



# GTESS

## GROUND THREAT EMITTER SENSOR SYSTEM

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.

**TEXTRON** Systems

Electronic Systems

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# GTESS

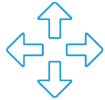
## SYSTEM PERFORMANCE



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



Azimuth Travel  
 $\pm 135^\circ$



User Interface  
Switches, indicators and  
trigger switch and GUI



Elevation Travel  
 $-30^\circ$  to  $+80^\circ$



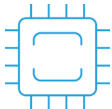
Aiming  
Iron sight



Minimum Tracking Range  
(3x3m target)  
< 0.5 km



Remote Control Connection  
RS 232/422 serial port



Memory Media Type  
Easily accessible internal  
memory card



Power  
Internal rechargeable battery

## ENVIRONMENTAL



Operating Temperature  
Pedestal system:  $-20^\circ\text{C}$  to  $+55^\circ\text{C}$ , 100% RH



Storage Temperature  
Pedestal system:  $-40^\circ\text{C}$  to  $+71^\circ\text{C}$



Operational Ruggedness (resistant to)

- Up to 4 mm/hr of rainfall
- Winds up to 20 kts
- Salt fog
- Dust
- Solar radiation



Safety  
CE marked

GTESS 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

For information within the  
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