



**VI·AVI**

VI·AVI Solutions

Selection Guide

# **VI·AVI**

## **Military Test Solutions** for Radio and Avionics Systems

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

# Radio Test

## 3515 Series Portable Radio Test Set



### 3515AR Portable Radio Communications Test Set<sup>1</sup>

NSN: 6625-01-572-6346

- Includes spectrum analyzer, oscilloscope and test script language for automating tests, incorporating test instructions, data collection, etc.
- Test scripts available for radios and systems, including PRC-117F, PRC-148, fixed-wing and rotary-aircraft, vehicles and data radios

### 3515N Portable Radio Communications Test Set<sup>1</sup>

NSN: 6625-01-538-0285

- USMC specific configuration

### 3515ARM Airborne Radio Maintenance System<sup>1</sup>

NSN: 6625-01-617-3401

- 3515AR + rugged transit case + airborne maintenance kit
- Includes VSWR script for rotary aircraft

### 3515AR-EP Portable Radio Communications Test Set<sup>1</sup>

NSN: 6625-01-538-0285

- Includes a test script for EPLRS radio test

### 3515LSR Life Support Radio Test System<sup>1</sup>

- The 3515LSR System is comprised of the combination of the 3515AR PLUS the LSR Kit

NSN: 6625-01-572-6346  
(3515AR Radio Test Set)

NSN: 6625-01-624-2023  
(LSR Kit including Cables, Software, and RF Chamber)

- Purchase both NSN items for a complete system, or only the LSR Kit if you already have the 3515AR
- CPIN: 83C-3515ACCESSORYKIT-S001-00A
- T.O. NUMBER: 33A1-3-628-1
- 3515LSR System replaces the RCTS-003B

## 3920N Analog/Digital Radio Test Platform



### 3920N Analog/Digital Radio Test Platform<sup>1</sup>

NSN: 6625-01-583-9945

- 2.7 GHz operation
- DMM, tracking generator, audio analyzer
- P25 test capabilities, including:
  - Conventional mode
  - P25 trunking, including explicit mode
  - AES encryption
  - XTS<sup>®</sup> and XTL<sup>™</sup>-3000/5000 AutoTest

## 7200B Configurable Automated Test Set



### 7200B Configurable Automated Test Set<sup>2</sup>

- Automated testing of tactical radios
- 2.6 GHz frequency range
- Next-generation radio testing

# Avionics Test

## Transponder, Interrogator, DME, TACAN and TCAS Test



### IFR6015 Flight Line Test Set<sup>2</sup>

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-45TS MK XIIA/TACAN Bench Test Set<sup>1</sup>

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



### APM-424(V)5 Interrogator/Transponder MK XIIA Mode 5 Test Set<sup>1</sup>

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

**Factory Upgrade Kits<sup>1</sup>**  
COMSEC adapters sold separately

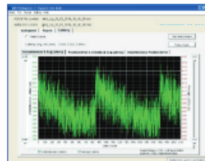
Fielded Unit	Upgrade To: APM-424(V)5
APM-424(V)3	86738
APM-424(V)4	88573
TS-4530/UPM	86738
TS-4530-1/ UPM	88572
TS-4542/UPM	86738



### IFF-7300S Series Automated Test System<sup>1</sup>

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.



### ADS-B INTEGRITY™ Test Application<sup>2</sup>

- ADS-B equipment installation verification
- Complete AC 20-165B fast and convenient reporting
- Eliminate post STC operational flights

## Nav/Comm Test



### IFR4000 Nav/Comm Test Set<sup>2</sup>

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 Set<sup>2</sup>

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)<sup>2</sup>  
4920-01-528-2230  
(non F-16 fleet)

- Tests any AC or DC capacitive system\*



### PSD60-1AF AC Capacitance Fuel Quantity Test Set<sup>2</sup>

NSN: 6625-01-297-5305

- Tests any AC capacitive system\*

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

## Radio Altimeter Test



### ALT-8015 Military Radio Altimeter Flight Line Test Set<sup>2</sup>

NSN: 6625-01-644-1512

- Tests military pulse radio altimeters
- Tests FMCW radio altimeters, including analog CDF types
- Direct-connect to UUT T/R or to installed system via antenna couplers

## GPS Satellite Simulation



### GPSG-1000 Portable Satellite Simulator<sup>2</sup>

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

- GPS signals simulated: L1, L1C, L2C, L5
- Galileo signals simulated: E1, E5, E5a, E5b
- Static and dynamic simulations via NMEA-0183 File Record and Playback

## Antenna Couplers

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

Model	Part Number
UC-584 Kit <sup>2</sup>	112350 (single antenna) 112349 (dual antenna)
UC-584S <sup>2</sup>	142094 (included in UC-584 Kit)
F-15 IFF Kit <sup>1</sup>	113532
F-16 IFF Kit <sup>1</sup>	140600
GC-130 GPS Kit <sup>2</sup>	141193
TC-201A Kit <sup>2</sup>	140889



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