



Optronics Systems

OBSERVER **ELEVATED SITUATIONAL AWARENESS SYSTEM**

Selex ES has a broad range of capability in the provision of multi-sensor Situational Awareness (SA). It offers a proven international pedigree in providing operationally deployed SA systems to meet surveillance demands involving constant intelligence gathering and timely dissemination.

As part of this proven capability, Selex ES offers the OBSERVER range of rapidly deployable and configurable SA surveillance platforms. These multi-role systems are fast into operation, and quick to recover or reposition to meet changing operational needs such as border management, critical national infrastructure protection, forward operating base security, major high profile events safety, and oil and gas exploration

OBSERVER systems are modular in design, allowing flexible configuration to meet emerging requirements. They offer ease of use and world-class performance, with minimal operator workload.

Capable of operation in all environments, OBSERVER provides defence and para-military forces with comprehensive 360 degree day-and-night detection and target assessment, satisfying the surveillance requirements of mobile forces, and supporting the defence of temporary and fixed installations.

At the heart of OBSERVER is the ability to integrate a range of sensor equipment and technologies. Mounted on their integral mast systems, they offer elevated surveillance, either 10m (OBSERVER 100) or 25m (OBSERVER 250).

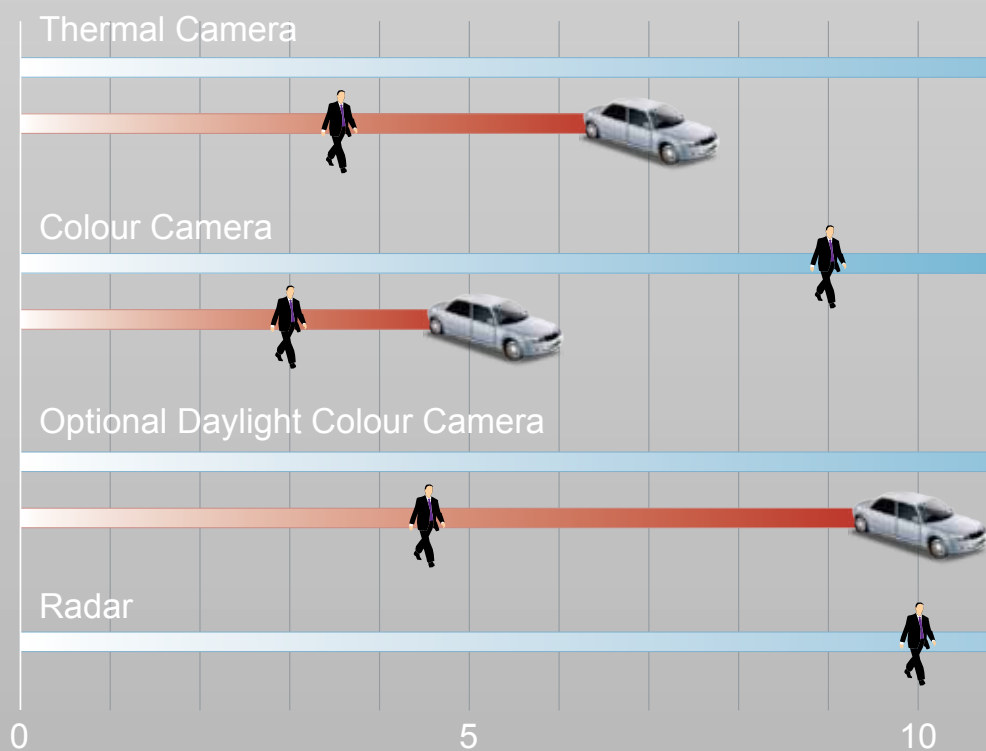
OBSERVER 100

10 METRE ELEVATED SITUATIONAL AWARENESS SYSTEM

- 10m elevated platform
- Time into action: 7 minutes
- European road approved - transportable by road and air (inside Chinook CH-47)
- Detachable from trailer
- Multiple sensors - typically EO (TI, daylight) and radar, using standard quick-release mounting
 - Thermal imager with continuous optical zoom
 - Colour camera with 25x optical zoom
 - Ground surveillance 360° radar
 - Lifting capacity: 120kg
 - Optional long-range daylight, thermal camera and LRF capability
- Command & Control (C2)
 - SA application providing imagery, geographic, sensor position, target and event management. Can be integrated with other C2 systems.
 - On-board command station which can be operated remotely up to 100m via a hard wired link; or at further distances by Line-of-Sight or Non Line-of-Sight communications equipment options
- Sustainability
 - 30+ days operation without refuelling through low power consumption and flexible power management
 - Sensor systems powered by hybrid battery generator
 - Silent operation between battery charge duty cycles
- Network enabled to open standards (STANAG 4609 and 4559) to facilitate rapid integration with other sensors, systems and assets.



OBSERVER SENSOR PERFORMANCE

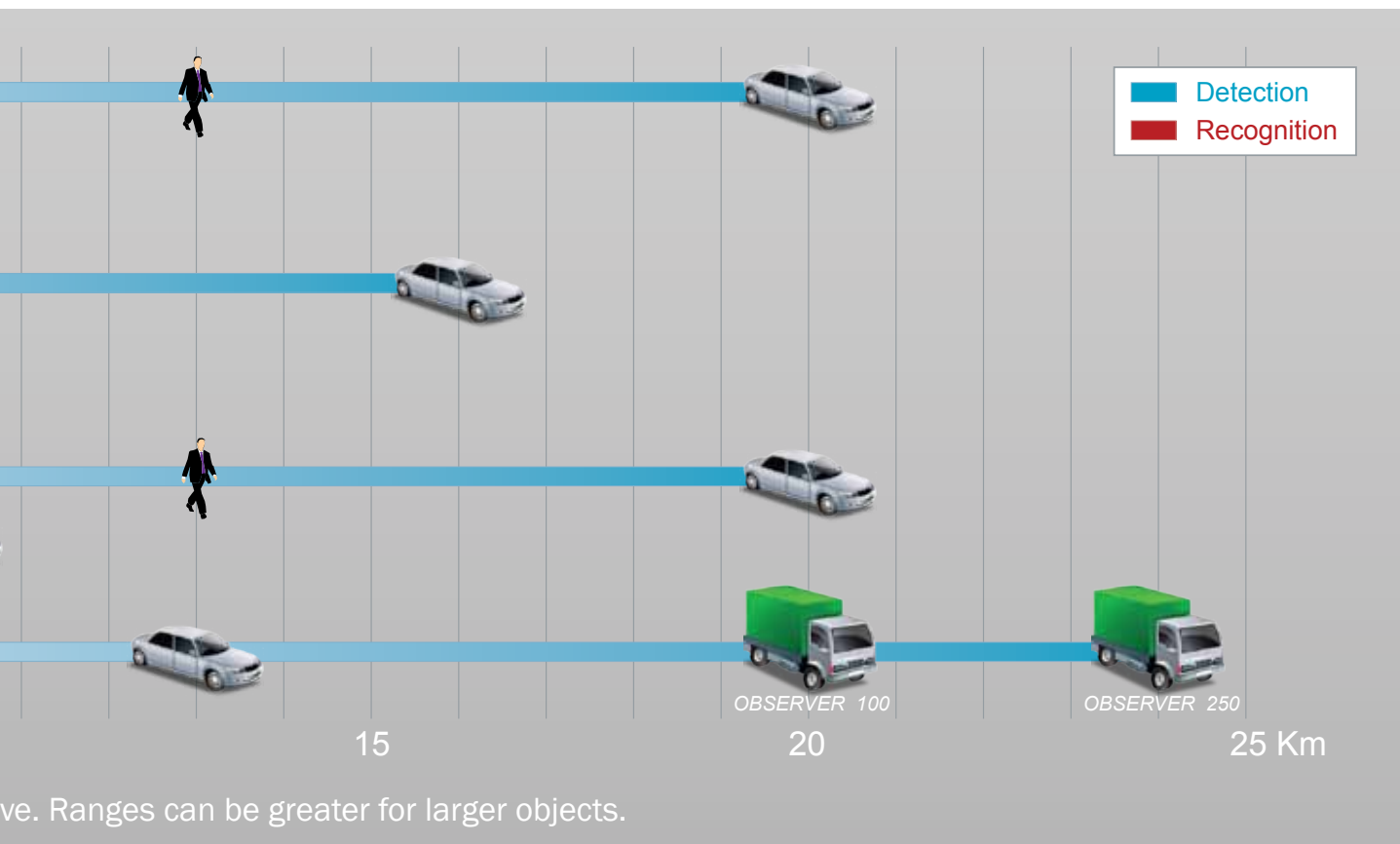


Typical ranges of detection are depicted above

OBSERVER 250

25 METRE ELEVATED SITUATIONAL AWARENESS SYSTEM

- 25m elevated platform
- Time into action: 30 minutes
- Road approved* - transportable by road and air (Chinook CH-47)
- Multiple sensors – typically EO (TI, daylight) and radar, utilising standard quick release mounting
 - Thermal imager with continuous optical zoom
 - Colour camera with 25x optical zoom
 - Ground surveillance 360° radar
 - Option for four close quarter observation cameras
 - Lifting capacity: 900kg
 - Optional long-range daylight, thermal camera and LRF capability
- Command & Control
 - SA application providing imagery, geographic, sensor position, target and event management. Can be integrated with other C2 systems.
 - On-board command station which can be operated remotely up to 100m via a hard wired link or at greater distances by Line-of-Sight or non Line-of-Sight communications equipment options
- Sustainability
 - 30+ days operation without refuelling through low power consumption and flexible power management
 - Tower deployment and sensor systems powered by hybrid battery generator
 - Silent operation between battery charge duty cycles
- Network enabled to open standards (STANAG 4609 and 4559) to facilitate rapid integration with other sensors, systems and assets.



OBSERVER... IN SUMMARY

- Rapidly deployable elevated platforms offering flexible 360° day and night surveillance and target detection capability
- Road approved trailer or dismantled pallet application
- Full mobility and versatility in extremes of terrain and environment, providing over 30 days of continuous operation
- On-board power management
- Minimal operator burden
- Remote operation to reduce operator personnel exposure
- Compatible with multi-sensor equipment and technologies
- Configurable to meet specific operational needs
- Military Off-The-Shelf compliant with STANAG 4609/4559
- Hosted C2 software enables operators to make informed tactical decisions based on real-time accurate surveillance data



OBSERVER SENSOR OPTIONS

OBSERVER platforms can be provided with any number of sensor payload configurations. They have lifting capacities of 120Kg (100) and 900Kg (250) respectively, and can be provided without sensor payloads to enable customers to integrate their in-service sensors.



OBSERVER CONTROL SUITE

OBSERVER systems are controlled from a single console. It can be linked to other networked sensor feeds in order to deliver a Common Operating Picture (COP) for purposes such as counter-battery fire.