

PERSISTENT GROUND & COASTAL SURVEILLANCE RADAR

■ ELM-2112 V8



ELTA NORTH AMERICA

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General

ELM-2112(V8) Persistent Ground and Coastal Surveillance Radar is a new advanced tactical, one man carry, high resolution radar with unique and outstanding capabilities. Featuring simultaneous multi-beam technology, the radar provides persistent surveillance and instantaneous target tracking over a wide area. Operational in all weather conditions, the radar immediately detects, monitors and tracks all ground moving targets and all sea targets (moving and stationary) in the Region Of Interest (ROI), such as walking persons, moving vehicles and various vessels and boats at sea.

The radar covers a sector of 90°.

The ELM-2112(V8) radar detection range is 7,500m for rubber boats and moving persons and 15,000m for small sailing boats and moving vehicles.

One of its most unique capabilities is the ability to detect and track targets simultaneously both on ground and on sea surface.

Applications

- Border Security Systems (land and sea surveillance)
- Site Perimeter Protection
- Airport Perimeter and Runway Surveillance
- Coastal and Harbor Surveillance
- Low Flying Aircraft Detection within the beams

Key Features

- Long Range, fully portable, one man carry tactical Radar
- Instantaneous and Continuous coverage of the entire Region of Interest
- High probability of target interception in all weather conditions even if the target is not persistent
- Automatic and continuous detection and tracking with high accuracy
- Dual mode simultaneous surveillance, both on ground and on the sea
- Multi-target automatic tracking
- Very low false alarm rate
- Easily deployed and operated
- Interoperability with Electro-Optic sensor
- Several radars can be networked, providing an integrated picture on a C4ISR console display
- Solid state radar with very high MTBF
- Very low Life Cycle Cost (LCC)
- Unparallel performance for small slow moving targets
- Multi-beam solid state FMCW Radar
- Windows based Operating System
- Non-moving parts (multi beam array by digital beam forming)
- Continuous coverage utilizing a multi beam array technology
- Each target is continuously monitored and its track is updated multiple times a second
- Remotely controlled and operated