



Simplifying NDT

UT Data Recording & Colour Flaw Plotting

Built-in Features in

Arjun30

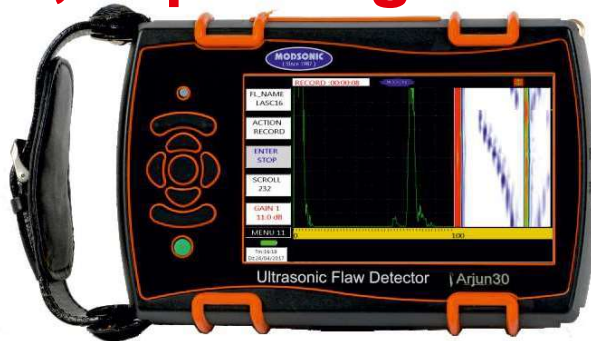


Palmtop

Ultrasonic Flaw Detector

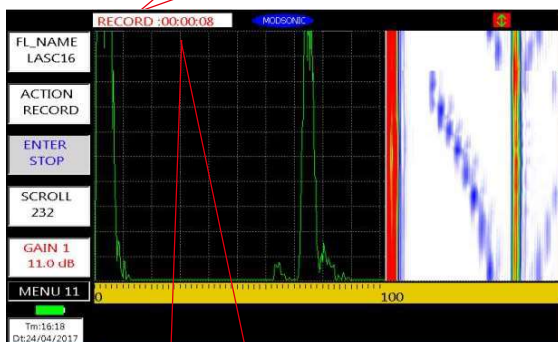
Essential for

Evidence, Documentation, Analysis, Reporting and Printing



- Carry out HUNDREDS OF HOURS of Continuous / Dynamic A-Scan and B-Scan Recording and Replay **within Arjun30 itself.**
- Easy transfer of Recorded Data to a computer.
- Detailed Analysis possible using A-Scan and B-Scan Recorded Data.
- Reporting and Printing in A4 format.
- Non-tamperable Time/Date STAMP for foolproof EVIDENCE.

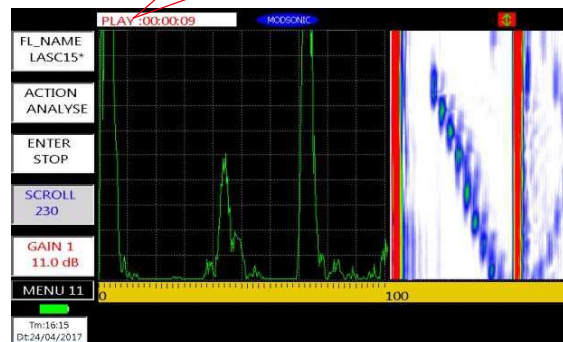
RECORD



00:00:08

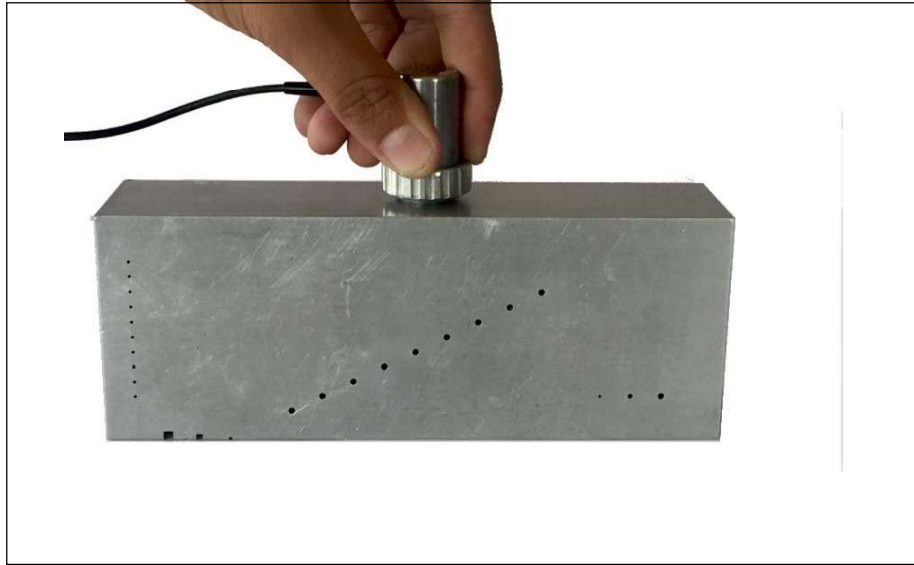
(Hrs:Min:Sec)
Counter

PLAY



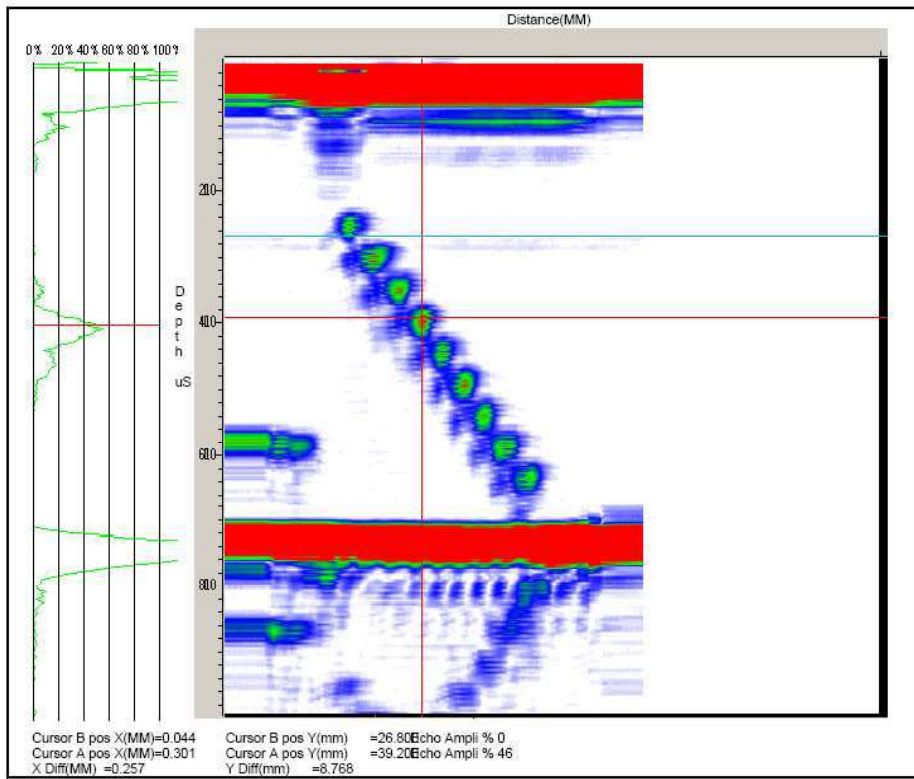
Tm:16:15
Dt:24/04/2017

Non-tamperable
Time/Date Stamp



**UT Data Recording & Colour Flaw Plotting
of above block with SDH and Notches**

Operator Name: Testing	
Job: Test Block SDH	
Remark Trial	
Undefined.	NA



Arjun30

Parameters	Specification
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 0.01, 0.1mm 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
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 32GB) 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. DAC curve 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
Built-In UT Data Recording	Carries out 100 Hours of continuous /Dynamic A-Scan and B-Scan recording (in 8 GB SD Card) which can be replayed and analysed in Machine as well as PC
Colour B-Scan	Real time Colour coded Un-Encoded B-Scan along with A-Scan on the Screen which can be transferred to PC, Also analysis of A-Scan and B-Scan can be done in the machine as well as PC
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:



Modsonic Instruments Mfg.Co.(P) Ltd,

Plot No.33,Phase III, GIDC Industrial Estate,Naroda, Ahmedabad-382 330, INDIA,

Tele : +91 (79),2281 1217, 22813131, 48908054 || Fax: +91(079)22820012

modsonic@modsonic.com || www.modsonic.com