

AUSS MOBILE

Automated Ultrasonic Scanning System

THE NEXT-GENERATION DIGITAL MOBILE SCANNING SOLUTION

AUSS Mobile stands as the latest addition to the AUSS product family. This distinctive and portable C-scan inspection system seamlessly integrates ultrasonics, eddy current, and bond testing into a unified platform. Such integration facilitates diverse inspections, making it an ideal solution for aircraft production, maintenance, and sustainment programs.



FEATURES:

- Direct Replacement for MAUS V
 - Offers enhanced capabilities to meet current data acquisition needs.
- Boeing's Superior AUSS Software Architecture
 Included in a portable, modular, and affordable package.
- Multi-Modal Design for Various Inspection Applications
 - Ultrasonic Sensors/Multi-Element Arrays (32 x 28)
 - Bond Testing Resonance, Pitch/Catch, and Mechanical Impedance Analysis (MIA)
 - Eddy Current Sensors/Arrays (Up to 512 Elements)
- High Resolution Digital Waveform Capture
 - Enables unparalleled interpretation capabilities.
 - Supports off-line data post processing.

- Latest Phased Array Technology
 - Delivers significant performance improvements.
 - Ensures faster inspection speed, especially in highly demanding applications.
- Versatile Platform for Scanning Peripherals
 - Accommodates a variety of scanning peripherals to fulfill unique customer requirements.
- Fully Integrated Two-Axis Motion System
 - Allows customization of scanning platforms for diverse needs.
- Flexible Deployment for Quality Scanning
 Equipped to bring the highest quality scanning and imaging to the inspection cell, factory, or fleet, offering versatility in deployment locations.

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BENEFITS:

Managed System Investment

- Multiple capabilities in one portable unit enhance the versatility and efficiency in system management.
- Reduces need for multiple unique NDI systems.
- Standardized data format for all AUSS products.
- Reduces maintenance costs and promotes proficiency among users across various AUSS platforms.

Superior C-Scan Imaging Capability

- Enables technicians to conduct inspections with in-depth and comprehensive results.
- Integration of A, B, and C-scan views for improved interpretation.
- True acquired waveform ensuring the accuracy and reliability of data collected.
- Unique algorithms and tools enhance the precision and efficiency of the inspection process.
- Refined color palette facilitates clear visualization and interpretation of data.



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SPECIFICATIONS:

- Power Supply
 24 VDC External Power
- 2 Laptop Connection • Gigabit Ethernet
- 3 External Data System • Gigabit Ethernet and External Encoder Trigger
- 4 Auxiliary Equipment Control • Six I/O Connections

5 Ultrasonic

 Conventional UT, Phased Array, Full Matrix Capture, and Total Focusing Method

6 Continuous Wave

 Standard 41-Pin Connector for: Resonance, all Eddy Current (EC) Functionality, Mechanical Impedance Analysis (MIA), and Pitch/Catch

Scanner Control

Motor and Encoder Connection

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Power: 120-240 VAC 50/60Hz 10A External Supply Computer Interface: Gigabit Ethernet Dimensions without handles: 13.75"W, 5.25"H, 11.75"D Dimensions with handles: 16.75"W, 7.75"H, 14.5"D Weight: 18 lb. (20 lb. with external power supply) IP Rating: IP3x Encoders: 2 Quadrature

ULTRASONIC AR

ULTRASONIC

Pulser Voltage: 100V Pulse Width: 20-1000 ns Maximum PRF: 20 KHz Pulse Width Resolution: 4 ns Pulse Type: Negative Square Pulse Focusing Delay: 0-40 µs

RECEIVER

Sensitivity: 14 bits DDF: Up to 64 points Gain Range: 12-110 dB Focusing Delay: 50 kHz to 20 MHz Focusing Delay Resolution: 0-40 µs at 100 MHz

SYSTEM

Configuration: 32 Channel/128 Element **Probe Connector:** IPEX **Configurations:** Pulse/Echo, Through Transmission

CONTINUOUS WAVE

Connector: 41-Pin Circular Connector Output Current: 1A Max. Frequency Range: 20 Hz to 2 MHz Generators/Coil Drivers: 2 Fully Independent Drive Voltage: 0-20 Vpp Single Driver Eddy Current Array: Up to 128 Coils Probes Inputs: 8 (128 with Multiplexer) Data Rate: 40,000 Data Points/sec A/D Converters: 24-bits Data Format: 32-bits