

Brochure

# VIAVI

## IFR6000-EMB

Transponder/DME/TCAS Flight Line Test Set  
(Embraer Configuration)

Test modes A/C/S, 1090 MHz ADS-B and  
978 MHz UAT, TCAS I and II, and DME.

The VIAVI IFR6000 is an industry standard flight line test set that allows for fast, reliable, and functional testing of installed avionics systems. Referenced in many OEM manuals and supported with procedures, the IFR6000 provides the operator with the confidence necessary for performance testing.



### Features

- Transponder Auto Test (DO-181E)
- Automated ADS-B performance testing and reporting
- Monitor and decode:
  - ADS-B (DO-260A/B)
  - AC 20-165B surface/air auto test
  - UAT
- Target generator
  - ADS-B 1090 MHz (DO-260A/B surface and air)
  - UAT 978 MHz (ADS-B, TIS-B, FIS-B)
- Comprehensive GICB test
- DME ground station simulation
- UUT parametric tests
- User programmable TCAS scenarios
- Altitude encoder
- Over-the-air, direct, or coupled testing
- Battery operation six hours plus

### Benefits

- Provides a full FAR Part 43, Appendix F test
- Verification of ADS-B/UAT installed systems
- Avoid ATC interference with optional coupler
- Data dump of transponder test results to PC
- Software updates available via website

## Ordering Information

### Versions and Options

Order Number	Description
72423	IFR6000-EMB Transponder/DME Test Set (Embraer configuration) Includes: 72422 IFR6000 Mode A/C/S Transponder and DME Ramp Test Set 83410 6000OPT2 TCAS (TIS) 83411 6000OPT3 ADS-B 1090 MHz

### Available Options

112795*	6000OPT5 UAT 978 MHz (for fielded units without Mod 2, see 113153)
113153*	6000OPT5 UAT 978 MHz (Pre-Mod 2 fielded units, factory install only)
140609*	6000OPT6 ADS-B Integrity Test Option (see ADS-B INTEGRITY™ Test App data sheet for more information)

\*Includes cables and accessories

### Standard Accessories

10241	Transit case
62302	Power cord, 110V
64020	Power cord set, 220V
62401	TNC/TNC Coax. 12 in.
112830	TNC/TNC Coax. 72 in.
56080	Fuse, 5 Amp. 32V
112684	Antenna
64749	Antenna shield
64580	Breakout box
67366	Power supply
63656	Desk top stand
67474	Tripod
6361	Tripod dolly
6096	Getting Started Manual
6093	Operation Manual - CD

### Optional Accessories

62462	25 ft. TNC/TNC coax.
86336	50 ft. TNC/TNC coax.
112349	UC-584 Coupler Kit, dual antenna
112350	UC-584 Coupler Kit, single antenna
141589	TCAS Accessory Kit
6095	IFR6000 Maint. Manual - CD

### Extended Warranty (2 year standard)

84366	36 months with scheduled calibration
84368	60 months with scheduled calibration

## Physical Characteristics

Size	11.2"H x 9.1"W x 2.7"D
Test set only	28.4 cm x 23.1 cm x 6.8 cm
w/ standard access.	24"H x 21"W x 12"D
	61 cm x 53.3 cm x 30.4 cm
Weight	8 lbs., 3.6 kg (test set only)
	34 lbs., 15.4 kg (shipping weight)

## Environmental

Operating Temp.	-20° to 55°C (-4° to 131°F)
Storage Temp.	-30° to 71°C (-22° to 159.8°F)

## Test Set Certifications

MIL-PRF-28800F, Class 2
MIL-STD-810F
UL, EN, CE



IFR6000 with antenna

### Radiated Testing:

The IFR6000 is supplied with a directional antenna for over-the-air testing

### Direct Connect Testing:

The IFR6000 may be directly connected to the UUT via a supplied RF coax cable via the RF I/O port.



IFR6000 with standard accessories

Standard accessories include a breakout box for software updates and antenna shield to prevent uninhibited transmissions.



UC-584 Coupler

The optional UC-584 Antenna Coupler eliminates ATC interference.