



## GSR-110 N Long Range Ground Surveillance Radar



Battlefield awareness is the key to battlefield dominance. The field commander who knows the enemy's location and the types of forces being deployed enjoys a great tactical advantage. GSR-110N radar is a long range ground surveillance radar system developed for detecting, locating, and tracking of ground moving targets like pedestrian, light and heavy vehicles and air moving targets at low altitude like helicopters. It is a full coherent pulse radar system which works in X-band and uses Doppler Effect to detect targets. The control and monitoring operation is performed on a laptop computer and processing operation is performed by a powerful processing platform. This system sits on a tripod. It can be installed both on the ground and on the vehicle, and carried by 2 people.

### FEATURES

- Pulse radar.
- Low Probability of Interception (LPI).
- Fully solid state transceiver.
- High RF bandwidth
- Audible detection alarm.
- Automatic tracking of targets (TWS).
- Displaying at least 10 tracked targets directions.
- Alarming when the searching target appears.
- Displaying of echo map zone.
- Displaying of Cartesian and Polar coordinates.
- Excellent ECCM capability (frequency agility, PRF jitter, low side lobe, pulse compression).
- Full Function Remote Control (FFRC).
- Automatic sectorial surveillance with sector axis and selectable width
- Area management.

### APPLICATIONS

- Battlefield frontier reconnaissance & surveillance
- Border surveillance for police squadron
- Protection of important zones
- Military force deployment monitoring
- Guidance of ground forces and airborne attack units

### TECHNICAL SPECIFICATIONS

Detection range	Pedestrian: 15 km Light vehicle: 30 km Heavy vehicle: 40 km Helicopter: 20 km	
Location accuracy	Range: 15 m Azimuth: 10 mils	
Resolution	Range: 30 m Azimuth: 50 mils	
Azimuth coverage	0 ~ 360°	
Detectable target velocity	3 ~ 103 km/h	
Power consumption(without computer)	less than 400 W	
Environmental conditions	operator console temperature	0°C ~ +50°C
	equipment outdoor temperature	-20°C ~ +55°C
	equipment storage temperature	-30°C ~ +65°C
MTBF	≥ 1000 h	
MTTR	≤ 30 min	
Weight	net	75 Kg
	gross	105 Kg

