

→ Sniper detection with SPYNEL



Spynel-X

WIDE AREA

SURVEILLANCE SYSTEM

360° INTRUSION DETECTION, ANYWHERE, ANYTIME

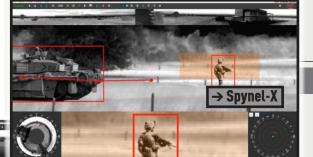
Spynel is a unique wide-area surveillance system, acquiring real-time full panoramic images with automatic intrusion detection and tracking capabilities. Capturing videos with an unequaled resolution of up to 120 Mpix, Spynel-X provides powerful situation awareness over 360 degrees, with the highest detection range in its category. Associated with Cyclope advanced motion detection software, it provides unprecedented real-time security against conventional and asymmetrical threats, in the whole surroundings, up to the horizon.

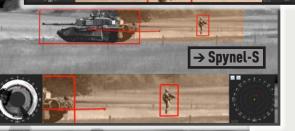
EARLY TARGET DISCRIMINATION FOR FAST REACTION

Compact and robust, Spynel can be quickly deployed to perform early intrusion alert over extremely large areas in total darkness, fog, smoke. An unlimited number of tracks are simultaneously identified on highly resolved images, including hardly detectable threats, such as crawling men, UAVs, stealth aircrafts. As a completely passive system, it is invisible to intruders, cannot be tricked by camouflage nor jamming. It operates 24/7, whatever the weather. Using a high-end MWIR sensor, Spynel-X exhibits high performance, including in warm and humid regions.

APPLICATIONS

- Persistent wide area surveillance
- 24/7 perimeter security
- 360° asymmetrical threats detection





→ Spynel-C

- Airport / airfield surveillance
- Critical infrastructure protection
- Surveillance of forward operating bases
- UAV, low air target tracking
- Border and coastal passive surveillance
- Self-protection of ships
- Fight against piracy and smuggling

BENEFITS

- Top-of-the-range system in the Spynel series
- Cost effective and reliable surveillance system
- 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
- Fully passive system, totally undetectable









PANORAMIC INFRARED

VISION SYSTEM



→ SPYNEL-X with V-LRF option





→ Tracks displayed on situation map

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TECHNICAL >

| > SENSOR | Spynel-X 3500 | Spynel-X 6000 | Spynel-X 8000 |
|--------------------------------------|-----------------------|-------------------------|-------------------------|
| Horizontal FOV | 360° | 360° | 360° |
| Vertical FOV | 20° | 10° | 5° |
| Vertical adjustable tilt (motorized) | ± 45° (motorized) | ± 45° (motorized) | ± 45° (motorized) |
| IFOV | 0.3 x 0.3 mrad x mrad | 0.15 x 0.15 mrad x mrad | 0.08 x 0.08 mrad x mrad |
| Scanning speed | 2 rps (360°/0.5sec) | 1 rps (360°/sec) | 0.5 rps (360°/2sec) |
| Detector type | MWIR megapixel FPA | MWIR megapixel FPA | MWIR megapixel FPA |
| Cooling | Stirling microcooler | Stirling microcooler | Stirling microcooler |
| Image resolution | 23 000 (H) x 1280 (V) | 46 000 (H) x 1280 (V) | 92 000 (H) x 1280 (V) |
| Video output and control | IP | IP | IP |
| Dimensions(Dia x H) | 385 mm x 580 mm | 385 mm x 580 mm | 385 mm x 580 mm |
| Weight | < 40 kg | < 40 kg | < 40 kg |
| Operating temperature | -40°C to +71°C | -40°C to +71°C | -40°C to +71°C |
| Protection standard | IP 66 | IP 66 | IP 66 |
| | | | |
| Power supply | 24V DC / 10 Amps | 24V DC / 10 Amps | 24V DC / 10 Amps |
| Detection range for | | | |
| human: 🌴 | Up to 3.5 km | Up to 6 km | Up to 8 km |
| car: | Up to 7 km | Up to 12 km | Up to 15 km |
| tank: | Up to 21 km | Up to 25 km | Up to 30 km |

V-LRF OPTION

Visible full HD camera with continuous optical zoom and/or Laser Range Finder

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), **designation and tracking** of an unlimited number of targets, 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



HGH SYSTEMES INFRAROUGES

10 rue Maryse Bastié 91430 IGNY - FRANCE

TEL: +33 1 69 35 47 70 - FAX: +33 1 69 35 47 80 E-MAIL: HGH@HGH.FR

