

GENERAL DESCRIPTION

The **RSS-2000** is a family of light-weight, compact, man-portable **Radar Signal Simulators** and EW test units designed for flight line and lab operation. A single operator can perform a complete Radar Warning Receiver (RWR) or EW check of the entire system from antenna through cockpit display. The system has proved to be extremely reliable and user-friendly, both for operation and programming of threat scenarios.



KEY FEATURES

- All emitters can be PRI, PW, and FREQ Agile
- Dual Beam, pulse-on-pulse, pulse-on-CW simulation
- Man-portable rugged package
- Battery operation from 1-3 hours
- Built-in antennas for flight-line, shipboard and pier side radiation
- Coupled or radiated outputs
- Minimum +23 dBm coupled mode

APPLICATIONS

- End-to-end ESM/ECM system integrity test: Flight-Line, Shipboard, Pier side
- Critical emitters library validation
- Maintenance shop tool in coupled output mode
- On-board EW trainer for shipboard or A/C pods
- Low-level exciter for range or airborne emitter simulator
- Optional remote operation for decoy applications

ADDITIONAL FEATURES

- Transmits simultaneous multi-threats in both CW and pulses
- Variety of pulse patterns available
- Fully computerized and keyboard operated
- Pre-programming of selected threat signals
- Output power enables directional threat testing around aircraft
- Controlled output power with attenuation steps
- Battery operated or 115/230 VAC
- Automatic or Manual modes of operation
- Full solid state construction
- Built-in-Test (BIT) circuitry, with On-Line Monitoring
- Easily maintainable, using removable, plug-in modules
- Durable and ruggedized to withstand severe environmental conditions, based on Standards for Combat Field Test Equipment

Note: Specifications are subject to change without notice.

FREQUENCY CHARACTERISTICS

Coverage	11 different RF sources at 0.5 to 40.0 GHz (each model determines the specific frequencies requested by the customer)
Accuracy	0.5 to 2.0 GHz: +/-5.0 MHz 2.0 to 6.0 GHz: +/-5.0 MHz 6.0 to 18.0 GHz: +/- 5.0 MHz
Spurious	-50d Bc
Harmonics	-20 dBc (-50 dBc option)

ANTENNAS

Type	Freq Coverage	Gain
Monopole	0.5-2.0 GHz	0 dBi Min
Horn	2.0-6.0 GHz	7 dBi Min
Horn	6.0-18.0 GHz	10 dBi Min
Horn	18.0-40 GHz	10 dBi Min
Polarization	Planar: Vertical, Horizontal Horn: Vertical, Horizontal	

PULSE CHARACTERISTICS

PRI Range	2.0 to 9,999 μ Sec
PRI Resolution	1 μ Sec
PW Range	200 nSec to 15 μ Sec
PW Resolution	100 nSec
PW Rise/Fall Time	<30 nSec

EMITTER ANTENNA CHARACTERISTICS

Aperture Distribution:	Omni, Sin X/X, User-Defined
Beam Width	1° to 99° (band dependent)
BW Resolution	0.1°
Number of Side lobes	3

OUTPUT POWER (Referring to Antenna Input)

0.5-2.0 GHz	22 dBm Max
2.0-6.0 GHz	27 dBm Max
6.0-18.0 GHz	27 dBm Max
18.0-40.0 GHz	20 dBm Max

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