

Persistent Foliage Penetration Radar

> ENA-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 2112FP radar provides persistent surveillance in foliage and instantaneous target tracking over a wide land area.

Used by military, paramilitary and security agencies, the 2112FP 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°.



MISSIONS



Homeland Security

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 of each antenna module	30.3 x 35.8 x 17.5 in (77 x 91 x 44 cm)
Weight of each antenna module	143.3 lbs (65 kg)
Power consumption (w/o OWS)	120 W
Operating voltage	28 VDC
Radiated power	1 W
Operating bandwidth	L-Band
Human detection range RCS= 1.6 ft² (RCS= 0.5 m²)	1.5 mi (2.5 km)
Vehicle detection range RCS= 32.8 ft² (RCS= 10 m²)	3.1 mi (5 km)
Range accuracy	3.3 ft (1 m)
Azimuth coverage (deg)	90°
Azimuth accuracy	1°
Elevation coverage (deg)	14°
Minimum radial velocity	1.6 ft/s (0.5 m/s)
Simultaneous tracks	200
Track update rate	1 sec



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