



SPYNEL-U

Wide Area Surveillance Solution



10Mpix day/night
panoramic video



Uncooled LWIR
Thermal sensor



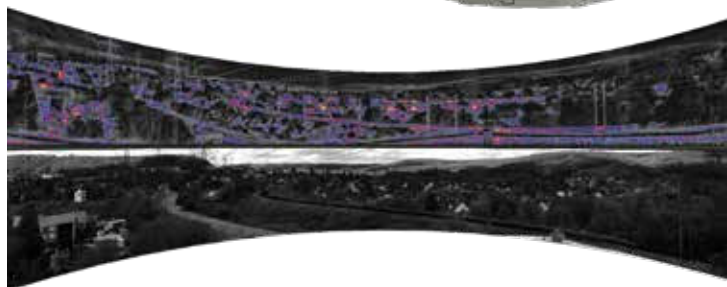
Human detection
range up to 2km



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



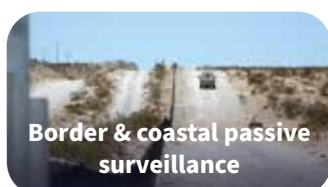
Refineries and
petrochemical sites



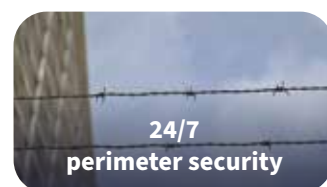
Seaside
surveillance



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°

SPYNEL-U

Wide Area Surveillance Solution

ref: SPYNEL-U-en-all

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
Vehicle: 	Up to 2 km	Up to 700 m
RHIB: 	Up to 2 km	Up to 700 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



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



Enlighten the Unseen

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