

APM-424(V)5

MK XIIA Flight Line Test Set

Fast and reliable verification of mission critical IFF Mode 5 systems.

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 17-1000 MK XIIB Level 1 and Level 2 Certified¹
- Supports DoD AIMS 04-900A Option A and Option B crypto appliqué
- Transponder Test Modes 1,2,3/A, C, S (EHS/ELS), 4, Mode 5 (Level 1 and 2)
- DO-260B compliant; ADS-B Out test capability
- Interrogator Test Modes 1, 2, 3/A, C, S, 4, Mode 5, TCAS, ETCAS (Level 1 and 2)
- Windows Based Remote Interface GUI

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
- Diagnostics of all Transponder Modes including ADS-B with Remote GUI

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
- Option A: KIV-78 support
- Option B: KIV-77, KIV-79 and SIT-2010 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 and KIV-78/6 Adapter, 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 and 91067)
86769	KIV-78/KIV-6 adapter (included with 91066 and 91067)
58077	KIT/KIR-1C COMSEC cable
58078	RF direct connect cable
58081	RS-232 serial data cable
38589	RF adapter
22150762	AC power adapter
58080	DC power cable
905	External battery charger
47621	Battery sticks (x2)
88976	Getting Started manual
86805	Operators Manual and Remote Control GUI (CD)
67468	Bench utility software (CD)
22022754	Power cord, USA, Canada
22022744	Power cord, Continental Europe
62317	Power cord, U.K.
6154	Battery instruction sheet
Calibration certificate	

Optional Accessories

86769	KIV-78/KIV-6 adapter (included with 91066 and 91067)
64647	KIV-77 adapter (included with 86335 and 91067)
58082	Cable, KIT/KIR-1A COMSEC
58084	Automotive DC adapter cable
138331	Tripod, heavy duty
86633	Bench utility software with field maintenance (CD), required for maintenance and calibration.
86421	Maintenance manual (CD)
141388	Extended Range NiMH Battery ²

Physical Characteristics

Size: Test Set Only	7.5"H x 11.5"W x 14.1"D 19.05 cm x 29.21 cm x 35.81 cm
with Transit Case	20.4"H x 31.3"W x 15.5"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 Certifications³

MIL-PRF-28800F, Class 1

MIL-STD-810F

DoD AIMS 17-1000 MK XIIB Level 1 and Level 2 Certified¹

¹ Refer to CL2029503VS AIMS certification letter for full details

² Operating Temp -20° to +60°C (applicable only to the optional extended range NiMH Battery).

³ For complete certification list see APM-424(V)5 Specification Sheet



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