

IFR 6000

Transponder/DME Ramp Test Set

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

The most important thing we build is trust

COBHAM



IFR 6000

Features an extremely easy to use interface where every parameter the user commonly needs to view is displayed on screen



Features

- Individual test modes: Mode S, ATCRBS Transponder, DME, TCAS, TIS, ADS-B MON/ ADS-B GEN (DO-260A/B), 978MHz UAT
- Large keys for gloved operation
- Simple user interface
- Lightweight and compact at 8 lbs.
- Battery operation 6 hours plus between charges
- Fully FAR part 43 appendix F compliant
- Transponder Auto-Test
- Data dump of transponder test results to PC
- Elementary and Enhanced Surveillance parameters (DAP's)
- Transponder level automatically determined and capability checked to avoid nuisance Auto-Test failures
- Comprehensive GICB test
- Configuration files for different classes of transponder

- Comprehensively tests any DME channel including track sensitivity
- User selectable TCAS scenarios
- TCAS fast scenario feature uses Auto Altitude and Converge to ensure automatic collision at zero range
- Over-the-air or direct-connect operation
- Parametric measurements including TX power and frequency
- USB flash drive software update via web site download
- Optional ADS-B capabilities are DO-260A/B compliant
- Optional TCAS and 978 MHz UAT capability
- Optional testing using UC-584 Coupler



Applications

- Verification of operation and installation of Mode S of ATCRBS transponders and ADS-B DF17 extended squitter transponders or 1090 MHz DF18 extended squitter emitters (ADS-B MON)
- Verification of operation ADS-B DF17/ DF18 receivers (ADS-B GEN)
- Verification of operation and installation of 978MHz UAT systems
- Elementary and Enhanced Surveillance DAPs
- DME interrogators, TIS systems, and TCAS I or TCAS II systems



Radiated Testing:

The IFR 6000 is supplied with a lightweight fully sealed directional antenna that may be test set mounted, hand held or tripod mounted.

Direct Connect Testing:

The IFR 6000 may be directly connected to the UUT via a supplied RF coax cable via the RF I/O port.

IFR 6000

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

Use:	Pollution Degree 2
Altitude:	≤4800 meters
Operating Temp:	-20°C to 55°C
Storage Temp:	-30°C to 71°C
Relative Humidity:	95% (±5%) from 5° to 30°C
	75% (±5%) from 30° to 40°C
	45% (±5%) from 40° to 55°C

Test Set Certifications

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

For complete certification list, see Product Specification Sheet

VERSIONS, OPTIONS AND ACCESSORIES

Order Number	Description
72422	IFR6000 Mode A/C/S Transponder and DME Ramp Test Set NSN: 6625-01-069-5582
83410	6000OPT2 TCAS (TIS)
83411	6000OPT3 ADS-B 1090 MHz
112795	6000OPT5 UAT 978 MHz
Standard Accessories	
10241	Transit case
62302	Power cord, 110 V
64020	Power cord set, 220 V
62401	TNC/TNC COAX, 72 in.
62402	TNC/TNC COAX, 12 in.
56080	Fuse, 5 Amp, 32 V
91771	Antenna
64749	Antenna shield
64580	Breakout box
67366	Power supply
6096	Getting Started Manual
6093	Operation Manual - CD

Optional Accessories

63656	Desk Top Stand
67474	Tripod
82553	Tripod, Dolly, Stand
62462	25 ft TNC/TNC COAX
86336	50 ft TNC/TNC COAX
86931	UC-584 Universal Transponder Antenna Coupler
112349	UC-584 Coupler Kit, dual antenna
112350	UC-584 Coupler Kit, single antenna
6095	IFR 6000 Maintenance Manual - CD

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