





Spynel-M

INFRARED RADAR

for WIDE AREA SURVEILLANCE

LIGHTWEIGHT PANORAMIC THERMAL SURVEILLANCE SYSTEM

SPYNEL-M is the latest in the SPYNEL series and benefits from HGH's 15-year expertise in automatic intrusion detection and tracking systems, for wide area surveillance applications. SPYNEL-M is a high-resolution panoramic thermal camera, acting as an infrared radar. Robust, lightweight, transportable, SPYNEL-M is easily carried in a backpack. It can be fixed on top of a building, or quickly and discreetly deployed on a light mast, to perform multi-event detection over extremely large areas in total darkness. Consuming only 8 watts of power, it can be operated with solar or alternate power supply systems to allow remote, disconnected operation. Requiring no maintenance, SPYNEL-M brings the highest technology at a fair cost for the surveillance of critical infrastructures.

HIGH-END SITE PROTECTION DEPLOYED IN MINUTES

SPYNEL-M continuously captures full panoramic images every second, or can perform sector scanning at a higher rate, to bring real-time security against conventional and asymmetrical threats. It can also operate in staring mode at fastest rate, for target recognition. A single SPYNEL-M sensor can perform 24/7 early human intrusion alerts over a 1.5km-diameter area and can be quickly deployed and configured. Any threat will be tracked at any time from any direction, including hardly detectable targets such as: crawling men, RHIBs, low altitude air targets, UAVs and stealth aircrafts. SPYNEL-M can replace up to 16 traditional cameras in one single sensor head. As a completely passive system, the SPYNEL-M is invisible to intruders, requires no additional illumination and cannot be tricked by camouflage nor jamming.

APPLICATIONS

- Critical infrastructure protection (power stations, data centers, dams, prisons, water treatment stations, solar and wind farms, oil depots, ammunition dumps...);
- 24/7 perimeter security
- 360° detection of asymmetrical threats
- Airport / Port surveillance
- Special Operation Forces
- VIP and event security
- Fire detection

BENEFITS



- Cost effective, low power consumption and reliable
- Full 360° panoramic coverage with a single sensor
- Day and night scrutiny even in adverse weather conditions
- Fully passive system, totally undetectable unlike radar
- Fast deployment and easy installation
- Automatic tracking of all threats with superior image quality
- Uncooled IR technology, maintenance-free.

ightarrow Infrared panoramic detection and tracking



> CONTROL AND DISPLAY SOFTWARE

Detection ranges according to Johnson criterium and STANAG standards

Software functions:

SPYNEL

ref: SPM-Len-ail

Get full advantage of Spynel sensor with Cyclope software. Cyclope provides, at a glance, **real time panoramic display** (360° strip, annular, radar & zoom views), **3D detection** capabilities, **unlimited targets designation and tracking**, immediate **threat location** (azimuth, elevation, distance), GPS, AIS and radar **data integration**, automatic **control of PTZ** systems for target identification, **forensic capabilities** (timeline, sequence storage and playback), spatial and temporal bookmarks, multiple **threats displayed on situation map**, fine **image stabilization** and more...



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