



LAHMP™ SYSTEM



The LAHMP™ (Large Area Health Monitoring Processor) continuously monitors, collects, and processes structural health data in near real time. The patented health diagnosis is completed within a few seconds of flaw data being collected. The LAHMP™ system then grades the health of the structure near each sensor in an area up to 8 feet in diameter for each sensor depending on geometric complexity. If damage is present, the system will inform maintenance personnel on the severity and location of the damage. These judgments are made

based on monitoring dozens of samples in destructive laboratory tests while monitoring their acoustic emission activity.

TESTED AND PROVEN

In preparation for ground and flight tests aboard an Air Force F-15 E1, Boeing Phantom Works coordinated thermal, EMI/RFI, and G-force testing of LAHMP™. LAHMP™ was operational during all tests and none of the environmental extremes hampered the system. Boeing then facilitated a ground test aboard the F-15, clearing the way for a successful flight test on September 26, 2006. LAHMP™ was fully functional throughout the flight test and collected structural health data on two bulkheads.

APPLICATIONS

The LAHMP™ system has a wide variety of applications including:

- Military Aircraft
- Helicopters
- Commercial Aircraft
- Rockets



LAHMP™ System

A Product of TRI Austin

LAHMP™ Benefits

- Minimizes the risk of in-service failure
- Reduces downtime and inspection costs
- Maximize aircraft usage and improve fleet availability

LAHMP™ Benefits

- Lightweight and miniaturized system
- Ruggedized and resistant to water, dust, shock, vibration, and EMI/RFI
- Low power requirements
- Adaptable to multiple aircraft platforms



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TO LEARN IF LAHMP™ SYSTEM CAN HELP YOU WITH YOUR APPLICATION, CONTACT:

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