

Persistent Ground Surveillance Radar Family ■ EL/M-2112



No Escape - Every Movement Captured

General

EL/M-2112 Ground Master is a new family of advanced high resolution radars with unique and outstanding capabilities. Featuring simultaneous multi-beam technology the radar provides persistent surveillance and instantaneous target tracking over a wide area.

In operational use by military, paramilitary and security agencies, the radars immediately detect, monitor and track all moving targets in the Region of Interest (ROI), such as walking persons and moving vehicles.

These radars feature up to 4 stationary (non-rotating) planar antennas, each covering a sector of 90°.

The radars cover detection ranges from 300m up to 20,000m for moving persons and ranges of up to 40,000m for vehicles, depending on its version.

The radars are designed for dual use - ground and sea surface surveillance, even in adverse sea conditions.

The radars are capable to automatically adapt their processing (ground movement detection or sea surface target detection) according to the relevant background map.

This new radar family reflects ELTA's vast experience in surveillance radars and signal processing, utilizing cutting edge radar technologies.

Applications

- Battlefield surveillance
- Border security systems
- Site perimeter protection
- Coastal surveillance (option)
- Artillery support and fire correction (option)

Installation

- Fixed installation on top of a tower or on a building
- Mobile installation on a surveillance vehicle - operating when not in movement
- Portable configuration operated on a quadri-pod

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Features

- Uninterrupted operation under all weather conditions
- Instantaneous and continuous coverage of the entire Regions of Interest
- Surveillance sector programming - sectors of interest and alert areas can be programmed and identified
- Stationary planar arrays (up to 4), each covering instantaneously 90° by multi-beam technology
- Automatic and continuous detection and tracking with high accuracy
- High probability of targets interception even if the targets are not persistent
- Easily deployed and operated
- Several radars can be networked, providing an integrated picture in a single C² post
- Local and remote operation modes
- Implementation of 2D and 3D background digital maps (option)
- Low false alarm rate
- Interoperability with Electro-Optic (E/O) sensors and easily integrated in surveillance systems
- Optional dual-mode operation: ground and sea surface surveillance
- Low Life Cycle Cost (LCC)
- Redundancy resulting in graceful degradation
- High reliability ruggedized radar

Specifications

- Frequency Band : X Band
- Sector Coverage : Instantaneous 90° or 180° or 270° or 360°
- Range Accuracy : 1 - 2 m
- Azimuth Accuracy : 2 - 5 milliradians
- Nr. of Tracked Targets : ≥ 500



EL/M-2112 (V10) Medium Range Persistent Ground Surveillance Radar



Operator Display

<i>Maximum Detection Ranges</i>		
<i>Radar Version</i>	<i>Walking Persons</i>	<i>Vehicles</i>
EL/M-2107	300m	300m
EL/M-2112 (V2.5)	2,500m	5,000m
EL/M-2112 (V5)	5000m	10,000m
EL/M-2112 (V10)	10,000m	20,000m
EL/M-2112 (V20)	20,000m	40,000m

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