VIAVI
ALT-9000

Universal Radio Altimeter Flight Line Test Solution

VIAVI Solutions

Versatile, time-saving, portable test set for all types of radio altimeters.

The VIAVI ALT-9000 is a portable radio altimeter flight line test set that utilizes fiber optic delay to allow it to work with all types of radio altimeters. The ALT-9000 tests the complete radio altimeter system, allowing the operator to isolate a problem to the antenna, coax, LRU or indicator. This eliminates unnecessary LRU swaps or other system component replacements.

Features

- Tests all types of radio altimeters, including LPI variants
- Direct-connect at the UUT TX/RX connectors or at the aircrafts TX/RX antennas via antenna couplers
- Fast detector for tracking LPI radio altimeters with TX power management
- Software upgradeable
- Parametric measurements of TX power/frequency/pulse width/FM deviation/PRF for most radio altimeter types
- Large touchscreen display

Benefits

- Perform complete closed loop system tests
- Replicate in-flight conditions
- Isolate faulty components of the installed system
- Create profiles for dynamic altitude simulations
- Simulate 5 ft* to 10,000 ft in 5 ft increments (Extended Range Option: Simulate 16,000 ft and 25,000 ft as discrete altitude selections)

Applications

- Simulate static or dynamic altitudes to support testing of TCAS and GPWS/TAWS aircraft systems
- Test RX sensitivity of the radio altimeter

*Minimum altitude dependent on interconnecting cables.

Ordering Information

Versions and Options

Order Number	Description
ALT-9000 or 22145341	ALT-9000 Radio Altimeter test kit
ALT-9000OPT1 or 22156699	16K and 25K ft extended range
ALT-9000B or 22162529	ALT-9000B Radio Altimeter test kit with Keyed Adapter compatible with F-15 CARA RADALTS

Standard Accessories

22151020	ALT-9000 Radio Altimeter test set
22153534	Transit case
67374	Power supply
22116266	Battery (installed in test set), Lithium (14.4 V, 6.8 Ah)
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)
22153321	Coax, RG400, TNC-TNC, yellow 4'
22153326	Coax, RG400, TNC-TNC, red 4'
22153329	Coax, RG400, TNC-TNC, yellow 20'
22153332	Coax, RG400, TNC-TNC, red 20'
112036	Attenuator, fixed 20 db (qty 2)
62302	Power cord, U.S.
64020	Power cord, European
22149666	Operation Manual (CD)
22149658	Getting Started Manual
22162292	Keyed Adapter connection cable (ALT-9000B kit only)

Optional Accessories

ALT-9000-MM	Maintenance Manual

Physical Characteristics

Size

Test set case	8.4 in H x 18.6 in W x 16.3 in D
	21.4 cm x 47.4 cm x 41.5 cm
w/standard transit case, or accessory case	16.4 in H x 33.7 in W x 28.5 in D
	41.6 cm x 85.6 cm x 72.4 cm

Weight

Test set only	32 lbs, 14.5 kg
Kit	88 lbs, 39.9 kg

Environmental

Operational temp.	-10° to 55°C (14° to 131°F)
Storage temp.	-30° to 70°C (-22° to 158°F)

Test Set Certifications

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

RF Coupling

The supplied antenna couplers allow the radio altimeter system to be quickly verified with a closed loop test.
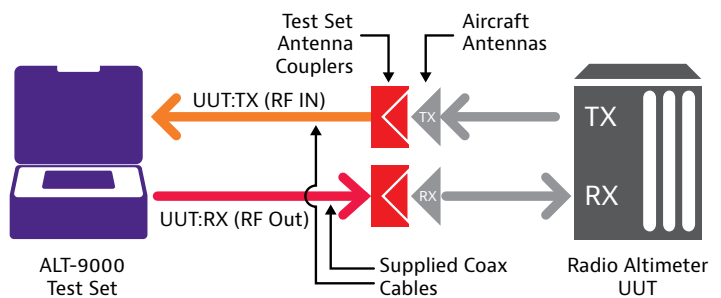
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All items required to test radio altimeter systems are included in the ALT-9000 kit.

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