Thermal SightSensor NS 640x480
Long-Range/Wide Area Detection Camera

Outstanding Thermal Intruder Detection
The SightSensor NS is a smart thermal camera that detects, analyzes and communicates real-time intruder activity over critical perimeters at outdoor sites. Like all SightSensor thermal cameras, the NS works at the edge and includes integrated video analytics, scene and gyro-based stabilization, and a toolbox of filters to optimize outdoor performance.

FEATURES

- Powerful image processing
- Geospatial video analytics
- Outstanding thermal image clarity

BENEFITS

- Accurate detection, extended range, low false alarms
- Detect intrusions while ignoring small animals
- Nighttime surveillance without lighting

PROCESSING YIELDS OUTSTANDING THERMAL DETECTION AND CLARITY

AVAILABLE ACCESSORIES

Mounts
Wall and pole mounts available. Refer to the SightLogix Accessories datasheet.

SightMonitor
GPS-based target display and coordination software. Refer to the SightLogix SightMonitor datasheet.

SightTracker
Automatic PTZ controller. Refer to the SightLogix SightTracker datasheet.

ORDERING INFORMATION

<table>
<thead>
<tr>
<th>Part Number</th>
<th>Inbound Detection</th>
<th>FOV</th>
</tr>
</thead>
<tbody>
<tr>
<td>NS75-620</td>
<td>246 ft (75m)</td>
<td>90°</td>
</tr>
<tr>
<td>NS100-620</td>
<td>328 ft (100m)</td>
<td>70°</td>
</tr>
<tr>
<td>NS145-620</td>
<td>467 ft (145m)</td>
<td>50°</td>
</tr>
<tr>
<td>NS195-620</td>
<td>640 ft (195m)</td>
<td>37.5°</td>
</tr>
<tr>
<td>NS305-620</td>
<td>1001 ft (305m)</td>
<td>24.8°</td>
</tr>
<tr>
<td>NS410-620</td>
<td>1345 ft (410m)</td>
<td>17.6°</td>
</tr>
<tr>
<td>NS595-620</td>
<td>1952 ft (595m)</td>
<td>12.4°</td>
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</tbody>
</table>

Crossfield detection distances may be up to 50% further, depending on application conditions.
Specifications

Imager and Video Output
Detector: Un-cooled VOx Microbolometer, 8-14 micron
Resolution: 640x480 (fixed lens)
Fields of View: 90°, 70°, 50°, 37.5°, 24.8°, 17.6°, 12.4°
Dynamic Range: 14 bit digital sensor interface
Sensitivity (NETD) f/1.0: < 50 mK at room temp
Compression: H.264, MPEG-4 (Simple Protocol), MJPEG
Frame Rate: Up to 15 FPS; user configurable

Video Analytics
Video Analytic Rules (Up to 64 individual Alarm Zones)
Motion Tracking, From/To Zones, Target Size Filtering, Wrong-Way Direction, Loitering, Object Left Behind, Speed, Time of Day, Mask Zones
Onboard Storage - Built-in microSD slot (card not supplied; high-endurance cards strongly recommended). Stored clips accessed via WebConfig.

Target Object Parameters
Time, alarm state, creation time, GPS position, size, heading, speed, aspect ratio, and alarm zone

Electrical
Power Requirements
- Thermal imager use only: 6.5W, 24VAC +/- 10% or PoE IEEE 802.3af
- Window Heater (if enabled): 20W (24VAC required)
Total power (with all functionality): 26.5W 24VAC (1.5 amps)
I/O Connectors: RJ45 (Ethernet), SMB (video in & out), terminal blocks for RS422/RS232, power, relay out

Target Tracking Output
Communications
Metadata via industry standard XML over a HTTP/HTTPS interface for 3rd-party integration

SightTracker (optional)
Provides detected targets’ GPS coordinates to automatically position supported PTZ cameras for continual tracking

Network
Ethernet Wired
100 RJ45, IEEE 802.3, 802.3i, 802.3u
Data Rate: 64 kbps to 8 Mbps
Operating Mode: 100 Mbps - Full-duplex, Half-duplex
Protocols: DHCP, IPv4, HTTP, HTTPS, SSL, SLIP, DNS, NTP, RTSP, RTP, TCP, UDP, IGMP, RTCP, ICMP, ARP
Configuration: SightMonitor application or browser-based WebConfig

Camera Enclosure
Weight: 2.1 kg (4.6 lbs.)
Mounting: 3 x 1/4-20 UNC bolts
Enclosure: IP66

Environmental
Operating Temperature
-40° to +60°C (-40° to +140°F)
Storage Temperature
-40° to +80°C (-40° to 176°F)
Relative Humidity
0 to 100%

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