



### INTRODUCTION

- Tru-Test 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.
- The light weight 2.0 kg, including batteries!
- The ergonomic design and operational ease will amaze you.
- Large Color TFT display. A bright, 500 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 Tru-test can storage 500 data inside.



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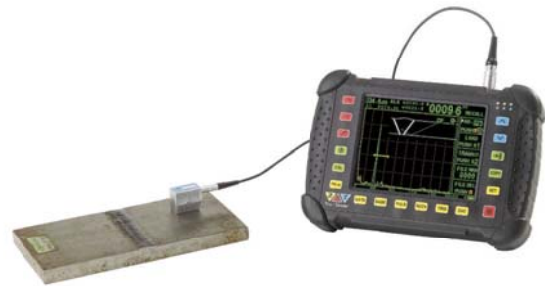


# Tru-Test Digital Ultrasonic Flaw Detector



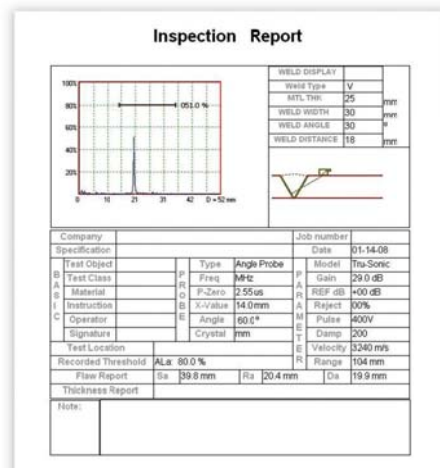
## INSTRUMENTS MEET YOUR NEEDS

- 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. It can be recalled at any time.



## FEATURES

RF display  
 Large thickness reading display  
 DAC curve with DAC alarm  
 High resolution large TFT color LCD display  
 Welding simulation map  
 Positive, negative, and minimum depth alarms  
 Filled waveform trace display  
 Freeze and Peak memory mode  
 Separately Gate A and Gate B setting with alarm  
 Echo-Echo for through coating thickness measurement  
 Peak or Flank measurement  
 +6dB DAC setting can extend set DAC sound path up to 200 mm full screen  
 Time-B-scan and encoder B-scan available  
 Single Pont probe auto zero calibration (incl. single contact and angle beam probe)  
 Pulse repetition frequency control  
 Displays sound path value, surface distance and depth to flaw in angle beam inspections  
 Software for test report. The data can be printed when connected with computer





# Tru-Test Digital Ultrasonic Flaw Detector



## SPECIFICATIONS

Calibration range:	From 25 to 6000 mm (in steel).
Sound velocity:	2 fixed values(3240m/s,5920m/s) and adjustable in the range 1000 to 9999m/s in steps of 1m/s.
Probe delay:	0 to 365/s
Gain:	110dB, adjustable in steps of 0.1/2/6/12/20 dB
Fine Gain:	0.1 dB
Frequency range:	0.5-5 MHz narrow band, 4-15 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:	200 / 400 V negative spike
Damping:	100 / 200
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
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
Direct documentation:	Hardcopy (contents of display), active measurement reading, test report or thickness report, via the RS-232 interface to computer.
Interface:	RS-232 C (bidirectional) or USB adaptor for PC computer.
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 ( BNC connector available )
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 ( select LCD low bright )
Battery charge indication:	On the display
Operating temperature:	-5° C to +65° C
Storage temperature:	-40° C to +75° C (without batteries)
Display size:	Screen: 103mmx86mm (WxH)
Dimensions:	140mmx220mmx42mm (HxWxT)
Weight:	2.0 Kg with battery pack



- \* Hard Carry case
- \* Batteries (inside)
- \* AC mains adapter/battery charger
- \* USB/RS232 Data transfer cable
- \* Operating manual (English)
- \* Software for documentation and data filing
- \* Ultrasonic cables and probes

**- We offer you nice instrument with service support -**