



Simplifying NDT

Palmtop, Ultralight ULTRASONIC FLAW DETECTOR Arjun20

- ★ One-hand-operation
- ★ Only few keys for user friendly menu navigation
- ★ High resolution (800 x 480 pixels) WVGA display
- ★ Removable Micro SD card up to 8 GB
- ★ Software for AWS D 1.1 Sizing
- ★ USB communication port
- ★ Auto plotting dynamic DAC
- ★ On Board DGS/AVG for Flaw Sizing
- ★ Square Wave Pulsar
- ★ Weighs only 800g with battery



Mounted on the tripod



In the palm



Standard kit in transportation case



With security neck strap



On hinged stand



Leather wrist strap

Arjun20

<u>Parameters</u>	<u>Specification</u>
Test Range	2.5 mm to 5 meter (in steel). Fine mode adjustable in step of 1mm.
Velocity	1000 m/s to 15000 m/s. In Hot Key mode it has 21 pre-set values. Fine mode adjustable in step of 1 m/s.
Delay	Up to 120mm adjustable in 0.01mm, 0.1 or 1mm step.
Gain	100 dB calibrated gain adjustable in 0.1, 0.5, 1, 2, 6 or 14 dB step.
Rejection	0 to 125% FSH with LED indicator.
Rectification	Full wave rectified with filtering.
Frequency	0.5 MHz to 15 MHz (Wideband).
Linearity deviation	Vertical: $\pm 3\%$, Horizontal: $\pm 0.5\%$.
Test Modes	Pulse echo and transmit/receive.
Measuring Resolution	0.01mm
Probe Connectors	LEMO Size 00 (2 nos).
Monitor	Dual gate adjustable in 1% of Screen width with Positive/Negative logic, Gate Expand modes.
Gate Expand	Expands Range to width of the gate.
A-Scan memory	500 Trace Patterns can be stored, recalled or transferred to PC via USB port. A-Scan trace pattern can be directly stored on SD card or on External USB disk.
Calibration Set-up	50 different calibration set-ups can be Stored and Recalled.
Software	ArjnSoft Interface software for transferring A-Scan from Arjun10 to PC is supplied.
USB and SD card	External USB disk and Micro SD card (up to 8GB) ports provided for data storage.
Display	5 inch Colour Wide VGA LCD/TFT display (800x480 pixel, size 108x64 mm) with higher resolution LCD for better signal representation and better visibility with different colour sets.
Reference A-Scan	Reference A-Scan pattern of standard test object can be saved and recalled in the background for easy comparison during testing.
Echo Dynamic	Echo Dynamic pattern display.
Dynamic DAC	Dynamic DAC curve can be Digitally plotted (Smooth parabolic curve) on screen with selectable additional offset curves from 0 to 14 dB in 0.1 dB selectable steps. DAC curve can be set as flaw monitor gate and can be plotted using minimum 2 to maximum 10 points.
DGS	Defect size evaluation using predefined probe settings and custom probe set-ups, ERS (Equivalent Reflector Size) can also be displayed on the screen.
AWS	Built in Software for Evaluation of defects in accordance with AWS Specification D1.1.
Digital Readout And Trig. Function	Thickness/Depth can be displayed in digital readout when using a normal probe and Beam path, Surface Distance and Depth are directly displayed when angle probe is in use.
Update Rate	50Hz.
Power	Lithium-Ion Battery pack 7.4VDC, 5AH. External charger is provided to charge the battery without engaging the main unit.
Battery Life	8 Hours on Full Charge
Charger	Input Voltage 100 to 240 VAC. Charge status indicator is provided.
Temperature	0 to 55°C.
Size	117 x 176 x 56 mm (HxWxD).
Weight	800 gms with Li-Ion Battery.
Compliance	Ultrasound: EN 12668, ASTM E317

Manufactured and Marketed by:



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