



SPYNEL-S

Wide Area Surveillance Solution



30Mpix day/night
panoramic video



Cooled MWIR thermal
sensor



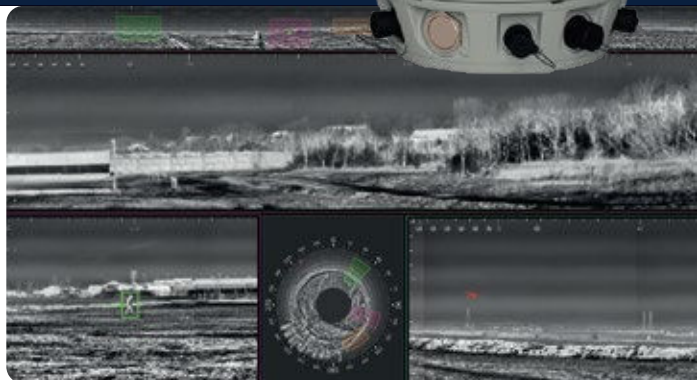
Human detection
range up to 6km



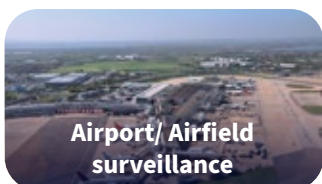
360° PANORAMIC DETECTION, ANYWHERE, ANYTIME

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



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°

SPYNEL-S

Wide Area Surveillance Solution

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 Up to 1.5 km Up to 3.5 km Up to 3.5 km  Recognition Up to 500 m Up to 1.2 km Up to 1.2 km	 Detection Up to 6 km Up to 10 km Up to 10 km  Recognition Up to 2km Up to 4 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



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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