

Improved Avionics Intermediate Shop Technology Refresh

Proven performance for over 40 years



Features and/or benefits

- Provides avionics testing capability for computers; radars; electronic warfare; flight controls; fire controls; displays; stores management; identification, friend or foe; communications; navigation systems; and targeting pod Line-Replaceable Units
- Parametric and functional testing
 - Digital, analog, radio frequency (RF), photometric and pneumatic
 - Color raster and stroke video display and stimulus
 - Full-spectrum RF synthetic instrument (100 KHz to 20 GHz with options to 40 GHz)
 - Robust digital bus emulation system
 - Industry standard computer with Windows®7 operating system and removable drives
 - Automated image processing assembly test bench provides highly accurate head up display (HUD) and display testing
- Modular system allows customization and configurability to address specific applications
 - Mobile and deployable
 - Transportable on a single pallet
 - Accepts multiple power source (50, 60, 400 Hz)
 - Set-up time is less than one hour
 - Self-contained calibration system
 - Provides unit under test power and cooling
 - Operable under chemical warfare conditions
- Demonstrated cost-effective rehost of legacy test program sets (TPSs)
- Highly reliable pinless interface and passive interface test adapters
- Lower life cycle cost
 - Minimal training required
 - Interchange Virtual Instrument software compliant
 - Self-contained calibration system
 - Based on commercial open architecture standards utilizing both VXI and PXI instrumentation
 - TPSs are 100% compatible with all configurations of the IAIS family of testers

BAE Systems is the original equipment manufacturer for the F-16 I-Level Automatic Test Equipment for over 40 years.

Our Improved Avionics Intermediate Shop (IAIS) and Rackmount-IAIS have been chosen by the U.S. Air Force and 22 other countries to support their aircraft.

Over 300 Test Program Sets (TPSs) have been developed on the IAIS and R-IAIS testers. The AIS, IAIS and R-IAIS are the only F-16 SPO approved I-Level testers supporting the F-16 fighter and qualified to run the entire suite of F-16 TPSs.

Active sustainment projects, depot repairs, and ongoing production extend the useful life through 2030 and beyond.

Technology refresh

Control/display unit computer hardware architecture change; PXI-based processor executing Windows® 7 operating system; mass storage updated to Serial Advanced Technology Attachment technology.

Synthetic instrument-based RF microwave unit and RF switch replace the microwave stimulus and microwave measurement units.

Open architecture VMEbus eXtensions for Instrumentation instruments replace 1980's vintage application specific circuit cards in instrument units A and B.

Image processing assembly replaces obsolete theodolite and photometer for HUD and displays testing.



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