

## StormGuard

### Ground Combat Vehicle Multi Mission Radar

> StormGuard is an all-weather modular radar system designed to protect ground force vehicles against incoming threats. The system performs 360° surveillance coverage of the immediate vicinity in order to provide a coherent Situational Awareness Picture (SAP).

In self-protection mode, the radar system automatically detects, classifies and tracks Anti-Tank Rockets (ATR), Anti-Tank Guided Missiles (ATGM), and other missile types as well as threats from drones and UAVs. Data such as 3D direction to the threat, time-to-impact, and launching point is sent to the Central Computer Unit to initiate the vehicle's countermeasure system and weapon system for real-time counter fire response.

In surveillance mode, the system detects and classifies moving targets such as personnel and vehicles. Operators use the target data to make a call-to-action for deterring the threat.

The system's hardware and software are both modular and flexible to meet customer's specific requests. The radar size can easily be adapted to match to the vehicle type and mission requirement.



#### MISSIONS



Air Defense



CUAS



C-RAM

# Features

- Detection and location of:
  - Low signature threats including crawling and slow moving persons
  - Vehicles of all types and moving patterns
  - Aerial threats including drones and UAVs
  - Anti-armored vehicles rockets and missiles launches
- Tracking of multiple targets for real-time weapon cueing
- Multi-beam staring and electronic scan in azimuth and frequency
- Very high probability of detection and accurate measurement of target parameters
- Extremely low false alarm rate

# Specifications

Exact parameters depend on radar configuration.  
The below figures are based on a typical configuration.

Description	Parameters
Coverage Azimuth	90° (360° 4x antenna)
Detection Range of Person	1.4 mi (2,200 m)
Detection Range of Vehicle	2.2 mi (3,600 m)
Detection Range of UAV	0.62 mi (1,000 m)
Frequency Band	X-Band
Antenna Type	GaN 3D AESA



ELTA North America  
8955 Henkels Lane  
Annapolis Junction, MD 20701  
eltanorthamerica.com