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 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

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: | 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

### NSN Information:

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<tr>
<th>Order Number</th>
<th>Description</th>
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<td>IFF-45TS w/ options 1, 2, 3, 5, 8, 9</td>
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<td>6625-01-611-6485</td>
<td>IFF-45TS w/ options 2 and 8</td>
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### Standard Accessories

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<tr>
<th>Order Number</th>
<th>Description</th>
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<tr>
<td>92053</td>
<td>PC Windows-based GUI (IFF45TS)</td>
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<td>92054</td>
<td>Operation Manual (CD) (IFF45TS)</td>
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<td>6138</td>
<td>Getting Started Manual (IFF45TS)</td>
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<td>92053</td>
<td>PC Windows-based GUI (IFF45TS-A)</td>
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<tr>
<td>6138</td>
<td>Getting Started Manual (IFF45TS-A)</td>
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<tr>
<td>62302* or 62315**</td>
<td>AC power cord. *110V or **220V</td>
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<td>30050</td>
<td>Serial data cable. 9 pin D. 1.5 meters</td>
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### Optional Accessories

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<th>Order Number</th>
<th>Description</th>
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<td>88631</td>
<td>45TSP06 KIV 77 adapter (Opt B)</td>
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<td>89879</td>
<td>45TSP08 KIV/1013/3A/C adapter</td>
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<td>86075</td>
<td>45TSP09 KIV 78/KIV 6 adapter (Opt A)</td>
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### 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, Libya, Liberia, Libya, North Korea, Somalia, Syria, Sudan, and Vietnam. See ITAR 126.1 for complete information.

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