



SPYNEL-X

Wide Area Surveillance Solution



120Mpix day/night
panoramic video



Cooled MWIR
thermal sensor



Human detection
range up to 9km



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®-X integrates a MWIR Megapixel focal plane array and is the InfraRed Search&Track sensor (IRST) offering the highest resolution on the market.



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

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TECHNICAL SPECIFICATIONS

	SPYNEL-X 3500	SPYNEL-X 6000	SPYNEL-X 8000
Horizontal FOV	360°	360°	360°
Vertical FOV	20°	10°	5°
Vertical motorized tilt	± 45°	± 45°	± 45°
IFOV	0.3 x 0.3 mrad x mrad	0.15 x 0.15 mrad x mrad	0.08 x 0.08 mrad x mrad
Scanning speed	2 rps (360°/0.5sec)	1 rps (360°/ sec)	0.5 rps (360°/2sec)
Detector type	MWIR megapixel FPA	MWIR megapixel FPA	MWIR megapixel FPA
Cooling	Stirling microcooler	Stirling microcooler	Stirling microcooler
Image resolution	23 000 (H) x 1280 (V)	46 000 (H) x 1280 (V)	92 000 (H) x 1280 (V)
Video output and control	IP	IP	IP
Dimensions (Dia x H)	385 mm x 580 mm	385 mm x 580 mm	385 mm x 580 mm
Weight	< 40 kg	< 40 kg	< 40 kg
Operating temperature	-40°C to +71°C	-40°C to +71°C	-40°C to +71°C
Protection standard	IP 66	IP 66	IP 66
Power supply	24V DC / 10 Amps	24V DC / 10 Amps	24V DC / 10 Amps
Detection/Recognition ranges for Human:  Vehicle:  RHIB: 	 Detection Up to 2.5 km  Recognition Up to 900 m	 Detection Up to 5 km Up to 9 km Up to 9 km  Recognition Up to 1.8 km Up to 3.3 km Up to 3.3 km	 Detection Up to 9 km Up to 12.5 km Up to 12.5 km  Recognition Up to 3.3 km Up to 6 km Up to 6 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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