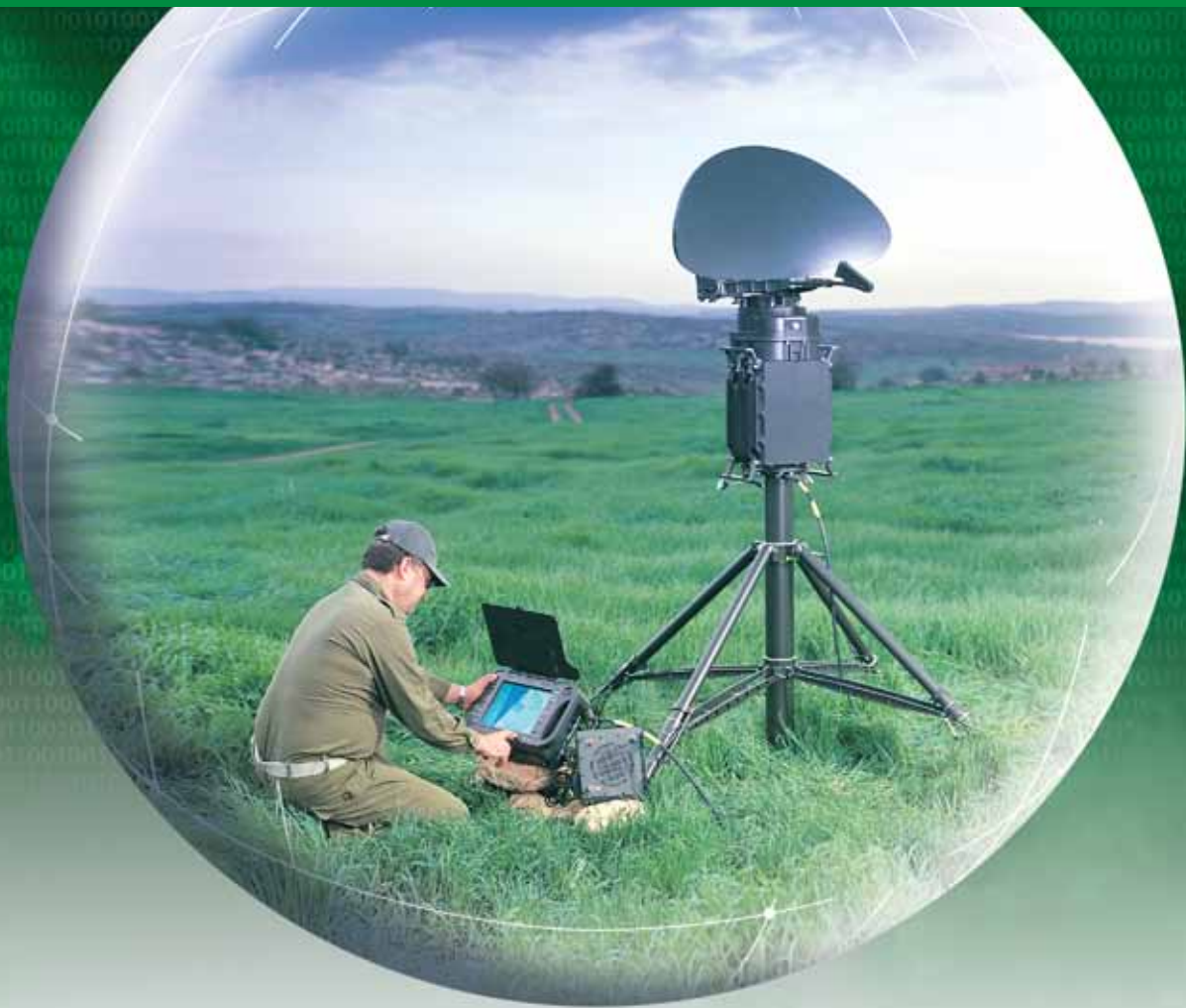


AGSR - Advanced Ground Surveillance Radar ■ ELM-2140NG



■ DEFENSE & SELF-PROTECTION

General

The ELM-2140NG is a long range, ground-based radar for military and paramilitary applications. This radar belongs to ELTA's family of Tactical Radars that detect and monitor movements in the areas of interest.

The ELM-2140NG automatically detects moving targets, such as walking persons, moving vehicles and flying objects (low flying aircraft, hovering helicopters and gliders) at ranges of up to 60 km.

Higher ranges are available by addition of power amplifier and by increasing antenna size.

The radar is also capable of supporting artillery fire correction by detection of the impact of shells.

Incorporating ELTA's vast experience in surveillance radars and utilizing modern radar technologies, the ELM-2140NG is easily deployed, user-friendly, reliable and cost-effective.

The radar operates 24 hours a day, even under poor weather and in low visibility conditions.

Features

- Uninterrupted operation under all weather conditions
- Automatic detection
- PC-based display and control unit with friendly MMI
- Definition of areas of interest and alarm zones
- Target rejection inside areas defined as non-interest areas
- Implementation of 2D and 3D background digital maps (optional)
- Easily carried and deployed
- Operated by standard DC power source (18-30 VDC)



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Applications

- Tactical intelligence and battlefield surveillance
- Protection of border and sensitive sites
- Drug interdiction and prevention of smuggling, infiltration and illegal immigration
- Field artillery fire correction

Performance

	ELM-2140NG Surveillance Mode	ELM-2140NG Artillery Mode
Detection Range		
- Walking Persons	15 km	-
- Helicopters	25 km	-
- Heavy Moving Vehicles	60 km	-
- Artillery Shell Impact	-	Up to 15 km
Range Accuracy	50m	25m
Azimuth Accuracy	7 mils	3 mils
Sector Search (Operator Selected)	Up to 360°	2° to 6°
No. of Tracked Targets	> 100	-

Installation Options

There are 3 basic installation options:

- **Fixed installation**
On a tower or on top of a building, monitoring the area around the site
- **Deployable installation**
The radar is deployed on a quadripod, in any location. The deployment procedure is very simple and takes less than 10 minutes
- **Mobile installation**
On any type of vehicle type, military or commercial (from jeep to armored truck) operating when the vehicle is not moving



Specifications

Frequency band	: X band
Antenna	: 120 x 45 cm; Gain = 34 dB; Parabolic Reflector
Transmitted peak power	: 25W
Processing	: FFT, CFAR, TWS
Weight	: 65 kg (approx.)
Power consumption	: 110W (@18-30 VDC)

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