



SPYNEL

→ SPYNEL perimeter security



Spynel-C



WIDE AREA

SURVEILLANCE SYSTEM

➤ 360° INTRUSION DETECTION, ANYWHERE, ANYTIME

Spynel is a unique wide-area surveillance system, acquiring real-time full panoramic images with automatic intrusion detection, tracking, identification and classification capabilities. It provides powerful situation awareness through 360° visualization of the surroundings. As a completely passive infrared system, it is invisible to intruders, not vulnerable to camouflage nor jamming, and operates 24/7, whatever the weather.

➤ EARLY TARGET DISCRIMINATION FOR FAST REACTION

Compact and robust, Spynel can be quickly deployed to perform multi-events detection over extremely large areas in total darkness, fog, smoke. An unlimited number of tracks are immediately recognized in highly resolved images, including hardly detectable threats, such as small, slow or tangentially moving targets. It can be used as a reliable and cost-effective standalone perimeter security solution as well as an added layer of capability to systems already in place.

➤ APPLICATIONS

- Persistent wide area surveillance
- 24/7 perimeter security
- 360° asymmetrical threats detection
- Airport / airfield surveillance
- Critical infrastructure protection
- Forward operating bases surveillance
- UAV, low air target tracking
- Border and coastal passive surveillance
- Self-protection of warships
- Fight against piracy, against smuggling



→ Robust and quickly operational



→ SPYNEL-C
ROTATING SENSOR

➤ BENEFITS

- Cost effective and reliable surveillance against asymmetric threats
- Full 360-degree panoramic coverage with a single sensor
- Long range surveillance up to the horizon
- Day and night panoramic scrutiny even in adverse weather conditions
- Automatic, simultaneous tracking of all threats with superior image quality
- Compact, robust, lightweight equipment, for a fast deployment
- Fully passive system, totally undetectable

→ SPYNEL night&day intrusion detection





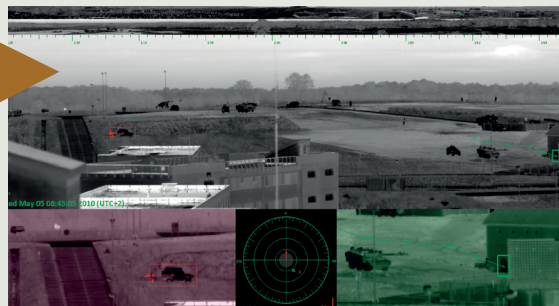
Spynel-C

PANORAMIC INFRARED VISION SYSTEM

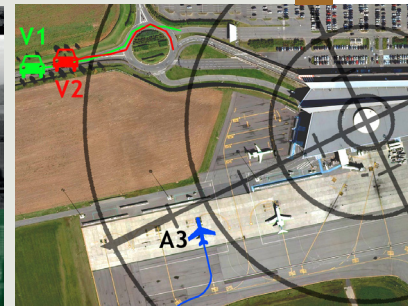
TECHNICAL

SENSOR

Horizontal FOV	360°
Vertical FOV	5°
Vertical motorized tilt	-20°/+45°
IFOV	0.3 mrad (V) x 0.27 mrad (H)
Scanning speed	360°/2sec (0.5 rps)
Detector type	LWIR 288 x 4 FPA
Cooling	Stirling microcooler
Image resolution	40 000 (H) x 288 (V)
Video output and control	IP
Dimensions(Dia x H)	300 mm x 615 mm
Weight	28 kg
Operating temperature	-40°C to +71°C
Protection standard	IP 66
Power supply	24V DC / 5 Amps
Detection range for	
human :	Up to 3 km
car :	Up to 6 km
RHIB :	Up to 6 km



→ SPYNEL persistent situational awareness



→ Tracks displayed on situation map

Spynel-C 3000

CONTROL AND DISPLAY SOFTWARE

Software functions: Get full advantage of Spynel sensor with Cyclope software appliance. Cyclope provides, at a glance, real time panoramic display (360° strip, annular, radar & zoom views), multiple screen capabilities, unlimited targets designation/tracking/classification, alarm triggering, immediate threat location (azimuth, elevation, distance), GPS, AIS and radar data integration, automatic control of PTZ systems for target identification, forensic capabilities (timeline, panoramic video recording and playback), spatial and temporal bookmarks, multiple threats displayed on situation map, fine image stabilization and more...

Detection ranges according to Johnson criterium and STANAG standards



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