

→ SPYNEL perimeter security



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





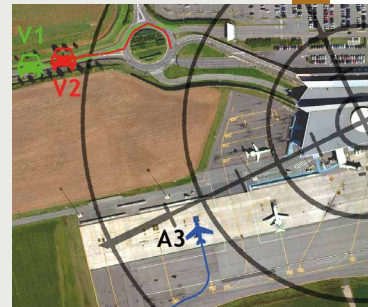
Spynel-U

PANORAMIC INFRARED

VISION SYSTEM






→ 360-degree port surveillance



→ Tracks displayed on situation map

TECHNICAL

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	640 x 512 Uncooled LWIR FPA	640 x 512 Uncooled LWIR FPA
Infrared image resolution	10 000 (Horizontal) x 512 (Vertical)	18 000 (Horizontal) x 512 (Vertical)
Visible detector type (option)	1620 x 1220 pixels	1620 x 1220 pixels
Visible image resolution	26 000 (Horizontal) x 1220 (Vertical)	47 000 (Horizontal) x 1220 (Vertical)
Video output and control	TCP/IP	TCP/IP
Dimensions (Diameter x Height)	350 mm x 600 mm	350 mm x 600 mm
Weight	20 kg	20 kg
Protection standard	IP 67	IP 67
Power supply	24V DC / 6 Amps max at startup	24V DC / 6 Amps max at startup
Detection range for		
human : 	Up to 1 km	Up to 2.5 km
car : 	Up to 1.5 km	Up to 4 km
Ship : 	Up to 6 km	Up to 15 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), **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...

Above information is subject to changes without notice

