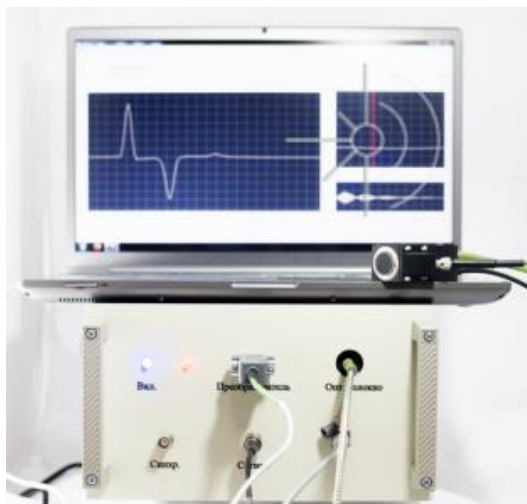




Laser Ultrasonic Defectoscope UDL-2M



UDL-2M laser-ultrasonic defectoscope is designed for precise measurements of the speed of longitudinal ultrasonic waves in samples of various structural materials (metals, alloys, ceramics, plastics, composite materials) with one-sided access to the investigated object.

1. Specifications:

ADC: 12 bit, 100 MHz, frame depth - 4096, USB interface

Laser: Nd:YAG with diode pumping and Q-switching, 1.06 μm , 100 μJ

Repetition rate of pulses: not less than 0.5 kHz

Productivity: at least 5 measurements/sec

Overall dimensions: 435 mm x 135 mm x 305 mm

Weight of optoelectronic defectoscope unit: no more than 25 kg

Power supply:

- 220 V AC

- frequency 50 Hz

Power consumption: less than 250 W

Terms of Use:

- ambient temperature + 15 $^{\circ}\text{C}$ - + 35 $^{\circ}\text{C}$

- relative humidity at + 25 $^{\circ}\text{C}$: 50 - 80%



2. Configuration:

- optoelectronic unit, which includes a pulsed Nd:YAG laser and an analog-to-digital converter (ADC)
- broad-band optoacoustic transducers PLU-6P-02 (main), PLU-6N-02 (optional)
- fiber optic cable
- data acquisition and processing system (PC working station)
- USB-2.0 cable
- specialized software