IFF-45TS
MK XIIA/TACAN Bench Test Set

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

The most important thing we build is trust

COBHAM

IFF-45TS

The RF signal generator of choice for the testing and qualification
of MK XIIA and TACAN requirements

COBHAM

Features

- MK XIIA AIMS certified for Level 1 and Level 2

- Supports DoD AIMS 04-900A Option A - KIV-78 & QRTK6 NG (with Airbus DS QRTK6 NG adapter) and Option B - KIV-77 & SIT-2010 crypto appliqués

- 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

- Remote interfaces consist of RS-232, Ethernet and GPIB

- Graphical User Interface (GUI) allows easy access to test features

- Test ranges of up to 3 km with appropriate antennas

Applications

- Engineering – Development and qualification testing for MK XIIA, ADS-B Beacon, and TACAN equipment

- Manufacturing - factory calibration and verification testing

- Depot/Service - Level 1/2, return-to-service testing

- Support for DO-260B, AIMS 03-1000A and DO-181D certification testing (Note: some limitations)

- 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

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See Product Specification Sheet for a more detailed specification.

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.

For a fully configurable automated test solution using the IFF-45TS as the RF source, see Cobham AvComm's IFF-7300S Series Automated Test System.

Dimensions

Size:

Test set only	4"H x 17.75"W x 21"D (10 cm x 45 cm x 53 cm)
Weight:	24 lbs. (10 kg)

Environmental

Temp Range	-10˚C to +55˚C

Test Set Certifications

UL

CE

DoD AIMS MK XIIA Level 1 and Level 2

VERSIONS, OPTIONS AND ACCESSORIES

Order Number	Description
72438	IFF-45TS Transponder Modes 1,2,3/A,4 (Internal Crypto),C,S (Mode 5 capable)
72439	IFF-45TS-A Transponder Modes 1,2,3/A,4 (Internal Crypto),C,S
140612	SERD 65A08, Kit, IFF-45TS Test Set
83404	45TSOPT1 IFF Transponder Mode 5 (for use with Order Number 72438 only)
83405	45TSOPT2 Interrogator Modes 1,2,3/A,C,S,4
83406	45TSOPT3 IFF Interrogator Mode 5 (for use with Order Number 72438 only, requires option 2 (83405))
83407	45TSOPT4 DME/TACAN
91684	45TSOPT5 ADS-B Out
112364	45TSOPT5 ADS-B Out (fielded units)

NSN Information:

6625-01-617-2567	IFF-45TS w/ options 1, 2, 3, 6, 8, 9
6625-01-611-6485	IFF-45TS with options 2 and 8

Standard Accessories

92053	PC Windows-based GUI (IFF45TS)
92054	Operation Manual (CD) (IFF45TS)
6138	Getting Started Manual (IFF45TS)
92053	PC Windows-based GUI (IFF45TS-A)
92054	Operation Manual (CD) (IFF45TS-A)
6138	Getting Started Manual (IFF45TS-A)
62302* or 62315**	AC power cord, *110V or **220V
30050	Serial data cable, 9 pin D, 1.5 meters

Optional Accessories

88631	45TSOPT6 KIV 77 adapter (Opt B)
89879	45TSOPT8 KIT/KIR-1A/C adapter
86075	45TSOPT9 KIV 78/KIV 6 adapter (Opt A)

Order Number	Description
63975	Controller w/ touch-screen monitor, w/ Mode 5 GUI
140416	Controller w/ touch-screen monitor, w/ Mode 4 GUI
112349	UC-584 coupler kit, dual antenna
112350	UC-584 coupler kit, single antenna
138553	Kit, Laptop with IFF45TS Mode 4 GUI
138552	Kit, Laptop with IFF45TS Mode 5 GUI
138512	Transit Case, IFF45TS
93023	IFF45TS Maintenance Manual
89345	IFF45TS-A Maintenance Manual
91771	Antenna

Extended Warranty (2 year standard)

84363	36 months with scheduled calibration
84364	60 months with scheduled calibration

For further information please contact:

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