

Ability to show the signals in strip chart and A-scan at the same time

Ability for flaw detection and thickness measurement of different products with ultrasonic method

10-inch Touch HD display

Ability to test different materials like metal, plastic and composites

Quick and easy access to all the features and variables

Ability to work with one battery continuously for 10 hours

Ability to evaluate the received signals with different functions like DAC, AWS, TCG

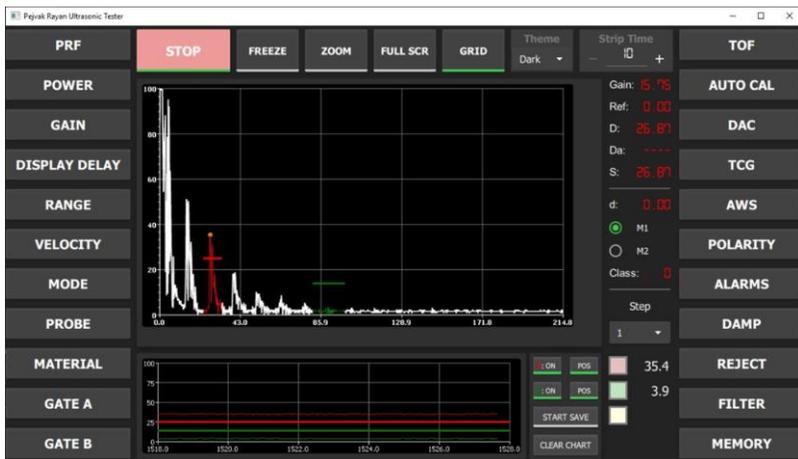
Ability to test different types of products like casting, welding, machining, rolling

2-year guarantee

Device Introduction

PEJVAK Rayan portable ultrasonic testing system model (Flaw Hunter TMU 201) is the new generation of ultrasonic testing and measuring system that has a touch menu and it has a wide range of capability for ultrasonic testing.

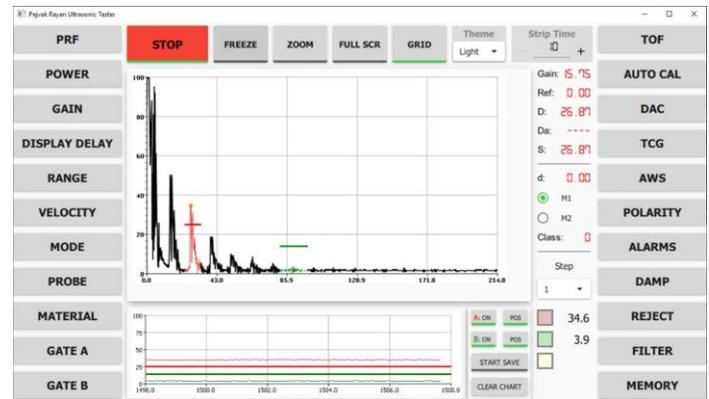
To design this system, we have tried to provide all the needs and requirements of standards and ultrasonic testing according to the new technologies in the world, but apart from this, this device has special features like 10-inch touch HD display, ability to move the gates in flouting mode and touch, and ability to show the signals in strip charts and A-screen that differentiate this system compared to other common manual ultrasonic testing devices.



This portable ultrasonic device can be used in different industries like:

- Power station and petrochemical industries
- Casting, steel production. Piping and rolling industry
- Oil and gas industry for testing of distribution pipes
- Railing industry for testing rails and trains' wheels
- Car industry
- Military
- Industrial workshops for testing the raw material before production.

Using modern electronic elements like FPGA microprocessors with high speed process, enables the device to have and use all the modern capabilities and features of ultrasonic testing required features.



Automatic calibration, ability to analyze the flaw location, material identification by calculating the sound speed in materials, repeatability of the test results, analyzing the signals by using different functions like DAC, AWS, TCG, and two year warranty are other features of this portable device.



Technical Specification

<i>Temperature</i>	Operating -10°C to 55°C
<i>Warranty</i>	Two Year warranty
<i>PRF</i>	100 – 1000 Hz Adjustable in 1 Hz steps
<i>Pulser Type</i>	Negative Spike Pulser
<i>Pulser Power</i>	0 – 340 Volt Adjustable in 1%
<i>Test Mode</i>	Through Transmission ·T/R ·Pulse Echo
<i>Damping</i>	25, 50, 200, 500 Ohm selectable
<i>Gain Control</i>	0 – 60 dB , Adjustable in 0.25, 0.5, 1, 10 dB steps
<i>Rejection (grass cutter)</i>	0 – 50% FSH Linear reject without affecting indication amplitude
<i>Rectification</i>	FW, PHW, NHW, RF
<i>Frequency Band</i>	0.5 – 11 MHz
<i>Filter Bands</i>	0.5 - 4, 0.5 - 11, 2 - 8, 8 – 11MHz
<i>Display Mode</i>	A-SCAN, Strip Chart
<i>Range</i>	0 – 1000 Micro Second
<i>Gates</i>	2 independent gates
<i>Polarity of gates</i>	Pos for peak detection, Neg for smallest signal detection
<i>Linearity</i>	Vertical = 0.5% (FSH) - Horizontal ±0.2% (FSW)
<i>Transducer Connectors</i>	Lemo 1S, BNC Selectable by purchaser
<i>Alarms</i>	Independent Light for Gate A, Gate B, DAC
<i>Auto Calibration</i>	Automated calibration of Range , Probe delay and Velocity
<i>Zoom</i>	Expands range and delay to cover the area set by Gate A
<i>Peak Hold</i>	Hold the current waveform on screen for off-line processing
<i>Evaluations</i>	DAC (Up to 10 points), TCG, AWS
<i>Measurement Modes</i>	Peak, Flank, J.Flank
<i>Measurement Parameters</i>	Depth, Surface Distance, Sound Path, Velocity, Probe Delay, AWS Indication Rate, AWS Indication Class
<i>Calibration Standard</i>	EN12668-1 - 2010

PORTABLE ULTRASONIC FLAW DETECTOR

FLAW HUNTER TMU 201



PEJVAK RAYAN

ULTRASONIC TEST INSTRUMENTS MANUFACTURER

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