

Rodale Electronics, Inc.

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AN/ALQ-167 Threat Radar Simulator

The Rodale Electronics Radar Simulator is the updated version Multi-Band Simulator Developed for the NATO Multiservice Electronics Warfare Support Group (MEWSG). It is configured within an AN/ALQ-167(V) Pod and emits pulsed RF to simulate various Air-to-surface missiles (ASM and SSM) for use in airborne EW trailing, test and evaluation applications.

10 Megawatts (100 DBM) Nominal Effective Radiated Power (ERP)... Pulsed RF Antennas... Interchangeable Kits... Forward Antenna Position

- ®Beamwidth Wide Or Narrow
- Polarization Linear, Horizontal Or Vertical, Manually Changed

Frequency Coverage (GHz)... Interchangeable Magnetrons

Other frequency bands can be provided in addition to those listed below.

- 7.8 - to 8.5 (H-Band)
- 8.5 - to - 9.6 (I-Band)
- 12.0 - to - 13.2 (J-Band)
- 14.0 - to - 15.2 (J-Band)
- 15.5 - to - 17.5 (J-Band)

Man-Machine Interface with the Simulator

- Cockpit Control Panel Single Or Dual, Optional
- Notebook Computer IBM PC Compatible RS-422 Serial Data Bus
 - Pre-Program Sixteen Emitter Scenarios
 - Real-Time Control Of Emitter Parameters
 - Automated Diagnostic Testing With Printer Output
 - On-Board Recording of Time-Tagged EW Scenarios
- Aircraft Multi-Function Display (MFD) Via RS-422 Or 1553B Serial Data Bus
- Electronic Support Measures (ESM) Via RS-422 Or 1553B Serial Data Bus

Programmable Scenario Parameters

- Transmit Frequency+ / - 10 MHz Accuracy 10 MHz Steps
- RF Pulse Width 0.1 - to -2.0 Microseconds 0.1 Microsecond Steps
- Scan Mode Four Available Modes:
 - Steady
 - Off-Center Azimuth Sector
 - Circular
 - Centered Azimuth Sector
- Scan Rate 0.1 - to - 10 Second 0.1 Second Steps
- Scan Delay 0.1 - to - 10 Second 0.1 Second Steps
- Scan Width 0.1 - to - 2.0 Second ... 0.1 Second Steps
- PRF Value 200 - to - 6000 Hertz 1.0 Hertz Steps
- PRF Jitter Zero - to - (+ / -) 100 Microsecond 1.0 Microsecond Steps
- PRF Stagger 2 - to - 15 Time Delay Increments
- PRF Stagger Increment ... Zero - to - 50 Microsecond ..., 1.0 Microsecond Steps
- Emitter Scenarios Sixteen Discrete Scenarios Flight-Line Programmable Via RS-422 Serial Bus
- Pre-Flight Diagnostics Execute Pre-Programmed Test Routines

Cockpit Control Panel Functions

- Emitter Scenario Switch Selects One Of Sixteen Pre-Programmed Scenarios
- Transmit Command Switch ... Three Positions .. OFF/STBY/OPER
- Test Switch Momentary Push-Button
- Pod Status Indicator Lights STBY (Standby) OPER (Operate) FLT (Fault)

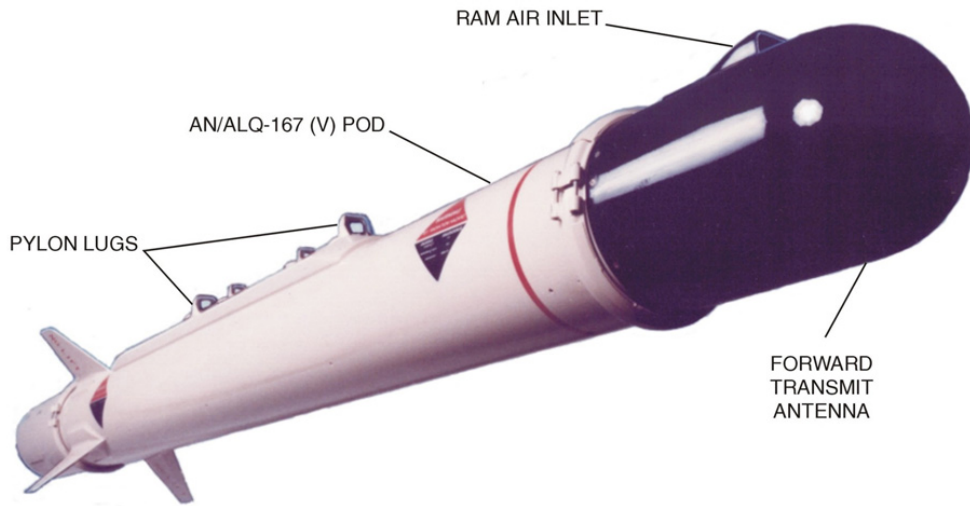
Power Input / Weights / Dimensions... Maximums

- POD... 115/200 VAC +/- 10 Percent, 3 Phase, 400 Hz... 10.0 Amps Per Phase
- POD... 175 Kg... Length 350 cm... Diameter 26 cm, Excluding Fins & Hardback
- Cockpit Control Panel (Single)... 0.9 Kg... Height 6.7 cm... Width 15 cm... Depth 17 cm

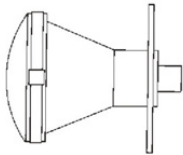
Ram Air Cooled... Modular Configuration... Flight Certified... Options Available

- Technical Support
- Expansion Provisions
- Depot Maintenance
- Airborne Uninhabited Environment
- Special Test Equipment
- Alternative 1553B Serial Data Bus
- Installation/Commissioning
- Internal Aircraft Fit Custom Designs
- Factory And On-Site Training
- Highly Reliable And Field Maintainable
- Spare Parts Consumables, Components, Subassemblies

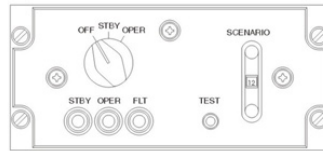
ALQ-167 THREAT RADAR SIMULATOR



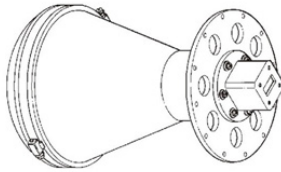
INTERCHANGEABLE MAGNETRONS



ANTENNA KITS
(TYPICAL)



COCKPIT CONTROL PANEL



NOTEBOOK COMPUTER



15.5-17.5 GHZ

14.0-15.2 GHZ

12.0-13.2 GHZ

8.5-9.6 GHZ

7.8-8.5 GHZ

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