

NextSPOT 300

Spot Weld Phased Array Ultrasonic Flaw
Detector



The Ultimate Flexible Ultrasonic Flaw Spot Weld Detector



Overview

NextSPOT 300 ultrasonic flaw detector will handle all your spots weld NDT needs, whether it is in production lines or in field environments. With all the same benefits, features, and functions as the **NextSPOT 600**, minus the monitor, the **NextSPOT 300** gives you great flexibility and portability by allowing you to plug into any PC laptop to convert into a fully functional **NextSPOT 600**. collaboration with varies computing systems.



Compact Yet Powerful

NextSPOT 300 is compact but it has the same ultrasonic specifications and inspection capabilities as well as that of **NextSPOT 600**.



Flexible For Varies Applications

NextSPOT 300 is flexible for varies utility scenes and it can be embedded and integrated with the unique inspection systems that tailor-made by the end users.



Solution for Big Data Analysis and Smart Spotwelding Inspections

NextSPOT 300's database technologies allow efficient data uploading to NAS servers for big data analysis. The analysis of spotwelding quality inspection data can be linked with the welding process data records of every single welding Spots, therefore the optimizations of the welding process setting willbe supported with huge volume of inspection data.



Tough and Rugged

NextSPOT 300 is designed with 360° shielding, it adopts an one-piece aluminum alloy and covered with rubber protections. It is rugged, lightweight, and compact. The total weight of the body is about 2 kg.



Low Power Consumption

NextSPOT 300 is efficient and low power consumption as it get its power from the PC laptop or a computer workstation via USB 3.0 cable.



NextSOFT Studio

Do note that our **NextSPOT 300** comes with the same full version of our **NextSPOT 600** software that includes the following:

- **NextSOFT Studio Software**
- **NextNAS Online Spot Weld Management Tool**

Key Features

Portable - Flexible - Convenient

Multi - Channel Phased Array System

Real - Time Detect

Low Power Consumption

Complete Spot Weld Management Software Solution



NextSOFT Studio Admin

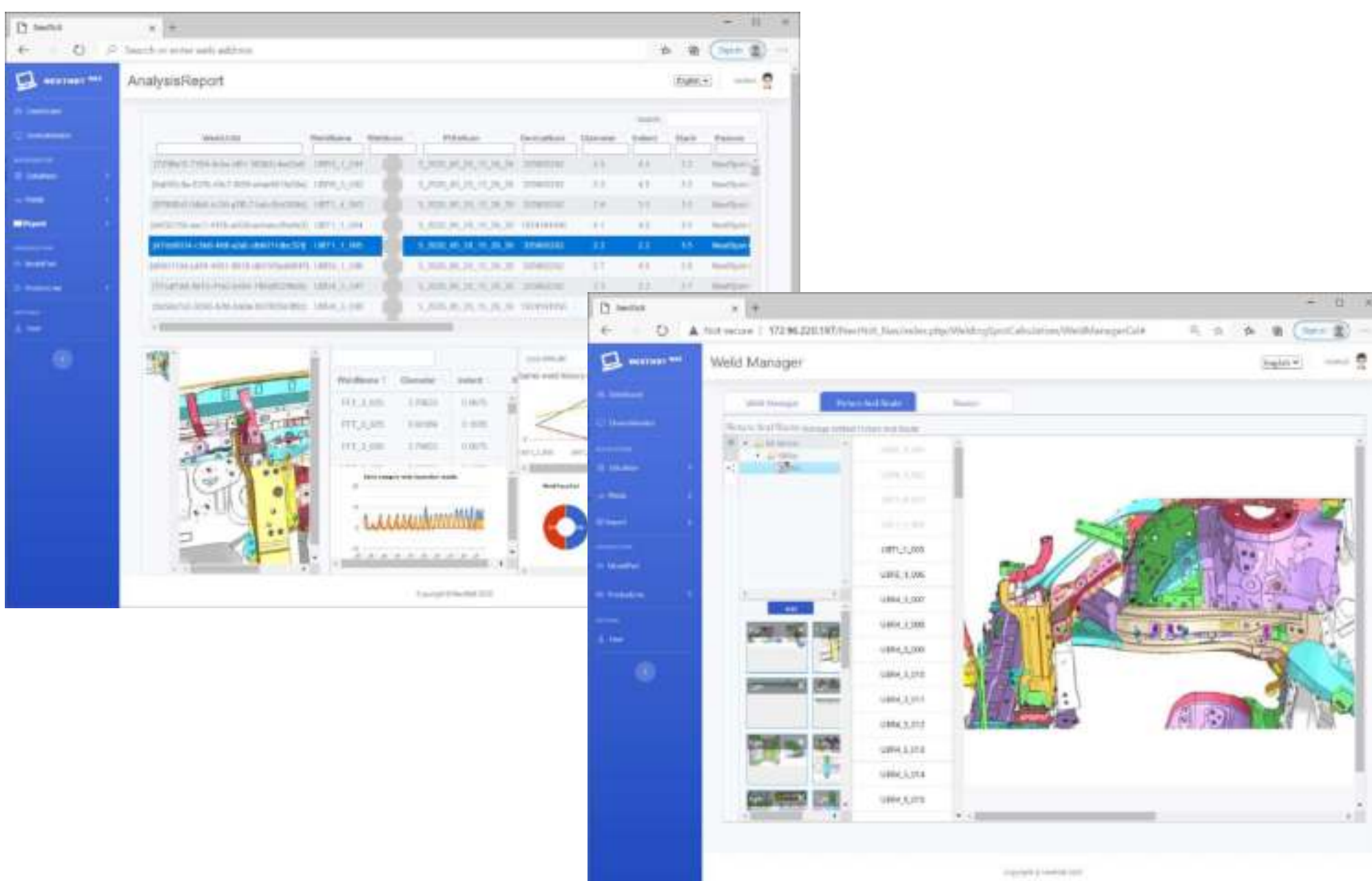
The admin version can upload any testing required part images into the system. The system can then create visual labels on exactly where and what to test, and also setup the testing sequences. All inspection points' results will then be individually captured and logged into a database for further statistical evaluation.



NextNAS - An online browser-based spot weld management analyzer tool

Introducing NextNAS...An online browser-based spot weld management analyzer tool where your data can be hosted online and share globally. Here you can customize your dashboard, create custom reports, drill down to individual spot weld detail with full graphs and graphics. To learn more, please contact your local representative for a full demonstration.

- Dashboard
- Detector Monitor
- Database Management
- Report Manager
- Spot Weld Manager
- User Manager
- Many More ...



NextSOFT Studio Cloud - (Optional)

Our NextSOFT Studio Cloud is a cloud data management tool that can synchronize data among multiple units of NextSPOT 300 devices via the cloud to a single repository location.

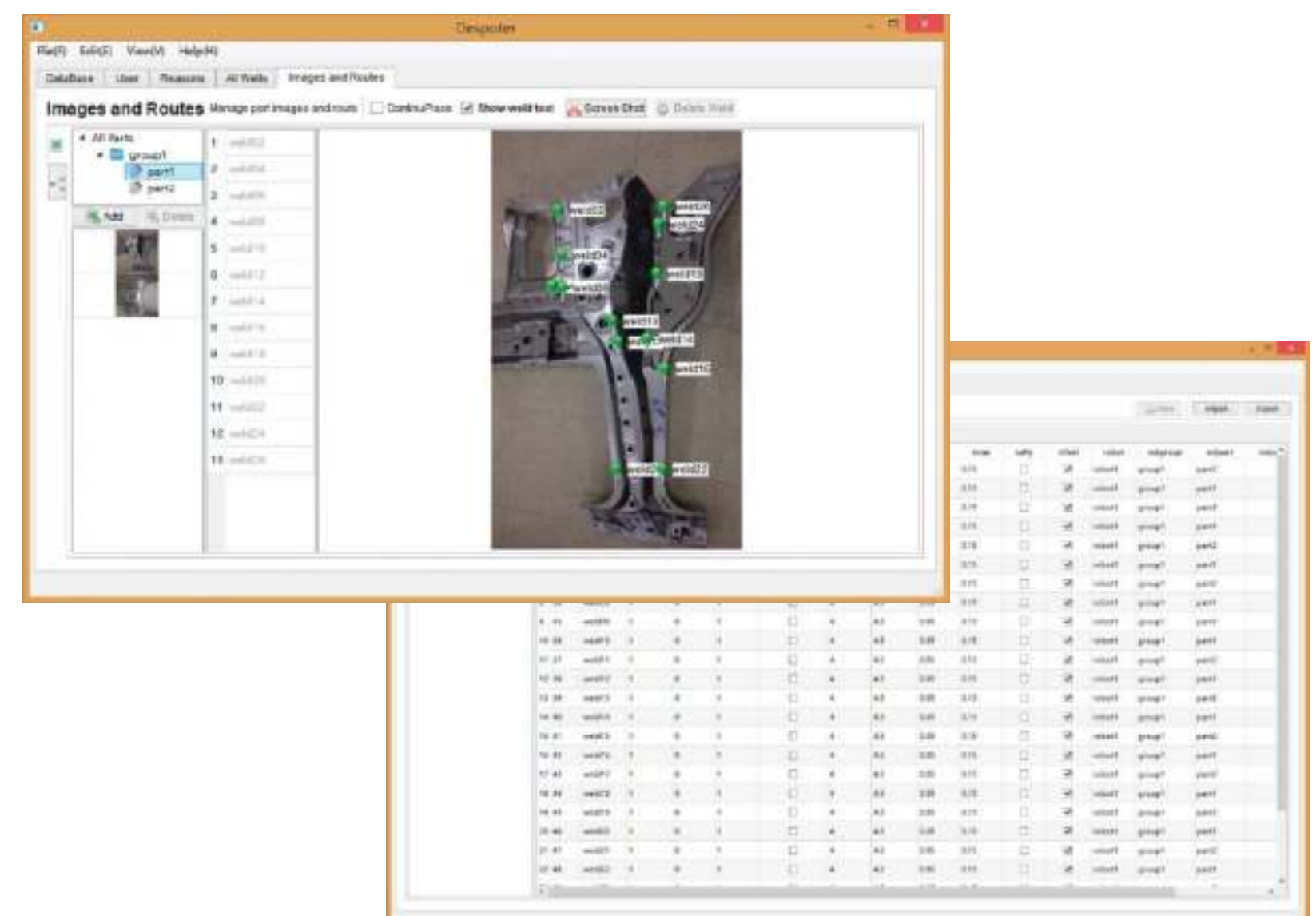
In order to manage a full team of inspectors in a production line and/or in a field environment that meet strict quality NDT management requirements, all data captured by each NextSPOT 300 unit can be individually upload data to a cloud based data repository along with information such as inspection plans, test location, test settings, and etc.

Once the data are in the cloud repository, they can be downloaded into a remote management system off-site for further analysis.



NextSOFT Studio

Each NextSPOT 300 comes with the standard version of the our NextSOFT Analyser System, which works well as an independent stand-alone spot weld inspector. But often NDT inspections require to function as a group or a team that is supervised by management. The NextSOFT Studio Admin (software) provides this function.



Specification

Housing

Overall Dimensions	240.6 mm x 158.6 mm x 50 mm
Weight	2.0 kg
IP	IP 54
Control Device	Remote Control, Mouse or Touch Screen of PC
Probe	-10°-45°C (14°-113°F)

Environmental Specifications

Operating temperature	-10°C to 50°C (14°F to 122°F)
Storage Temperature	-10°C to 50°C (14°F to 122°F)
Relative Humidity	Max. 70% RH at 45°C Noncondensing

Data & Views

Display	A-scan, C-scan
Welding Nugget	Real-time welding nugget diameter measurement
Indentation	Real-time detect, Smart average
Stack of Welding Joint	Real-time detect, Smart average
Data Synchronism	USB; NAS (Optional)

Ultrasound Specifications

Number of Channels/Elements	64 Channels / 52 Elements
Voltage	50 V
Pulse Shape	Negative Square Wave
Initial Pulse Rise Time	< 2.5 ns
Damping	50 ohm
Thickness Measuring Range	0.5 - 9 mm
Velocity Range	2000 - 8000 m/s
Probe Delay	2 - 8 us
Frequency (Center Frequency)	1 Mhz - 25 Mhz (16 Mhz)
Gain	40 dB
Sampling	12 bit 100 MSPS

Note: We reserve the rights to technical modifications without prior notice. Always refer to our website for the latest info.

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