

## GENERAL DESCRIPTION

The **RSS-2000** is a light-weight, compact, man-portable **Radar Signal Simulator** and EW test unit 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

- Man-portable rugged package
- 2 complex radar emitters simulation
- All emitters can be PRI, PW, and FREQ Agile
- Dual Beam, pulse-on-pulse, pulse-on-CW simulation
- Battery operation from 1-3 hours
- Built-in antennas for flight-line, shipboard and pier side radiation
- Scan Modulation option

## 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.



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#### FREQUENCY CHARACTERISTICS

Coverage	11 different RF sources at 0.5 to 18.0 GHz (18-40 GHz Option)
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	-50 dBc
Harmonics	-20 dBc (-50 dBc option)

#### PULSE CHARACTERISTICS

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

#### 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

Polarization Planar: Vertical, Horizontal  
Horn: Vertical, Horizontal

#### 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

#### 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	

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