Specifications

Housing
Overall dimensions 287 mm × 287 mm × 67 mm (11.3 in. × 11.3 in. × 2.6 in.)
Weight 3.5 kg (7.7 lb) with battery
IP IPS4
Control Device Remote control, Touch screen
Probe D-6 sub 6 - Matrix
Power Socket 5.5-2.5mm DC Socket

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

Display
Display size 26.4 cm (10.4 in.)
Resolution 1024 x 768
Brightness 600 cd/m²
Viewing angles Horizontal: –89° to 89° Vertical: –89° to 89°
Type TFT LCD

Power Supply
Battery type Smart Li-ion battery
Number of batteries 1
Battery life Minimum 8 hours under normal operating conditions
Power supply unit 100-240V AC, 47-63Hz, 1.45A
PPG 8K Hz (No continuous pulse series)

Ultrasound Specifications
Number of Channels/Elements 64 (2 PR)
Voltage 50 V
Pulse shape Negative square wave
Initial pulse rise time <2.5 ns
Damping 50 ohm
Range 0.5-9mm
Velocity range 2000-8000 m/s
Probe delay 2-8 us
Frequency 1MHz-25MHz
Gain 40dB
Sampling 12bit 100MSPS

Data & Views
Display mode A-scan, C-scan
Welding Nugget Real-time welding nugget diameter measurement
Indentation Real-time detect, Smart average
Data Synchronism USB, NAS (Optional)

Note: We reserve the rights to technical modifications without prior notice.
NextSpot 600
Portable Ultrasonic Flaw Detector for Spot Weld NDT

NextSpot 600 ultrasonic flaw detector will handle all your spot weld NDT needs, whether it is in production lines or in field environments. The unit is constructed with an one piece all aluminum housing, that is both rugged and lightweight, with a weather protected rubber coating on the outside. Using patented technologies, backed by years of R&D in the NDT industry, NextSpot 600 can produce real-time imaging with auto-detection on spot weld flaws both quickly and accurately. In today’s ever increasing competitiveness in the automotive manufacturing segment, NextSpot 600 with its easy-to-use and its powerful feature interface can save valuable time and increase productivity.

Rugged and Portable - All Aluminum Alloy
NextSpot 600 is constructed with an all aluminum alloy shell with 360° shielding. It adopts a one-piece aluminum alloy with rubber coating that makes it rugged, lightweight, and compact. The unit is also weather protected and stress tested so that it can operate from -10°C – 50°C. Weighing at only 3 kg, NextSpot 600 is both portable and reliable, especially for conducting field testing.

Long Battery Life - ARM Technology
NextSpot 600 uses the ARM processor, which know for its high efficiency and long battery life. A completely charged unit can perform 8 hours of normal operation, and requires only 3 hours for a complete recharge.

Powerful, Flexible, yet Easy-To-Use Software
At the heart of the device is our NextSoft Analyser user interface that we build from the ground up. Built on top of the Linux OS platform, it provides a safe, reliable and stable platform for our software system. Boasting a 10 seconds startup time, it can be quickly and easily setup to perform real-time image scanning on spot welds.

Exceptional Visual Interface - 10.4 inches Full Touch Screen with XGA Wide-angle View
Testing in the field are often conducted in harsh environments where visibility may be poor and requires having to wear gloves. The NextSpot 600’s 10.4 inch full touchscreen with XGA wide-angle viewing help address these common issues all while giving you the most accurate visual results and feedbacks.

Accurate Measurement - 64 Channels, 1MHz-25MHz Bandwidth, 400 Mhz/12 bits DSP
By adopting a parallel 64 channel design, 1MHz-25 MHz analog bandwidth, and 12 bits DSP it gives NextSpot 600 the most accurate measurement of welding nuggets and indentations. Furthermore, the results are all visual and can be immediately determined whether the results are passed or failed.

Real-time Imaging and Other Testing Methods
NextSpot 600 can provide A/C - scan and real-time display on spot weld. NextSpot 600 can support single element probe testing, PA imaging testing as well as various non-ultrasonic methods, data capture, chisel inspection, visual inspection, and many more.

Safety of The Future
*All specifications are subject to change without notice.

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NextSoft Studio

NextSoft Studio Cloud - (Optional)
Our NextSoft Studio Cloud is a cloud data management 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

Portable Ultrasonic Flaw Detector for Spot Weld NDT

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Long Battery Life - ARM Technology

NextSpot 600 uses the ARM processor, which know for energy efficient, and along with a fanless design, a fully charged unit can perform 8 hours of normal operation, and requires only 3 hours for a complete recharge.

Powerful, Flexible, yet Easy-To-Use Software

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## Specifications

### Housing
- Overall dimensions: 287 mm × 267 mm × 67 mm (11.3 in. × 10.6 in. × 2.6 in.)
- Weight: 3.5 kg (7.7 lb) with battery
- Control Device: Remote control, Touch screen
- Probe: D-sub68 - Matrix
- Power Socket: 5.5-2.5mm DC Socket

### 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
- Weight: 3.5 kg (7.7 lb) with battery
- Relative humidity: Max. 70% RH at 45°C noncondensing

### Display
- Display size: 26.4 cm (10.4 in.)
- Resolution: 1024 x 768
- Brightness: 600 cd/m²
- Viewing angles: Horizontal: –89° to 89° Vertical: –89° to 89°
- Type: TFT LCD

### Power Supply
- Battery type: Smart Li-ion battery
- Number of batteries: 1
- Battery life: Minimum 8 hours under normal operating conditions
- Power supply unit: 100-240V AC, 47-63Hz, 1.45A

### Ultrasound Specifications
- Number of Channels/Elements: 64:52 PR
- Voltage: 50 V
- Pulse shape: Negative square wave
- Initial pulse rise time: <2.5 ns
- Damping: 50 ohm
- Range: 0.5-9mm
- Velocity range: 2000-8000m/s
- Probe delay: 2-8 us
- Frequency: 1MHz-25MHz
- Gain: 40dB
- Sampling: 12bit 100MSPS

### Data & Views
- Display mode: A-scan, C-scan
- Welding Nugget: Real-time welding nugget diameter measurement
- Indentation: Real-time detect, Smart average
- Data Synchronism: USB, NAS (Optional)

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