SPYNEL-M

Wide Area Surveillance Solution

5Mpix day/night panoramic video

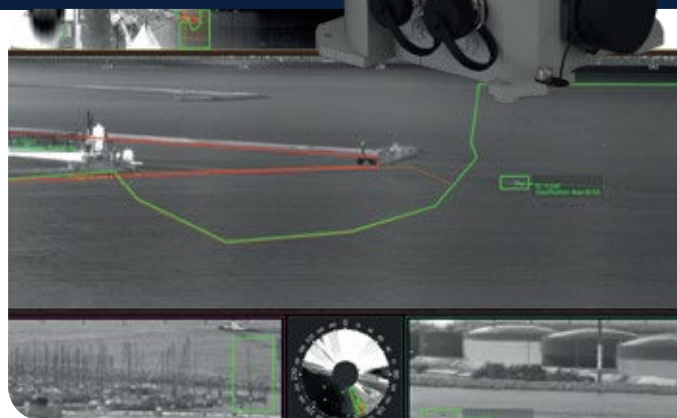**Uncooled LWIR Thermal Sensor**

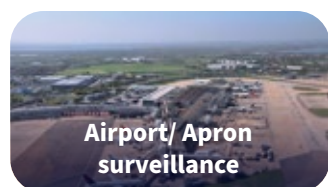**Human detection range up to 700m**

360° PANORAMIC DETECTION ANYWHERE, ANYTIME

SPYNEL® are proven wide-area surveillance solutions, acquiring real-time panoramic thermal images with automatic detection, tracking and classification capabilities thanks to the integrated CYCLOPE software.

SPYNEL®-M is the lightest and most compact sensor in the SPYNEL® series. Acting as an infrared radar, it brings the highest technology at a fair cost for permanent or temporary surveillance of sensitive locations.
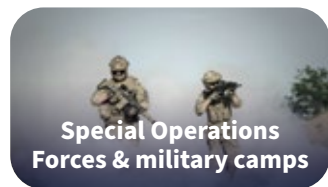
APPLICATIONS

Airport/ Apron surveillance

Critical infrastructure protection

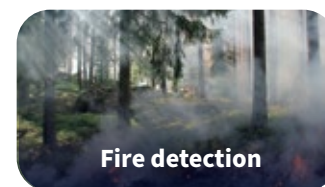**Seaside/ Harbour monitoring**

Electrical/ gas substations monitoring

Special Operations Forces & military camps

Intrusion detection in open areas

Unmanned Surface Vehicle (USV) for collision avoidance

Fire detection

BENEFITS

- Day & night panoramic imaging even in adverse weather conditions
- Human, vehicle or RHIB detection capabilities
- Uncooled thermal technology: maintenance-free
- Compact and lightweight for very fast deployment

- Automatic tracking & classification of any ground/sea threats
- Passive operation unlike radars (undetectable, no EM disturbance)
- Proven, reliable and COTS technology
- All events recorded over 360°

hgh-infrared.com/spynel-m

SPYNEL-M
Wide Area Surveillance Solution

TECHNICAL SPECIFICATIONS

	SPYNEL-M 600 W	SPYNEL-M 600 N
Horizontal FOV	360°	360°
Vertical FOV	35.5° (-24° to +11.5° by default)	18° (-15° to +3° by default)
Vertical adjustable tilt	-18°/+18°	-18°/+18°
Scanning rate	1 Hz (360° / sec)	0.5 Hz (360° / 2sec)
Sector scan rate	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 ...
Infrared detector type	Uncooled LWIR FPA (≥600 pixels horizontally)	Uncooled LWIR FPA (≥600 pixels horizontally)
Image resolution	2.6 Mpixels	5.2 Mpixels
Video output and control	TCP/IP	TCP/IP
Optional communication	Wireless	Wireless
Dimensions (Diam. x Height)	125 mm x 200 mm	125 mm x 200 mm
ble camera	Panoramic 2x180°	Panoramic 2x180°
	1.8 kg	1.8 kg
y	24V / PoE+	24V / PoE+
Power consumption	8 W	8 W
Operating Temperature Range	-40°C / +60°C	-40°C / +60°C
Protection Standard	IP 66	IP 66

Detection/Recognition ranges for Human: Vehicle: RHIB:	Detection	Recognition	Detection	Recognition
Human:	Up to 400 m	Up to 125 m	Up to 700 m	Up to 250 m
Vehicle:	Up to 900 m	Up to 250 m	Up to 1.5 km	Up to 500 m
RHIB:	Up to 900 m	Up to 250 m	Up to 1.5 km	Up to 500 m

CONTROL AND DISPLAY SOFTWARE

Advanced video processing
Artificial Intelligence, smart image enhancements, detection/classification algorithms, data fusion

Multi-layer display
Real-time panoramic or zoom display, geolocation of threats

High integration capabilities
ONVIF, H264, XML, MIME, TCP/IP, Client/Server
Onvif

Advanced Alarm Management
Track analysis to trigger alarms and customized security actions

DRI ranges according to Johnson criterium and STANAG standards

Range values represent optimal performance, which will vary depending on target size, clutter environment, atmospheric conditions and sensor operational settings

Above information is subject to changes without notice

HGH
Enlighten the Unseen

Contact us: hgh@hgh-infrared.com | www.hgh-infrared.com

EUROPE
HGH SYSTEMES INFRAROUGES
10 rue Maryse Bastié
91430 Igny, France
Phone: +33 1 69 35 47 70

USA
ELECTRO OPTICAL INDUSTRIES
1240 E Campbell Rd Ste. 200,
Richardson, TX 75081
Tel : +1 805 964 6701

ASIA
ASIA INFRARED SYSTEMS
1 Paya Lebar Link, #04-01
Singapore 408533
Phone: +65 6955 8585