

# VIAVI

## IFF-7300S Series

Automated Test System for military transponders, interrogators, cryptos and TACAN transceivers

The IFF-7300S Series is a powerful computer based system that contains all required resources and emulates all necessary signals that the aircraft exerts on the unit under test (UUT).



### Aircraft Emulation and Test Setup

- No need for an external power supply
- The radio is completely set up and ready for full testing

### Test Modes

- Automated return-to-service testing (Level 1 / O-Level)
- Automated module level diagnostics (Level 2 / I-Level)
- Manual mode testing using VIAVI's proprietary VirtualPanel™ application software

### Automated Testing per OEM Procedures

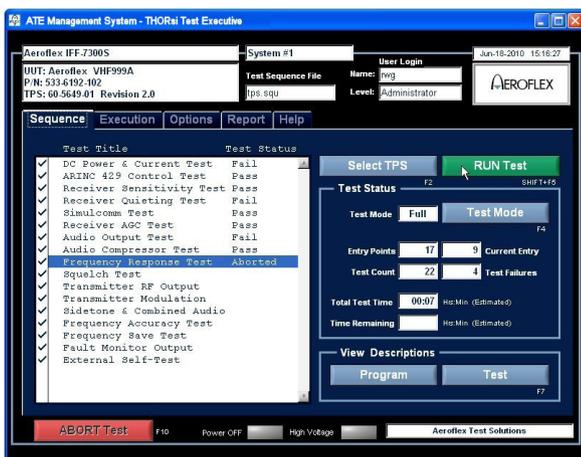
- Significant time is saved over manual testing
- Automated "test scripts" eliminate possibility of inconsistent testing
- Test reports are automatically stored electronically for future reference
- Traceability of results available for audits

### Other Benefits

- Ease of use – navigating between test modes is as easy as pushing a button
- Affordable – no need for purchasing multiple stations that take up valuable lab space; purchase only the Test Program Sets (TPS) that you need today
- Expandable – to add test capability, simply purchase additional TPSs
- In-house test/repair capability eliminates long delays and reduces number of spares needed
- Save money on return-to-service testing, maintenance, repair, No-fault-found (NFF), and shipping

### VIAVI Proprietary Test Executive Software

THORsi was developed and tailored specifically for aerospace applications, allowing for efficient scalability. It runs on Windows® OS and has an intuitive operator interface which reduces training time.



## Ordering Information

### Versions (Base Systems)

Order Number	Description
90973	IFF-7300S-01 Test System with IFF-45TS-A (Modes 1, 2, 3/A, 4, C, S) and DC UUT power supply
90974	IFF-7300S-02 Test System with IFF-45TS-A (Modes 1, 2, 3/A, 4, C, S) and AC/DC UUT power supply
90975	IFF-7300S-03 Test System with IFF-45TS (Modes 1, 2, 3/A, 4, 5, C, S) and DC UUT power supply. For NATO countries requiring Mode 5.
139626*	IFF-7300S-03 Test System with DC UUT power supply. For NATO countries requiring Mode 5. Note: IFF-45TS (Modes 1, 2, 3/A, 4, 5, C, S) not included - customer must supply.
90976	IFF-7300S-04 Test System with IFF-45TS (Modes 1, 2, 3/A, 4, 5, C, S) and AC/DC UUT power supply. For NATO countries requiring Mode 5.
112402*	IFF-7300S-04 Test System with AC/DC UUT power supply. For NATO countries requiring Mode 5. Note: IFF-45TS (Modes 1, 2, 3/A, 4, 5, C, S) not included - customer must supply.
112285	IFF-7300S-50 Test System with 2 IFF-45TS's (Modes 1,2,3/A, 4, 5, C, S). For NATO countries requiring Mode 5.
92717*	IFF-7300S-50 Test System with 1 IFF-45TS (Modes 1,2,3/A, 4, 5, C, S). For NATO countries requiring Mode 5. Note: 2nd IFF-45TS (Modes 1, 2, 3/A, 4, 5, C, S) not included - customer must supply.
72438	IFF-45TS Transponder Modes 1,2,3/A,4 (Internal Crypto),C,S (Mode 5 capable)

\*Note: This configuration requires customer supplied IFF-45TS.

### Options

83404	45TSOPT1 IFF Xndr Mode 5 option
83405	45TSOPT2 Interrogator Modes 1,2,3/A,C,S,4
83406	45TSOPT3 IFF Interrogator Mode 5 (requires Option 2)
83407	45TSOPT4 DME/TACAN option
88631	45TSOPT6 KIV-77 adapter
89879	45TSOPT8 KIT/KIR adapter
86075	45TSOPT9 KIV-78/KIV 6 adapter
90983	IFF7300S-OPT01 MIL-STD-1553 bus control
90986	IFF7300S-OPT04 Synchro/ Resolver Receiver (Required for TACAN testing)
90987	IFF7300S-OPT05 Synchro/ Resolver Transmitter (Required for TACAN and indicator testing)
91074	IFF7300S-OPT08 THORSi TPS Developer Training Program

### Export Control and Warning

VIAMI Solution's military products are 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. This product 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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To reach the VIAMI office nearest you, visit  
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Product specifications and descriptions in this document are subject to change without notice.  
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## TPSs Currently Available

90982	IFF-7300S System Self-test (included with base unit)
<i>Contact Rockwell Collins for quote</i> 90981 138521	AN/ARN-153(V) (see IFF-7300S Series Product Catalog for variants list) O-Level TPS (w/TUA) O-Level plus I-Level TPS (w/TUA), includes VirtualPanel™
142792	KIV-77 Crypto (P/N 0N696419) Operational TPS (tests crypto utilizing Red/Black keys)
142793	KIV-78 Crypto (P/N 0N706722) Operational TPS (tests crypto utilizing Red/Black keys)
88518 92014	APX-100 Panel Mount (see IFF-7300S Series Product Catalog for variants list) Level 1 TPS Level 2 TPS (includes VirtualPanel™)
90768 92015	APX-100 Remote Mount (see IFF-7300S Series Product Catalog for variants list) Level 1 TPS Level 2 TPS (includes VirtualPanel™)
90997 92891	APX-100 1553 Bus (see IFF-7300S Series Product Catalog for variants list) Level 1 TPS Level 2 TPS (includes VirtualPanel™)
91604	APX-100 Control Head (see IFF-7300S Series Product Catalog for variants list) Level 1 TPS
90978	APX-101, Level 1 TPS
92890	APX-101, Level 2 TPS (includes VirtualPanel™)
90977	APX-72, Level 1 TPS
91605	C-6280 Control Head, Level 1 TPS

## Physical Characteristics

Enclosure weight and dimensions are approximate.

Dimensions	17.5 in H x 19.25 in W x 24.5 in D (44.5 cm x 49.5 cm x 62.2 cm)
Weight	120 lbs (54.4 kg) with DC power supply 150 lbs (68.0 kg) with AC/DC power supply

## Environmental

Operating Temp	0° to +40° C (32° to 104° F)
Storage Temp	-20° to +70° C (-4° to 158° F)
EMI	MIL-STD-461E

See IFF-7300S Series Product Catalog for complete specification.