



Economical Digital Ultrasonic Flaw Detector

DIGISCAN DS-322



Features:

- Direct Access Function Keys, Easy to Operate
- Rugged Engineering Metal Body with EMI Suppression
- Higher Reserve Gain
- Large A-Scan Display Area with Parameter Values
- Sharp-Display Minute Echoes
- Optimised Performance at Higher Scanning Speed
- Smooth DAC Curves, User Selectable Values for Two Additional Curves
- DGS Scales
- Through Coating Thickness Measurement
- A Scan Recording Facility



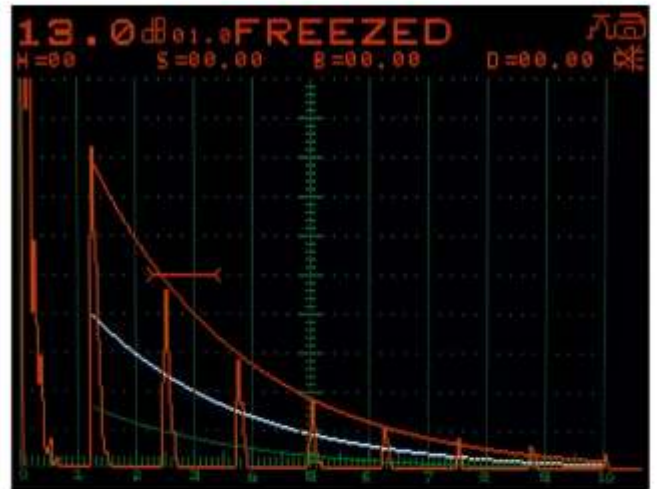
The latest DIGISCAN DS-322 has been internally modified to have better performance and newer features.

The TFT colored display has the ability to display small echoes which are very relevant to demanding UT operators, it does not miss any information. Flaw sizing has been made versatile with option of using DGS Scales or the DAC function. The new Dynamic DAC is optionally offered in accordance to demanding customers needs.

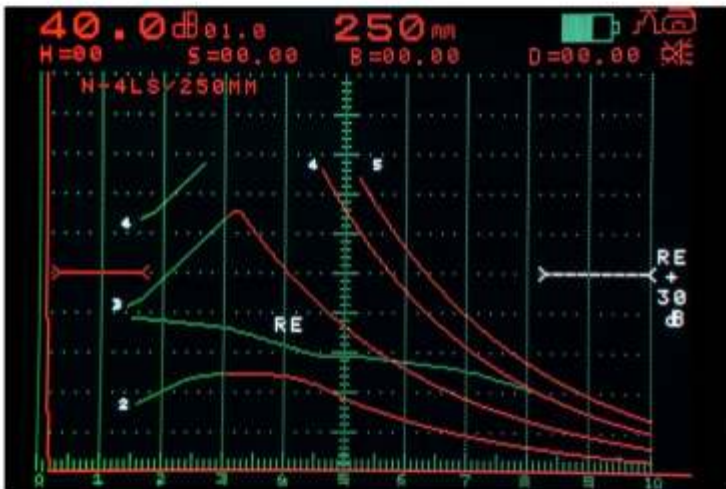
DIGISCAN DS-322 is a complete instrument suitable for most application where Ultrasonic Testing is carried out. It's simplicity to use, versatile features and ability to display high fidelity Ultrasonic signals, make it an ideal choice for users in Fabrication Shop, Welding Inspection, Forge Shop, Foundry, Plate Mill, Pipe Mill, Bar Mill, Maintenance Inspection, Component Inspection, Raw Material Inspection amongst other industries.



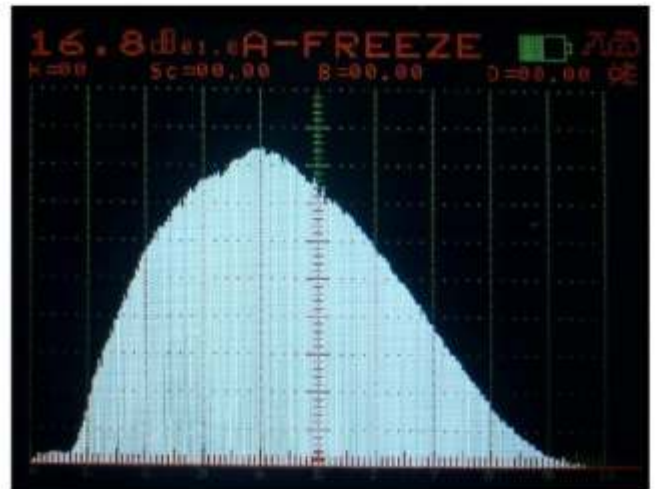
All Parameter Listing



Dynamic DAC



DGS Scale



Defect (Echo) Envelope



PC Connectivity



A-Scan Recorder

Specifications of DIGISCAN DS-322

LCD Display

Viewing Area	: 117.2 mm (W) x 84 mm (H)
Pixel Density	: 320 x 240
Display Type	: TFT LCD
Display Freeze	: Current display frozen
Active Freeze	: Display accumulation
Reference Pattern Display	: Reference pattern can be displayed at the background from selected location in memory
Display Pattern	: Envelope or Filled

Pulse / Receiver

Receiver	: 0.5 to 10 MHz by wide band amplifier
Bandwidth Gain	: Variable 0-80 dB, selectable - in steps of 0.1, 0.5, 1, 2, 6, 12dB
Rejection	: Linear type (0.99%), 1% step
Operating Mode	: Single probe, Double probe, T-R mode
Test Mode	: Pulse reflection or pulse transmission
Pulse Power	: At Energy High, 260 V Rise time 9 ns
Energy	: 4 Energy Levels 1, 2, 3, 4
Damping	: HI / LOW
Vertical Linearity	: 5%
Probe Connector	: BNC Type

Time Base

Range	: 5mm min. -5 mtrs. Max (@ 5890m / sec) - Continuous variable - (0.1mm step for 10-100 mm 1 mm step for 100 mm - 5 mtrs.)
Delay	: 0-3 mtrs continuous variable - (0.01mm / step for 10-100 mm 0.1 mm / step for 100 mm - 1mtr 1 mm/step for 1mtr - 5mtrs.)
PRF	: Variable from 100 Hz -1000 Hz in 100Hz step manually Auto limiting for set parameters
Velocity	: 2000 m / sec- 9,999 m / sec in 1m steps Transverse mode velocity Mode Selection as Velocity / 1.84
Time Base Linearity	: 1 %

Monitor Gate

Monitor gate	: 2 gates -Width 1/10 screen to full screen -Height 1/10 screen to 99% Gate measured from initial pulse
Monitor logic	: +ve /-ve logic selectable
Alarm	: Audio / Visual (Audio mute available)

DAC

DAC	: 1. Up-to 10 points auto plotting curve, minimum 3 points required, alarm function linked to Gate 2 2. Simultaneous 3 curves displayed for +6 dB to -20 dB (Selectable)
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General

Trigonometric Functions	: Beam path, Flaw depth & Projection distance, Echoheight
I. Probe Angle	: 0° - 90°
II. Job thickness	: 0.1 to 999.9 mm Echo height: + 1.0% tolerance Thickness (Echo to Echo) :+ 0.1 mm or set range / 300 whichever more with peak & flank option
Measurement Units	: Millimeter
Memory	: - 255 'A' Scans memory with calibration Parameters, trigonometric values and label (ID tag) - 150 calibration parameter sets - 150 DAC Sets Standard printer interface (Dot Matrix LX-300+) and PC connectivity via RS-232
Interface PC Software	: EECOWIN PC interface software can upload current "Frame" or from saved set to PC through the RS-232 serial port
Keyboard	: User friendly with direct access to frequently used functions
Colour	: Selectable White or Black background 1. White Background - Trace Black - Text (Legends) Green - Graticule Red - Gate Green 2. Black Background - Trace White - Text (Legends) Red - Graticule Green - Gate Red
Dimensions	: 243 (L) x 56 (W) x 195(H)
Weight	: 2.4 kg
Power Source	: Built in battery pack, 3 nos. 'D' size Ni-mH Rechargeable cells model BAT-322. -Operating time up-to 8 hrs. With battery -Battery charger cum mains adapter 110-220 V, 50 Hz - 60 Hz, Model AD5V5, Full charge in 4 hrs.
Battery Indicator	: Battery status indicator with auto shut down
Charge Indicator	: Green LED for charging
Operating Temperature	: 0° C - 55° C