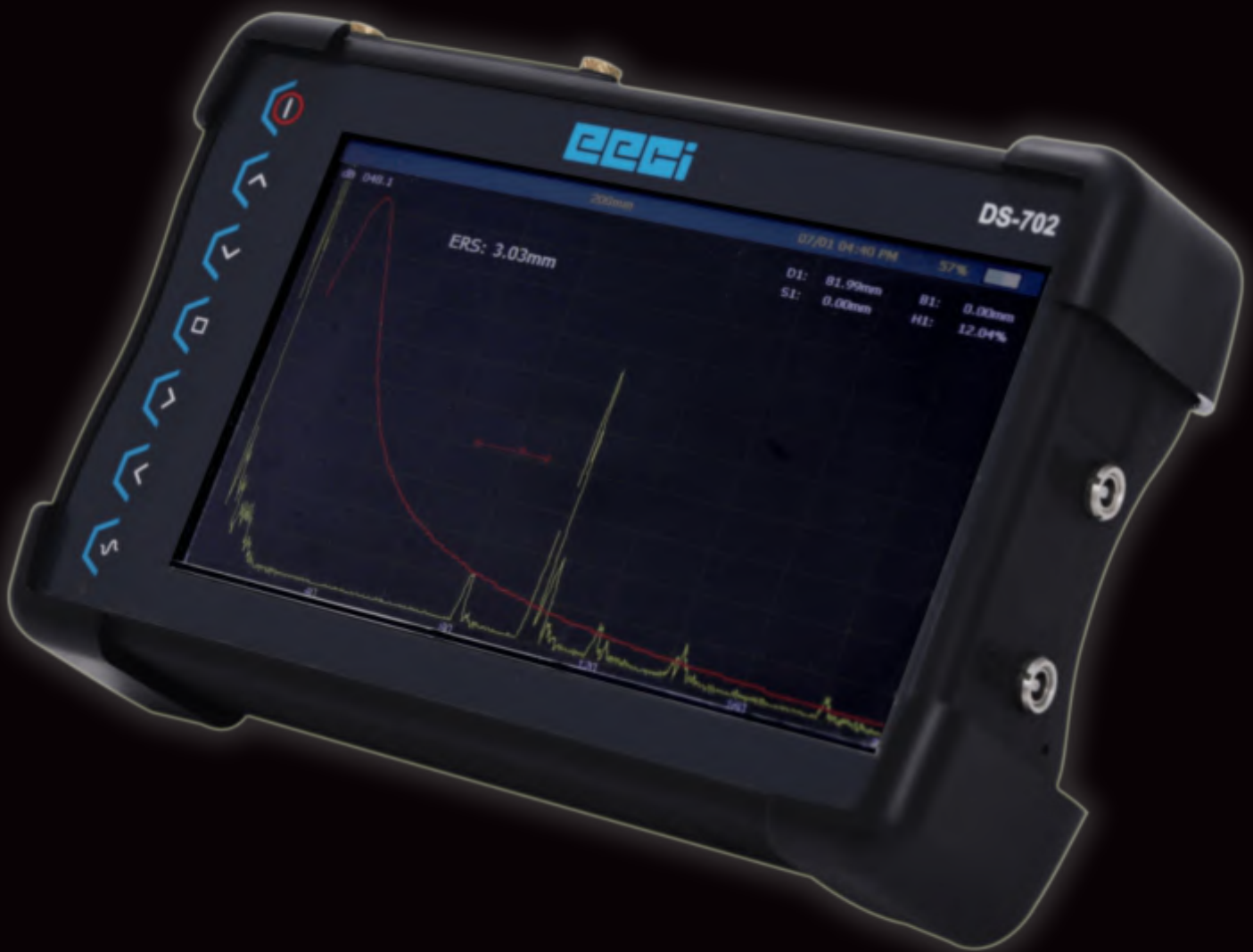
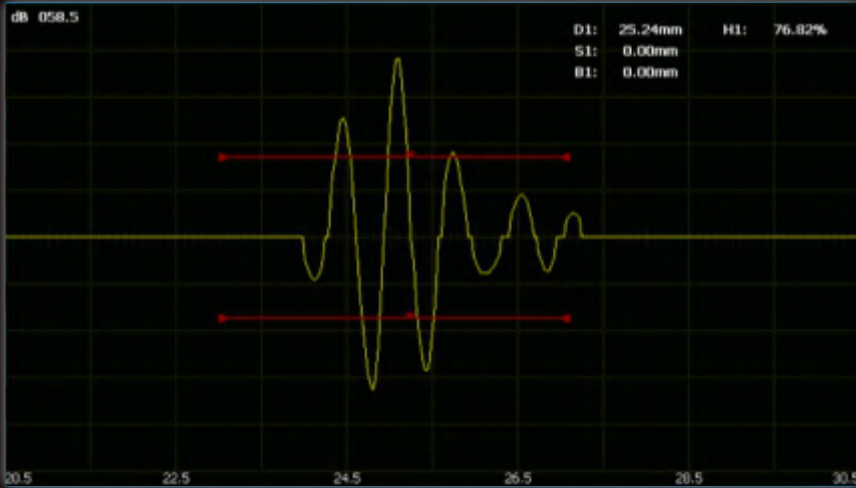


LEVERAGE THE POWER OF FLAW DETECTION DIGISCAN DS-702



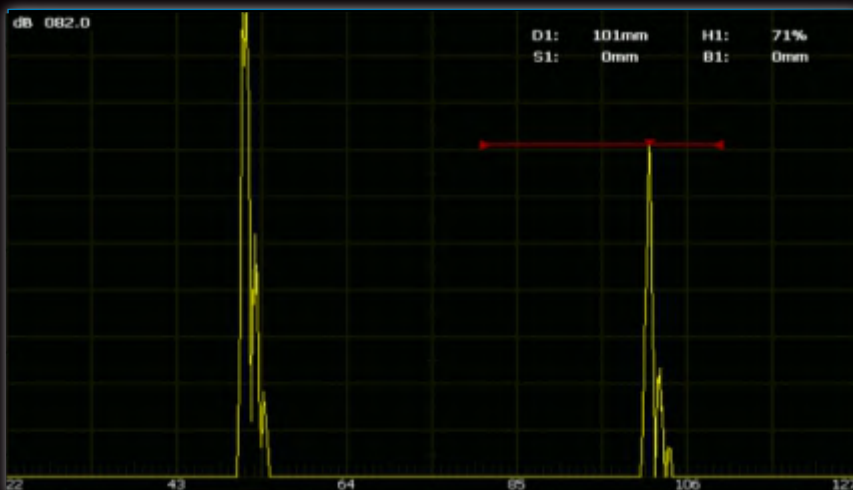
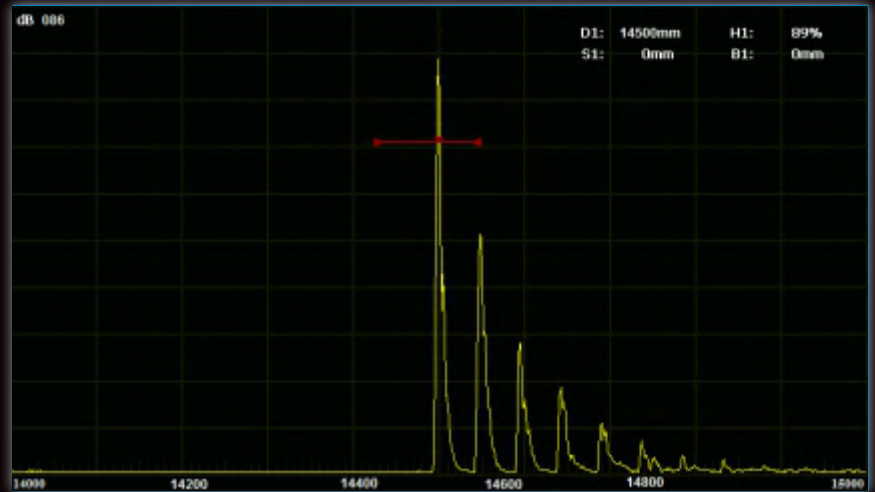


RF DISPLAY MODE WITH ZERO CROSSING MEASUREMENT

RF display mode can be used for high precision measurements along with zero crossing measurement mode for thickness gauging and corrosion mapping. By using the point where the echo crosses the base line rather than the gate threshold, a more stable and accurate reading can be achieved, even at higher gains.

TUNABLE HIGH VOLTAGE PULSER FOR HIGH PENETRATION APPLICATIONS

Using the tunable pulser with impulse mode and a 450V high voltage to achieve enhanced penetration of up to 15 meters, special applications for large volume jobs can be achieved.

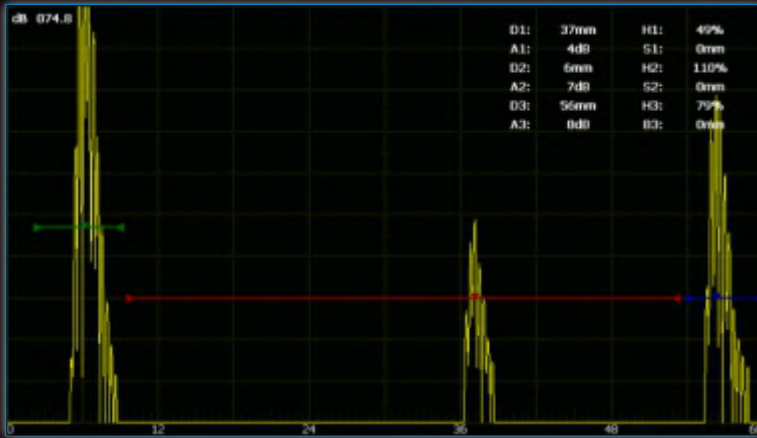
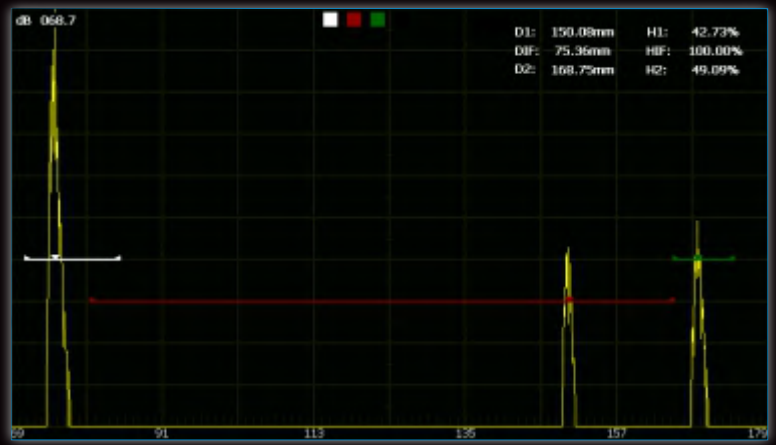


DIGITAL FILTERING

Adjustable Band-pass filter with provision to set lower and higher frequency limits, useful for filtering out undesired frequencies to improve signal to noise (S/N) ratio

INTERFACE GATE(IF) FOR IMMERSION TESTING

All 3 measurement gates can be set to trigger on the IF gate along with automatic adjustments for shifting of IF echo. This leads to higher accuracy readings as well as elimination of manual calculations.

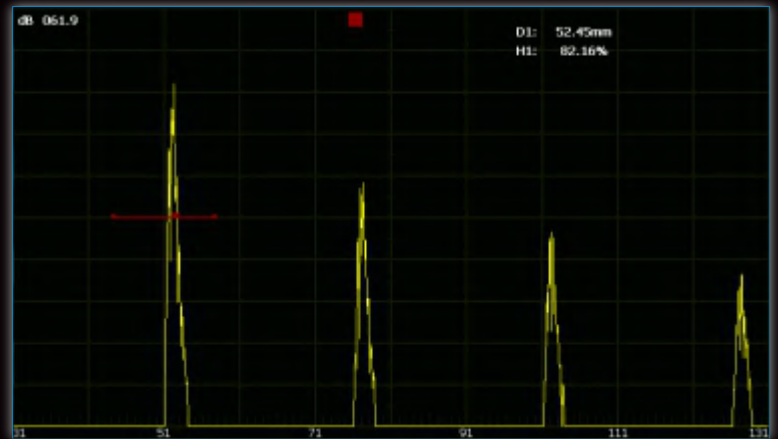


3 MEASUREMENT GATES WITH ADVANCED MEASUREMENT MODES

3 user selectable gates for flaw detection, wall thickness measurement, decoupling with individual settings for measurement mode, location and alarm settings. User customizable trigonometric values for all 3 gates, 12 screen locations to display height(H), maximum height(+h), minimum height(-H), depth(D), maximum depth(+D), minimum depth(-D), beam path(B), surface distance(S), attenuation(A), echo to echo distance calculation(E-E)

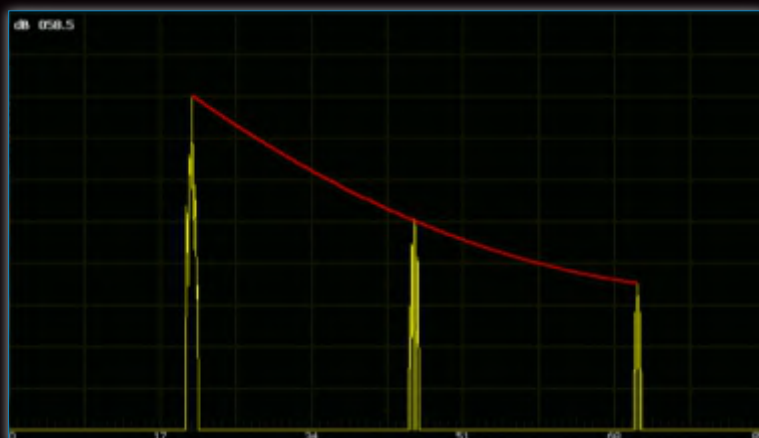
ENHANCE MEASUREMENT MODE

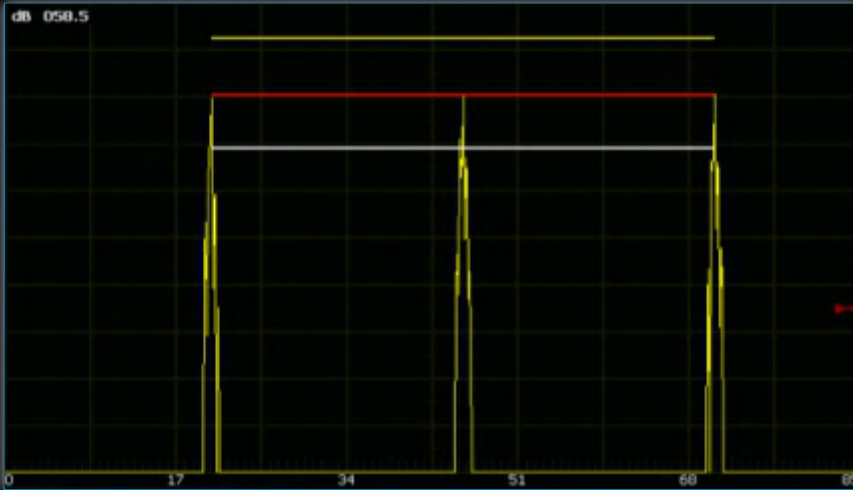
3 adjustable levels to improve the signal to noise (S/N) ratio for more accurate testing



DISTANCE AMPLITUDE CURVE (DAC)

Defect evaluation by plotting upto 15 point custom DAC curve with either a smooth parabolic curve or a simple point-point curve. 2 settable offset curves upto ± 20 dB.



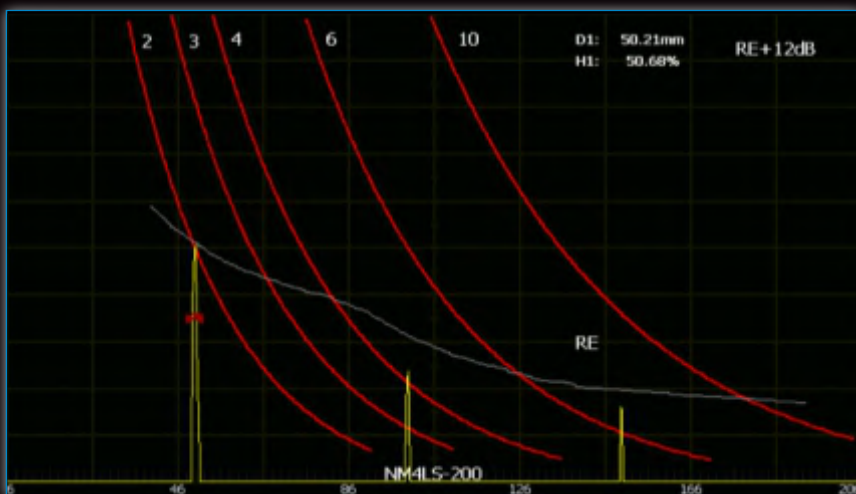
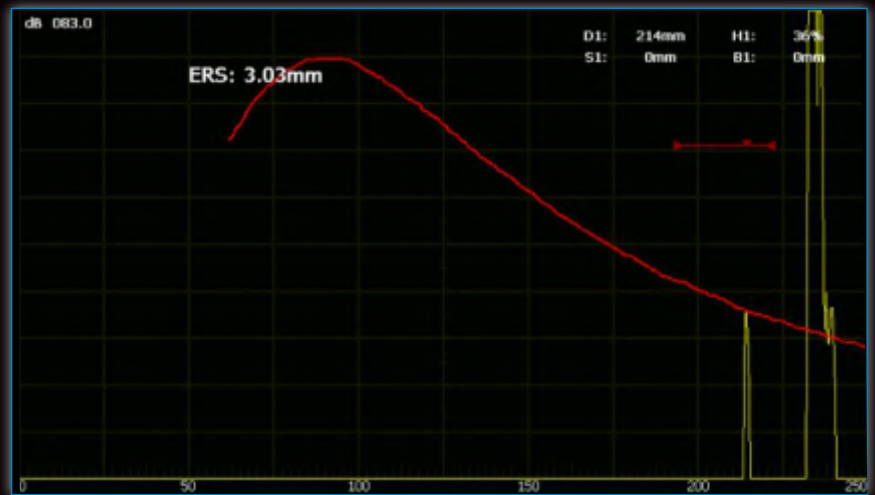


TIME CORRECTED GAIN (TCG)

TCG is used to normalise responses at various depths to the same % of FSH. Easily switch between DAC and TCG with one click.

UNIVERSAL DGS

Plot universal DGS pattern against Standard DGS curve for a any type of probe. It can be plotted by choice of reflector type option including BW, SDH, FBH. Flaw size occurring above or below the curve is easily visible in ERS parameter.

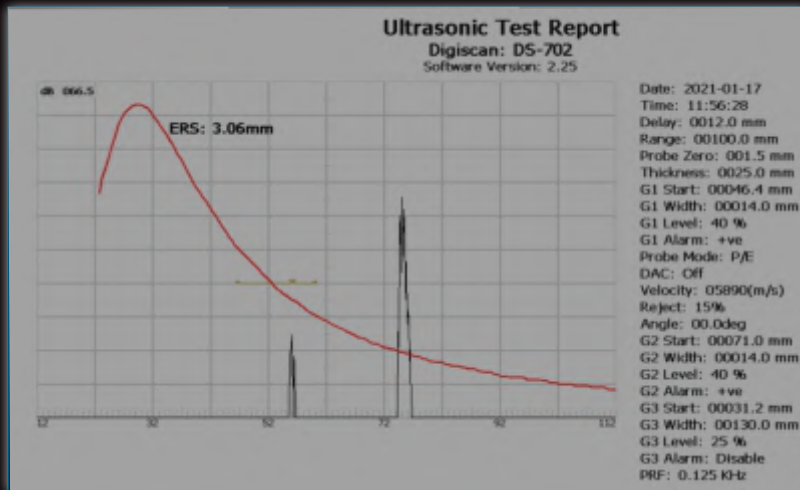
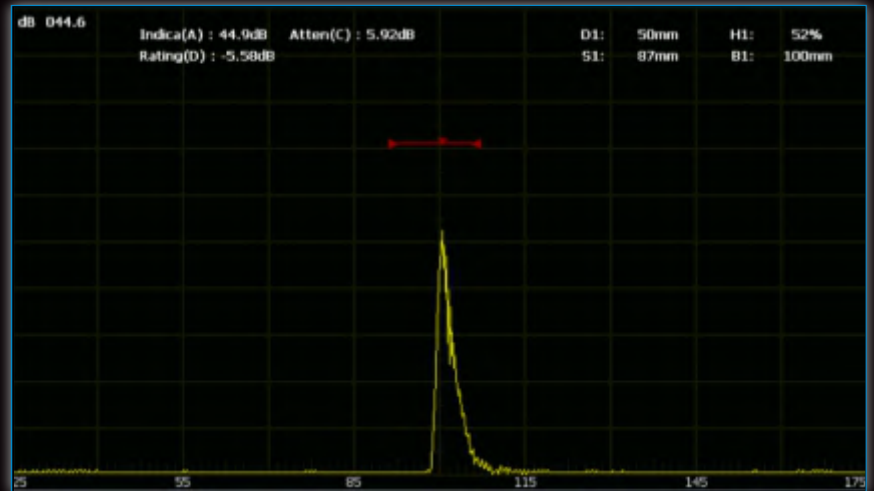


FlexiDGS

Used for comparison & evaluation of echoes against standard DGS curve for a particular type of probe. The DGS curve represents relation between echo height, defect size & distance from transducers. DGS option sets the scale as per the test range, so no more compromising to fixed scale.

AWS D1.1/D1.5

Provides a dynamic reflector indication rating for various AWS weld inspection applications. This allows more efficient inspections by eliminating manual calculations.

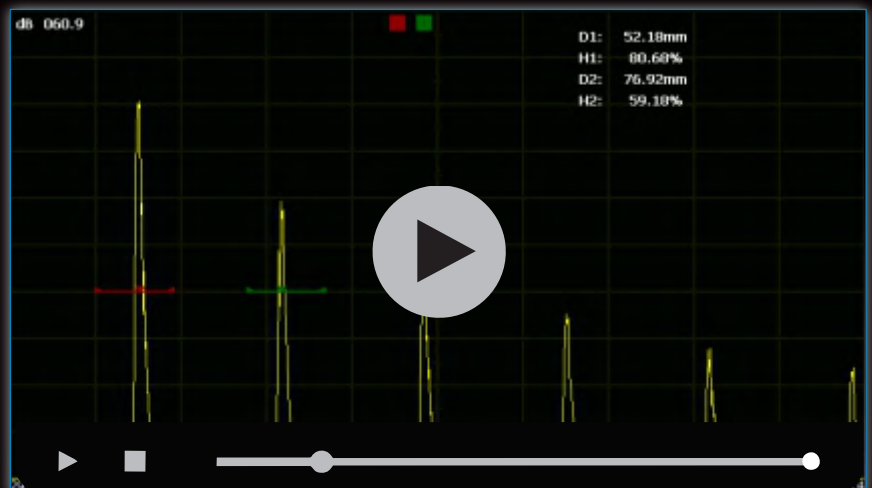


CONVENIENT ON-BOARD REPORTING

On-board PDF reporting with custom logo, remarks/job details. Transfer this directly on-site to a flash drive for printing, without a need of a PC software.

CONTINUOUS VIDEO RECORDING

Continuous A-Scan recording for review playback, either on the device or export to a MP4 file on the device and transfer on a flash drive for immediate playback. Optional PC software for review and exporting.

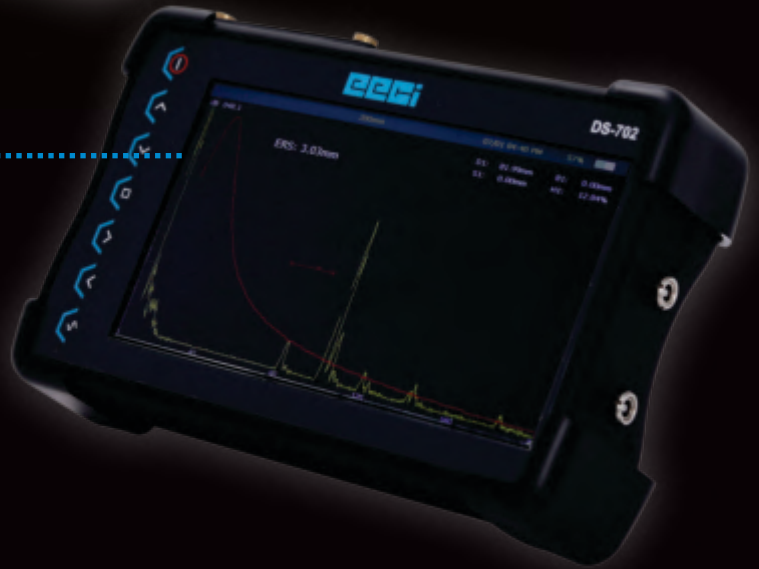


Carry Case

Ease Of Operations



Large 7inch & High Brightness Display



IP 65

Rugged Design

Back stand

Ergonomical Design



| | | |
|------------------------------|--------------------------------|---|
| Display | Display Type | 7" high brightness LCD |
| | Touch Screen | Yes (Optional) |
| | Display Brightness | 1000 nits, variable from 0% to 100% |
| | Display Update Rate | 60 Hz |
| | HDMI video output | Yes (Optional) |
| | Range | 2 to 15,000 mm, in 0.1 mm steps |
| | Velocity | 250 to 16,000 m/s, in 1 m/s steps |
| | Zero Offset | 0 to 1000 μ s, in 0.01 μ s steps |
| | Display Delay | -60 to 15,000 mm, in 0.1 mm steps |
| | Units | millimeters, inches, μ s, % |
| | Rectification | Full wave, positive half-wave, negative half-wave |
| | Horizontal Grid | 100% or 110% |
| | Reject | 0% to 99% FSH with visual indication |
| | Skip Distance | Visual indications based on thickness and angle |
| | Data acquisition | A-Scan |
| Real Time Clock | | Date and time for saved records |
| Digitizing Frequency | | 100 MHZ |
| Data Storage | | 32 GB SD card |
| Single A-Scan Storage | | > 6 million A-Scans |
| Report Generation | | On-board PDF report with custom logo, PNG A-Scan |
| Continuous A-Scan Recording* | | onboard file generation, > 200 hours |
| Receiver | Calibration Sets | 10,000 calsets |
| | Data Export | SD card, USB flash drive, PC connection |
| | Dynamic Range | 0 to 120 dB, in 0.1 dB steps |
| | Receiver Bandwidth | 0.5 to 20 MHZ wide band amplifier |
| | Digital Filter Settings | 0 to 20 MHz, in 0.1 MHz steps |
| Gates | Enhance Mode | Off, low, mid, high |
| | System Linearity | Horizontal: \pm 1% FSW Vertical: \pm 2% FSH |
| | Measurement Gates | 3 gates + 1 interface gate* |
| | Measurement Mode | Max peak, flank, j-flank, first peak, zero crossing |
| | Start | 0 to 20,000 mm, in 0.1 mm steps |
| | Width | 0 to 20,000 mm, in 0.1 mm steps |
| | Threshold | 0% to 100%, in 0.1% steps |
| | ToF Resolution | Selectable 1/0.1/0.01 mm |
| | Alarms | Positive and negative threshold, wall thickness |
| | Alarm Indication | Audio and visual indicators with vibration |
| Pulser | Gate Width Zoom | For gates 1, 2, 3 |
| | Amplitude Measurement | 0% to 110% FSH, with 0.1% resolution |
| | Measurement Rate | Equivalent to PRF |
| | Automated Calibration | <ul style="list-style-type: none"> • Velocity, Zero Offset • Straight Beam (first back wall or echo-to-echo) • Angle Beam (Soundpath or Depth) |
| | Pulser Types | <ul style="list-style-type: none"> • Square wave • Spike |
| | PRF | 10 to 2000 Hz, in 1 Hz steps |
| | Voltage | 50V - 450V, in 25V steps |
| Pulse Width | 0.5 - 20 MHz, in 0.1 MHz steps | |

| | | |
|----------------------------------|--|--|
| Pulser | Damping | 50 Ω , 400 Ω |
| | Impulse Mode | 0 to 7 |
| | Test modes | Pulse echo, dual, through transmission |
| Instrument Inputs/Outputs | USB Ports | USB C - charging, storage access USB A - flash drive |
| | Transducer connections | LEMO 00 |
| | SD Card | 32 GB |
| Environmental Ratings | IP Rating | IP 65 |
| | Operating Temperature | -10° C to 55° C |
| | Storage Temperature | -20° C to 60° C |
| | Battery Recharge Temperature | 0° C to 40° C |
| Measurements | Measurement Display Locations | 12 user defined blocks |
| | Trigonometric | Beam path, flaw depth, surface distance, min/max depth, gate2-gate1 |
| | Threshold | Echo height in %, attenuation in dB, min/max threshold |
| | Trigger | Initial pulse, IF gate |
| | Job Thickness | 0.1 to 999.9 mm, in 0.1 mm steps |
| | Refracted Angle | 0° to 90°, in 0.1° steps |
| | DAC | Point-point and parabolic curve, 2 additional curves with ± 20 dB offset, up to 15 point curve |
| | TCG | 15 point, 18 dB/10 ns slope |
| | Curved Surface Correction | Tube, bar |
| | AWS | D1.1/D1.5 |
| | DGS | Universal DGS* FlexiDGS |
| General | Overall dimensions (W x H x D) | 205 mm x 130 mm x 60 mm |
| | Construction | IP 65 Compact, Rugged Molded ABS, Soft Touch |
| | Weight With Battery | 1 kg |
| | Operation | 5 button navigation Keypad + 1 gain key, ambidextrous operation |
| | Battery Type | Single rechargeable inbuilt lithium-ion 7.4v 40W |
| | Battery Life | Upto 8 hrs |
| | Power Requirements | USB C fast charger, 100 - 240 VAC, 50-60 Hz, 1.5 A |
| DS-702 Test Details | Bump Test | - IEC:60068-2-27 |
| | Resistance to vibration Test | - IEC:60068-2-6 |
| | Tropicalisation and Humidity Test | - IEC:60068-2-30 |
| | Electromagnetic Interference (EMI)Test | - IEC:61000-4-3 |
| | Power frequency magnetic field immunity test | - IEC:61000-4-8 |
| | Equipment Protection IP 65 test | - IEC:60529 |

| | |
|-----------------------------|---|
| Warranty | 1 year |
| Standard Accessories | USB C 30W Fast Charger 32 GB SD Card Instrument Carry Case |
| Optional Accessories | Portable powerbank upto 30 hours operation <ul style="list-style-type: none">• Protective cover• Neck support strap• Wrist strap Extended warranty for additional 2 years PC communication cable ISO 22232-1 certificate |
| Optional Software | Universal DGS IF gate Video recording |



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