

SightSensor HD

Thermal-Visible Smart Camera



Thermal Analytics and HD Visible Assessment

The SightSensor HD is an affordable smart camera that uses SightLogix's acclaimed video analytics to detect intruders with high accuracy and low nuisance alerts over outdoor areas. With a thermal imager for detection, high-definition color imager for detail, built-in NIR illumination and integrated analytics, the SightSensor HD combines outstanding thermal intrusion detection with visible assessment for reliable 24-hour security.



FEATURES

- ✓ Thermal detection with built-in Video Analytics
- ✓ High Definition WDR color video
- ✓ Outstanding low-light image quality & IR illumination

BENEFITS

- ✓ Accurate intruder detection day and night, all conditions
- ✓ Real-time alarm assessment
- ✓ Nighttime surveillance without additional lighting

THERMAL DETECTION



Thermal detection red box also displayed on color video

HD COLOR DETAIL



White border indicates thermal detection zone

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	Detection FOV	Visible FOV
HD236-220	138 ft (42m)	36°	51°
HD220-220	262 ft (80m)	20°	27°
HD355-220	151 ft (46m)	55°	71.5°
HD332-220	246 ft (75m)	32°	40°
HD324-220	328 ft (100m)	24°	27°

Detection distance will be further if person is moving across the FOV

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Specifications

✓ Thermal Imager

Thermal Detector

Un-cooled VOx Microbolometer 8-14 micron

Resolution

206x156 or 320x240

Dynamic Range

14 bit digital sensor interface

Aspect Ratio: 4:3

Sensitivity (NETD): <60mK at f/1.0

Frame Rate: Up to 15 FPS

Video Output: H.264, MJPEG

✓ HD Color Imager

Imager: 2 MP (1/2.8-inch, Progressive Scan CMOS)

Aspect Ratio: 16:9 (Full HD 1080p, 1920 x 1080)

Dynamic Range: WDR >120db Multiple exposure

Imaging Area: Diagonal 6.46 mm (Type 1 / 2.8)

Minimum Illumination: 0.01 Lux @ F1.2

Frame Rate: Up to 15 FPS **Lens:** f1.6, fixed focus

NIR Illumination (Up to the Inbound Distance)

Dual 850nm LEDs

Day/Night: Controllable IR cut filter

Video Output: H.264, MJPEG

✓ Video Analytics

Video Analytic Rules

Motion Tracking, From/To Zones, Target Size Filtering, Wrong-Way Direction, Loitering, Object Left Behind, Speed, Time of Day, Mask Zones

Communications

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

SightTracker (optional)

Automatically positions 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 or Web browser (using default IP address)

✓ Electrical

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

Total max power (with all functionality):

34W (1.5 amps) @ 24VAC/DC

- **Basic camera operation:** 8W

- **NIR Illumination:** 6W (requires 24V)

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

I/O Connectors

RJ45 (Ethernet), terminal blocks for RS422/RS232, power, audio out, relay out

Audio Out: Balanced line output for external speaker to broadcast default message on alarm

✓ Camera Enclosure

Weight: 2.1 kg (4.6 lbs.)

Enclosure: IP66

Dimensions

30.7 cm L x 14.7 cm W x 14.0 cm H

Mounting

3 x 1/4-20 UNC bolts

✓ Environmental

Operating Temperature

-30° to +50°C (-22° to +122°F)

Relative Humidity

0 to 100%

Storage Temperature

-40° to +80°C (-40° to 176°F)

Safety Compliance

FCC Part 15, Class A, CE

