



PERSISTENT FOLIAGE PENETRATION RADAR

ELM-2112FP



PERSISTENT FOLIAGE PENETRATION RADAR ELM-2112FP

ELM-2112FP Multi-Mission Surveillance Radar is an innovative advanced high resolution foliage penetrating (FOPEN) radar with unique and outstanding capabilities. Featuring simultaneous multi-beam technology, the radar provides persistent surveillance in foliage and instantaneous target tracking over a wide land area. In operational use by military, paramilitary and security agencies, the radar instantly detects, monitors and tracks all ground moving targets in the Region Of Interest (ROI), such as walking persons and moving vehicles.

The radar features a stationary (non rotating) planar array antenna, covering a sector of 90°.

APPLICATIONS

- Border Security Systems
- Site Perimeter Protection
- Critical Infrastructure Protection
- Battlefield Surveillance

FEATURES

- Foliage penetration to a few tens of meters
- Instantaneous and continuous coverage of the entire Region of Interest (ROI)
- Automatic and continuous detection and tracking with high range and azimuth accuracy
- Uninterrupted operation in all weather conditions
- Outstanding performance of detection of small and slow targets
- High probability of detection even if the target is not persistent
- Very low false alarm rate
- Multi-target automatic tracking



SPECIFICATIONS

Size (cm) of Each Antenna Module	87*193*42
Weight of Each Antenna Module	<70
Power Consumption (w/o OWS)	120W
Operating Voltage	28VDC
Radiated Power	1W
Operating Bandwidth	L-Band
Human Detection Range (RCS= 0.5m ²)	2.5Km
Vehicle Detection Range (RCS= 10m ²)	5Km
Range Accuracy	1.5m
Azimuth Coverage (deg)	90°
Azimuth Accuracy	1°
Elevation Coverage (deg)	14°
Minimum Radial Velocity	1m/s
Number of Reported Tracks	200
Track Rupdate Rate	1 sec

