SightSensor GTC (International)
Smart Thermal & Visible Detection Camera

sightlogix
making outdoor video…*smarter*

Outstanding Thermal and HD Color Detection

The SightSensor GTC is a dual-imager smart camera that that detects, analyzes and communicates real-time intruder activity over site perimeters and buffer zones. The GTC works at the edge and includes powerful video processing, a thermal sensor, a high-definition color sensor, geo-spatial video analytics, automatic stabilization, exceptional thermal clarity, and a toolbox of filters to optimize outdoor intruder detection performance.

FEATURES

- Thermal and visible color sensors in one device
- Geospatial Video Analytics
- Outstanding thermal image quality

BENEFITS

- Detects & validates thermal & visible alarms in real-time
- Higher detection accuracy and lower false alarms
- Nighttime thermal surveillance without lighting

THERMAL DETECTION

Detection zones optionally displayed for easier setup

HD COLOR DETAIL

Thin white lines indicate thermal detection zone

AVAILABLE ACCESSORIES

Mounts

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

SightMonitor II

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

SightTracker

Automatic PTZ controller. Refer to the *SightLogix SightTracker* datasheet.*.

ORDERING INFORMATION (640 x 480)

Part Number	Inbound Detection	Thermal FOV	Thermal Focal Length	Visible FOV
GTC90-620	70M (230 ft)	90°	7.5mm	110°
GTC45-620	155M (509 ft)	45°	13mm	78°
GTC32-620	220M (722 ft)	32°	19mm	65.5°

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

FOCUS SECURITY

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Specifications

✅ Thermal Imager

Detector: Un-cooled VOx Microbolometer, 17 micron

Resolution: 640×480 (fixed lens)

Dynamic Range: 14 bit digital sensor interface

Sensitivity (NETD): 40mk/f1.0/25°C

Frame Rate: Up to 25 FPS; user configurable

Video Output: H.264, MPEG-4 (Simple Protocol),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 - f2.0, fixed focus

Day/Night: Controllable IR cut filter

Video Output: H.264, 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

Onboard Storage - Built-in microSD slot (card not supplied; high-endurance cards strongly recommended). Stored clips accessed via WebConfig.

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 application or browser-based WebConfig

✅ Electrical

Power Requirements
 - **Thermal and visible imager use only:**
   11W, 24VAC +/- 10%
 - **Window Heater (if enabled):** 20W (24VAC required)

Total power (with all functionality): 31W 24VAC (1.5 amps)

I/O Connectors
RJ45 (Ethernet), terminal blocks for RS422/RS232, power, 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
-40° to +55°C (-40° 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

Enclosure dimension diagrams:
3/4 NPT
1.00" / 2.54 cm
2.00" / 5.1 cm
1/4-20 UNC - 1B
12.1" / 30.7 cm — SIDE
5.8" / 14.7 cm
5.5" / 14 cm
FRONT
REAR