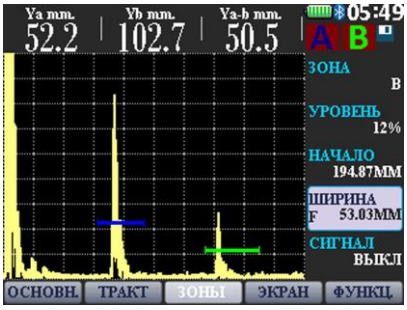
Description of Ultrasonic Flaw Detector NOVOTEST UD-1



Ultrasonic Flaw Detector NOVOTEST UD-1 is designed to detect defects, such as continuity and uniformity of materials in products and welded joints, to measure the depth and position of their occurrence, thickness measurements, measurements of velocity and attenuation of ultrasonic waves (ultrasonic) in the material.

Ultrasonic Flaw Detector NOVOTEST UD-1 with a color display and a minimum size - this is the best choice for expert ultrasonic testing. Powerful, lightweight and portable, the ergonomic impact-resistant metal casing. The flaw detector UD-1 allows to measure the thickness of the product with great accuracy, the signal to be in the form of A-and B-scans and has all the features of the full documentation of control.





Ultrasonic Flaw Detector NOVOTEST UD-1 allows you to replace outdated flaw detectors, providing a modern level of comfort with flaw, the function of testing results, save the settings and control of converters, and the device is priced at analog flaw detector.

Ultrasonic Flaw Detector NOVOTEST UD-1 meets all requirements of the modern digital flaw detector, while having a value lower than all the existing analogues!

The advantages of Ultrasonic Flaw Detector NOVOTEST UD-1

- ☑ Frequency range with continuously adjustable from 0.2 to 10MHz.
- ☑ Two independently controlled gate (A and B).
- ☑ Automatic or manual construction of the TCG curve (32 points).
- ☑ Two types of representations of signals: the detection and radio.
- ☑ Build and handling A, B scans.
- ☑ Modes: the envelope, freeze and display of the beam.

Specifications of Ultrasonic Flaw Detector NOVOTEST UD-1

The range of measured depth (steel), mm	6000
The range of gain control	100 dB in 0.1 dB
Temporary adjustment of gain (TCG)	range up to 70 dB, with the construction of the curve with 32 control points entered manually or from the control reflectors
The control zone	two independent zones, start and change the width of the entire range of sweep
Interrogator	customizable, with an amplitude of 350 V, with a variable length from 12.5 to 500 ns, 12.5 ns increments
Memory	configuration with A-scan (B-scans), limited the size of SD-card control protocols (signal envelope, the measurement, the parameters of the device, date, time and name of the protocol), limited the size of SD-card
Interface	Bluetooth, SD-card

Standart set of Ultrasonic Flaw Detector NOVOTEST UD-1

- Electronic control unit UD-1
- Probes (2 pcs.)
- Lemo-Lemo cable
- Power supply and battery charger
- Memory Card
- Operating manual
- Case

Additional options for ordering

- Additional probes to the ultrasonic flow detector
- Additional cables to the flaw
- Charger
- Bag for comfortable operating
- Standard samples

Detailed specifications of Ultrasonic Flaw Detector NOVOTEST UD-1

Scan
min .: 0 - 6 μs
max .: 0 - 1000 μs
step - 25 ns

Exposition
from 0 μs to 1000 μs
step - 25 ns

MAX length of tested material
up to 6000 mm (echo mode)

Velocity range
1000 - 9999 m/s

Exposition in the prism
0 - 100 μs
step - 25 ns

Damping
50 Ohm

Input impedance
50 Ohm / 600 Ohm

Probes pulse
RF pulse with amplitude of 100, 200 or 300V,
With variable length from 25 to 500 ns,
step - 25 ns

Repetition frequency of SP
automatically controlled from 10 to 100Hz

Amplifier
Wideband 0.4-20 MHz (-6 dB)

Gain control range
115 dB, step - 1 dB

Time control gain (TCG)
range up to 70 dB, 12 dB / μs
with the construction of the curve through 16 reference points,
entered by hand or by the control reflectors

Amplitude-Distance curve
drawing through 16 points, height adjustable

Zone control
two independents areas, the beginning and width are change at all scan range; levels of limits are set from 0 to 100% of display height; individual logic of detection defects.

Detection
positive or negative half-wave,
complete, the radio signal (at all range of scan), B-scan

Cutoff
compensated, 0 - 90% of screen height

Automatic Alarm of defects
light logic of detection defect in zone for each zone individually and sound individual logic detection defect at the zone

Time intervals measurement
from 0 to a first signal in the zone or between
signals in the zones to the front or to the maximum signal

Measurement of amplitude
in dB relative to threshold level in the zone;
in dB relative to the reference signal;
in dB relative to the amplitude-distance curve.

Display
Colored, TFT 320 x 240 pixels 135 x 100 mm.

Memory
Limited of SD cards capacity

Interface
USB, Bluetooth (optional)

Connectors of probes
2 Lemo

Battery
Li-on 4-7 a / h

Battery life
up to 10 hours with the battery 4000 a / h
up to 24 hours with the battery 6600 a / h (optional)

External power supply
power supply 220V, 50Hz AC

Supply voltage
15V 2A

Operating temperature range
from -30º C to + 55 ° C

Dimensions (H x W x L)
140 mm x 210 mm x 55 mm with standard battery (4000 a / h)
140 mm x 210 mm x 85 mm with the battery 6600 a / h (optional)

Weight
1.7 kg with standard battery (4000 a / h)
2.7 kg with battery 6600 a / h (option)