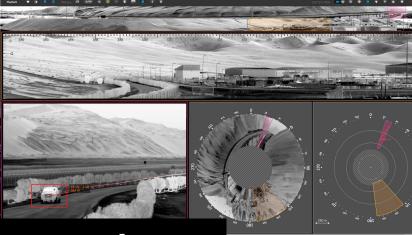
→ SPYNEL Critical Infrastructure Surveillance





Spynel-M

INFRARED RADAR

for WIDE AREA SURVEILLANCE

LIGHTWEIGHT PANORAMIC THERMAL SURVEILLANCE SYSTEM

SPYNEL-M is the latest in the Spynel series and benefits from HGH's 15-year expertise in automatic intrusion detection and tracking systems, for wide area surveillance applications. SPYNEL-M is a high-resolution panoramic thermal camera, acting as an infrared radar. Robust, lightweight, transportable, SPYNEL-M is easily carried in a backpack. It can be fixed on top of a building, or quickly and discreetly deployed on a light mast, to perform multi-event detection over extremely large areas in total darkness. Consuming only 8 watts of power, it can be operated with solar or alternate power supply systems to allow remote, disconnected operation. Requiring no maintenance, SPYNEL-M brings the highest technology at a fair cost for the surveillance of critical infrastructures.



SPYNEL-M continuously captures full panoramic images every second, or can perform sector scanning at a higher rate, to bring real-time security against conventional and asymmetrical threats. It can also operate in staring mode at fastest rate, for target recognition. A single SPYNEL-M sensor can perform 24/7 early human intrusion alerts over a 1.5km-diameter area and can be quickly deployed and configured. Any threat will be tracked at any time from any direction, including hardly detectable targets such as: crawling men, RHIBs, low altitude air targets, UAVs and stealth aircrafts. SPYNEL-M can replace up to 16 traditional cameras in one single sensor head. As a completely passive system, the SPYNEL-M is invisible to intruders, requires no additional illumination and cannot be tricked by camouflage nor jamming.

→ SPYNEL-M INFRARED RADAR

APPLICATIONS

- Critical infrastructure protection (power stations, data centers, dams, prisons, water treatment stations, solar and wind farms, oil depots, ammunition dumps ...)
- 24/7 perimeter security
- 360° detection of asymmetrical threats
- Airport / airfield surveillance
- Port monitoring
- Special Operation Forces
- VIP and event security

→ Infrared panoramic detection and tracking

BENEFITS

- Cost effective, low power consumption and reliable surveillance system
- Full 360-degree panoramic coverage with a single sensor
- Day and night panoramic scrutiny even in adverse weather conditions
- Flexible and easy configuration of the covered area
- Automatic tracking of all threats with superior image quality
- Compact, robust, lightweight equipment, for a fast deployment and an easy installation
- Fully passive system, totally undetectable unlike radar
- Uncooled IR technology, maintenance-free system





INFRARED RADAR

for WIDE AREA SURVEILLANCE





→ Robust, lightweight, transportable sensor for fast deployment

SENSOR

	Spynel-M 300 W	Spynel-M 300 N	Spynel-M 600 W	Spynel-M 600 N
Horizontal Field of View	360°	360°	360°	360°
Vertical Field of View	30°	18°	36°	18°
Vertical Adjustable Tilt	-18°/+18°	-18°/+18°	-18°/+18°	-18°/+18°
Scanning Rate	1 Hz (360° / 1sec)	0.5 Hz (360° / 2sec)	1 Hz (360° / 1sec)	0.5 Hz (360° / 2sec)
Sector Scan Rate (Option)	1.5 Hz on 180-degree sector 2.5 Hz on 90-degree sector	0.8 Hz on 180-degree sector 1.5 Hz on 90-degree sector	1.5 Hz on 180-degree sector 2.5 Hz on 90-degree sector	0.8 Hz on 180-degree sector 1.5 Hz on 90-degree sector
Detector Format	336 x 256	336 x 256	640 x 512	640 x 512
Image Resolution	0.7 Mpixels	1.4 Mpixels	2.6 Mpixels	5.2 Mpixels
Video Output and Control	TCP/IP	TCP/IP	TCP/IP	TCP/IP
Optional Communication	Wireless	Wireless	Wireless	Wireless
Dimensions (Diam. x Height)	125 mm x 200 mm			
Weight	1.8 kg	1.8 kg	1.8 kg	1.8 kg
Optional Power Supply	Power over Ethernet	Power over Ethernet	Power over Ethernet	Power over Ethernet
Power Consumption	8 W	8 W	8 W	8 W
Operating Temperature Range	-40°C / +55°C	-40°C / +55°C	-40°C / +55°C	-40°C / +55°C
Protection Standard	IP 66	IP 66	IP 66	IP 66
Detection Range For				
Human : 📫	Up to 250 m	Up to 400 m	Up to 400 m	Up to 700 m
Car: 🚗	Up to 600 m	Up to 900 m	Up to 900 m	Up to 1,500 m

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





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