

→ SPYNEL perimeter security



# Spynel-C



**WIDE AREA**

**SURVEILLANCE SYSTEM**

## ➤ 360° INTRUSION DETECTION, ANYWHERE, ANYTIME

Spynel is a unique around-the-clock wide-area surveillance system, acquiring near real-time full panoramic images with automatic intrusion detection and tracking capabilities. It provides powerful situation awareness through 360 degree visualization of the surroundings. As a completely passive 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 on highly resolved images, including hardly detectable threats, such as small, slow or tangential moving targets. It can be 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
- Auto-protection of ships
- Fight against piracy, against smuggling



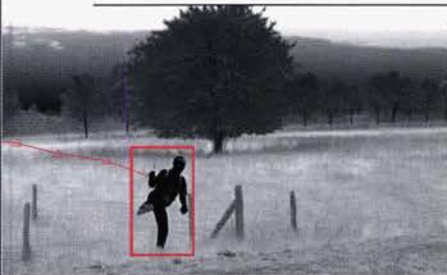
→ Robust and quickly operational



→ 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 unlike radar



→ SPYNEL night&day intrusion detection





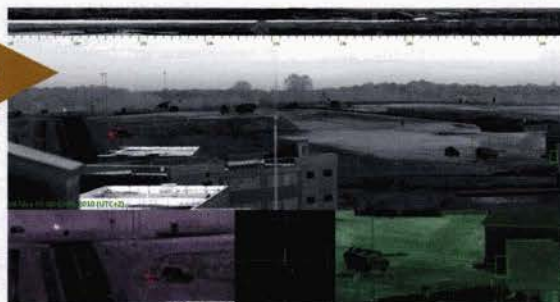


# Spynel-C

PANORAMIC INFRARED

VISION SYSTEM

## TECHNICAL






→ SPYNEL persistent situational awareness



→ Tracks displayed on situation map

### SENSOR

	Spynel-C 1000	Spynel-C 2000	Spynel-C 3000
Vertical FOV	20°	10°	5°
Horizontal FOV	360°	360°	360°
IFOV	1.2 mrad(V)x1.1 mrad(H)	0.6 mrad(V)x0.55 mrad(H)	0.3 mrad(V)x0.27 mrad(H)
Scanning speed	360°/sec (1 rps)	360°/sec (1 rps)	360°/sec (1 rps)
Detector type	LWIR HgCdTe 288x4 FPA	LWIR HgCdTe 288x4 FPA	LWIR HgCdTe 288 x 4 FPA
Cooling	Stirling microcooler	Stirling microcooler	Stirling microcooler
Image resolution	10 000 (H) x 288 (V)	20 000 (H) x 288 (V)	40 000 (H) x 288 (V)
Video output and control	IP	IP	IP
Dimensions(Dia x H)	300 mm x 545 mm	300 mm x 545 mm	300 mm x 545 mm
Weight	26 kg	26 kg	26 kg
Operating temperature	-40°C to +71°C	-40°C to +71°C	-40°C to +71°C
Protection standard	IP 66	IP 66	IP 66
Power supply	24V DC / 5 Amps	24V DC / 5 Amps	24V DC / 5 Amps
Detection range for			
human : 	Up to 1 km	Up to 2 km	Up to 3 km
car : 	Up to 1.5 km	Up to 3 km	Up to 6 km
tank : 	Up to 6 km	Up to 10 km	Up to 20 km

### CONTROL AND DISPLAY SOFTWARE

Operating system: PC Windows – multiple screen and touch screen capabilities

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

Above information is subject to changes without notice



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