Rackmount-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 (LRU)

- 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
  - Provides unit under test power and refrigerated cooling

- Maintains hardware and software commonality with IAIS family of testers used throughout the world
  - Highly reliable pinless interface and passive interface test adapters
  - Built-in expansion capabilities
  - Sustainment and logistic support in place

- Fully capable of supporting new LRUs and Shop-Replaceable Unit
  - Supports both I and D level test requirements

- Demonstrated cost-effective rehost of legacy test program sets (TPSs)

- 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

www.boesystems.com
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 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**

National Instruments PXI-based processor running Windows® 7 replaces obsolete computer running Windows® 2000, with removable drives.

PXI chassis with available room for expansion, includes Digital Multimeter and Ethernet switch to replace obsolete instruments.

PXIe-based synthetic instrument microwave unit replaces obsolete VMEbus eXtensions for Instrumentation -based RF instrumentation.

Image Processing Assembly replaces obsolete theodolite and photometer for HUD and displays testing.