Textron Systems is a world leader in the development and supply of Ultra Violet/Infrared (UV/IR) threat emitters, including the UV LED Mallina and the IR Phoenix. These threat emitters are deployed by military organizations on open ranges to perform test and evaluation and training exercises of aircraft survivability equipment. Textron Systems has developed an automated tracking system to provide repeatability and accurate stimulation and measurement associated with complex or fast-moving test and evaluation exercises. A robust tracking system has the further advantage of supporting a larger payload that can include a broad range of calibration and recording equipment, as well as multiple stimulators and sensors.
GROUND THREAT EMITTER SENSOR SYSTEM

SYSTEM PERFORMANCE

NUMBER OF TEST PROFILES
8, plus visual BIT and Calibrated profile

PAYLOAD ALIGNMENT ACCURACY
Better than 0.25 mrad and repeatable with quick release mechanism

ENVIRONMENTAL

OPERATING TEMPERATURE
Pedestal system: -20°C to + 55°C, 100% RH

STORAGE TEMPERATURE
Pedestal system: -40°C to + 71°C

SYSTEM PERFORMANCE

PAYLOAD ALIGNMENT ACCURACY
Better than 0.25 mrad and repeatable with quick release mechanism

NUMBER OF TEST PROFILES
8, plus visual BIT and Calibrated profile

REMOTE CONTROL CONNECTION
RS 232/422 serial port

AZIMUTH TRAVEL
±135°

AIMING
Iron sight

MEMORY MEDIA TYPE
Easily accessible internal memory card

ELEVATION TRAVEL
-30° to + 80°

REMOTE CONTROL CONNECTION
RS 232/422 serial port

POWER
Internal rechargeable battery

User Interface
Switches, indicators and trigger switch and GUI

MINIMUM TRACKING RANGE
(3x3 m target) < 0.5 km

SAFETY
CE marked

STORAGE TEMPERATURE
Pedestal system: -40°C to + 71°C

OPERATIONAL RUGGEDNESS (RESISTANT TO)
> Up to 4 mm/hr of rainfall
> Winds up to 20 kts
> Salt fog
> Dust
> Solar radiation

MEMORY MEDIA TYPE
Easily accessible internal memory card

GROUND THREAT EMITTER SENSOR SYSTEM

GTRESS CAN BE PROVIDED WITH A COMBINATION OF DIFFERENT PAYLOADS INCLUDING, BUT NOT LIMITED TO:

> UV stimulator (UV LED Mallina™)
> IR stimulator (Phoenix single and two color options)
> Phantom™ Laser Threat Emitter
> IR target source and detector for DIRCM (IRM-16)
> Laser range finder (Mallina LRF or third party options)
> Visible camera (for recording and/or tracking)
> MWIR camera (for recording and/or tracking)
> LWIR camera (for recording and/or tracking)
> Video recording/data logger/event recorder
> Remote control