

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.

See Product Specification Sheet for a more detailed specification.

Physical Characteristics

| | |
|---------------------|--|
| Size: | |
| Test set only | 11.2"H x 9.1"W x 2.7"D 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

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|-------------------------|
| 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 NSN: 6625-01-529-1369 (220V) NSN: 6625-01-561-7078 (w/ Options 2 & 3) NSN: 6625-01-567-5667 (220V w/ Options 2 & 3) |
| 83410 | 6000OPT2 TCAS (TIS) |
| 83411 | 6000OPT3 ADS-B 1090 MHz |
| 112795* | 6000OPT5 UAT 978 MHz |
| 113153* | 6000OPT5 UAT 978 MHz (for fielded units) |
| 140609* | 6000OPT6 ADS-B Integrity Test Option |

*Includes cables

Standard Accessories

| | |
|--------|-----------------------|
| 10241 | Transit case |
| 62302 | Power cord, 110 V |
| 64020 | Power cord set, 220 V |
| 62401 | TNC/TNC COAX, 12 in. |
| 112830 | TNC/TNC COAX, 72 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 |
| 112349 | UC-584 Coupler Kit, dual antenna |
| 112350 | UC-584 Coupler Kit, single antenna |
| 6095 | IFR 6000 Maint. Manual - CD |

Extended Warranty (2 year standard)

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

For further information please contact:

Cobham AvComm
10200 West York Street
Wichita, KS 67215 USA
T: (316) 522-4981
F: (316) 522-1360
AvComm.TechSales@cobham.com

or contact your local Cobham AvComm sales office