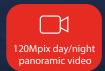




**Wide Area Surveillance Solution** 



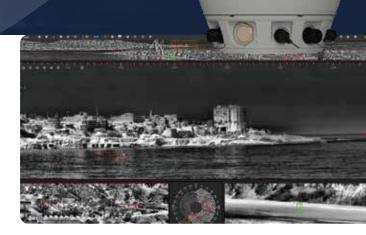






**SPYNEL®** are proven wide-area surveillance solutions, acquiring real-time panoramic thermal images with automatic detection, tracking and classification capabilities thanks to the integrated CYCLOPE software.

**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 (undetectable, 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/Recognition ranges for Human:  Vehicle: | (b) Detection (2.5 km   Up to 900 m Up to 5 km   Up to 1.7 km Up to 5 km   Up to 1.7 km | (b) Detection Up to 5 km Up to 9 km Up to 9 km Up to 3.3 km Up to 9 km Up to 3.3 km | Detection     Detection     Up to 9 km     Up to 12.5 km     Up to 12.5 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



## Contact us: hgh@hgh-infrared.com | hgh-infrared.com

**EUROPE** 

10 rue Maryse Bastié 91430 Igny, FRANCE Phone: +33 1 69 35 47 70 USA

1240 E Campbell Rd Ste. 200, Richardson, TX 75081, USA Tel: +1 805 965 6701

#### **ASIA**

1 Paya Lebar Link, Unit 04-01 Singapore 408533 Phone: +65 6955 8585