



# HIGH-POWER PORTABLE RANGE THREAT SIMULATOR (HPRTS)

## PROVIDING REALISTIC PILOT TRAINING AGAINST RF THREATS

Textron Systems Electronic Systems' HPRTS offers multispectral threat generation capability, including RF, ultraviolet (UV), and infrared (IR). The system includes manual and automatic optical tracking, with both day and night systems. The HPRTS system is designed to be easily transported to remote field sites and requires a small footprint for setup. The system includes its own generator, making it completely self-sufficient in the field.

**TEXTRON** Systems

Electronic Systems

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# IN-FLIGHT PILOT TRAINING FOR RF THREATS

## HPRTS

### CHARACTERISTICS & BENEFITS



High Power Output  
Typical received power  
-27 dBm at 5 statute miles



Pedestal Min/Max Velocity,  
Elevation  
0.1°/sec to 25°/sec



Tracking Distance  
Up to 20 miles in clear  
weather, day or night



Wide Frequency Range  
4 – 18 GHz



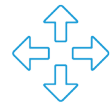
Maximum Operation Wind  
Loading  
50 mph sustained, 65 mph gust



Digital Video Recorder  
Record engagements



Robust Simulation Capability  
Derived from Model 527



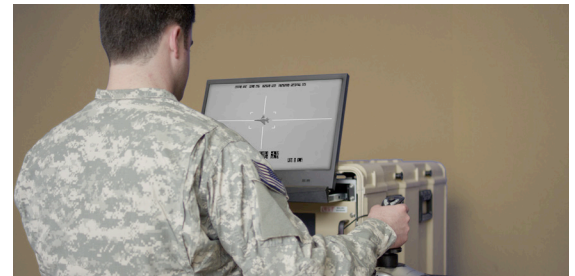
Pedestal Min/Max Velocity,  
Azimuth  
0.1°/sec to 20°/sec



Pedestal Travel Elevation  
-10° to +60°



Dynamic Pointing Accuracy  
.25°



An affordable training tool, the HPRTS incorporates the proven Textron Systems Model 527 Radar Simulator's RF capabilities to generate complex signals and threat scenarios. The scenario capability of the HPRTS allows realistic threat engagement scenarios such as search, track and launch to be simulated, providing precise training to aircrews.

The HPRTS is controlled by a common laptop computer. When using the HPRTS, the user has the option to fold down the antenna and ancillaries, which can be stored within the device during transportation.

### OPTIONAL ACCESSORIES:



The Ultraviolet (UV) Light-Emitting Diode (LED) Mallina is a medium- to long-range electro-optical (EO) system designed to stimulate UV missile warning.



The Phoenix Lite is a medium-range electro-optic system designed to stimulate one- and two-color infrared (IR) missile warning systems. It is utilized as a developmental and operational test and evaluation tool.

### RELATED PRODUCTS:



The Model 527 Radar Signal Simulator determines the status of electronic warfare radar warning receiver systems on operational aircraft through free-space radiation functional testing.



The PRTS is an affordable test and training tool that uses the Model 527's RF capabilities to generate complex signals and scenarios.

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