

WAVE - Interactive Flaw Detector

Ultrasonic NDT Reinvented

Interactive Flaw Detector

Next generation technology at your fingertips

What if you could tailor the settings on your UT device and alter it to your own process and people's needs? An instrument where all the useful parameters are pre-set and available in less than two clicks? Now you can.

Introducing **WAVE** by Sonatest. It 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 customisable interface also optimises the daily workflow, and a unique and embedded interactive scan plan, with ray-tracing capability and simulation tools, 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.

Simplicity | Capability | Reliability

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 couplant and finger, the Sonatest **WAVE** is the first **true** industrial touch-screen device on the market.




Reach performance & conformity with the Wave Application Concept

The **WAVE** Application Concept combines conformity and performance allowing the operator to customise the user interface according to his/her specific procedure. A lean manufacturing philosophy means less training and long-term financial benefits. The intuitive user interface with an easy to use display will guarantee workflow optimisation as well as preventing potential operational errors.

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WAVE targeted industries

-  Aerospace
-  Automotive
-  Manufacturing
-  Forging
-  Power Generation
-  Oil and Gas



The **WAVE** ultrasonic flaw detector innovative solution is suitable for a wide range of industrial applications from manufacturing to service engineering.

Find out more on how WAVE can bring value to your quality control process at sonatest.com/wave

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|------------------------------|---------------------------------|----------------------------------|
| Wave Concept | Wave Applications | Up to 50 Apps |
| | Wave UTouch Technology | P-CAP Multi Touch |
| Interactive Scan plan | Crown and Root Geometries | Yes |
| | Weld Overlay | Yes |
| | TKY/ Nozzle/ Flange Geometries | Yes |
| | Curved Surface | Yes |
| | Live Raytracer | Yes |
| | Projected A-Scan | Yes |
| | True Depth on Complex Shapes | Yes |
| Measurements | Gates | 4 |
| | DAC/Split DAC | Standard |
| | TCG | Standard |
| | AVG/DGS | Standard |
| | AWS | Standard |
| | API | Standard |
| | Curved Surface Correction (CSC) | Standard |
| | TKY and Complex Shapes | Standard |
| Transmitter | PRF | 1500 |
| | Pulser (Voltage) | 100 to 500 V |
| Receiver | Dynamic Range | 120 dB |
| | Bandwidth | 0.2 to 20 MHz |
| | Filters | 20 filters |
| | Signal Averaging | Yes |
| General | Battery Life | 10 Hours |
| | Display Size (Resolution) | 7" wide (1024 x 600) |
| | Dimensions mm (in) | 222 x 174 x 63 (8.7 x 6.8 x 2.5) |
| | Weight kg (lb) | 1,7 (3.7) |
| | IP Rating (Design) | IP 67 |
| | Operation Temperature | -10°C to 45°C |
| | WiFi | Yes |
| | Speaker and Audio Recording | Yes |



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