



INTRODUCTION

- ULTRA-V hand held and light weight Digital Ultrasonic Flaw Detector offers you all the features of larger, heavier instruments, such as high resolution with the usual high gain reserve.
- In addition to this, the instruments ease work by the inclusion of extras. For example in weld testing the exact flaw location is evaluated; all features are available for demanding thickness measurements.
- User-friendly programs for display evaluation with 3 or 4 Distance Amplitude Curves (DAC), +6dB DAC and for AVG evaluation are available as standard.
- T-Scan thickness display and optional Encoder B-scan Scanner
- Welding simulation map for welding section display defect location for report printing
- The light weight 2.0 kg, including batteries!
- The ergonomic design and operational ease will amaze you.
- Large Color TFT display. A bright, 400 cd/m² high contrast screen enables you to read your measurements data even under poor lighting conditions.
The A-Scan, the instrument settings and the digital measurement readings are all displayed simultaneously.
- The instruments can withstand the toughest conditions after testing, you will certainly wish to use the many documentation possibilities to record all calibration parameters and test results. It can storage 500 data inside.



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Ultra-V DIGITAL ULTRASONIC FLAW DETECTOR

INSTRUMENTS MEET YOUR NEEDS

The high refresh rate (60Hz) of the bright and high-contrast TFT screen is reminiscent of the successful analog tubes.

You can read your measurement readings quickly and clearly. If a measurement is made when you are at some distance from your instrument, simply display the reading in large digits.

The pulse repetition frequency can be reduced. By doing this, phantom echoes can be reliable avoided which could occur when testing larger test objects.

The instrument can store data sets, including all instrument parameters, test results and A-Scans and can be recalled at any time.

You soon feel at ease, because you operate them in accordance with your proven standards for digital instruments.

FEATURES

- Joystick control set and adjust all parameters
- Welding simulation map
- Large thickness reading display
- DAC curve with DAC alarm
- Curve DGS (optional)
- Positive, negative, and minimum depth alarms
- Filled waveform trace display
- Freeze and Peak memory mode
- Separately Gate A and Gate B setting with alarm
- Peak or Flank measurement
- Automatic calibration on two points
- Pulse repetition frequency control
- Displays sound path value, surface distance and depth to flaw in angle beam inspections
- Connects to PC via USB cable to download data and make certificates

TECHNICAL SPECIFICATIONS

Calibration range:	From 25 to 6000 mm (steel long)
Sound velocity:	2 fixed values(3230m/s,5920m/s) and adjustable in the range 1000 to 9999m/s in steps of 1m/s
Probe delay:	0 to 365 μ s
Gain:	100dB, adjustable in steps of 0.1/2/6/12/20 dB
Fine Gain:	0.1 dB
Frequency range:	0.5-10 MHz wide band
Pulse repetition frequency:	10-1000Hz, depending on the set calibration range and the probe delay for adjustable
Test methods:	Pulse echo mode and Thru mode
Pulse Voltage:	300 V negative spike
Damping:	120 ohm
Echo presentation:	Full wave, RF
Suppression:	Linear, 0 to 90% screen height adjustable in steps of 1%, status indication on the display
DAC:	Recording of up to 8 reference echoes, 40dB dynamic range, display of the DAC curve 3 or 4 DAC curve can be setting
DGS:	Measurement technique that allows defects echoes through the evaluation of diagrams DGS associated with particular probes and materials.
Data storage:	500 A-scan Trace Data sets in the FLASH memory, with additional alphanumeric identification and directory function
Units of measure:	mm or inch
Interface:	USB
Analog output:	Proportional voltage for amplitude and sound path of the echo in the gate; TTL signal for gate alarm
Probe connector:	Two LEMO 1 connectors
Power supply:	Removable 8800mAh/7.2V Li-ion Battery or mains supply via an external mains power/charger unit JBD15-A2S
Operational period:	Up to 6 hours with Battery (select LCD low bright)
Operating temperature:	-5° C +65° C
Storage temperature:	-40° C +75° C (without batteries)
Display size:	Monitor: 100mm×60mm (W×H)
Dimensions:	160mm×100mm×40mm (H×W×T)

SALE KIT

- Instrument ULTRA-V
- Box IP 65 with shoulder strap
- 2 batteries (inside)
- AC mains adapter/battery charger
- USB Data transfer cable
- Operating manual (italian / english)
- Software for documentation and data filing

