



GASR-3D 'Terrier'

COUNTER-UAS GROUND & AIR SURVEILLANCE RADAR

The GASR-3D 'Terrier' is the next generation of Counter-Loitering Munition/UAS/Drone solution.

BENEFITS

- ✓ Unique capability: Simultaneous aerial and ground target detection
- ✓ Used in V-SHORAD applications
- ✓ No moving parts, fully solid state
- ✓ Continuous real time detection and tracking, classification
- ✓ Compact and light weight
- ✓ Improved and ergonomic UI

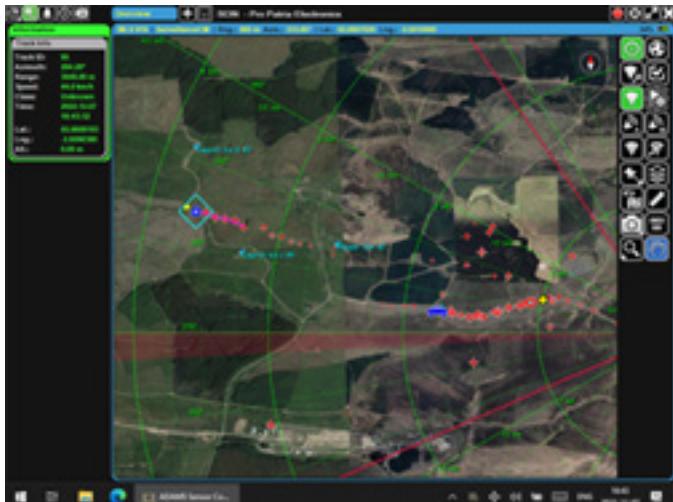
OVERVIEW

The Radar is capable to simultaneously detect, track and classify Loitering Munition, UAS/Drone, Helicopter, Aircraft and ground targets (humans, vehicles, tanks, etc..). In V-SHORAD configuration, the system detects and recognizes aerial threats and provides target information for the fire control system.

The principle of operation is Frequency Modulated Continuous Wave (FMCW) technology with DBF enabling high MTBF. It utilizes unique AESA transmitter. Low power and continuously changing frequency provides Low Probability of detection and Interception (LPI). The Radar utilizes multiple frequency channels in a wide frequency range to overcome the potential environmental disturbances and interferences and to adapt to the operating environment.

Embedded GPS and magnetic compass units are built-in for quick deployment. The Radar can be fixed deployed or portable due to its low weight and provides easy installation in hardly accessible locations. It is certified to withstand and operate in harsh environmental conditions and is suited for off-road vehicle transportation conditions.

The GASR-3D 'Terrier' is designed for easy integration with Command and Control Systems and can be interfaced via 1G Ethernet.



User Interface (ADAMS)



Processing Unit

TECHNICAL PARAMETERS

SURVEILLANCE AND DATA PROCESSING				TECHNICAL PARAMETERS				
Detection Ranges	Micro UAS Soldier (Road) Vehicle Helicopter Tank	(RCS 0.01 - 0.05 m ²) (RCS 1 m ²) (RCS 5 m ²) (RCS 10 m ²) (RCS 50 m ²)	2,5-3 km 6 km 9 km 11 km 15 km	Operation principle	FMCW - Doppler with DBF, AESA, AI			
Azimuth Coverage	90° with DBF staring beams (single plate unit)			Frequency Band	X Band			
Elevation Coverage	80° with AESA Tx			Transmitted Power	40 W			
Instrumented Range	4, 8, 12, 16, 26 km			Input Voltage	28V DC			
Accuracy	Range: 4m Azimuth: 0.4° Elevation: 0.5°			Cooling Method	Passive only			
Minimum Detectable Radial Velocity	1.0 km/h			Interface	Ethernet			
Minimum Detectable Range	50 m			Interface Protocol	ASTERIX, STANAG, Customer-tailored			
Track Update Rate	0.25 sec			Operating Temperature	-40°C to +55°C			
ACCESSORIES								
Operator unit with 230 VAC								
Power adapter								
Tripod (optional)								
Transportation cases								
Antenna Unit								
Size								
73 x 42 x 25 cm (single plate unit)								
Power Requirement								
300 W								
Weight								
23 kg								
Processing Unit								
Size								
43 x 13 x 38 cm								
Power Requirement								
200 W								
Weight								
12 kg								

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