

→ 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





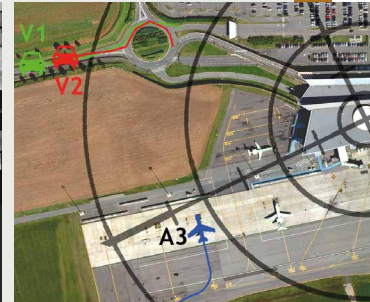
Spynel-U

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

