Thermal SightSensor NS 640x480

Long-Range/Wide Area Detection Camera

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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 site perimeters and buffer zones. The NS works at the edge and includes powerful video processing, geo-aware video analytics, thermal AI nuisance alarm filtering, automatic stabilization, exceptional thermal clarity, and a toolbox of filters to optimize outdoor intruder detection performance.

FEATURES	BENEFITS
Powerful image processing	Accurate detection, extended range, low false alarms
Geospatial video analytics	Higher detection accuracy, lower false alarms
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

Site management and GPS target display software. Refer to the *SightLogix SightMonitor* datasheet.

SightTracker PTZ

Smart AI people tracker. Refer to the *SightLogix SightTracker PTZ* datasheet.

ORDERING INFORMATION

Part Number	Inbound Detection	FOV	Focal Length
NS75-620	75m / 246 ft	90˚	7.5 mm
NS100-620	100m / 328 ft	70˚	9 mm
NS145-620	145m / 475 ft	50˚	13 mm
NS195-620	195m / 640 ft	32˚	16.7 mm
NS220-620	220m / 722 ft	32˚	19 mm
NS305-620	300m / 984 ft	24˚	25 mm
NS410-620	410m / 1345 ft	17˚	35 mm
NS595-620	595M / 1952 ft	12˚	50 mm

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

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Specifications

Imager and Video Output

Detector: Un-cooled VOx Microbolometer, 17 micron

Resolution: 640×480 (fixed lens)

Dynamic Range: 14 bit digital sensor interface

Sensitivity (NETD) f/1.0: < 50 mK at room temp

Frame Rate: Up to 25 FPS; user configurable

Video Output: H.264, MPEG-4 (Simple Protocol),MJPEG

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, Shock Detection

Thermal AI Filter Options: "None", "Everything Except Person and Vehicle," "Everything Except Person," Everything Except Vehicle".

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:

Without Window Heater:

-12W, 24VAC +/- 10% or PoE IEEE 802.3af

With Window Heater (24VAC only):

-32W 24VAC (1.5 amps)

I/O Connectors: RJ45 (Ethernet), SMB (video in & out), terminal blocks for RS422/RS232, power, relay out

Relay Out: Max current: 0.3A, Max voltage 24VDC

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: Browser-based WebConfig (SightMonitor II for site-wide management)

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

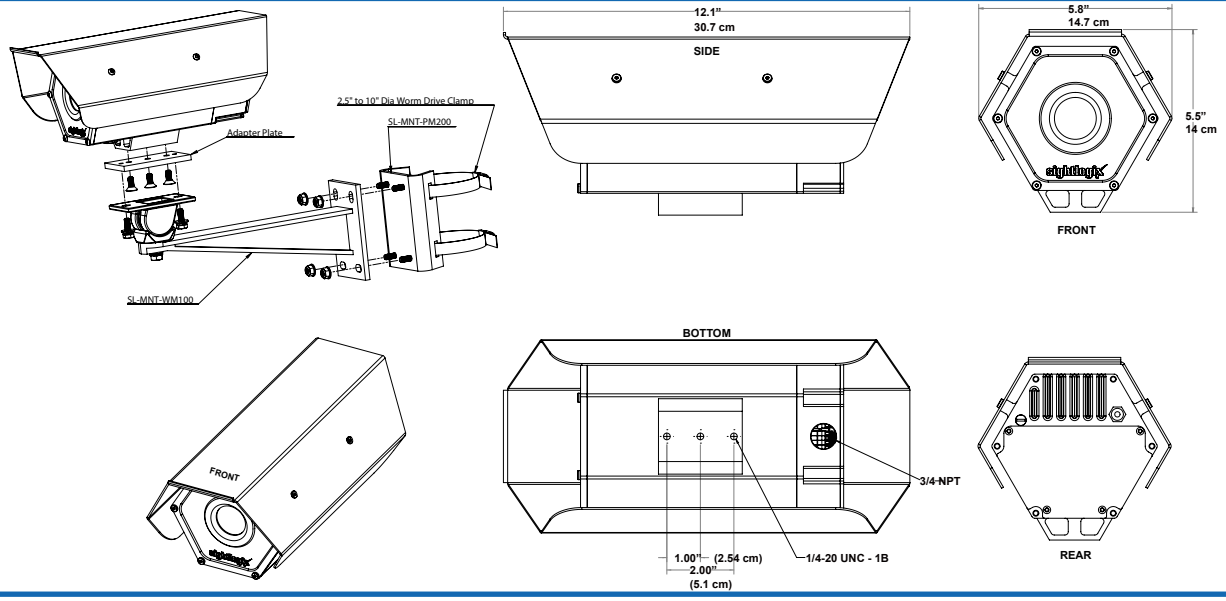
Operating Temperature
-40° to +60°C (-40° to +140°F)

Operating Relative Humidity
0 to 100%

Storage Temperature
-40° to +80°C (-40° to 176°F)

Storage Relative Humidity
0-95%, non-condensing

Safety Compliance
FCC Part 15, Class A, CE



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