AUSS MOBILE

Automated Ultrasonic Scanning System

The Next-Generation Digital Mobile Scanning Solution

AUSS Mobile is the newest addition to the AUSS product family. A unique and portable C-scan inspection system incorporates ultrasonics, eddy current, and bond testing in a single system. This enables multiple inspections for aircraft production, maintenance, and sustainment programs.

Features and Capabilities

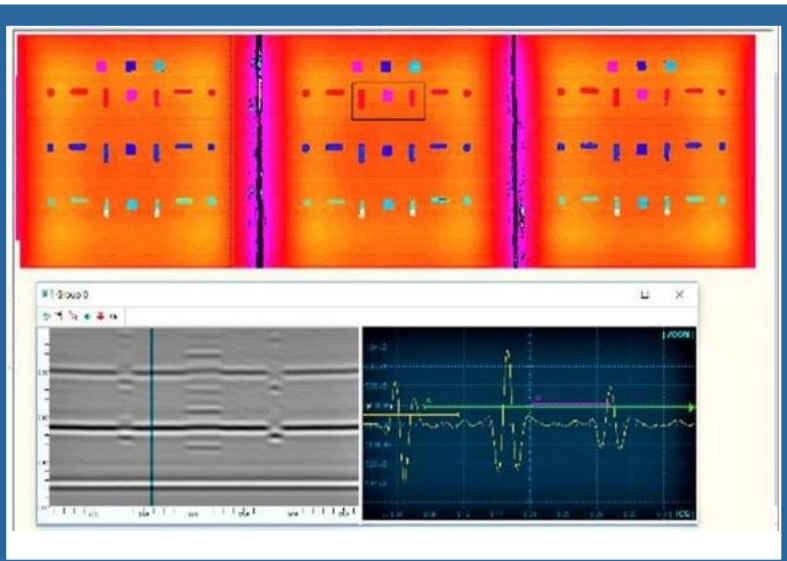
- Direct replacement for the MAUS V offering enhanced capabilities to meet current data acquisition needs
- Boeing's superior AUSS software architecture is included in a portable modular and affordable package
- Multi-modal design enables the following inspection applications:
    - Ultrasonic sensors / multi-element arrays (32 X 128)
    - Bond Testing - Resonance, Pitch/Catch, and Mechanical Impedance Analysis (MIA)
    - Eddy current sensors / arrays (up to 512 elements)
- High-resolution digital waveform capture and off-line data analysis processing provides unparalleled interpretation capabilities
- Equipped with the latest phased array technology to deliver significant performance and faster inspection speed in highly demanding applications
- Versatile platform allows for a variety of scanning peripherals fulfilling unique customer requirements
- Fully integrated two axis motion system allows for a variety of customizable scanning platforms
- Brings the highest quality scanning and imaging to the inspection cell or any location in the factory or fleet

An Unmatched Solution for Nondestructive Inspection

Benefits

- Managed system investment:
  - Multiple capabilities packaged in one portable unit
  - Reduces need for multiple unique NDI Systems
- Common AUSS data format enables use of in-service data for Modal Based Engineering
- Common software across all AUSS products minimizes maintenance costs and allows users to be proficient across AUSS platforms

- **Superior C-Scan imaging capability** enables technicians to conduct inspections with comprehensive results
- A, B, C-Scan merged views, true acquired waveform data, multiple gating scenario's, unique algorithms, tools, and refined color palettes
- Highly customized and configurable user interface for highlighting defects or other areas of interest



NDT SOLUTIONS

IMPROVING SAFETY THROUGH INNOVATION

www.ndts.com | sales@ndts.com | 833.999.6387 (NDTS)

AUSS Mobile Specifications

1. **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
7. **Scanner Control**
   Motor and Encoder Connection

AUSS Mobile Specifications

General

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

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