SPYNEL-S

Wide Area Surveillance Solution

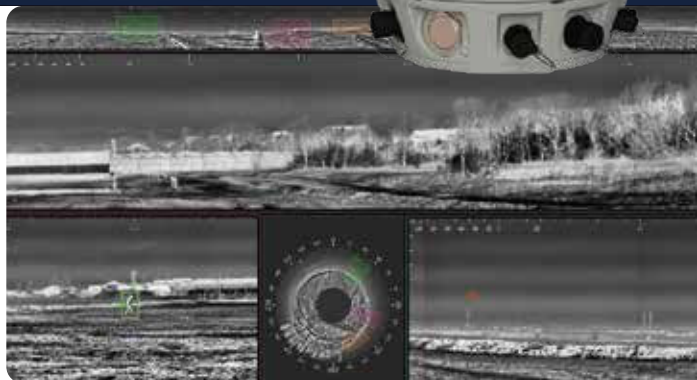- 30Mpix day/night panoramic video
- Cooled MWIR thermal sensor
- Human detection range up to 6km

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®-S integrates a MWIR 640 x 512 focal plane array to capture up to 30Mpix day/night video streams.

APPLICATIONS

- Airport/ Airfield surveillance
- Military base protection (air, naval, FOB)
- Maritime wide area surveillance
- Offshore platforms and oil rigs security
- Border & Coastal passive surveillance
- Critical infrastructure protection
- Self-protection of ships (IRST)
- Passive air defence

BENEFITS

- Day & night panoramic imaging in total darkness in any weather conditions
- Human, vehicle, RHIB or UAV detection capabilities
- Automatic tracking and classification of any ground/sea/air threats
- Passive operation unlike radars (undetectable, no EM disturbance)

- Proven, reliable COTS technology
- Robust and rapidly deployable
- Motorized tilt for fine-tuned installations
- All events recorded over 360°

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TECHNICAL SPECIFICATIONS

	SPYNEL-S 2000			SPYNEL-S 6000		
Horizontal FOV	360°			360°		
Vertical FOV	20°			5°		
Vertical motorized tilt	± 45° (motorized)			± 45° (motorized)		
IFOV	0.6 x 0.6 mrad x mrad			0.15 x 0.15 mrad x mrad		
Scanning speed	2 rps (360°/0.5sec)			0.5 rps (360°/2sec)		
Detector type	MWIR 640x512 FPA			MWIR 640x512 FPA		
Cooling	Stirling microcooler			Stirling microcooler		
Image resolution	11 500 (H) x 640 (V)			46 000 (H) x 640 (V)		
Video output and control	IP			IP		
Dimensions (Dia x H)	385 mm x 580 mm			385 mm x 580 mm		
Weight	< 40 kg			< 40 kg		
Operating temperature	-40°C to + 71°C			-40°C to + 71°C		
Protection standard	IP 66			IP 66		
Power supply	24V DC / 10 Amps			24V DC / 10 Amps		
Detection/Recognition ranges for	**Detection**		**Recognition**	**Detection**		**Recognition**
Human:	Up to 1.5 km		Up to 500 m	Up to 6 km		Up to 2km
Vehicle:	Up to 3.5 km		Up to 1.2 km	Up to 10 km		Up to 4 km
RHIB:	Up to 3.5 km		Up to 1.2 km	Up to 10 km		Up to 4 km

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 | hgh-infrared.com

EUROPE
10 rue Maryse Bastié
91430 Igny, FRANCE
Phone: +33 1 69 35 47 70

USA
1240 E Campbell Rd Ste. 200,
Richardson, TX 75081, USA
Tel: +1 805 965 6701

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