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
**IFF-45TS**

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

**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 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
- 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
- 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

**Applications**

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

**Dimensions**

- Size: 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**

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<tr>
<td>72438</td>
<td>IFF45TS Transponder Modes 1.2.3.A (Internal Crypto) C.S (Mode 5 capable)</td>
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<td>72439</td>
<td>IFF45TS-A Transponder Modes 1.2.3.A (Internal Crypto) C.S</td>
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<td>83404</td>
<td>45TSOPT1 IFF Transponder Mode 5 (for use with Order Number 72438 only)</td>
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<td>83405</td>
<td>45TSOPT2 Interrogator Modes 1.2.3.A.C.S.4</td>
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<td>83406</td>
<td>45TSOPT3 IFF Interrogator Mode 3 (for use with Order Number 72438 only, requires option 2 (83405))</td>
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<td>91684</td>
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<td>6625-01-617-2567</td>
<td>IFF-45TS with options 1, 2, 3, 6, 8 and 9</td>
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<td>6625-01-611-6485</td>
<td>IFF-45TS with options 2 and 8</td>
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**Standard Accessories**

- 92053 PC Windows-based GUI
- 92054 Operation Manual (CD)
- 6138 Getting Started Manual
- 62302 AC power cord

**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)
- 63975 45TSOPT5 ADS-B Out
- 112349 UC-584 Coupler Kit, Dual Antenna
- 112350 UC-584 Coupler Kit, Single Antenna
- 91771 Antenna

**NSN Information:**

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

**Export Control:**

This product is 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.

**Export Warning:**

Cobham AvComm’s military products are controlled for export under the International Traffic in Arms Regulations (ITAR) and may not be sold 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.

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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.