SightSensor HD
Thermal-Visible Smart Camera

sightlogix
making outdoor video…*smarter*

Dual-Video Detection Camera for Outdoor Security

The SightSensor HD is a dual-video smart camera that detects intruders with high accuracy and low nuisance alerts at commercial outdoor sites. SightSensor HD combines a thermal sensor, a high-definition color imager, onboard video storage, automatic stabilization, built-in LED illumination and integrated video analytics into a complete 24-hour security solution.

FEATURES	BENEFITS
● Detects, rejects and validates thermal & visible activity in real-time	● Higher detection perfomance and lower false alarms
● Thermal and visible sensors in one device	● Reliable daytime and nighttime security
● Tight integration with VMS & alarm automation software	● Works seamlessly with existing systems

THERMAL

Detection red box also displayed on color video

HD COLOR

White border indicates thermal detection zone

ACCESSORIES

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

SightMonitor II
Target display and site management software. Refer to the *SightLogix SightMonitor II Datasheet*

SightTracker
Smart PTZ controller. Refer to the *SightLogix SightTracker Datasheet.*

ORDERING INFORMATION

Part Number	Inbound Detection	Detection FOV	Visible FOV
HD260-220*	75ft (25m)	60°	71.5°
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
*NIR Illumination not included with HD260

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 Range: (Dual 850nm LEDs)**
45M for HD260, 236, 355; 70M for HD220, 332, 324
**NIR Illumination not included with HD260
Day/Night: Controllable IR cut filter
Video Output: H.264, MJPEG

✅ Video Analytics

Video Analytic Rules
Dual-Sensor Analytics (DSA), 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 web browser.

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

SightTracker (optional)
Automatically positions supported PTZs onto target

✅ 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 or SightMonitor application

✅ Electrical

Power Requirements

- **Thermal and visible imager use only:**
  8W, 24VAC +/- 10% or PoE IEEE 802.3af

- **NIR Illumination (if enabled):** 6W (24VAC required)

- **Window Heater (if enabled):** 20W (24VAC required)

Total power (with all functionality): 34W 24VAC (1.5 amps)

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

✅ 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
-30° to +55°C (-22° to +131°F)

Relative Humidity
0 to 100%

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

Safety Compliance
FCC Part 15, Class A, CE

SIDE — 3/4 NPT — 1/4-20 UNC - 1B — 1.00" 2.54 cm — 2.00" 5.1 cm — 12.1" 30.7 cm

FRONT — 5.8" 14.7 cm — 5.5" 14 cm

FRONT (HD260) — 5.8" 14.7 cm — 5.5" 14 cm

REAR