The VIAVI IFR6015 is a user friendly flight line test set that allows for fast, reliable, and functional testing of military transponder, TCAS and TACAN installed systems. Referenced in many OEM manuals and supported with procedures, the IFR6015 provides the operator with the confidence necessary for system performance testing.

**Features**
- IFF Modes 1 & 2
- TACAN/DME interrogator testing
- Military E-TCAS
- Transponder Auto Test (DO-181E)
- Automated ADS-B AC 20-165B surface/air performance testing
- ADS-B (Out) monitor and decode
- ADS-B (In) target generation
- UUT parametric tests
- User programmable TCAS scenarios
- Altitude encoder
- Over-the-air, direct, or coupled testing
- Battery operation six hours plus

**Benefits**
- TACAN ground station simulation
- Legacy TACAN test set emulation
- Provides a full FAR Part 43, Appendix F test
- Verify ADS-B /UAT installed systems
- With the optional antenna coupler, avoid ATC interference and the need for frequency allocation approval (DD 1494)
- Performs TACAN/DME testing Ground-to-Air (G/A), Air-to-Air (A/A)
- Simulate ATCRBS or Mode S intruders for TCAS testing
## Ordering Information

### Versions and Options

<table>
<thead>
<tr>
<th>Order Number</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>72424</td>
<td>IFR6015 Mode 1,2,3A/C/S Transponder, TACAN/ DME, TCAS I/III, E-TCAS, TIS Ramp Test Set NSN: 6625-01-578-4893 NSN: 6625-01-574-2424 NSN: 6625-01-601-4034*</td>
</tr>
<tr>
<td>141590</td>
<td>IFR6015 Test Set w/ 6000OPT3 and 6000OPT6 options</td>
</tr>
<tr>
<td>83411</td>
<td>6000OPT3 ADS-B 1090 MHz</td>
</tr>
<tr>
<td>112795**</td>
<td>6000OPT5 UAT 978 MHz (for units with Mod 2 upgrade installed)</td>
</tr>
<tr>
<td>141751**</td>
<td>Kit, UAT upgrade (includes Opt. 5 and Mod 2 factory upgrade)</td>
</tr>
<tr>
<td>140609**</td>
<td>6000OPT6 ADS-B Integrity Test Option</td>
</tr>
</tbody>
</table>

*Most current NSN, identified on unit serial tag

**This option 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
- 6101: Getting Started Manual
- 6097: Operation Manual - CD (AC0825CD)

### Optional Accessories

- 63656: Desk top stand (AC0820)
- 67474: Tripod (AC0826)
- 82553: Tripod, dolly, stand (AC24006)
- 112349: UC-584 Coupler Kit, dual antenna
- 112350: UC-584 Coupler Kit, single antenna
- 141589: TCAS Accessory Kit
- 6099: IFR6015 Maintenance Manual - CD

### Extended Warranty (2 year standard)

- 84373: 36 months with scheduled calibration
- 84374: 60 months with scheduled calibration

---

## 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

- **Altitude:** ≤ 4800 meters
- **Operating Temp.:** -20˚ to 55˚C (-4˚ to 131˚F)
- **Storage Temp.:** -30˚C to 71˚C (-22˚ to 159.8˚F)
- **Relative Humidity:**
  - 95% (+5%) from 5˚ to 30˚C (41˚ to 86˚F)
  - 75% (+5%) from 30˚ to 40˚C (86˚ to 104˚F)
  - 45% (+5%) from 40˚ to 55˚C (104˚ to 131˚F)

## Test Set Certifications

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

---

## Radiated Testing:

The IFR6015 is supplied with a directional antenna for over-the-air testing.

### Direct Connect Testing:

The IFR6015 may be directly connected to the UUT with the supplied RF coax cable via the RF I/O port.

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

**The optional UC-584 Antenna Coupler eliminates ATC interference.**

This product is subject to the Export Administration ("EAR") (15 CFR 730-774) and may not be exported, re-exported or otherwise transferred to a foreign person, or outside the United States without authorization from the U.S. Department of Commerce.