



VIAVI

VIAVI Solutions

Selection Guide

VIAVI **Military Test Solutions** for Avionics Systems

Improving your operational efficiency
with faster on-site test solutions.

AVX-10K Communication, Navigation, Surveillance Flight Line Test Set

NAV, COMM, XPDR, DME, TACAN, TCAS, ELT

The AVX-10K is a comprehensive flight line test solution providing today's Avionics Technician with an easy to use instrument for many maintenance needs. From a quick airborne system auto-test to an in-depth troubleshooting tool, users can conveniently test around the aircraft or in the cockpit from the touchscreen display or using your mobile device. Easy set-up, quick testing and reporting are all transferable via USB, Ethernet and wireless all done from a modern user interface, or the VIAVI Solutions Mobile Tech App.



Features

- Configurable test capability
- Intuitive user interface
- Software defined applications
- Remote operation
- Remotely test with the VIAVI Mobile Tech App and your Android™ or iOS® device
- Guided Test for Navigation Applications
- Built-in GPS receiver
- International test configurations

Benefits

- Purchase only the test options that you need
- Time saving ease of operation
- Easily updated with future applications
- Conveniently test in and around the aircraft from your mobile device
- Save test sequences for future use
- Provides accurate positional data for ADS-B testing
- Compliant with global regulatory requirements

The Future of Flight Line Avionic System Testing

Building on nearly 50 years of providing superior avionics test sets, the AVX-10K combines the capability of the IFR4000 and IFR6015 test sets.⁵



Avionics Test

Transponder, Interrogator, DME, TACAN and TCAS Test



IFR6015 Flight Line Test Set²

NSNs: 6625-01-578-4893
6625-01-574-2423
6625-01-601-4034*

- Transponder Modes 1,2,3A/C/S, TCAS I, II, E-TCAS and TACAN

*Most current NSN, and is identified on unit serial tag



IFF-7300S Series Automated Test System¹

NSN: 6625-01-612-8238 (IFF-7300S-02)

- Automated return-to-service testing (Level 1)
- Automated module level diagnostics (Level 2)
- Manual mode testing using VIAVI proprietary Virtual Panel application software



APM-424(V)5 Interrogator/Transponder MK XIIA Mode 5 Test Set¹

NSN: 6625-01-583-2774
(Includes KIV-77/Option B adapter)

- Transponder Test Modes 1, 2, 3/A, C, S (ELS/EHS), 4, Mode 5
- Interrogator Test Modes 1, 2, 3/A, C, S, 4, Mode 5, TCAS, ETCAS
- Shipboard interrogation



IFF-7300S-50 Automated Test System

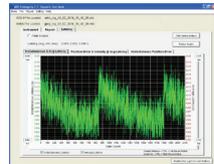
- IFF-7300S-50 Test System with 2 IFF-45TS's



IFF-45TS MK XIIA/TACAN Bench Test Set¹

NSN: 6625-01-617-2567
(with options 1, 2, 3, 6, 8, & 9)
6625-01-611-6485
(with options 2 & 8)

- DoD AIMS certified for MK XIIA IFF and Mode S performance (Levels 1 and 2)
- DO-260B compliant; ADS-B Out test capability



ADS-B INTEGRITY™ Test Application^{2, 4}

- ADS-B equipment installation verification
- Complete AC 20-165B fast and convenient reporting
- Eliminate post STC operational flights
- Ability to measure latency and associated errors over a variety of simulated velocities and positions

Nav/Comm Test



IFR4000 Nav/Comm Test Set²

NSN: 6625-01-516-4656

- Tests VOR, ILS, Marker Beacon and VHF/UHF
- ELT software upgrade available*

*NSN: 6625-01-553-1956 with ELT option installed

IFR4000AR Nav/Comm Test Set²

NSN: 6625-01-559-2384

- Contract#: W58RGZ-09-D-0007
- IFR4000 plus added protective cover
- ELT software upgrade available*

*NSN: 6625-01-553-1956 with ELT option installed

Avionics Test

Fuel Quantity Test



PSD90-1C AC/DC Fuel Capacitance Test Set

NSN: 4920-01-510-5628 (F-16 fleet)²
4920-01-528-2230 (non F-16 fleet)

- Tests any AC or DC capacitive system³



PSD90-3 Universal AC/DC Fuel Quantity Test Set

- Fully compatible and equivalent to the PSD90-1C³
- Includes contaminated probe detection
- Auto detects contaminated probes during normal tank and probe capacitance measurements



PSD60-1AF AC Capacitance Fuel Quantity Test Set²

NSN: 6625-01-297-5305

- Tests any AC capacitive system³

Radio Altimeter Test



ALT-9000 Radio Altimeter Test Set

- Tests all types of radio altimeters, including LPI variants
- Simulate static and dynamic altitudes from 0 ft. to 10,000 ft. with option for 16,000 and 25,000 ft
- Direct-connect at the UUT TX/RX connectors or the aircrafts TX/RX antennas via antenna couplers

GPS Satellite Simulation



GPSG-1000 Portable Satellite Simulator²

NSN: 6625-01-616-2712
(12 channel config)

- GPS signals simulated: L1, L1C, L2C, L5
- Static and dynamic simulations

Antenna Couplers

VIAVI couplers provide reliable FAR Part 43 Appendix 'F' ERP and MTL testing in multi-path environments.

	
UC-584 Kit Part #112350 (single antenna) Part #112349 (dual antenna)	UC-584S Part #142094 (included in UC-584 Dual Coupler Kit)
	
F-15 IFF Kit ¹ – Part #113532	F-16 IFF Kit ¹ – Part #140600
	
GC-130 GPS Kit ² – Part #141193	TC-201 Coupler Kit – Part #140889

¹ This product is controlled for export under the International Traffic in Arms Regulations (ITAR). A license from the U.S. Department of State is required prior to the export of this product from the United States. This product may not be sold or proposed or offered for sale to certain countries including: Belarus, Burma, China, Cuba, Haiti, Iran, Liberia, Libya, North Korea, Somalia, Syria, Sudan, and Vietnam. See ITAR 126.1 for complete information.

² This product is subject to the Export Administration ("EAR") (15 CFR 730-774) and may not be exported, re-exported or otherwise transferred to a foreign person, or outside the United States without authorization from the U.S. Department of Commerce.

³ Aircraft-specific interface cables are required and must be purchased separately.

⁴ Option for IFR6000/6015 only.

⁵ AVX-10K is equivalent to IFR-6015 with Mode 1/2, ETCAS functions scheduled for Q4 2024.