

PORTABLE RADAR SIMULATOR (PRS)



KEY FEATURES

- THE PORTABLE, RAPID DEPLOYMENT SOLUTION FOR COST EFFECTIVE TRANSPORTABLE TESTING AND TRAINING
- PORTABLE FOR RAPID DEPLOYMENT
- 2GHZ TO 18GHZCOVERAGE AS STANDARD0.5 GHZ TO 18GHZOPTIONAL
- 2 VARIANTS SINGLE OR
- TRANSMISSION
- PROGRAMMABLE OVER A
 WIDE RANGE OF EMITTER
 PARAMETERS
- FREE SPACE RADIATING UP TO 5KM
- SQUADRON LEVEL TEST & TRAINING ASSET

DESCRIPTION

The PRS provides a cost-effective, transportable alternative test and training solution for helicopters, ships and low & slow transport aircraft applications. The PRS is available in 2 variants depending on level of test complexity desired.

PRS 1:

A programmable system capable of single threat transmission which utilises the COTS technology featured in the PTS8000 flight line confidence tester.

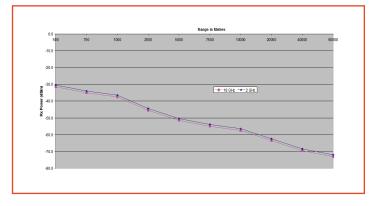
PRS 2:

A programmable system capable of complex multi-threat transmission which utilises the COTS technology featured in the RSS8000/CP.

Both of the above systems include a Portable Antenna System and 100W Amplifier module to generate the required RF power levels to enable short-to-medium range free space radiation at various platforms for training or for validation & verification applications. Platform tracking is achieved by use of a HD video camera mounted on a motorised pan/tilt head controlled via an auto tracking software package, emitters can be switched on/off via the GUI.

The HD Camera together with the respective high gain antennas are mounted on a ruggedised tripod. Both system types are programmed via an intuitive PC graphical user interface.

The user selects the threat and "fires" at the system under test to generate the appropriate response from the EW system. The use of unclassified "training PFM" threat libraries, which are matched to the threats generated by the PRS, can provide added realism to the training scenario.







The PRS system covers 2 - 18 GHz and comprises the following modules:

- Ruggedised transit case which houses the 100W amplifier & RF source
- Ruggedised tripod with motorized pan and tilt head, HD video camera and antenna mounting support.
- 2x high gain reflector antenna units covering 2 - 6 GHz and 6 -18 GHz
- RF cables and connectors
- Operator and Maintenance manuals

GENERIC SYSTEM SPECIFICATIONS

- 2GHz to 18GHz coverage as standard, 0.5 GHz to 18GHz optional
- Amplifier coverage 100 w 2 6 GHz and 6-18 GHz
- Antenna coverage 700mm Reflector antenna 2-6 GHz (+20dBi) 700mm Reflector antenna 6–18 GHz (+30dBi)
- Typical effective distance minimum 5 Km assuming receiver sensitivity is –50dBm
- System ERP 2.0 6 GHz 60dBm 6.0 18 GHz 80dBm
- Power Supply 240 VAC
- For PRS 1 or PRS 2 variant specifications, refer to the individual PTS8000 or RSS8000/ CP technical datasheets

Description	EWST Part Number	NATO Stock Number (NSN)
PRS 1 (PTS 8000 based system) Portable Antenna System with 100W amplifier	47963-0004	5840-99-668-1431
PRS 2 (RSS 8000/CP based system) Portable Antenna System with 100W amplifier	47964-0004	5840-99-258-9254
Portable Antenna System with 100W amplifier (no RF Source)	47887-0003	5985-99-613-6639



making a difference

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