

# Thermal SightSensor NS 640x480

## Long-Range/Wide Area Detection Camera

**sightlogix**  
making outdoor video... *smarter*

### 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

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

# Specifications

## ✔ 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

### Target Object Parameters

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

## ✔ 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

## ✔ Electrical

**Voltage:** 24 VAC/DC +/- 10% or PoE IEEE 802.3af

**Total max power (with heater):** 26.5W (1.5 amps) @ 24V

- Basic camera operation: 6.5W

- Window Heater (severe conditions): 20W (requires 24V)

**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 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 or Web browser (using default IP address)

## ✔ Camera Enclosure

**Weight:** 2.1 kg (4.6 lbs.)

### Mounting

3 x 1/4-20 UNC bolts

### Dimensions

30.7 cm L x 14.7 cm W x 14.0 cm

### Powder Coat Rating

1000 sea-spray hours

**Enclosure:** IP66

## ✔ Environmental

### Operating Temperature

-40° to +60°C (-40° to +140°F)

### Relative Humidity

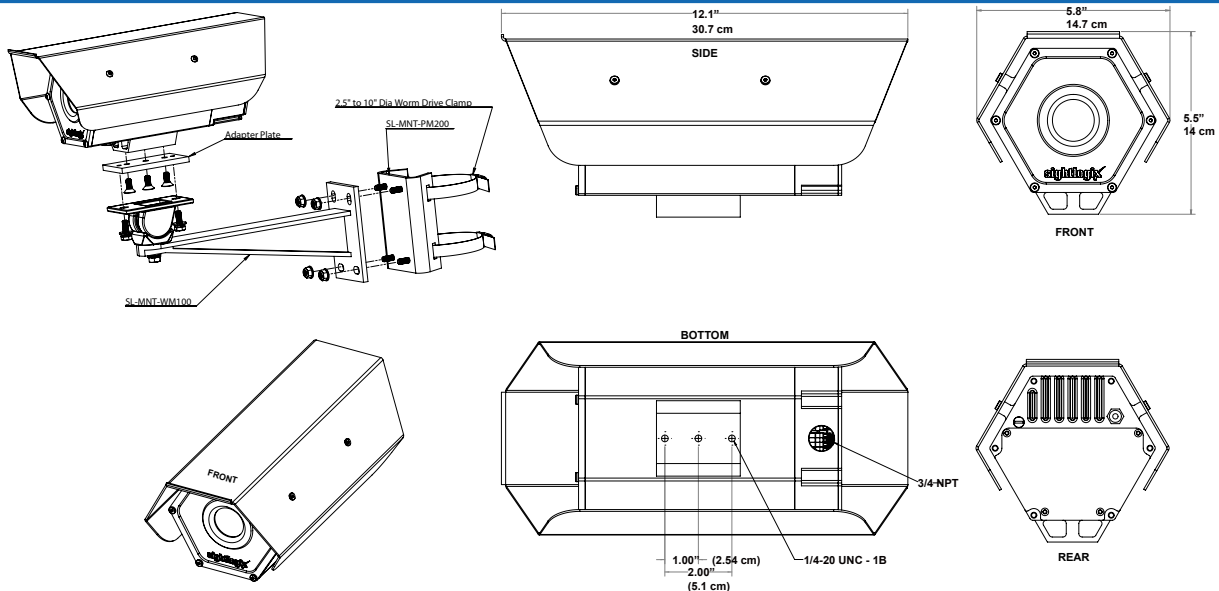
0 to 100%

### Storage Temperature

-40° to +80°C (-40° to 176°F)

### Safety Compliance

FCC Part 15, Class A, CE



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