

**NDT1  
KRAFT**

**ndtone.com**



## **RSWA F2**

Ultrasonic quality  
inspection platform

RSWA F2 is an ultrasonic device designed for non-destructive evaluation and quality inspection for various applications, such as spot welds and adhesive joints testing. RSWA F2 is a result of the systematic advanced development of the field-proven and successful RSWA F1 from Tessonics. F2 device is 50% lighter and thinner and provides unique ease of use due to the high-resolution 10.1" display and the possibility for wireless connection to new Tessonics Data Service.

The Tessonics Data Service (TDS) is a data management software that provides the possibility to manage all connected RSWA F2 instruments and to keep software revisions up-to-date. Additionally, measurement data can be made available – almost in real-time – to any user within a network and appropriate authorization. For this, no additional software is required, the user can directly access data with every internet capable device.

Together with the RSWA F2, a new and unique transducer technology is introduced. While for comparable instruments on the market the complete transducer has to be exchanged in case of a defect cable, cables can be replaced on RSWA F2 transducers separately which reduces maintenance costs significantly.



The unique technology of multi-channel matrix arrays allows the portable and ease to use device to produce internal ultrasonic C-scan images of defects and structures. Tessonics algorithms evaluate the quality determining features that can be compared to predefined specifications. To further improve the operator's experience, the software assists in making decisions in automatic or semi-automatic mode, guides through the inspection routines with intuitive graphics, saves the record of the inspected parts and integrates into a large 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:

- transducers with built-in identification system
- unrestricted matrix element count
- single-frame and continuous data acquisition modes

## New transducer technology:

- standard 52-element transducer
- new 120-element with 15 mm diameter coverage
- new pencil probe with 52 elements and 16 mm maximum housing diameter for hard-to-reach places
- unique technology to replace transducer cables in case of damage

## Applications

- RSWA-Mode: 2T and 3T (2 & 3 plates) stack
- ABIS-Mode: glued stacks
- Steel and Aluminum
- 0.6 – 2.4 mm plate thickness
- 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 x 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 x USB 2.0
- HDMI
- DC-In

### Power

- 2 x 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 x 22 x 57 cm (10.9 x 8.6 x 2.3 in)
- Adjustable stand
- Machined aluminum enclosure