SPYNEL-U

Wide Area Surveillance Solution

10Mpix day/night panoramic video

Uncooled LWIR Thermal sensor
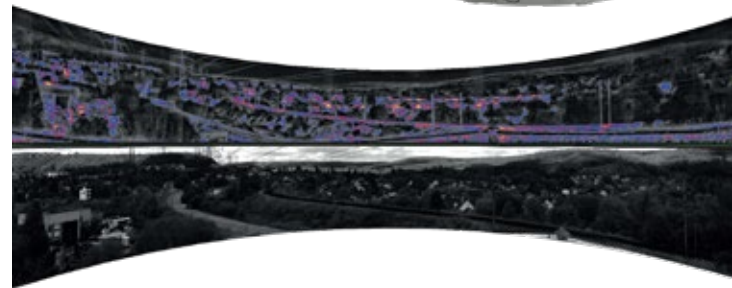
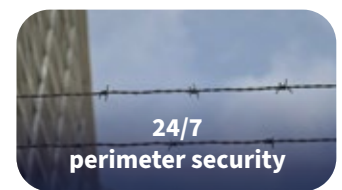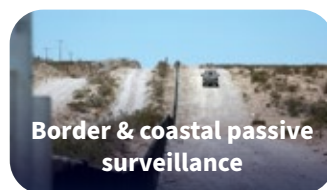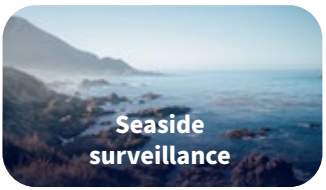**Human detection range up to 2km**

DUAL CHANNEL PANORAMIC SURVEILLANCE SENSOR

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®-U integrates two channels with LWIR uncooled and visible detectors in order to provide real time thermal and visible panoramic videos.

APPLICATIONS

Airport/ Airfield surveillance

Harbour monitoring

Offshore platforms and Oil rigs security

Refineries and petrochemical sites

Seaside surveillance

Critical Infrastructure protection

Border & coastal passive surveillance

24/7 perimeter security

BENEFITS

- Day and night panoramic imaging even in adverse weather conditions
- Thermal and Visible panoramic video for enhanced identification capabilities
- Human, vehicle or RHIB detection capabilities
- Uncooled thermal technology: maintenance-free

- 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-u

SPYNEL-U
Wide Area Surveillance Solution

TECHNICAL SPECIFICATIONS

	SPYNEL-U 1000		SPYNEL-U 2500	
Horizontal FOV	360°		360°	
Vertical FOV	18° (-15° to +3°)		9° (-6.5° to +2.5°)	
Scanning speed	0.5 rps (360° / 2sec)		0.25 rps (360° / 4sec)	
Infrared detector type	Uncooled LWIR FPA (≥ 600 pixels horizontally)			
Infrared image resolution	5 Mpixels		10 Mpixels	
Visible detector type	2048 x 1536			
Visible image resolution	50 Mpixels		100 Mpixels	
Video output and control	TCP/IP			
Dimensions (Diameter x Height)	400 mm x 500 mm			
Weight	25 kg			
Protection standard	IP 66			
Power supply	24V DC / 10 Amps max at startup			
Detection/Recognition ranges for	**Detection**	**Recognition**	**Detection**	**Recognition**
Human:	Up to 1 km	Up to 350 m	Up to 2 km	Up to 700 m
Vehicle:	Up to 2 km	Up to 700 m	Up to 3.5 km	Up to 1.4 km
RHIB:	Up to 2 km	Up to 700 m	Up to 3.5 km	Up to 1.4 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