VIAVI
APM-424(V)5
MK XIIA Flight Line Test Set

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

VIAVI

VIAVI Solutions

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.

Features

· DoD AIMS Mark XIIA certified

· Supports DoD AIMS 04-900A Option A and Option B crypto appliqués

· 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

· One piece, 3-button point and shoot Go/No-Go operation

· Self-diagnostic

· 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 capability

· ADS-B Out testing

· KIV-77 & SIT-2010 support

· KIV-78 support

Ordering Information

Versions, Options, and Accessories

Order Number	Description
86335	APM-424(V)5 MK XIIA Test Set w/KIV-77 Adapter, NSN: 6625-01-583-2774
91066	APM-424(V)5 MK XIIA Test Set w/ KIV-78/6 Adapter
91067 SERD 65A06	APM-424(V)5 MK XIIA Test Set w/KIV-77 & KIV-78/6 Adapter - includes Maintenance manual (86421) and Bench Utility Software with Field Maintenance (86633) NSN: 6625-01-669-3525
113464	Kit, F-15 Interrogator Transponder Test Set, NSN: 4920-01-627-6388

Factory upgrade kits for existing units
(COMSEC adapters sold separately)

86738	Kit, upgrade TS-4530 or AN/APM-424(V)3 to APM-424(V)5
88573	Kit, upgrade APM-424(V)4 to APM-424(V)5

Standard Accessories

88171	APM-424(V)5 base test unit (non-procurable)
10246	Wheeled transit case with pressure release valve
64647	KIV-77 adapter (included with 86335 & 91067)
86769	KIV-78/KIV-6 adapter (included with 91066 & 91067
58077	KIT/KIR-1C COMSEC cable
58078	RF direct connect cable
58081	RS-232 serial data cable
38589	RF adapter
11492	AC power adapter
58080	DC power cable
905	External battery charger
47621	Battery sticks (x2)
88976	Getting Started manual
86805	Operators manual (CD)
67468	Bench utility software (CD)
30089	Power cord, N.A. NEMA
91598	Power cord, European
91599	Power cord, U.K.
6154	Battery instruction sheet
Calibration certificate & Standard 2-year warranty	

Optional Accessories

86769	KIV-78/KIV-6 adapter (included with 91066 & 91067)
64647	KIV-77 adapter (included with 86335 & 91067
58079	KIV-6 adapter
11958	Transit case for KIV-6 (ACKIV6CASE)
58082	Cable, KIT/KIR-1A COMSEC
58084	Automotive DC adapter cable
138331	Tripod, heavy duty
86633	Bench utility software with field maintenance (CD)
86421	Maintenance manual (CD)

Physical Characteristics

Size: Test Set Only	7.5 in. H x 11.5 in. W x 14.1 in. D 27.0 cm x 35.5 cm x 8.7 cm
with Transit Case	20.4 in. H x 31.3 in. W x 15.5 in. D 51.82 cm x 79.50 cm x 39.37 cm
Weight	12.25 lbs. (5.6 kg), test set with battery 50 lbs. (22.7 kg), shipping weight

Environmental

Operational Temp.	-40° to +55°C (-40° to + 131° F)
Storage Temp.	-55° to +85°C (-67° to +185° F)

Test Set Certifications

MIL-PRF-28800F, Class 2 MIL-STD-810F	DoD AIMS MK XIIA Level 1 and Level 2

For complete certification list see APM-424(V)5 Specification Sheet

Accessories include a wheeled transit case (standard) and tripod (optional).

Export Control and Warning

VIAVI Solution's military products are 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.

VIAVI
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Официальный представитель в России
CDIP
www.cdip.ru
Тел: +7 (495) 956-20-22
E-mail: info@cdip.ru