

PRODUCT CATALOG

VIAVI

VIAVI Solutions

VIAVI Avionics Test Equipment

VIAMI avionics test equipment is used to support the development, manufacture, test and maintenance of commercial, private and military airborne electronic systems. Our innovative test solutions provide the critical data needed to ensure a safe flying environment, with the quality and performance you have come to expect from VIAMI.

Table of Contents

Navigation/Communication

IFR4000 Nav/Comm Flight Line Test Set	4
ALT-8000 FMCW/Pulse Radio Altimeter Flight Line Test Set	6
ALT-8015 Military Pulse Radio Altimeter Flight Line Test Set	8

Transponder/TCAS

APM-424(V)4/5 MK XII/A Flight Line Test Set	10
IFR6000 Flight Line Test Set	12
IFR6015 Military Flight Line Test Set	14
IFF-45TS MK XIIA/TACAN Bench Test Set	16
ADS-B INTEGRITY™ Test App	18
ATC-5000NG ATC/DME Test Set	20
RGS-2000NG TCAS Test Set	22
UC-584 Universal Transponder Antenna Couplers	24

RF Automatic Test Equipment (ATE)

IFF-7300S Series Automated Test System	26
RF Expansion Module for ATEC® Series-6	28

GPS Simulators

GPSG-1000 GPS/Galileo Portable Positional Simulator	30
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Fuel Quantity

PSD60-2R, PSD90-1C, PSD30-2AF, PSD60-1AF	32
Fuel Interfaces	34

Support

Service Centers	35
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Navigation/Communication

IFR4000

Nav/Comm Flight Line Test Set

A portable unit designed for the testing of navigation instruments and communication systems.



The VIAVI IFR4000 Flight Line Test Set is designed for testing ILS, VOR, Marker Beacon, HF/VHF/UHF Communications (NAV/COMM) Systems, and ELT Short Range Emergency Beacons and 406 MHz COSPAS/SARSAT Long Range Emergency Beacons. The menu-driven functionality and guided test capability make this instrument extremely easy to use.



Features

- Morse code provides 1–4 characters transmitted in the VOR and ILS localizer mode
- Generation of ARINC 596 Selective Calling Tones
- Simulation of Localizer and Glideslope (CAT I, II, and III) Signals with variable DDM settings
- Accurate measurement of VHF/UHF antenna and or feeder SWR (Standing Wave Ratio)
- Simulation of marker beacon, selectable outer, middle, and inner marker tones

Benefits

- Battery operation 8 hours plus
- Guided test capability reduces total test time
- Low cost ELT option
- Software updates downloaded via website
- Frequency counter provides external frequency

Applications

- Accurate measurement of 121.5/243 MHz emergency beacon transmitter frequency, output power, modulation (AM). Headphone audio output to monitor swept tone
- Accurate measurement of 406 MHz COSPAS/SARSAT emergency beacon transmitter frequency and output power
- Decode and display all location and user protocols

ALT-8000

FMCW/Pulse Radio Altimeter Flight Line Test Set

Versatile, time-saving, portable test set for testing installed FMCW and pulse radio altimeters.



The VIAVI ALT-8000 is the world's first and only RF-based portable radio altimeter flight line test set. The ALT-8000 tests from the TX/RX antennas to the indicator in the cockpit, allowing the operator to replicate in-flight conditions and isolate a bad component of the installed system.

Features

- Remote control interface (Ethernet)
- Direct-connect to UUT T/R or to installed system via antenna couplers
- Programmable multi-leg climb/descend profiles
- Software updates downloaded via website
- Parametric measurements of TX power / frequency / pulse width / FM deviation / PRF

Benefits

- Battery operation of four hours plus between recharges
- Test pulse radio altimeters (non-pulse compression type)
- Create profiles to control dynamic altitude simulations
- Test FMCW radio altimeters including analog
- Radio-metric RF loop test allows TX, RX, antenna or feeder faults to be identified

Applications

- Terrain Awareness Warning System (TAWS) installation
- Simulate a complete landing approach, including a flare out
- Simulate a take-off and departure
- Replicate actual airborne conditions
- See ALT-8000 supported RADALT Equipment List for a complete, up-to-date list

ALT-8015

FMCW/Military Pulse Radio Altimeter Flight Line Test Set

Versatile, time-saving, portable test set for testing installed FMCW and military pulse radio altimeters.



The VIAVI ALT-8015 is the world's first and only RF-based portable radio altimeter flight line test set. The ALT-8015, designed for military applications, tests from the TX/RX antennas to the indicator in the cockpit, allowing the operator to replicate in-flight conditions and isolate a bad component of the installed system.

EXPORT CONTROL: This product is subject to the Export Administration Regulation (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.

Features

- Tests military pulse radio altimeters: AN/APM-171 (V), AN/APN-194(V) and AN/APN-209(V), including LPI variants
- Tests FMCW radio altimeters including CDF types
- Direct-connect to UUT T/R or to installed system via antenna couplers
- Fast detector for tracking LPI radio altimeters with TX power management
- Software upgradeable
- Parametric measurements of TX power / frequency / pulse width / FM deviation / PRF
- Remote control interface (Ethernet)

Benefits

- Perform a complete system test, allowing the operator to replicate in-flight conditions and isolate a bad component of the installed system
- Create profiles to control dynamic altitude simulations
- Radio-metric RF loop test allows TX, RX, antenna or feeder faults to be identified

Applications

- Terrain Awareness Warning System (TAWS) installations
- Simulate a complete landing approach, including a flare out
- Simulate a takeoff and departure
- Replicate actual airborne conditions

Transponder/TCAS

APM-424(V)4 and APM-424(V)5

MK XIIA Flight Line Test Set

Simplify verification of mission critical Mode 5 IFF Go/No-Go operation.



The VIAVI APM-424(V)5 easily accommodates a variety of aircraft, ground, and ship platforms to test transponder and interrogator performance. The APM-424(V)5 is a Mode 5 and ADS-B performance and capability upgrade to the TS-4530 and APM-424 legacy test sets. The unit closely replicates legacy operation for utilization of existing procedures, making the APM-424(V)5 a cost effective, highly accurate upgrade to fielded test sets.

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Features

- DoD AIMS certified
- Supports DoD AIMS 04-900A Option A – KIV-78 and Option B – KIV-77, and SIT-2010 crypto appliques
- Transponder Test Modes 1, 2, 3/A, C, S (EHS/ELS), 4, Mode 5 (Level 1 and 2)
- Interrogator Test Modes 1, 2, 3/A, C, S, 4, Mode 5, TCAS, ETCAS (Level 1 and 2)
- DO-260B compliant; ADS-B Out test capability

Benefits

- Accurate GPS time/date acquisition (via GPS antenna, crypto or manually)
- Hand-held and battery powered
- Self-diagnostic, point and shoot Go/No-Go operation
- Parametric test results can be stored for downloading to a PC for review or maintenance logging

Applications

- Mode 5 TX/RX pulse measurement
- Mode 5 squitter data
- Mode 5 data acquisition formats 0-23
- TS-4542 Shipboard Interrogator test
- ADS-B Out testing
- KIV-77 & SIT-2010 and KIV-78 support

IFR6000

Flight Line Test Set

Test modes A/C/S, 1090 MHz ADS-B and 978 MHz UAT, TCAS I & II, and DME.



The VIAVI IFR6000 is the industry standard flight line test set that allows for fast, reliable, and functional testing of installed avionics systems. Referenced in many OEM manuals and supported with procedures, the IFR6000 provides the operator with the confidence necessary for performance testing.

Features

- Transponder Auto Test (DO-181E)
- Automated ADS-B performance testing and reporting
- Monitor and decode:
 - ADS-B (DO-260A/B)
 - AC 20-165B surface/air auto test
 - UAT
- Target generator
 - ADS-B 1090 MHz (DO-260A/B surface and air)
 - UAT 978 MHz (ADS-B, TIS-B, FIS-B)
- Comprehensive GICB test
- DME ground station simulation
- UUT parametric tests
- User programmable TCAS scenarios
- Altitude encoder
- Over-the-air, direct, or coupled testing
- Battery operation six hours plus

Benefits

- Provides a full FAR Part 43, Appendix F test
- Verification of ADS-B/UAT installed systems
- Avoid ATC interference with optional coupler
- Data dump of transponder test results to PC
- Software updates available via website

IFR6015

Military Flight Line Test Set

Test Transponder Modes 1, 2, 3/A, C, and S, DME, TCAS I & II, ADS-B UAT, TIS I, Military E-TCAS and TACAN Avionics Systems.



The VIAVI IFR6015 is a user friendly flight line test set that allows for fast, reliable, and functional testing of military transponder, TCAS and TACAN installed systems. Referenced in many OEM manuals and supported with procedures, the IFR6015 provides the operator with the confidence necessary for system performance testing.

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Features

- IFF Modes 1 & 2
- TACAN/DME interrogator testing
- Military E-TCAS
- Transponder Auto Test (DO-181E)
- Automated ADS-B AC 20–165B surface/air performance testing
- ADS-B (Out) monitor and decode
- ADS-B (In) target generation
- UUT parametric tests
- User programmable TCAS scenarios
- Altitude encoder
- Over-the-air, direct, or coupled testing
- Battery operation six hours plus

Benefits

- TACAN ground station simulation
- Legacy TACAN test set emulation
- Provides a full FAR Part 43, Appendix F test
- Verify ADS-B /UAT installed systems
- With the optional antenna coupler, avoid ATC interference and the need for frequency allocation approval (DD 1494)
- Performs TACAN/DME testing Ground-to-Air (G/A), Air-to-Air (A/A)
- Simulate ATCRBS or Mode S intruders for TCAS testing

IFF-45TS

MK XIIA/TACAN Bench Test Set

A leading edge RF signal generator/receiver designed for engineering, manufacturing and return-to-service applications.



The IFF-45TS test set provides RF signal generation and parametric measurement of MK XIIA and TACAN equipment. Replies and interrogations can be individually configured to support testing requirements. ADS-B Out testing monitors ADS-B, TIS-B, ADS-R and Acquisition squitters. The IFF-45TS emulates either a TACAN ground transponder or a TACAN airborne interrogator, providing six TACAN test modes.

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Features

- DoD AIMS certified
- Supports DoD AIMS 04-900A Option A – KIV-78 and Option B – KIV-77 & SIT-2010 crypto appliques
- Dual I/O for diversity testing of transponders or SUM/DIFFERENCE on interrogators
- Separate connections for direct or over-the-air testing
- Software defined radio design allows waveform flexibility and future growth potential
- Dual signal generator design allows coordinated signal production for interference and echo testing

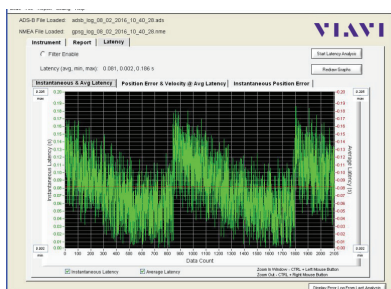
Applications

- Engineering – Development and qualification testing for MK XIIA, ADS-B Beacon, and TACAN equipment
- Manufacturing – factory calibration and verification testing
- Depot/Service – Level 1 and 2 return-to-service testing
- Support for DO-260B, AIMS 03-1000, and DO-181E certification testing
- Over-the-air platform testing of MK XIIA equipment including Mode 5, ADS-B beacons and TACAN interrogators
- Industry-wide use for development and end item testing of transponders and interrogators

ADS-B INTEGRITY™

ADS-B Out Performance Test Application

A time-saving tool for performance testing of ADS-B Out systems.



The ADS-B INTEGRITY™ software application, supports Supplemental Type Certification (STC) and post approval testing for ADS-B Out equipment installations. For accuracy and integrity performance test, the software controls the VIAVI IFR6000 or IFR6015 Transponder Test Set. An additional positional accuracy test is accomplished with the VIAVI GPSG-1000 Positional Simulator.

For R&D requirements, the application will control the IFF-45TS/A MK XII/A Bench Test Set and the GPSG-1000 for ADS-B Out performance.

A complete detailed ADS-B Out compliance report in FAA format is generated showing Pass/Fail criteria.

Benefits

- ADS-B equipment installation verification
- Complete AC 20–165B fast and convenient reporting to identify installation issues
- Eliminate post STC operational flights
- Coupled testing in the hangar or on the flight line eliminates:
 - Open sky requirements
 - GPS repeater
 - Weather issues
 - Interference with ATC operations
- Comprehensive solution for accurate system latency measurements
- Ability to measure latency and associated errors over a variety of simulated velocities and positions
- Cross check verification of transponder configuration
- Save time and money

Applications

- Performance verification of:
 - ADS-B Transponders
 - UAT Transceivers
 - GPS receivers

ATC-5000NG

ATC/DME Test Set and ADS-B Target Generator

Prepare for Global ATC Modernization with NextGen test technology.



The VIAVI ATC-5000NG is an RF signal generator/receiver for testing Mode 3/A, C and S transponders. The ATC-5000NG was designed with modern software defined radio technology and is the replacement product for the commercial functionality of the SDX-2000, ATC-1400A and S-1403DL. The ATC-5000NG is capable of performing most MOPS tests for DO-181E, DO-260, DO-260A, DO-260B, and DO-282B and is the ideal test equipment for engineering development, certification, manufacturing and service.

The ATC-5000NG tests the following:

- Transponders (Mode S/ADS-B Out)
- ADS-B In receivers
- UAT receivers
- 1090MHz DF18 emitters (surface vehicles)
- ADS-B In ground station receivers
- ADS-R, TIS-B ground station transmitters
- DMEs

Features

- Target generation – independently configure up to 600 ADS-B, TIS-B, or ADS-R target types (32 dynamic and 568 static); ATCNGOPT03 Multi-receiver option required
- Software-driven design allows for field updates to add new features, capabilities or modifications
- ADS-B squitter decode and logging for ADS-B Out testing (DO-260, DO-260A and DO-260B data parsing)
- DO-260B MOPS preconfigured tests available (Option ATCNGOPT06)
- Generates ATCRBS/Mode S interrogations
- Multi-receiver test capability (ATCNGOPT03)
- UAT TX/RX capability (ATCNGOPT02)
- Pulse and frequency measurement
- Remote controlled via GPIB or Ethernet
- Two independent transmitters and receivers
- TX/RX data logging capability
- Legacy command set option
- Full diversity testing capability

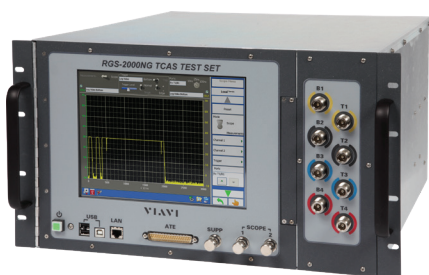
Benefits

- Internal pulse measurement capability eliminates need for oscilloscope
- Support for Air Traffic Control Modernization mandates (NextGen, SESAR)
- Modern architecture design will support future standards changes

RGS-2000NG

TCAS Test Set and ADS-B Target Generator

The premier test solution for development, certification, test and repair of Traffic Collision Avoidance Systems (TCAS) and transponders.



The RGS-2000NG TCAS Test Set is an RF signal generator/receiver for testing Traffic Alert and Collision Avoidance Systems (TCAS) with an option available for testing transponder LRUs. The RGS-2000NG was designed with modern software-driven digital modulation technology and is the RGS-2000 replacement for engineering development, design validation, manufacturing and return-to-service testing.

Equipment tested includes TCAS computers, ADS-B In receivers (including ground station), ADS-R and TIS-B ground station transmitters, and Mode S/ ADS-B Out transponders (with transponder option, RGSNGOPT10).

Features

- Target generation – independently configure up to 600 TCAS, ADS-B, TIS-B, or ADS-R target types (32 dynamic and 568 static)
- Software-driven design allows for field updates to add new features, capability or modifications due to industry changes
- TX/RX data logging capability
- ADS-B squitter encode/decode
- DO-260, DO-260A and DO-260B data parsing
- Pulse and frequency measurement
- TX/RX data logging capability
- Full diversity testing capability

Benefits

- Replacement for the legacy RGS-2000
- Modern architecture design will support NextGen mandates and future standards changes

Applications

- Engineering development, certification, manufacturing and service
- Capable of performing most MOPS tests for DO-185A, DO-185B, DO-260, DO-260A, DO-260B, DO-181E and DO-300

Antenna Couplers

Accurate, repeatable test results while eliminating interference with air traffic control operations.



VIAVI couplers solve the problem of reliable FAR, Part 43, Appendix 'F' ERP (Effective Radiated Power) and transponder MTL (Minimum Trigger Level) testing, in multi-path environments.

Providing 20 dB of isolation, our couplers ensure airborne TCAS systems and air traffic controllers do not see UUT transponder altitude replies under test conditions. For the military, use of our couplers also eliminate the need for DD-1494 frequency authorization.

Our couplers securely mount directly over the aircraft transponder antenna(s) allowing for shielded testing of the complete system, while connected to any of the VIAVI transponder or TCAS test sets: IFR6000/6015, APM-424, ATC-5000NG, or the IFF-45TS.

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Features

- Reliable effective radiated power and minimum trigger level testing
- Allows for testing in a high multi-path environment
- Provides >20 dB of isolation
- Single and dual antenna kit configuration
- Rugged design for ramp use

Benefits

- Effective ADS-B performance testing in the airborne condition
- Eliminates false intruders and interference with air traffic control
- Solves issues reported by FAA's SAFO 17002
- High level of measurement repeatability is achieved, saving test time
- Universal design allows coupler to be used with any suitable transponder test set
- Eliminate DD-1494 requirements

Antenna couplers available:

Model	Part Number
UC-584 Coupler Kit	112350 (single antenna) 112349 (dual antenna, includes UC-584S top mount coupler)
F-15 IFF Coupler Kit	113532 (ITAR controlled)
F-16 IFF Coupler Kit	140600 (ITAR controlled)
GC-130 GPS Coupler Kit	141193
TC-201A TCAS/Transponder Coupler	140889

RF Automatic Test Equipment

IFF-7300S Series

IFF/Crypto/TACAN Automated Test System

A powerful computer based system designed for the test and diagnosis of military avionics, including IFF transponders, interrogators, cryptos, and TACAN transceivers.



The IFF-7300S Series can be configured for purchase in a number of ways:

- Test IFF Mode 4 or Mode 5 UUTs and TACAN receiver-transmitters (IFF-7300S-01/02/03/04)
- Configure with two RF signal generator/receivers (VIAVI IFF-45TS) for dedicated cryptographic appliqué testing (IFF-7300S-50)

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Aircraft emulation and test setup

The IFF-7300S contains all required resources and emulates all necessary signals that the aircraft exerts on the unit under test (UUT).

- No need for an external power supply
- The radio is completely set up and ready for full testing

Test modes

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

Individual Test Program Sets (TPSs) are available for each LRU. The IFF-7300S system is expandable. To add test capability, simply buy additional TPSs.

Automated testing per OEM procedures

- Significant time is saved over manual testing
- Automated "test scripts" eliminate possibility of inconsistent testing
- Test reports are automatically stored electronically for future reference
- Traceability of results available for audits

RF Expansion Module

for Spherea ATEC® Series 6 ATE

The RF Expansion Module (RFEM) is specifically designed to support testing of airborne RF components on the ATEC® Series 6 ATE. Developed and manufactured by VIAVI Solutions in partnership with SPHEREA Test & Services, the RFEM provides a convenient platform that is compatible with new and existing ATEC® Series 6 ATE systems.



A library of TPS solutions has been developed by VIAVI that will test the full range of navigation, communication, TCAS, transponder, and other RF systems. The product strategy has full OEM support and CMM listing.

The RF instrumentation package includes PXI format synthetic instrument modules and the VIAVI NextGen bench test equipment.

Key Customer Advantages

- VIAVI designed RF test system, fully integrated into the ATEC® Series 6
- Simple Ethernet interface between RFEM and ATEC® Series 6, permits easy retrofit to existing ATE installations
- Powerful test executive interface offers many advantages to the test operator
- Global service and support provided jointly by SPHEREA Test & Services and VIAVI Solutions
- Extensive CMM-listed TPS library developed to test Nav, Comm, TCAS, Transponder, GPS, and other RF systems
- Complete RFEM and TPS information can be found on the SPHEREA Customer Support and Services MySpherea Internet web site

Complete RFEM and TPS information can be obtained from the Spherea Test & Services web site or the VIAVI web site.

Features

- GPS signals simulated: L1, L1C*, L2C*, L5*
- Galileo signals simulated: E1, E5**, E5a**, E5b**
- Static and dynamic simulations
- NMEA-0183 File Record and Playback functionality
- 12 channel configuration (RAIM supported)
- Programmable space vehicle (SV) parametrics and health
- User or built-in GPS receiver referenced time and date
- Remote control interface via Ethernet

* Some receivers require synchronized L1 transmissions.

** Some receivers require synchronized E1 transmissions.

Benefits

- Simultaneous GPS/Galileo simulation
- Software/firmware upgradeable
- PVT (position, velocity, time) data available via RS-232

Applications

- General testing of civil GPS and Galileo receivers
- Testing of non-encrypted military GPS receivers
- TAWS / WAAS / GBAS / LPV / ADS-B

Fuel Quantity

Fuel Quantity Test Sets

Proven performance for safe and accurate testing of critical fuel quantity systems.



VIAVI fuel quantity test sets will accurately test or troubleshoot any AC or DC capacitive fuel, water, LOX, Engine Oil or other AC or DC system when used with VIAVI aircraft specific interface cables/units.

Features

- Measures/simulates capacitance
- Measures voltage
- Meggar test for troubleshooting
- Supported with aircraft specific procedures
- Easy to operate
- Lightweight and portable
- Rechargeable battery
- Self-test

Test sets available and systems tested:

	System	Commercial	Military
PSD60-2R	AC	✓	
PSD30-2AF	DC	✓	✓
PSD60-1AF	AC		✓
PSD90-1C	AC/DC	✓	✓

Note: Aircraft-specific interface cables are required and can be purchased separately. Contact VIAVI for your application.

Fuel Interfaces

VIAVI has a large selection of aircraft-specific interface cables supporting many rotary and fixed wing aircraft.



VIAVI interface units and cables perform the following:

- Interface with the VIAVI Fuel Quantity Test Set(s)
- Provide FQIS interface at various points on the aircraft for complete testing
- Provide interface to probes (tank units), wiring harnesses, indicators, signal conditioners, etc.
- Provide level sensor and/or thermistor testing
- Provide densitometer and compensator testing

VIAVI supports multiple platforms. Refer to our website for a complete list of interfaces available by aircraft platform.

Note: Aircraft-specific interface cables are required and must be purchased separately. Contact VIAVI for your application.

VIAMI Solutions has authorized service center locations around the world, offering the following to customers:

Factory (OEM) calibration and repair

Customer equipment will be updated with latest software and/or required hardware modifications, at time of service.

Fast response time

Our centers maintain inventory on components and replacement modules for the quickest possible turn times.

Support

Our highly qualified service engineers are supported by factory OEM engineers.

Warranty

Our customers can have confidence that the work performed is backed with a service warranty.

Quality

Be assured that only OEM approved components are used, increasing the life of your equipment and maintaining the performance, to test critical airborne systems.

For the most up-to-date list of service center locations for our avionics test products, please visit:

viavisolutions.com/avionics



avionicstestequipment-ct-avi-nse-ae
30187568 904 0620

Contact us +1 316 522 4981

avcomm.sales@viavisolutions.com

To find the VIAVI office nearest you, visit [viavisolutions.com/contact](https://www.viavisolutions.com/contact)

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