



SONATEST SITESCAN 500S

Portable broadband ultrasonic flaw detector for weld, pipe, and corrosion inspection



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Essential UT. Ready for the field. The SONATEST SITESCAN 500s is a portable broadband ultrasonic flaw detector designed as an entry-level solution for manual inspection tasks. Its 200 V spike pulser, 110 dB gain range, and full VGA display provide the essential capabilities for reliable ultrasonic flaw detection. Typical applications include weld and corrosion inspection, forgings and castings, as well as general industrial UT applications.

For different inspection requirements, the SITESCAN 500s provides integrated methods for flaw evaluation and sizing. DAC is included as standard, while Split DAC, DGS/AVG, TCG, AWS, API, and Backwall Echo Attenuation (BEA) are available as options. This allows the device to be adapted to different inspection standards and requirements.

Designed for mobile use in industrial environments, the SITESCAN 500s combines an impact-resistant housing with IP67 protection. The transfective VGA color display with adjustable brightness and nine color palettes provides good readability under varying lighting conditions.

UT-Lity Lite supports efficient management of inspection data. Calibrations, A-scans, B-scans, and thickness logs can be managed on the device and PC, while inspection data can be analyzed and exported and customized inspection reports can be created.

YOUR ADVANTAGES AT A GLANCE

Reliable entry-level UT: Broadband flaw detector with 200 V spike pulser and 110 dB gain range

Flexible flaw evaluation: DAC as standard plus optional Split DAC, DGS/AVG, TCG, AWS, API, and BEA

Wide range of applications: For welds, corrosion, forgings, castings, and general UT inspection

Rugged and mobile: Impact-resistant housing with IP67 protection for industrial use

Clear visualization: Transfective VGA display with adjustable brightness and nine color palettes

Efficient data management: Manage, analyze, export, and document inspection data with UT-Lity Lite

NORMS

DIN EN ISO 22232-1: Specifies the characterization and verification requirements for ultrasonic test instruments used in non-destructive testing.

TECHNICAL INFORMATION

DISPLAY:	Transflective VGA TFT color display, 640 × 480 px, 9 color palettes with adjustable brightness
IP RATING:	IP67
WEIGHT:	2.5 kg incl. battery
DIMENSIONS:	255 × 145 × 145 mm
OPERATING TEMPERATURE:	-10 °C to +55 °C
BATTERY LIFE:	Up to 13.5 hours
STORAGE:	4 GB
TEST RANGE:	1 – 10,000 mm
VELOCITY:	1,000 – 10,000 m/s, continuously adjustable
TIME RANGE:	0 – 1,000 µs
MEASUREMENT MODES:	7
GATES:	2
GAIN RANGE:	0 – 110 dB
PULSER VOLTAGE:	200 V, fixed
PULSE WIDTH:	50 ns
PULSE REPETITION FREQUENCY (PRF):	35 Hz to 1 kHz; external sync available
TRANSDUCER CONNECTIONS:	BNC or LEMO, factory option
EXTERNAL SYNC:	Yes
PROPORTIONAL OUTPUT:	Yes
USB CONNECTION:	Yes
FLAW SIZING METHODS AND SOFTWARE OPTIONS:	— DAC (standard) — Split DAC (option) — DGS/AVG (option) — TCG (option) — BEA (option, requires TCG) — AWS (option) — API (option) — Interface Trigger (option) — Corrosion Software (option)



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