SCORPIUS-T

Land Based EW-AESA Multi-Threat Emulator

ELL-8257SB

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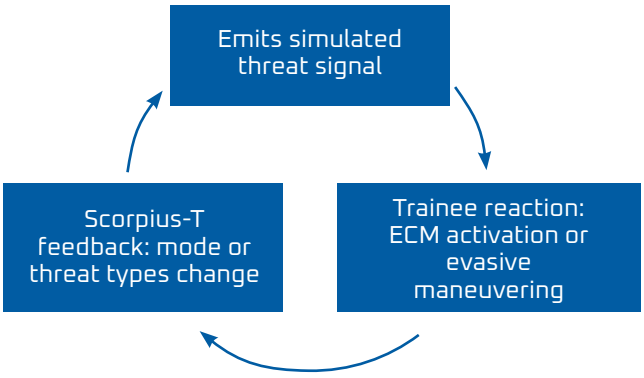
Scorpius-T (ELL-8257SB) is a multi-threat Electronic Warfare (EW) emulator for aircrew training and system testing and evaluation, creating unprecedented diverse and effective training scenarios – including advanced training scenarios for fourth and fifth-generation fighter aircraft. Scorpius-T trains aircrews and EW operators in handling realistic, signal-dense, multi-threat environments. The system emulates a wide range of emitters, including modern long-range threats. Using a programmable and updatable threat database, current and future threats are supported – including surface-to-air missile systems and modern radars.

The system is based on an RF emulator employing Active Electronically Scanned Array (AESA) with Gallium-Nitride (GaN) technology. With AESA multi-beam capability, the system can simultaneously engage multiple trainee aircraft with different threat patterns. For each emulated threat, Scorpius-T simulates radar waveforms through the full operational sequence: search-acquire-track-launch.

Easily mounted on small trucks and service vehicles, the highly mobile system can be operated in virtually any location. Moreover, it can be readily shipped or carried abroad for international joint training exercises.



Continuous full-loop threat behavior scenarios

KEY FEATURES

- Advanced AESA multi-beam transceivers; simultaneous engagement of multiple trainee targets with different emulated threats:
  - All radar types:
    - Land-based, Airborne, Shipborne
    - Eastern, Western, Modern, Classic
  - Background emitters
  - Ground EW Systems
- Wide frequency ranges covering both classic and modern threats
- Programmable and updatable threat database
- Smart planning, operation and debriefing tool
- Real-time trainee feedback for optimal training effectiveness
- Transportable – highly mobile system

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