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

sightlogix
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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	BENEFITS
● Powerful image processing	● Accurate detection, extended range, low false alarms
● Geospatial video analytics	● Detect intrusions while ignoring small animals
● Outstanding thermal image clarity	● 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

Part Number	Inbound Detection	FOV
NS75-620	246 ft (75m)	90˚
NS100-620	328 ft (100m)	70˚
NS145-620	467 ft (145m)	50˚
NS195-620	640 ft (195m)	37.5˚
NS305-620	1001 ft (305m)	24.8˚
NS410-620	1345 ft (410m)	17.6˚
NS595-620	1952 ft (595m)	12.4˚
Crossfield detection distances may be up to 50% further, depending on application conditions		

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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, SLP, 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.)

Dimensions
30.7 cm L x 14.7 cm W x 14.0 cm

Enclosure: IP66

Mounting
3 x 1/4-20 UNC bolts

Powder Coat Rating
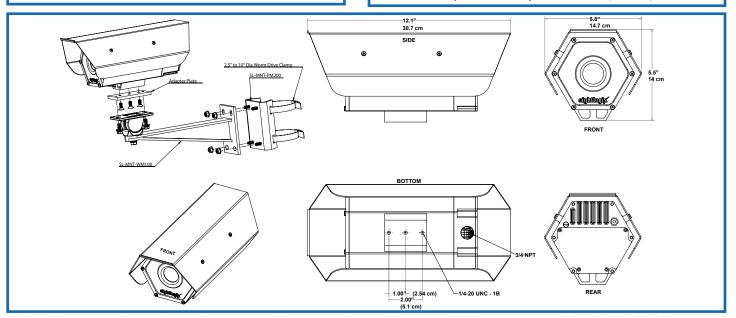1000 sea-spray hours

✅ 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%

Safety Compliance
FCC Part 15, Class A, CE