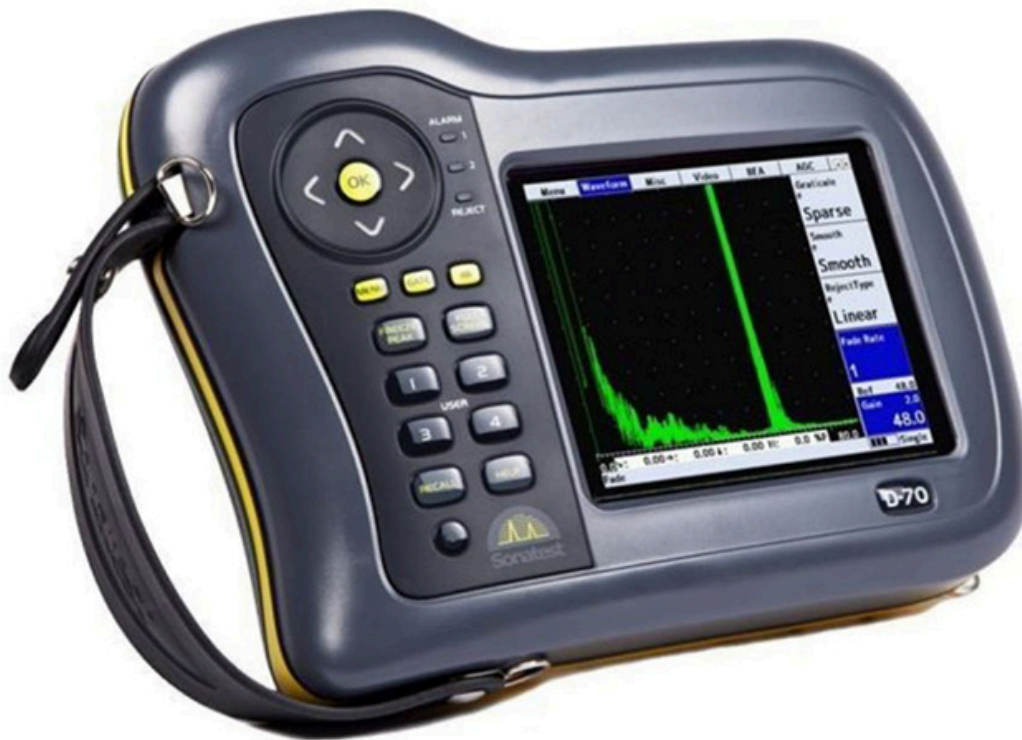


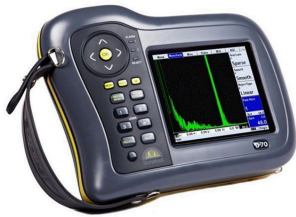
SONATEST MASTERSCAN D-70

Ultrasonic flaw detector with encoded B-scan and advanced thickness measurement for flaw and corrosion inspection



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More capabilities for weld, pipe, and corrosion inspection.

The SONATEST MASTERSCAN D-70 is a versatile ultrasonic flaw detector for demanding manual inspection tasks. In addition to conventional flaw detection, it supports encoded B-scans and advanced wall thickness measurement functions. A powerful 450 V spike and square wave pulser, high near-surface resolution, and an excellent signal-to-noise ratio support reliable flaw detection and evaluation.

Typical applications include weld, pipe, and corrosion inspection as well as the inspection of composites, bonded joints, forgings and castings, and applications in power generation including EMAT. This makes the MASTERSCAN D-70 suitable for a wide range of industrial ultrasonic inspection tasks.

Different methods for flaw evaluation and sizing are available to meet various inspection requirements. DAC is included as standard, while additional functions such as Split DAC, DGS/AVG, TCG, AWS, API, and Backwall Echo Attenuation (BEA) are available as options.

The integrated evaluation methods support efficient analysis of inspection results and inspection according to different standards and requirements. Additional functions and software options can be added as required, allowing the device to adapt flexibly to different and future inspection tasks.

The rugged device is designed for mobile use in demanding industrial environments. Its impact-resistant housing and battery life of up to 10.5 hours support extended inspections in the field. The transfective VGA color display with adjustable brightness and nine color palettes provides good readability under varying lighting conditions.

UT-Lity software enables calibrations and inspection data to be managed, analyzed, and exported both on the device and on a PC. Customizable inspection report templates additionally support efficient documentation of inspection results.

YOUR ADVANTAGES AT A GLANCE

Versatile inspection: Encoded B-scan and advanced wall thickness measurement for pipe and corrosion inspection

Reliable flaw detection: 450 V pulser, high near-surface resolution, and excellent signal-to-noise ratio

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

Wide range of applications: For welds, pipes, corrosion, composites, bonded joints, forgings, and castings

Flexible upgrades: Additional functions and software options for new inspection requirements

Rugged and mobile: Impact-resistant housing and up to 10.5 hours of battery life

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

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:	1.7 kg incl. battery
DIMENSIONS:	238 × 172 × 70 mm
OPERATING TEMPERATURE:	-10 °C to +55 °C
BATTERY LIFE:	Up to 10.5 hours
STORAGE:	4 GB
TEST RANGE:	0 – 1 mm to 0 – 20,000 mm in steel at 5,930 m/s
VELOCITY:	256 – 16,000 m/s, continuously adjustable
TIME RANGE:	0 – 1,000 µs
MEASUREMENT MODES:	7
GATES:	2
GAIN RANGE:	0 – 110 dB
PULSER VOLTAGE:	100 – 450 V, negative spike and square wave
PULSE WIDTH:	35 – 2,500 ns
PULSE REPETITION FREQUENCY (PRF):	5 Hz to 5 kHz
ENCODER CONNECTION:	LEMO Mini, 4-pin
TRANSDUCER CONNECTIONS:	BNC or LEMO, factory option
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) — Dryscan (option)



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