

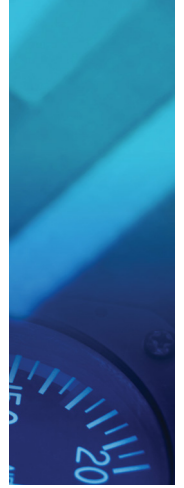
TEST, TRAINING & SIMULATION

# PRTS™

## PORTABLE RANGE THREAT SIMULATOR

### PROVIDING CONFIDENCE AND RELIABILITY THROUGH RADIO FREQUENCY (RF) TEST AND TRAINING SOLUTIONS

The Portable Range Threat Simulator (PRTS) is a modular package that is designed to be an affordable, transportable long range training tool. PRTS is capable of generating complex, multispectral signals for search, launch, track and other scenarios. It offers multispectral capability including UV, RF and EO/IR. The PRTS system is designed to be transported to field sites and set up quickly. It can be loaded into a full-size pickup truck, and requires only a small area for setup.



# MULTISPECTRAL CAPABILITY

## PORTABLE RANGE THREAT SIMULATOR (PRTS)

Using the advanced RF, UV and IR capabilities of the Textron Systems Model 527, UV Malina and IR Phoenix range simulators, respectively, PRTS is designed to be a confident and reliable test and training solution.

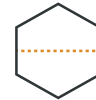
### SPECIFICATIONS



**PULSE TRIGGERS**  
Synchronized TTL logic pulse triggers



**AVAILABLE OPTIONS**  
Low-power man-portable  
High-power trailer-mounted



**ANTENNA DIAMETER**  
4 ft



**RF SOURCE**  
One RF source  
2-18 GHz amplified frequency range



**EFFECTIVE RADIATED POWER**  
90 dBm typical



**FREQUENCY ACCURACY**  
± 0.001%  
(single-frequency)



**SUPPORTING SYSTEMS**

- Ruggedized tripod
- High-gain antenna assembly
- Portable power source



**FREQUENCY SWITCHING SPEED**  
< 200 μsec single frequency (closed loop)  
< 1 μsec multiple frequency (open loop)



**FREQUENCY**  
PRTS: 2-18 GHz amplified out Model 527 Radar Signal Simulator: 500 MHz to 18 GHz; 28-40 GHz; 10-500 MHz (optional)



**RANGE**  
5 mi, typical

### NUMBER OF TIME MULTIPLEXED EMITTERS

- > Up to eight

### FREQUENCY RESOLUTION

- > Less than 500 kilohertz (kHz)

### ANTENNA POLARIZATION

- > Vertical linear

### PROFILE SELECTION

- > Via software, utilizing programmable scenarios

### MODES OF OPERATION

- > Continuous wave
- > Pulsed

### SCAN MODULATION TYPES

- > Circular
- > Loro
- > Dwell
- > Spiral
- > Orthogonal
- > Height finder
- > Helical
- > Sector
- > Conical
- > Raster
- > Palmer modifier

### UV/IR SOURCE/ SENSOR (OPTIONAL)

- > Testing out to 5 kilometers (km)
- > UV Mallina with Nemesis IR beacons and laser range finder
- > Flight test of missile warning receivers, directional IR countermeasures, and chaff/flare
- > Independent or triggered in RF sequence

### INTERGRATED PRODUCTS:



#### MODEL 527TM RADAR SIGNAL SIMULATOR

The PRTS module enables Textron Systems' handheld Model 527 Radar Signal Simulator to operate at extended ranges.



#### UV LED MALLINA™

The PRTS can incorporate preprogrammed Mallina profiles, which can be triggered to operate with the RF signals or used independently.

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SCAN FOR  
PRODUCT DETAILS

