

SONATEST MASTERSCAN 700M

High end narrowband flaw detector with a full VGA display, sync and proportional outputs, sync input and a spike and square pulser



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The Masterscan name has always assured the technician of robust instrument construction combined with exceptional performance. Features can be added and upgrades performed in the working environment, reducing downtime and increasing working flexibility. High levels of near surface resolution, penetrating power (450V pulser - square and spike) and excellent signal to noise ratio are key functions in the Masterscan range.

Typical applications are Weld Fabrication, Corrosion Detection, Composite Inspection, Bond Testing, Forgings and Castings, Power Generation (including EMATS) and general UT inspection.

Reliable, Rugged & Robust

An instrument's ability to perform in harsh environments with proven reliability is an important aspect of flaw detector ownership and this is enhanced by the Masterscan's outstanding battery performance which is up to 13.5 hours from full charge. The Masterscan's enclosure is constructed using automotive grade impact resistant materials, offering excellent water resistance.

Explosive Testing MIL810-G standards have been passed, together with environmental testing which has confirmed the instrument fully functioning at temperatures above 55°C. The Masterscan 700m has a colour transfective VGA display and maximum readability is achieved through adjustable brightness and the choice of 9 colour palettes, including black-on-white LCD emulation mode.

Advanced Defect Sizing Tools as Standard

Weld and pipe inspection are major applications for the Masterscan series and they are equipped with the latest software tools for defect sizing. The use of integrated sizing software reduces analysis time and 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.

YOUR ADVANTAGES AT A GLANCE

UT-Lity Lite Data Management Software | Key Features:

Manage calibrations and scans: Manage calibrations View, move and manage calibrations, A-Scans, B-Scans and thickness logs on the device or PC

Custom inspection report templates: Create customised inspection report templates and export printable PDF documents

Easy cut-and-paste export: Copy data into other applications via simple cut-and-paste

File management on PC & Device: Load, store and organise files on both PC and connected flaw detector

Thickness data export: Save, analyse, colour-code and export thickness logging data to spreadsheets or asset management software

Always up to date: Update device settings, firmware and software as new versions become available

TECHNICAL INFORMATION

DISPLAY:	Colour Transflective VGA TFT-Display (640 × 480). A-Scan Area: 400 × 510 pixels (normal), 460 × 620 (FS). Colours: 9 colour options with variable brightness.
IP RATING:	IP 67
WEIGHT:	2.5 kg (battery included)
DIMENSIONS:	255 mm (L) × 145 mm (H) × 145 mm (W)
TEMPERATURE:	-10 °C to +55 °C
OPERATION:	On battery (~13.5 h)
STORAGE:	4 GB storage available for A-scans, panels, T-logs, B-logs etc. 450,000 Panels, 200,000 A-Logs, 300,000 B-Charts, 440,000 T-Logs
TEST RANGE:	0-1 mm up to 0-20,000 mm in steel at 5930 m/s
VELOCITY:	256 - 16000 m/s continuously variable
PROBE:	0 to 1000 µs
GAIN:	0 to 110dB adjustable in 0.1, 0.5, 1, 2, 6, 14 and 20dB steps
SIZING TECHNIQUES AND SOFTWARE OPTIONS INCLUDE:	— DAC (Standard) — Split DAC & DGS/AVG (Option) — TCG (Option) — Backwall Echo Attenuation (BEA) Option (requires TCG) — AWS (Option) — AVG/DGS (Option) — API (Option) — Interface Trigger (Option) — Corrosion Software (Option) — Dryscan Function (Option)



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