Spynel-U

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 situational awareness through 360 degree visualization of the surroundings. As a completely passive system, it is invisible to intruders, not vulnerable to jamming nor camouflage, and operates 24/7, whatever the weather. The Spynel-U is the uncooled IR version of the Spynel series.

EARLY TARGET DISCRIMINATION FOR FAST REACTION

Robust and cost effective, the Spynel-U is the ideal surveillance solution for commercial applications such as airport, port or critical infrastructure perimeter monitoring. One single sensor can monitor large areas and perform multi-events automatic detection in total darkness, fog and smoke, thanks to the 360-degree thermal camera. An unlimited number of targets can be simultaneously tracked, recognized and identified, thanks to the integrated 360-degree visible camera. The Spynel-U does not require any cryogenic cooler, which ensures long-term reliability and maintenance-free operation.
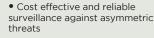
→ **SPYNEL-U ROTATING SENSOR**

APPLICATIONS

- Persistent wide area surveillance
- 24/7 perimeter security
- 360° asymmetrical threats detection
- Airport / airfield surveillance
- Critical infrastructure protection
- Border and coastal passive surveillance
- Port monitoring

→ Infrared panoramic detection and visible identification with the same sensor

BENEFITS

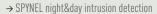- Cost effective and reliable surveillance against asymmetric threats
- Full 360-degree panoramic coverage with a single sensor
- Day and night panoramic scrutiny even in adverse weather conditions

- 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
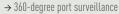- Maintenance-free uncooled LWIR detector

→ SPYNEL night&day intrusion detection

Spynel-U

PANORAMIC INFRARED | VISION SYSTEM

TECHNICAL ▸

→ 360-degree port surveillance

→ Tracks displayed on situation map

▸ SENSOR

	Spynel-U 1000	Spynel-U 2500
Vertical Field Of View	18° (-15° to +3°)	9° (-6.5° to +2.5°)
Horizontal Field Of View	360°	360°
Scanning speed	0.5 rps (360° / 2sec)	0.25 rps (360° / 4sec)
Infrared detector type	Uncooled LWIR FPA (≥ 600 pixels horizontally)	
Infrared image resolution	5 Mpixels	10 Mpixels
Visible detector type	2048 x 1536	
Visible image resolution	50 Mpixels	100 Mpixels
Video output and control	TCP/IP	
Dimensions (Diameter x Height)	400 mm x 500 mm	
Weight	25 kg	
Protection standard	IP 66	
Power supply	24V DC / 10 Amps max at startup	
Detection range for:		
human :	Up to 1 km	Up to 2 km
car :	Up to 2 km	Up to 4 km
Ship :	Up to 6 km	Up to 12 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), **3D detection** capabilities, **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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