

Product Brief

VIAMI

ALT-8000

FMCW/Pulse Radio Altimeter Flight Line Test Set

Versatile, time-saving, portable test set for testing installed FMCW and pulse radio altimeters.

The VIAMI ALT-8000 is the world's first and only RF-based portable radio altimeter flight line test set. The ALT-8000 tests from the TX/RX antennas to the indicator in the cockpit, allowing the operator to replicate in-flight conditions, and isolate a bad component of the installed system.



Features

- Remote control interface (Ethernet)
- Direct-connect to UUT T/R or to installed system via antenna couplers
- Programmable multi-leg climb/descend profiles
- Software updates downloaded via website
- Parametric measurements of TX power / frequency / pulse width / FM deviation / PRF

Benefits

- Battery operation of 4 hours plus between recharges
- Test pulse radio altimeters (non-pulse compression types)
- Create profiles to control dynamic altitude simulations
- Test FMCW radio altimeters including analog
- Radio-metric RF loop test allows TX, RX, antenna or feeder faults to be identified

Applications

- Terrain Awareness Warning System (TAWS) installation
- Simulate a complete landing approach, including a flare out
- Simulate a takeoff and departure
- Replicate actual airborne conditions
- See ALT-8000 supported *RADALT Equipment List* for a complete, up-to-date list

Ordering Information

Versions and Options

| Order Number | Description |
|--------------|---|
| 87340 | ALT-8000 Radio Altimeter Test Set NSN: 625-01-610-3549 |

Standard Accessories

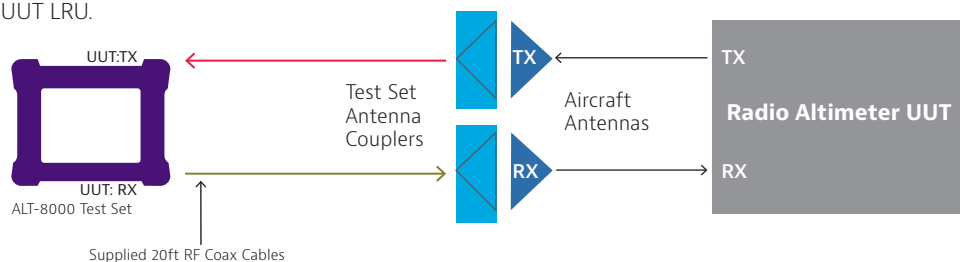
| | |
|--------|----------------------------------|
| 139137 | Transit Case |
| 67374 | Power supply |
| 62401 | Cable, TNC-TNC, 12" (Loop Back) |
| 38353 | TNC-TNC adapter (qty 2) |
| 139139 | Antenna coupler (qty 2) |
| 139152 | Antenna coupler pole set (qty 2) |
| 88511 | Coax, RG400, TNC-TNC, yellow 20' |
| 89527 | Coax, RG400, TNC-TNC, red 20' |
| 112036 | Attenuator, fixed 20 db |
| 62302 | Power cord, U.S. |
| 64020 | Power cord, European |
| 88035 | Operation Manual (CD) |
| 88036 | Getting Started Manual |

Optional Accessories

| | |
|-------|---|
| 88500 | Low loss RF coax cable 100ft. (qty 2) w/ soft-side case |
| 87040 | External battery charger |
| 86196 | Spare battery pack |
| 89022 | Maintenance Manual (CD) |
| 91253 | Coax RG400 TNC-TNC, yellow 4' |
| 91255 | Coax RG400 TNC-TNC, red 4' |

RF Coupling

The supplied antenna couplers allow the radio altimeter system to be quickly verified, without access being required to test ports on the UUT LRU.



Physical Characteristics

| | |
|-------------------------|---|
| Size: | 10.6"H x 13.9"W x 3.4"D |
| Test Set Only | 27.0 cm x 35.5 cm x 8.7 cm |
| w/ standard accessories | 12"H x 30.5" W x 22.5"D 30.5 cm x 77.5 cm x 57.2 cm |
| Weight: | 15.5 lbs. (7.03 kg) test set only 62 lbs. (28.12 kg) shipping weight |

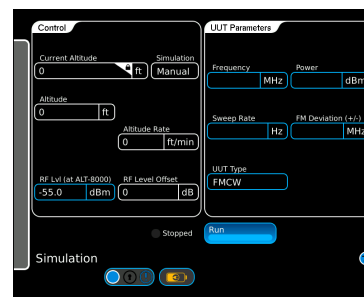
Environmental

| | |
|-------------------|--------------------------------|
| Operational 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 |
| CE, UL |

For a complete certification list, see ALT-8000 Specification Sheet



The graphical user interface provides various screens for control of the test set and display of parametric measurements.



Standard accessories include a rugged transit case and antenna.