



SONATEST PRODUCT FAMILY

Portable ultrasonic testing – reliable, precise, and built for the field



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Ultrasonic inspection you can trust — anywhere, anytime.

Since 1958, SONATEST has been a global leader in ultrasonic inspection technology. Trusted by companies such as Shell, Airbus, Siemens and ArcelorMittal, the SONATEST product family delivers robust hardware, high-end signal performance and intuitive user interfaces for fast, confident decision-making in any environment.

Through its partnership with FOERSTER, these advanced solutions complement and expand FOERSTER's mobile ultrasonic portfolio, offering customers an even broader range of portable NDT capabilities and expert application support.

From the innovative WAVE platform with interactive scan visualisation to the proven Masterscan and Sitiescan series, SONATEST instruments support everything from standard weld and corrosion testing to complex geometries and composite structures. Designed around the values of Simplicity, Capability and Reliability, the portfolio empowers technicians with powerful tools, consistent performance and efficient workflows across all industries and applications.

YOUR ADVANTAGES AT A GLANCE

High signal quality & penetration: High signal quality and strong penetration for reliable flaw detection

Intuitive interface: Intuitive, technician-focused interfaces for fast workflows

Rugged field construction: Rugged, field-proven construction for harsh environments

Long battery life: Long battery life for full-day autonomous operation

Comprehensive sizing tools: Comprehensive sizing tools and inspection software options

UT-Lity software: UT-Lity software for data handling, reporting and device management

Wide range of applications: Suitable for weld inspection, corrosion assessment, castings, forgings, composites and general UT

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



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

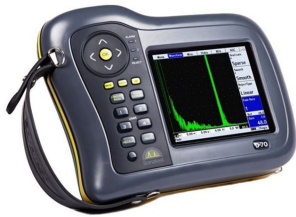
Always up to date: Update device settings, firmware and software as new versions become available

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)

SONATEST MASTERSCAN D-70

Robust ultrasonic flaw detector with exceptional performance and proven reliability for weld and pipe inspection applications and more



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 10.5 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 D-70 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 D-70 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 & scans: 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:	1,7 kg (battery included)
DIMENSIONS:	238 mm (L) × 172 mm (H) × 70 mm (W)
TEMPERATURE:	-10 °C to +55 °C
OPERATION:	On battery (~10.5 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:	Zero 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)

SONATEST SITESCAN 500S

Portable entry level broadband flaw detector with a full VGA display, sync and proportional outputs and a 50nS (Spike) 200V Pulser



The Sonatest SITESCAN Flaw Detectors have always meant highly reliable, technician focused flaw detection equipment and the SITESCAN 500s builds on that tradition. It offers end users an entry level broadband flaw detector with a full VGA display, a 50nS (Spike) 200V Pulser with 0.5dB gain resolution.

Typical applications are Weld Fabrication, Corrosion Detection, Forgings & Castings 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 outstanding battery performance of the SITESCAN 500s which is up to 13.5 hours from full charge. The SITESCAN 500s enclosure is constructed using automotive grade impact resistant materials, offering excellent water resistance.

Environmental testing has confirmed the instrument is fully functioning at temperatures above 55°C. The SITESCAN 500s has a colour transfective VGA display, providing high visibility in any lighting conditions. Maximum readability is achieved through adjustable brightness and the choice of 9 colour palettes, including a black-on-white LCD emulation mode.

Advanced Defect Sizing Tools as Standard

Weld and pipe inspection are major applications for the SITESCAN 500s 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 & scans: 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

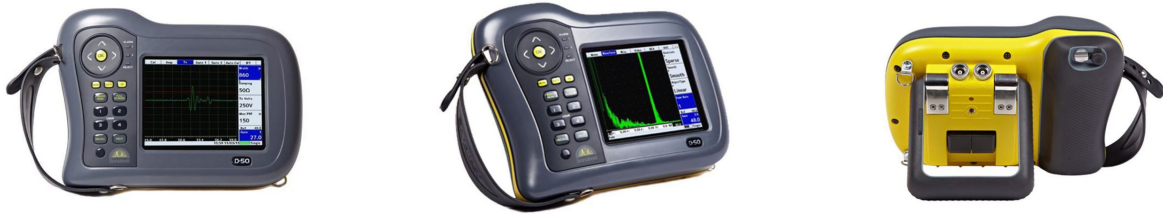
Always up to date: Update device settings, firmware and software as new versions become available

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:	1 mm to 10,000 mm
VELOCITY:	1000 - 10000 m/s continuously variable
PROBE:	0 to 1000 µs
GAIN:	0 to 110dB adjustable in 0.5, 1, 2, 6, 10, 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)

SONATEST SITESCAN D-50

Portable entry level broadband flaw detector with a full VGA display and a 50nS (Spike) 200V Pulser with 0.5dB gain resolution



The SONATEST SITESCAN Flaw Detectors have always meant highly reliable, technician focused flaw detection equipment and the SITESCAN D-50 builds on that tradition. It offers end users an entry level broadband flaw detector in the popular and portable casing of the established D-Series; with a full VGA display, a 50nS (Spike) 200V, a Pulser 0.5dB gain resolution and an optional rubber boot.

Typical applications are Weld Fabrication, Corrosion Detection, Forgings & Castings 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 SITESCAN D-50's outstanding battery performance which is up to 10.5 hours from full charge. The SITESCAN D-50 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 SITESCAN D-50 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 SITESCAN D-50 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 & scans: 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

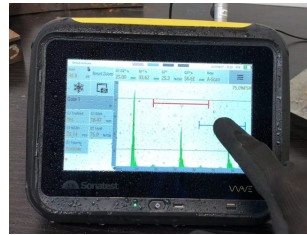
Always up to date: Update device settings, firmware and software as new versions become available

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:	1,7 kg (battery included)
DIMENSIONS:	238 mm (L) × 172 mm (H) × 70 mm (W)
TEMPERATURE:	-10 °C to +55 °C
OPERATION:	On battery (~10.5 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:	1 mm to 10,000 mm
VELOCITY:	1000 - 10000 m/s continuously variable
PROBE:	0 to 1000 µs
GAIN:	0 to 110dB adjustable in 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)

SONATEST WAVE

Portable ultrasonic flaw detector for non-destructive testing of complex structures, weld inspections and more



Next generation technology at your fingertips. The SONATEST WAVE integrates the latest technologies available in order to create a revolution in the ultrasonic non-destructive testing equipment market. Not only is it innovative, but the customizable interface also optimizes the daily workflow, and a unique and embedded interactive scan plan, with ray-tracing capability, simulation tools and CAD import capability, consolidates your results. Its wifi capability allows you to access it anywhere in the field, eases data transfer, application installation and manages calibration date and software version.

Mitigate false calls with the new WAVE Interactive Scan Plan

The WAVE Interactive Scan Plan has been developed to ease diagnostics on the inspected part. The scan plan can reproduce complex geometries such as curved surfaces and T-Joints. Combined with a real-time Raytracer, this unique feature facilitates the distinction between a real flaw and a geometrical indication, thus avoiding unnecessary repair.

Manage Your Wave with the Wave Companion

The WAVE Companion software offers an environment where dedicated predefined applications setups are created and uploaded to WAVE platform.

Once created, the new app setups are transferred and installed on the unit via wired (USB-C / ethernet) or wireless network. The default app allows access to all functionalities and features where the user can modify the entire settings.

Import Custom Parts

The WAVE can import a custom part in the interactive scan plan. This feature enables the user to visualize sound propagation in complex geometries. All the benefit of the Interactive Scan Plan remains with the addition of removing the limitations that come with predefined parts.

Application Concept

The WAVE application concept combines conformity and performance which allows the operator to customize the user interface according to their specific procedure. The intuitive user interface with an easy to use display will guarantee workflow optimization as well as preventing potential operational errors.

WAVE UTouch Technology

The SONATEST UTouch Technology allows your device to operate in the same way as a mobile phone. Combined with rugged components and an intelligent algorithm which makes the distinction between ultrasonic couplant and finger.

YOUR ADVANTAGES AT A GLANCE

Interactive Scan Plan

Application based concept (up to 50 Apps)

High processing power

Intelligent touch screen

Advanced diagnostic tools

Easy to use

Rugged components for harsh conditions

TECHNICAL INFORMATION

DISPLAY:	7.0" Multi-touch LCD TFT, 1024 × 600, readable in sunlight Touch Panel Sensitivity mode switch (Glove/Normal)
IP RATING:	IP 67
WEIGHT:	1,7 kg (battery included)
DIMENSIONS:	222 mm (L) × 172 mm (W) × 66mm (H)
TEMPERATURE:	-10 °C to +45 °C
OPERATION:	On battery (~10 h) or external power
STORAGE:	16 GB
UT PORTS:	1 TX/RC – 1 RX
UT CONNECTORS:	LEMO 1 or BNC
PULSER TYPE:	Square Wave (negative pulse)
PULSE WIDTH:	Adjustable – 50 ns to 1 us

foerstergroup.com



The FOERSTER Group is represented by subsidiaries and representatives in over 60 countries worldwide. You can find a complete overview on our website.

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