



F2

ULTRASONIC QUALITY INSPECTION PLATFORM

F2 is an ultrasonic device designed for NDE and quality control for various applications, including resistance spot welds, and adhesive joints. Using the unique technology of multi-channel ultrasonic matrix arrays, this portable and simple-in-operation device is capable of producing internal ultrasonic C-scan images of defects and structures.

Our algorithms evaluate the quality determining features that can be compared to predefined specifications. To further improve the operator's experience, our software assists in making decisions in automatic or semi-automatic mode, guides through the inspection routines with easy to understand graphics, stores the record of the inspected parts and integrates into a larger infrastructure with centralized inspection planning and reporting.

Features

The F2 Platform is configurable as:

- Resistance Spot Weld Analyzer (RSWA)
- Adhesive Bonding Inspection System (ABIS)

The built-in electronics supports:

- Probes with built in identification system
- Unrestricted matrix element counts
- Replaceable probe cables
- Single-frame and continuous live data acquisition modes

The infrastructure solutions supplied with the platform include: planning and managing the routine inspections, data synchronization, reporting, and integration with existing customer systems

Applications

- *RSWA Mode:* 2T and 3T welded stacks
- *ABIS Mode:* Adhesion bonded stacks
- Steel and Aluminum
- 0.6 – 2.4 mm plate thicknesses
- Bare, coated, and painted

Specifications

Processor

- Apollo Lake Intel Pentium N4200 Quad Core, 1.1 GHz, up to 2.5 GHz

Display

- 10.1" IPS panel, 1920 × 1200
- Resistive touch screen
- Replaceable screen protector

Memory

- 4 GB DDR3L

Storage

- 256 GB SSD

Communications

- WLAN 802.11 a/b/g/n/ac
- Bluetooth®

External Ports

- 2 × USB 2.0 ■ HDMI ■ DC-In

Power

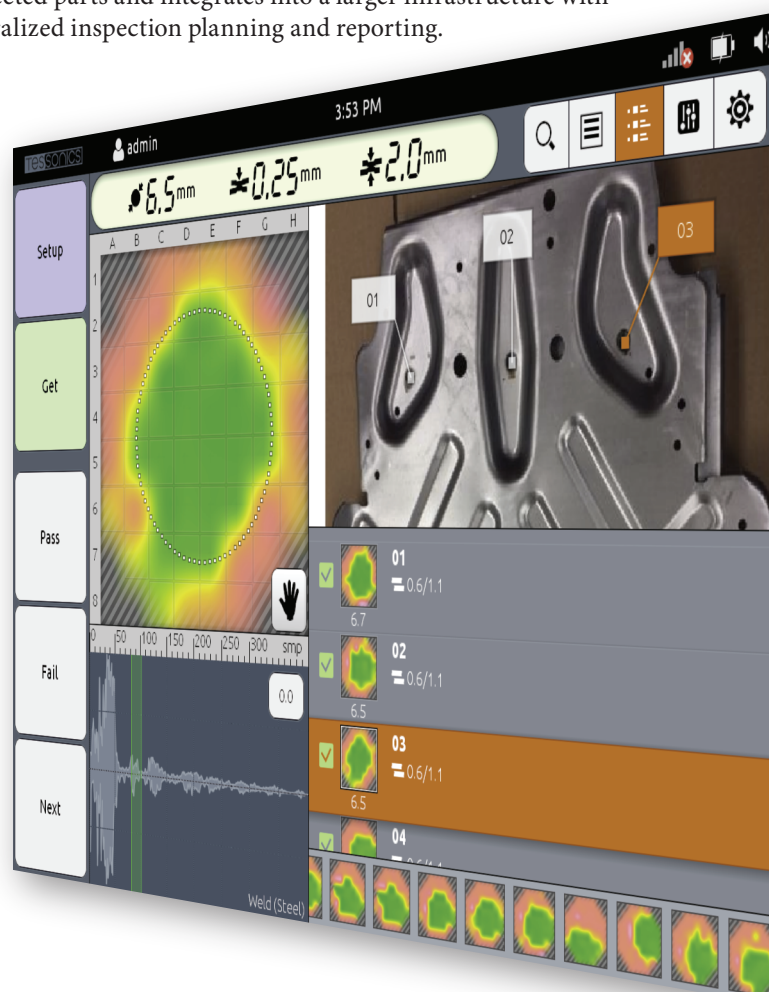
- 2 × Smart Li-ion batteries, 14.4 V, 49 Wh
- Average battery run time: 9–12 hours
- DC adapter: 100–240 V, 65 W

Temperature Range

- Operational: 5° – 40° C (41° – 104° F)
- Storage: -20° – 60° C (-4° – 140° F)

Mechanical

- Weight with batteries: 2.3 kg (5 lb)
- Dimensions: 27.6×22×57 cm (10.9×8.6×2.3 in)
- Adjustable stand
- Machined aluminum enclosure



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