



## **OBSERVER 250 HEAVY GROUND BASED ISTAR SYSTEM**

Selex ES has a broad range of technologies within operationally deployed systems and the capability to integrate sensors to deliver persistent situational awareness.

Utilising its experience and expertise Selex ES has developed OBSERVER 250, delivering a 360°, day, night and all weather 25m tower mounted surveillance platform where it can be brought into action in less than 30 minutes, providing persistent surveillance to mobile patrols as well as fixed installations.

OBSERVER 250 is Military Off-The-Shelf and ITAR free, comprising of a flexible and modular platform that is capable of hosting a range of sensors to meet the customer's requirements. The base specification comprises of an integrated ground surveillance radar, high performance Electro-Optic sensor head, 25 meter tower, power management system and a rugged control console. Accepting power from a wide range of external sources, it is self sufficient for over 30 days.

OBSERVER 250's control suite can be remoted from the sensor system by up to 100 meters via cable, up to 15km via a single IP bearer or further via Non-Line-Of-Sight communications. All of the platform layers have been designed to the relevant open and MIL standards for data and information layers, electrical and physical interfaces e.g. STANAG 4559 (metadata tagging), 4609 (video exploitability).

### **OBSERVER 250 KEY BENEFITS**

- Time into Action <30 minutes, 2 man crew
- Operational in wind conditions of 90mph
- Lifting capacity of 900Kg payload
- Self sustainable for in excess of 30 days
- Interoperable through STANAG compliancy
- Interoperable with other in-service C2 systems
- Low training burden – operator control training < 30 minutes
- Low operator workload through automatic threat detection and location, Trigger and Cue
- Operates effectively in extremes of terrain and climate.



## TECHNICAL SPECIFICATIONS

### Target Detection Ranges

Man (1.8m x 0.5m)

Small vehicle (2.3m x 2.3m)

## ELECTRO OPTICAL PERFORMANCE

### IR

(maximum)

	Man	Vehicle
Detect	12.8km	20km
Recognise	3.2km	7km
Identify	1.6km	3.9km

### Daylight

	Man	Vehicle
Detect	9km	16
Recognition	3.42km	6.1km

### Radar performance

	Free space	Best case
<b>Man</b>		
Crawling	2100 m	2400 m
Walking	3800 m	5400 m

### Vehicle

Small moving	8900 m	12800 m
Large moving	12000 m	16000 m

### Vessel

Large moving	17100 m	27300 m
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## OBSERVER 250 OPTIONS

- Laser Range Finder
- Laser designator
- Lighting infrastructure to illuminate location
- Telecommunications infrastructure
- Novel power generation solutions including solar and wind technology

## KEY APPLICATIONS

- Security and surveillance of Forward Operating Bases/ Patrol Bases and key military installations
- Border management and surveillance
- Critical National Infrastructure
- Disaster management
- Surveillance for major and high profile events

