

Smart Miniature Detection Radar Family ■ EL/M-2127



■ DEFENSE & SELF-PROTECTION

General

ELTA's EL/M-2127 is a compact and lightweight, all weather ground surveillance and movement detection family of radars designed to detect and monitor intruders' movements in selected zones of interest.

These full solid state, static LPI radars with low radiation power, operate automatically with electronic beam steering within the covered sector.

Incorporating ELTA's vast experience in ground movement detection radars and featuring advanced, state-of-the art waveform with modern signal processing techniques, the radars provides fast response, high resolution and high probability of target detection.

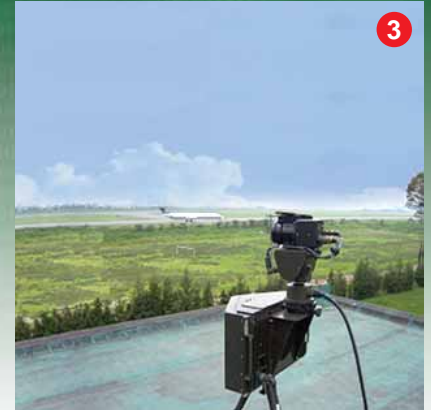
There are 3 available radar versions:

- EL/M-2127 regular version
- EL/M-2127ER extended range version
- EL/M-2127Z low weight portable version

Features

- High reliability - full solid-state design with no moving parts
- Automatic operation and fast reaction
- Targets tracking by TWS and optional log
- Stand - alone or integrated with other surveillance systems
- Operation under all weather conditions
- Simple installation, fast deployment
- Lightweight, man portable
- Remote operation by wire or radio communications
- Low Probability of Interception (LPI)
- Installation options - fixed on tower, fence, building or operation from stationary vehicle

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Applications

- **Military and Para - Military**
 - Border monitoring
 - Protection of military bases and sensitive sites
 - Use in ambush or raid as early warning on movements of hostile forces
 - Border police support at international passes: airports, harbors, land passes
 - Site Protection

- 1 Ground Deployment With Camera
- 2 EL/M-2127Z
- 3 Airport Deployment

EL/M-2127 Family - Typical performances

Parameter	EL/M-2127	EL/M-2127ER	EL/M-2127Z
Detection range:			
- Pedestrian	1300m	3000m	1300m
- Vehicle	2000m	3000m	2000m
Min. Detection vel.	0.6 km/h	0.6 km/h	0.6 km/h
Range Resolution	2m, 4m	4m	2m, 4m
Range Accuracy	1m	1m	1m
Azimuth Beam Width	15°	15°	15°
Azimuth Accuracy	1.5°	1.5°	1.5°
Altitude Coverage	10°	10°	10°
Sector Coverage	120°	120°	90°
Scan Time	1 Sec	1 Sec	1 Sec
Operating Frequency	X-Band	X-Band	X-Band
Transmitted Peak Power	1.5W	10W	1.5W
Transmitted Average Power	100mW	1W	100mW
Weight	17kg	17kg	10kg
Power Consumption	55W @ 24V	65W @ 24V	55W @ 24V
External Communication	Ethernet	Ethernet	Ethernet

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