

D-Scan

• 701 • 705 •

		701	705
Horizontal Linearity	0.33% full screen width	●	●
Reject	50% LED warning light when activated	●	●
Waveform Smoothing	Produces a smooth signal envelope	●	●
Units	mm or inches mm, inches or time	●	●
AGC	Automatic Gain Control sets selected echo to a user defined level (10 - 90%)	●	●
DAC	Up to 10 points may be entered and used to digitally draw a DAC curve Reference -2, -6, -10, -12, -14 dB curves can be selected for JIS, ASME and EN1714 codes	●	●
AWS	Automatic defect sizing in accordance with AWS D1.1 Structural Welding Code	●	●
API	Automatic defect sizing in accordance with API 5UE	●	●
AVG/DGS	Automatic defect sizing using probe data	●	●
TCG	Time Corrected Gain 40 dB dynamic range, 30 dB per microsecond, up to 10 points for curve definition		●
A-scan Memory	800 waveforms	●	●
Panel Memory	100 stores for calibration setting	●	●
Thickness Logging	8000 readings stored in Block/Location/Number coding or alpha-numeric pre-programmed work sheets Transferable to Excel using optional SDMS	●	●
Auto-Cal	Automatic calibration with two echoes	●	●
Reference Waveform	Recalled waveform can be shown in a different colour to live waveform for direct comparison	●	●
Display Freeze	Holds current waveform on screen	●	●
Peak Memory	For echo-dynamic pattern capture	●	●
Online Help	Instant operator guidance on operation accessed from direct key	●	●
Language Support	Six user selectable languages from: English, German, French, Spanish, Dutch, Italian, Russian, Polish, Czech, Finnish & Hungarian Others available on request	●	●
Front USB	For connection to PC, keyboard & printer	●	●
Outputs	Serial interface, composite video (PAL & NTSC), analogue output for amplitude & distance updated at PRF rate Transmitter sync output	●	●
Transducer Sockets	BNC or LEMO 1 (factory option)	●	●
Battery	Lithium Ion 14.4 v 5.0 ampere hours Minimum 11 hours use, typical 15 hours, indication of battery charge Recharge time 4 hours	●	●
Charger	100 - 240 VAC, 50 - 60 Hz	●	●
Environmental	Meets IP67	●	●
Temperature Range	Operating -10 °C to 55 °C (14 °F to 131 °F) Storage -40 °C to 75 °C (40 °F to 167 °F)	●	●
Size	256 x 145 x 145 mm (10 x 5.7 x 5.7 in)	●	●
Weight	2.5 kg (5.5 lbs) with battery	●	●

High performance Digital Ultrasonic
Flaw Detectors from Silverwing (UK).



The D-SCAN 701 and 705 units are high performance digital ultrasonic flaw detectors from Silverwing UK. The latest developments in amplifier and pulser technology deliver higher levels of near surface resolution penetrating power and excellent signal to noise ratio. Typical applications are weld inspection, corrosion testing, small castings/ forgings and lamination checking.

Weld and pipe inspection are major applications for the SITESCAN series and we have therefore equipped them with the latest software tools for advanced Defect Sizing Tools as standard. The 701 and 705 have DAC, AVG, AWS and API sizing techniques. The use of integrated sizing software reduces analysis time and hence speeds inspection. Multiple standard sizing techniques are essential for service companies working to different customer standards, especially as service work becomes more international and operators are required to work to different codes.

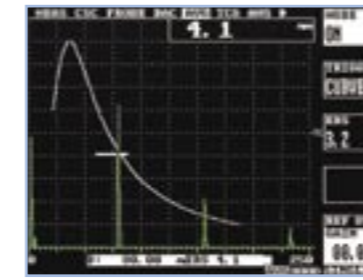
High Performance with Total Control: The D-SCAN delivers high performance and advanced features, the user interface has been designed to ensure that the D-SCAN flaw detector is easy and quick to use. The menu structure has been designed to guide the user through their task with operation quickly becoming second nature.

High Visibility Display: For any flaw detector the display is a crucial element. The D-SCAN units have a colour transfective TFT display as standard, providing high visibility at any light level. The choice of colours for menus and waveform display enhance clarity, with the LCD simulation mode giving direct sunlight readability.



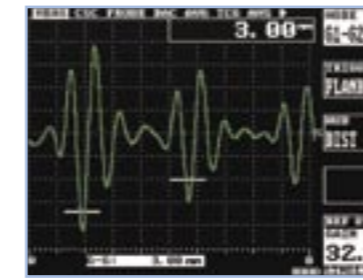
D-SCAN 701: Full Featured Broadband Flaw Detector

An enhanced broadband amplifier with all the software features required for operator efficiency and accuracy. These include standard sizing tools, advanced measurement modes, full screen waveform display, thickness reading memory and an automatic calibration feature.



D-SCAN 705: Narrow Band amplifier for optimal performance

Top of the D-SCAN range is the **D-SCAN 705**. This version includes all the software features of the 701 combined with a narrow band amplifier and TCG for more demanding ultrasonic applications. The square wave ActiveEdge™ pulser automatically optimises for each filter band selected, ensuring maximum performance.



Robust and Reliable: The D Scan series is constructed to exceptionally high standards using Xenoy plastics and sealed to IP67, giving excellent water resistance so it can withstand the tough environments in which operators work.

- 15 hour battery life
- Full screen A-scan display
- Robust, waterproof IP67 case
- Sunlight viewable colour transfective display



		701	705
Test Range	0 - 5 mm [0.2 in] up to 0-10000 [400 in] at steel velocity. Variable in sequence, 10 mm or 1 mm	●	●
Velocity	1000 - 9999 m/s	●	●
Probe Zero	0 - 999.999 us	●	●
Delay	0-10000m at steel velocity in 0.05 steps [0-400 in 0.002ins steps]	●	●
Gain	0 - 110 dB in 0.5, 2, 6, 14, 20 dB steps	●	●
Test Modes	Pulse echo and transmit-receive	●	●
Gates	Start & width adjustable over full range Amplitude 0 - 100%, 0.5% steps Visual & audible alarms Two gates Positive & negative triggering Gate 2 has selectable 0.6 second delay on alarm	●	●
Measurement Modes			
Depth	Depth & amplitude of signal in gate	●	●
Echo - Echo	Echo - Echo distance, automatic gate 2 position	●	●
Gate to Gate	Echo - Echo distance, manual gate 2 position	●	●
Trig	Trigonometric display of beam path, depth & surface distance Calculation of skip depth an curve surface compensation, X-offset for transducer	●	●
T-Min	Holds minimum thickness in depth mode	●	●
Pulsar Voltage	-200 volt peak amplitude, rise/fall time <10 ns into 50 ohm	●	●
Pulsar Width	Fixed 100 ns 30 - 250 ns linked to filter band	●	●
Pulsar Repetition Frequency	Selectable 35 - 1000 Hz, 5 Hz steps	●	●
Display	Colour transfective TFT Display area 111.4 x 83.5 mm [4.39 x 3.29 in] A-Scan area 315 x 200 max Variable brightness Sunlight viewable 8 Selectable colour schemes for A-Scan & menu	●	●
Screen Update Rate	50 or 60 Hz	●	●
Rectification	Full Wave, positive, negative, RF	●	●
Frequency Bands	Broadband 1 - 10 Mhz [-6 dB] Narrow bands at 1 Mhz, 2.20 Mhz, 5 Mhz, 10 Mhz Broadband 1.5 - 15 Mhz	●	●
Vertical Linearity	1% full screen height	●	●
Amplifier Linearity	+/- 0.1 dB	●	●