**▲** 

→ Night&day maritime surveillance



# Spynel-C

WIDE AREA

**SURVEILLANCE SYSTEM** 

SPYNEL-C ROTATING SENSOR

AND STABILIZED PLATFORM

## > 360° INTRUSION DETECTION, ANYWHERE, ANYTIME

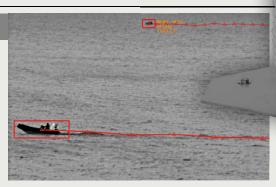
Spynel is the impressive system for all-weather, 24/7 surveillance of ports, ships, platforms at sea, ideal for the surveillance of perimeters ranging over several kilometers. This unique infrared sensor displays a full 360-degree panorama, with a resolution up to 12 Mpix. With its real-time imagery, Spynel can detect and track an unlimited number of objects night and day.

## > EARLY WARNING OF ASSYMETRICAL THREATS

Compact and fully passive, Spynel is completely insensitive to jamming and deception. Unaffected by sea clutter, this surveillance device is highly effective when tracking small crafts, RIBs, wooden boats and even swimmers. It can be a reliable and cost-effective stand-alone perimeter security solution as well as an added layer of capability to systems already in place.

## **>** APPLICATIONS

- Maritime wide area surveillance
- Asymmetrical threats detection
- Seaports and harbors protection
- Coastal and border passive surveillance
- Offshore platforms and oil rigs security
- UAV, USV, low air target tracking
- Self-protection of ships
- Fight against piracy
- Fight against smuggling and drug trafficking
- Night time navigation
- Search and rescue



→ Detection of asymmetric threats



→ Navigation and situation awareness

## **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 awareness 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
- Gyro-stabilization option for shipborne installations



WIDE AREA

**SURVEILLANCE SYSTEM** 







→ 360-degree site security

→ Tracks displayed on situation map

SENSOR			
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## Spynel-C 1000

## Spynel-C 3000

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: RIB: ship:

орупог	 
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

# Spynel-C 2000

360° 10°

-20°/+45° (motorized)  $\pm 20^{\circ}$  (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

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

## **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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