

# Avionics

**AvionTEq**  
www.avionteq.com

## IFF-701Ti Transponder/Interrogator Test Set

**AEROFLEX**  
A passion for performance.



The IFF-701Ti is an 'O' Level/1st Line, portable battery operated test set for testing IFF MK12/Mode S Transponders and MK12 Interrogators installed in airborne, naval or land based platforms. The IFF-701Ti may also be used for 'I' Level/2nd Line filter bench testing.

- Menu driven via sealed keypad and back lighted 6 line x 40 character LCD sunlight readable display
- Accurate parametric measurements XPDR/Interrogator TX Peak Power, TX Frequency & RX sensitivity
- XPDR auto-test minimizes test time Semi-automated Interrogator testing
- User selectable Configuration Files XPDR factory defaults provide combinations of modes to be auto-tested plus parametric test limits to STANAG 4193/AIMS 97-1000. Interrogator factory defaults provide parametric test limits to STANAG 4193/AIMS 97-1000
- Mode 4 KIT/KIR-1C interface, Stored Code operation, Crypto's may be powered from test set supplied +28V DC. Optional KIV-6 interface
- TCAS 1 & 2/E-TCAS Test Capability
- Mode S XPDR tests compliant with test requirements of FAR Part 43 Appendix 'F'. Mode S Level 3
- Built-in self test
- Universal Line Supply 100 to 240 V
- External DC operation 11 to 32V, Liion Battery 3.5 Hrs operational duration
- XPDR 'O' Level/1st Line point and shoot operation via directional antenna
- CE Compliant

#### **DIMENSIONS**

28.4 cm Width; 36.1 cm Depth; 27.9 cm Height excluding spacer  
11.2 in. Width; 14.2 in. Depth; 11 in. Height excluding spacer

#### **WEIGHT**

13 kg (29 lbs)  
17 kg (37 lbs) with spacer section

#### **CALIBRATION PERIOD**

12 Months

#### **NATO STOCK NUMBERS**

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#### **IFF-701**

6625-01-468-7633 (USA)

#### **IFF-701Ti**

6625-01-468-4809 (USA)

#### **SIM-701**

6625-99-5938197 (UK)

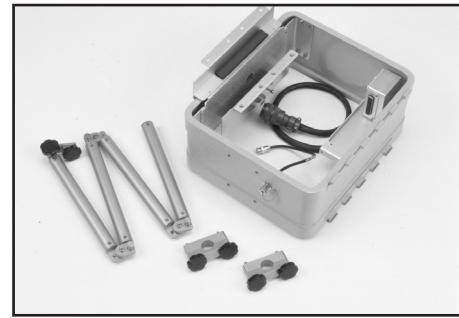
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**ACCESSORIES**

When ordering please quote full ordering number information

| Item                                   | Description/Use   |
|--|---|
| <b>Supplied Accessories</b>            |   |
| Line Cord                              |   |
| RF Coax Cable                          | Connects Directional Antenna to IFF-701Ti   |
| Operator's Manual                      |   |
| Directional Antenna                    | Used for all tests  |
| TNC-BNC<br>lobing Adaptor x 2          | For direct connection to antenna feeders,<br>switches and transponder   |
| Crypto Umbilical                       | Connects IFF-701Ti to KIR/KIT-1C-TSEC<br>Crypto, Length 3ft for stored code loading<br>or direct Crypto operation. Provided with<br>4ft power leads for +28 VDC aircraft battery<br>connection. Also provides 115 VAC input.  |
| Ext DC Input Cable                     | For powering unit off of External DC source   |
| <b>Optional Accessories</b>            |   |
| SIM-701 Monopulse<br>Antenna Simulator | For direct connect testing of interrogator<br>sum & difference channels.  |
| Case spacer section<br>AC1006          | Provides antenna pole mounting brackets<br>and antenna bulkhead connector for sealed<br>case operation. Also provides antenna<br>mount poles, storage for antenna mount<br>pole sections and antenna bulkhead to test<br>set RF coax cable. Provides KIV-6/16<br>applique crypto mount tray storage and<br>umbilical cable. |

All Aeroflex Avionics products delivered with Factory Certificate Of Calibration



Optional spacer (AC1006) and accessories

**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:**

Aeroflex's military products are controlled for export under the International Traffic in Arms Regulations (ITAR) and 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.

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Our passion for performance is defined by three attributes represented by these three icons: solution-minded, performance-driven and customer-focused.