→ 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 and tracking capabilities. It provides powerful situation awareness through 360 degree 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 multievents 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 ships
- · Fight against piracy, against smuggling



→ Robust and quickly operationnal



→ SPYNEL night&day intrusion detection

BENEFITS

- Cost effective and reliable surveillance against asymmetric
- 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

SPYNEL-C ROTATING SENSOR

• Fully passive system, totally





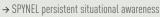
PANORAMIC INFRARED

VISION SYSTEM



TECHNICAL >







→ Tracks displayed on situation map

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Spynel-C 2000

Horizontal FOV
Vertical FOV

Vertical adjustable tilt

IFOV

Scanning speed Detector type

Cooling

Image resolution

Video output and control

Dimensions(Dia x H)

Weight

Operating temperature

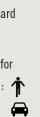
Protection standard

Power supply

Detection range for

human: car:

tank:



Spynel-C 1000

360°

20°

-20°/+45° (motorized) ± 20° (manual)

1.2 mrad (V) x 1.1 mrad (H)

360°/0.5sec (2 rps)

LWIR HgCdTe 288x4 FPA

Stirling microcooler

10 000 (H) x 288 (V)

300 mm x 615 mm

27 kg - 29 kg

-40°C to +71°C

IP 66

24V DC / 5 Amps

Up to 1 km Up to 1.5 km Up to 6 km

360°

10°

-20°/+45° (motorized)

± 20° (manual)

0.6 mrad (V) x 0.55 mrad (H)

360°/sec (1 rps)

LWIR HgCdTe 288x4 FPA

Stirling microcooler 20 000 (H) x 288 (V)

300 mm x 615 mm

27 kg - 29 kg

-40°C to +71°C

IP 66

24V DC / 5 Amps

Up to 2 km Up to 3 km Up to 10 km

Spynel-C 3000

360°

5°

-20°/+45° (motorized)

± 20° (manual)

0.3 mrad (V) x 0.27 mrad (H)

360°/sec (1 rps)

LWIR HgCdTe 288 x 4 FPA

Stirling microcooler 40 000 (H) x 288 (V)

300 mm x 615 mm

27 kg - 29 kg

-40°C to +71°C

IP 66

24V DC / 5 Amps

Up to 3 km Up to 6 km

Up to 20 km

Detection ranges according to Johnson criterium and STANAG standards

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...

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