



WIDE AREA SURVEILLANCE

SPYNEL SERIES

Wide Area Surveillance Solutions



hgh-infrared.com

360-DEGREE SITUATIONAL AWARENESS, NIGHT & DAY, UP TO THE HORIZON

SPYNEL® sensors are unique **passive wide-area surveillance** systems for **automatic intrusion detection**, **tracking and classification of an unlimited number of threats**, coming from any direction (land, air or sea). Scanning the panorama at 360°, these thermal cameras provide outstanding image quality with very high spatial resolution, up to 120 Mpixels, at fast frame rate (up to 2 Hz).

Featuring high integration capabilities, SPYNEL® Series address the requirements of permanent or temporary surveillance in a scalable and flexible way, adapting to ground based or embarked applications.

Based on its live video analytics processed by Cyclope software suite, SPYNEL® solution provides unprecedented situational awareness, day and night, 24/7, helping for rapid assesment of unwanted events.

SPYNEL® wide area surveillance solution helps tackle the most challenging security applications by detecting any types of intrusions and both conventional and asymmetrical threats, including crawling men, vehicles, swimmers, RHIBs, skiffs, UAVs and low altitude or stealth aircrafts.

SPYNEL® Series is the ultimate solution for a wide range of applications including perimeter security of industrial sites, critical infrastructure protection, naval, coastal and maritime surveillance, border passive surveillance, military bases protection, airport/seaport security, onshore/offshore oil&gas sites security...





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APPLICATIONS

LAND









SEA









AIR





CRITICAL INFRASTRUCTURES









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/S WIDE AREA SURVEILLANCE SOLUTION



HUMAN / VEHICLE / RHIB DETECTION & RECOGNITION RANGES



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.

TECHNICAL SPECIFICATIONS



Video output and control



motorized tilt



385 x 580mm



FPA



Stirling microcooler







24V DC / 10 Amps max at startup



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TECHNICAL SPECIFICATIONS





Uncooled LWIR FPA



400 x 500 mm











HUMAN / VEHICLE / RHIB DETECTION & RECOGNITION RANGES



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TECHNICAL SPECIFICATIONS



Horizontal FOV





scanning mode



125 x 200mm



Uncooled LWIR FPA (600 pixels horizontally)





Mobility pack (standalone operation)





-40°C to +60°C



Protection standard



24V / PoE+ 8\//

CYCLOPE VIDEO ANALYTICS SOFTWARE SUITE



INTRUSION DETECTION, TRACKING AND CLASSIFICATION OVER 360°

CYCLOPE is an advanced software suite processing thermal panoramic images captured by the SPYNEL® Wide Area Surveillance sensors in real-time. It consists of software modules (Server, Client, Hypervisor) enabling to process the SPYNEL panoramic videos for a wide range of ground based or embarked applications, for any type of temporary or permanent installations, and from the simplest up to the most complex network architectures.

Designed to automatically detect, track and classify an unlimited number of ground/air/maritime intruders simultaneously, including hardly detectable threats, such as crawling men, RHIBs, jet-skis, stealth or low altitude aircrafts (like UAVs), CYCLOPE provides advanced data analysis and classification based on GAIA Artifical Intelligence to guarantee a very low false alarm rate.

ONVIF compliant, CYCLOPE can also be fully integrated in a Third Party software (VMS, CMS, C2, PSIM platform...).



CONTROL AND DISPLAY SOFTWARE



Advanced video processing

Artificial Intelligence, smart image enhancements, detection/classification algorithms, data fusion



High integration capabilities

ONVIF, H264, XML, MIME, TCP/IP, Client/Server



Automatic classification of maritime ships with GAIA Artificial Intelligence



Multi-layer display

Real-time panoramic or zoom display, geolocation of threats



Advanced Alarm Management

Track analysis to trigger alarms and customized security actions



Zones with smart alarm conditions for human intrusion detection and tracking









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