Z-CHECK CORPORATION

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NEXTNDT ™

NextNDT Technology, inc.

NextSpot is more than an independent inspector. With our cloud data managment tool, it can group, manage, and synchronize data among multiple detectors。

This include Server（Despoter、Respoter，NAS) and many workstation

ULTRASONIC NDT INSTRUMENTS

RESISTANCE SPOT WELD DETECTOR

- **Database Generation**
  Despoter can produces database generation from all spot-weld data captures.
- **Statistical Analyzer**
  Respoter can produces statistical analysis for uploaded testing data by detection instrument.
- **Cloud Synchronization Technology**
  Spotscan initiates cloud synchronization database on all spot-weld data captures, a key to a complete version update, inspection data NAS synchronization.

NAS

Nextspot 600/300
Nextspot 600/300
Spotscan 600/300
PC mobile
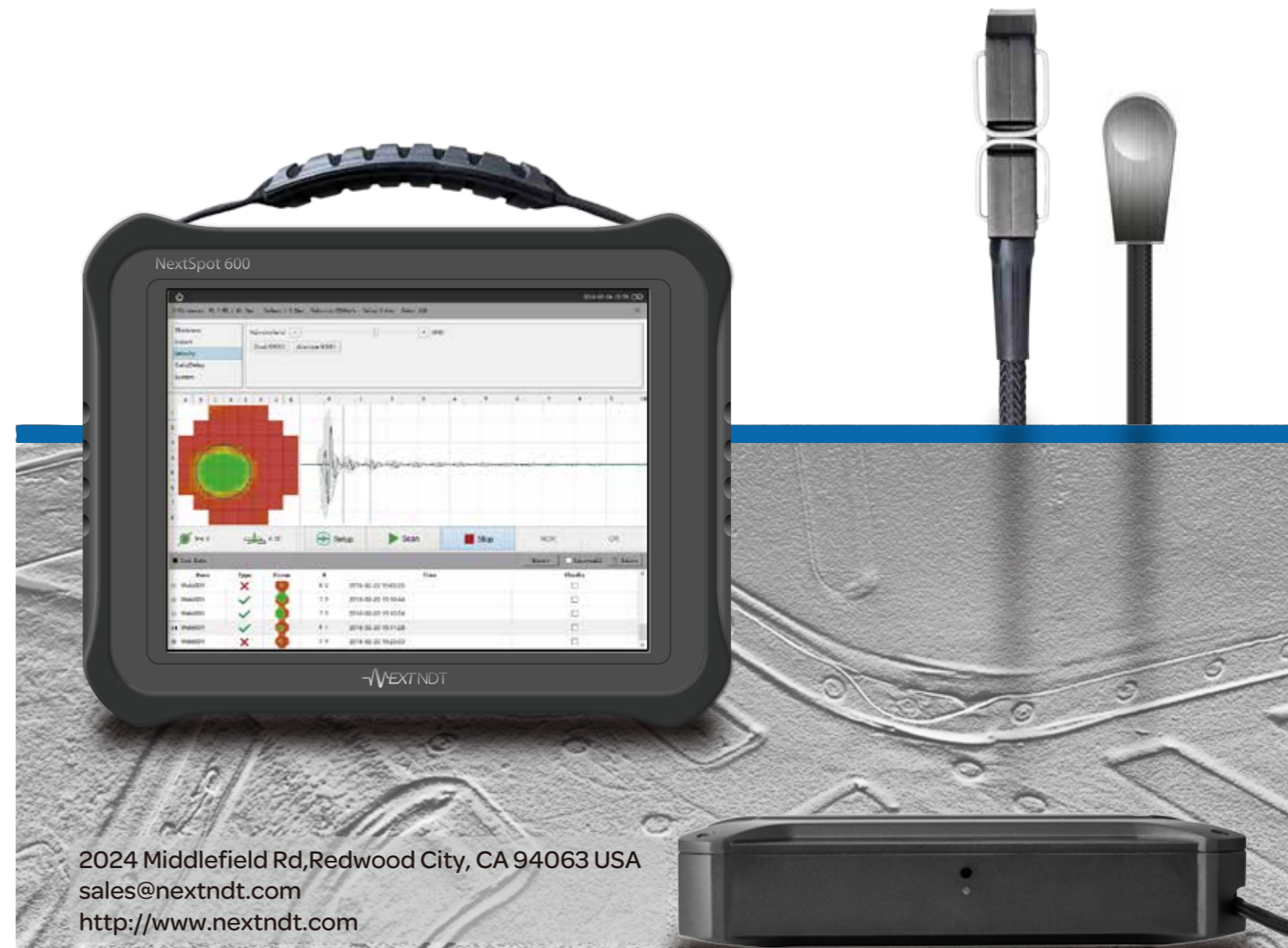**Ds** Despoter **Rp** Respoter
PC
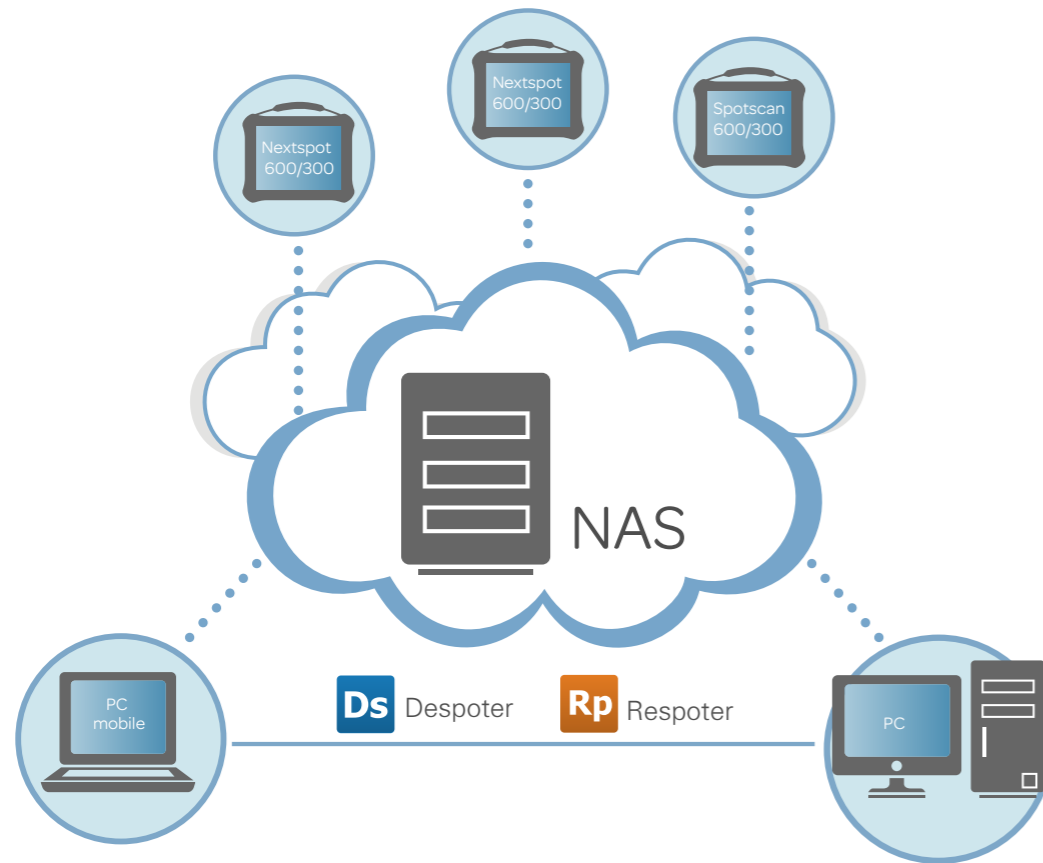
NextSoft Studio Cloud - (Optional)

Our NextSoft Studio Cloud is a cloud data managment tool that can synchronize data among multiple units of NextSpot 600 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 600 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.

NextSpot 600

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sales@nextndt.com
http://www.nextndt.com

NextSpot 600
Spot Weld UltraSonic Detector

- Real-Time Detect
- Multi-Channel System
- 10.4" Touchscreen
- Cloud Data Management

Key Features

- **Linux Operation Platform - Safe, Reliable and Stable**

  The NextSpot 600 with embedded Linux operating system and database technology are more safe and reliable. This makes the instrument runs more smoothly, and with10 seconds starting up time.

- **10.4 Inch Touch Screen with XGA Wide Angle of Resistance - Easy to Use**

  Compared with the traditional instruments, the new button-less 10.4 inch full touch screen design is more convenient and easy to operate.

- **All Aluminum Alloy Shell - Flexible**

  All aluminum alloy shell, 360°shielding; By adopting an one-piece aluminum alloy rubber coating outer case, the unit is both compact and rugged. The total unit-weight is about 3kg.

- **64 Channels, 25 MHz Bandwidth, 400 MHz/12 bit DP - Accurate Measurement**

  NextSpot 600 adopts a parallel 64 channels design, 25 MHz analog bandwidth ,12 bit DP; Therefore, providing the most accurate measurement of welding nuggets & indentations.

- **ARM Technology - Ultra Long Standby Operation**

  With ARM chips and a fanless design, it can work normally under -10℃~50℃. A single charge can sustain 8 working hours and only needs 3 hours to fully recharge its battery.

Transducers
Spot Weld UltraSonic Transducers

Standard (1.25 X 8)

- **Standard - Parameters**

  Ultrasonic Matrix Transducer
  - 52 Channels
  - Matrix Diameter: 10 mm
  - Frequency: 15 MHz
  - Stainless Steel Housing
  - Hard Delay Line

  Cabling
  - Length: 2 meters
  - 52 Coaxial Channels
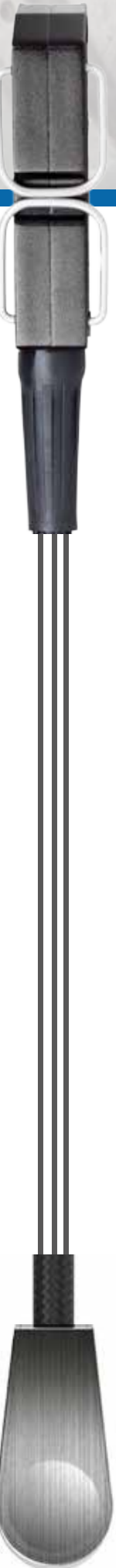 - Protective Shell

Large (2.5 X 8)

- **Large - Parameters**

  Ultrasonic Matrix Transducer
  - 52 Channels
  - Matrix Diameter: 16 mm
  - Frequency: 15 MHz
  - Stainless Steel Housing
  - Hard Delay Line

  Cabling
  - Length: 2 meters
  - 52 Coaxial Channels
  - Protective Shell

NextSpot 300
Spot Weld UltraSonic Detector - USB

*Computer sold seperately

- **Real-Time Detect**
- **Portable & Convenient**
- **Low Power Consumption**

- **Real-Time Imaging on Spot-Welds**
  A/C – scan, real-time display

- **Flexible and Expanded Testing Methods**
  It can support single element probe testing , PA imaging testing as well as various other non-ultrasonic data records like chisel inspection, visual inspection, and etc.

Key Features

- **All Aluminum Alloy Shell - Flexible**
  NextSpot 300 is constructed with an all aluminum alloy shell with 360° shielding. It adopts a one-piece aluminum alloy and therefore makes it rugged, lightweight, and compact.

- **Compact yet Powerful**

  Nextspot 300 has is the same full specifications as the 600, minus the display, and the unit is powered by connecting it to your PC or laptop.
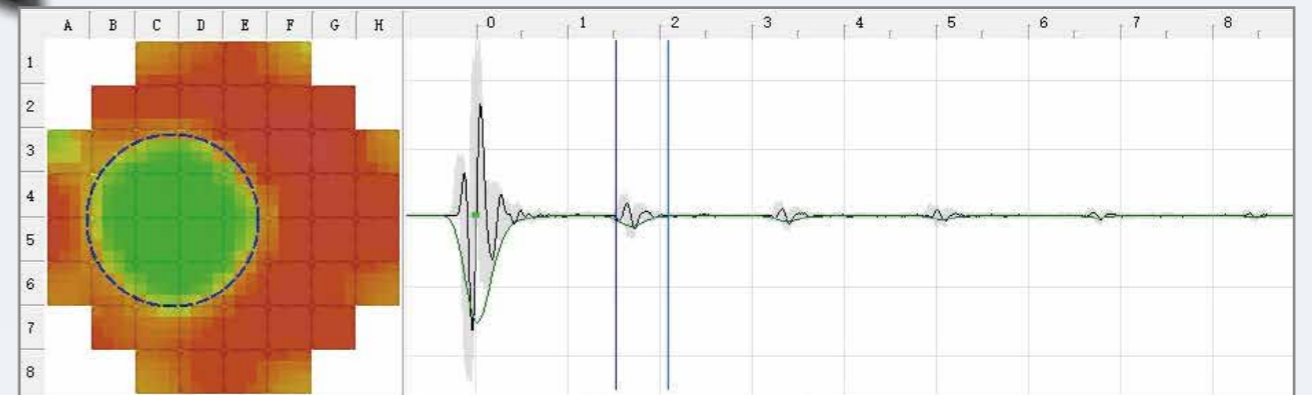
- **Lower Power Consumption**
  Nextspot 300 is powered by your PC or laptop via USB 3.0.

NextSpot 300 -Specification

Housing

Overall Dimensions	240.6 mm × 158.6 mm × 50 mm
Weight	2.0 kg (4.4 lb)
IP	IP54
Control Device	Remote Control, Mouse
Probe	D-sub68 - Matrix
Probe line	~2m
Remote Interface	Hi-Speed USB 3.0

Environmental Specifications

Operating Temperature	-10°C to 50°C (14°F to 122°F)
Storage Temperature	-20°C to 60°C (-4°F to 140°F)
Relative Humidity	Max. 70% RH at 45°C noncondensing

Data & Views

Display Mode	A-scan, C-scan
Welding Nuclear	Real-Time Welding Nuclear Diameter Measurement
Indentation	Real-Time Detect, Smart Average
Data Synchronism	USB, NAS

Ultrasound Specifications

Number of Elements	64:64 PR
Voltage	50 V
Pulse Shape	Negative Square Wave
Initial Pulse Rise Time	<2.5 ns
Damping	50 ohm
Range	0.6 - 9mm
Velocity Range	1000-10000m/s
Probe Delay	2-8 us
Gain	2-22MHz(-3dB)
Frequency	40dB
Sampling	12bit 100MSPS

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Software **Ds** Despoter **Rp** Respoter
Despoter, Respoter and Spot-Tester

Despoter

- **Manage and Customize Your Database**
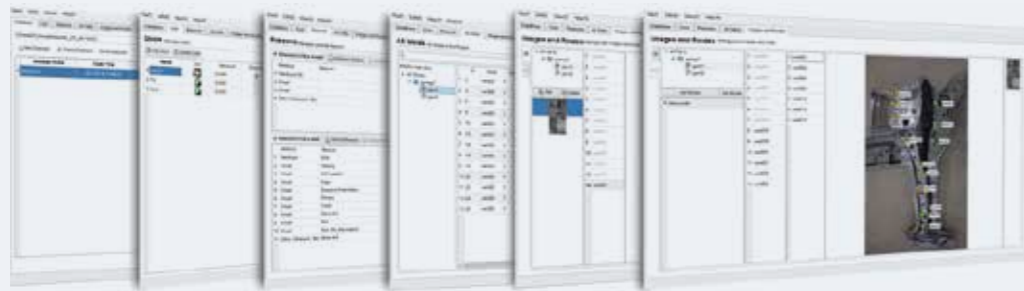 You can use the despoter to create a database according to your specfications, and also modify and make change to existing database.

- **Manage Users Profiles**

- **Customize Detection Profiles**

- **Manage All Welds via The Despoter**
  Use the despoter to create welds inspection points and set properties for them.

Respoter
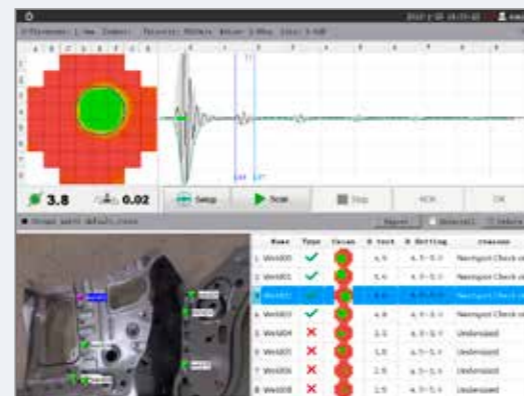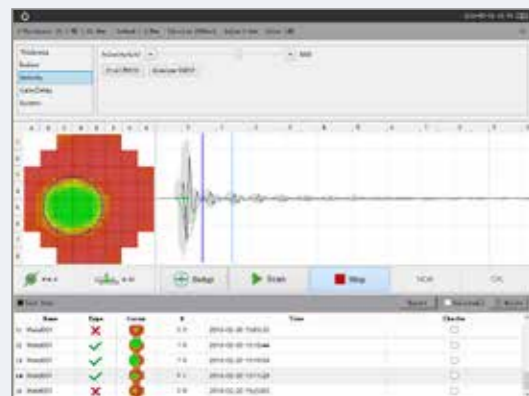
- **Manage Your Tested Database**
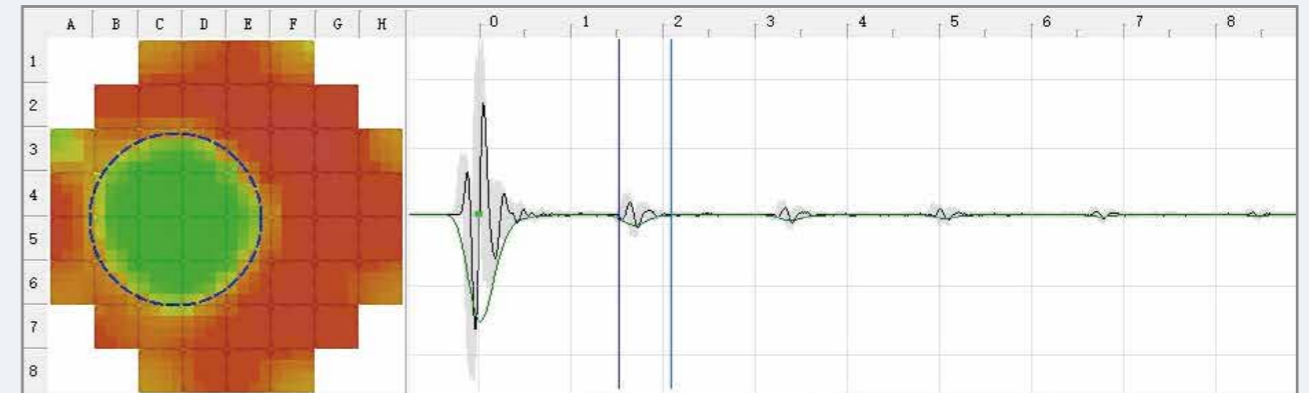 Use respoter you can convert test data into XML format.

Spot_test

- **Real-Time Imaging Feedback on Spot-Welds**
  A/C – Scan, Real-Time Display

- **Real-time Imaging on Spot-Welds**
  A/C – Scan, Real-Time Display

- **Flexible and Expanded Testing Methods**
  Detector can support single element probe testing , PA imaging testing as well as various other non-ultrasonic data records like chisel inspection, visual inspection, and etc.

NextSpot 600-Specification

Housing

Overall Dimensions	287 mm × 267 mm × 67 mm
Weight	3.0 kg (6.6 lb) with battery
IP	IP54
Control Device	Remote Control, Touch Screen
Probe	D-sub68 - Matrix
Power Socket	5.5-2.5mm DC Socket

Power Supply

Battery Type	Smart Li-ion Battery
Battery Life	Minimum 8 hours Under Normal Operating Conditions
Number of Batteries	1
Power Supply Unit	100-240V AC, 47-53Hz, 1.6A
PRF	8K Hz(No continuous pulse series)

Environmental Specifications

Operating Temperature	-10°C to 50°C (14°F to 122°F)
Storage Temperature	-20°C to 60°C (-4°F to 140°F) with battery
	-20°C to 70°C (-4°F to 158°F) without battery
Relative Humidity	Max. 70% RH at 45°C noncondensing

Ultrasound Specifications

Number of Elements	64:64 PR
Voltage	50 V
Pulse Shape	Negative Square Wave
Initial Pulse Rise Time	<2.5 ns
Damping	50 ohm
Range	0.6-9mm
Velocity Range	1000-10000m/s
Probe Delay	2-8 us
Frequency	2-22MHz(-3dB)
Gain	40dB
Sampling	12bit 100MSPS

Display

Display Size	26.4 cm (10.4 in.)
Resolution	1024 x768
Brightness	600 cd/m
Viewing Angles	H: –89° to 89° V: –89° to 89°
Type	TFT LCD

Data & Views

Display Mode	A-scan, C-scan
Welding Nuclear	Real-Time Welding Nuclear Diameter Measurement
Indentation	Real-Time Detect, Smart Average
Data Synchronism	USB, NAS