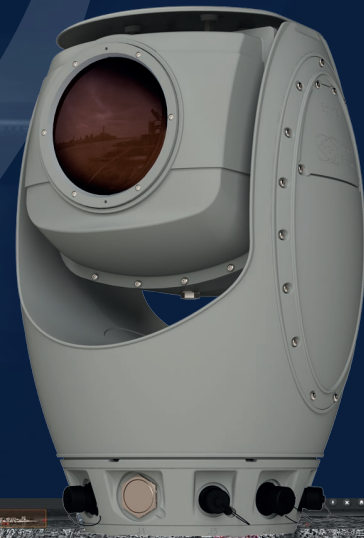




# SPYNEL-X

## Wide Area Surveillance Solution



120Mpix day/night panoramic video



Cooled MWIR thermal sensor



Human detection range up to 9km

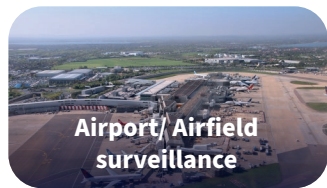
### 360° PANORAMIC DETECTION, ANYWHERE, ANYTIME

**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






### 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 (undetactable, no EM disturbance)
- Proven, reliable and COTS technology
- Robust and rapidly deployable
- Motorized tilt for fine-tuned installations
- All events recorded over 360°

# SPYNEL-X

## Wide Area Surveillance Solution

### 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 range for Human:  Vehicle:  RHIB: 	Up to 2.5 km Up to 5 km Up to 5 km	Up to 5 km Up to 9 km Up to 9 km	Up to 9 km Up to 12.5 km Up to 12.5 km

Detection ranges according to Johnson criterium and STANAG standards

### 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



Enlighten the Unseen

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