

About I-CARS *Inspect*

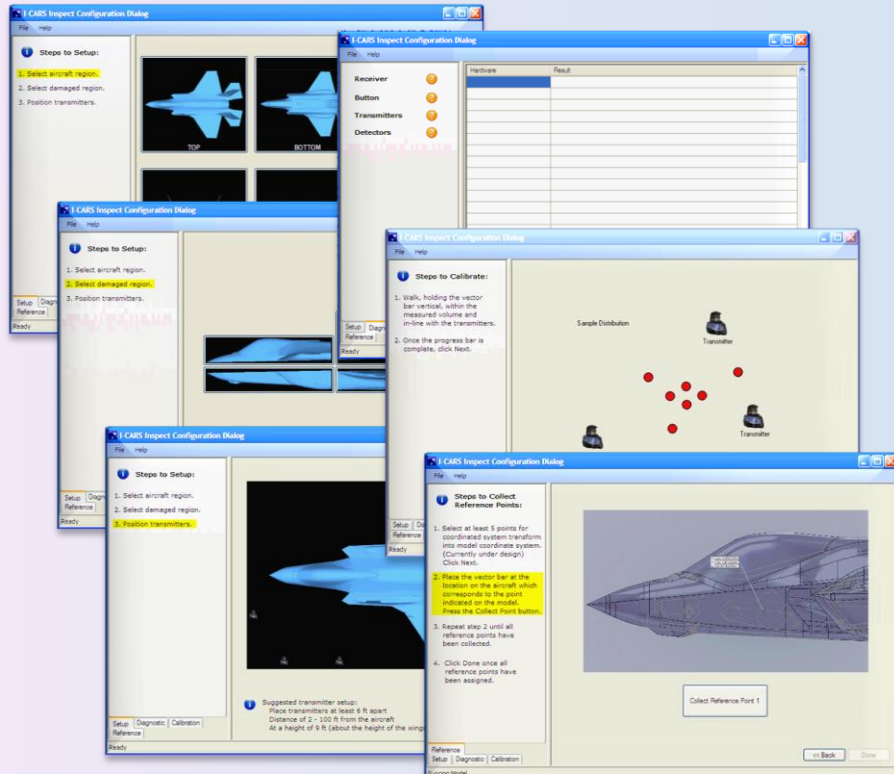
The I-CARS product family integrates the latest Metris laser-based dimensional metrology equipment with specialized hardware and software to meet specific customer requirements. The system can be hosted on wearable PC technology and a heads-up display for ultimate portability in a streamlined data collection packaged. I-CARS *Inspect* is being developed in support of the F-35 Lightning II Program Office to aid in signature maintenance activities. The system can quickly and accurately interpret visual damage (location, size, depth, orientation, etc.) on an aircraft structure in three-dimensional space and transfer the information to the JSF Low Observable Health Assessment System for insertion into a computer model of the aircraft.



I-CARS *Inspect* facilitates the collection of detailed damage data in the field, quickly and accurately. The system guides the user through complete system setup optimized for the user's particular application, automated system diagnostics and calibration, and data collection.

I-CARS *Inspect* Advantages

- I-CARS *Inspect* can determine the location and spatial orientation of damage to within a few microns, which is critical for performing signature assessment and determining necessary repairs.
- Avoids manual data collection and transcription by hand to paper or other media saving time and reducing errors.
- Single-man portable system that can be setup and calibrated within 15 minutes and supports single or simultaneous multiple person data collection.
- The ICARS tool suite is not limited to measuring just aircraft damage, but can be utilized for a variety of venues where portable, accurate, and automated metrology data collection and modeling support is required.



Contact Information

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