

SightSensor GTC (International)

Thermal -Visible AI Detection Camera



Outstanding Thermal and 4K Color Detection

The SightSensor GTC is a specialized dual-sensor smart camera for long-range perimeter and buffer zone protection. It combines a thermal imager and 8MP color imager, processing both video streams at the edge with AI-driven geospatial analytics to detect real threats while filtering wildlife, weather, and other nuisance activity—reducing false alarms by up to 95%. With advanced stabilization, crisp thermal clarity, thermal/visible AI, and detection ranges to 220m, the SightSensor TC delivers reliable outdoor security in any lighting or weather.



FEATURES

- ✓ Edge AI Processing
- ✓ Geospatial video analytics
- ✓ Thermal and visible color sensors in one device

BENEFITS

- ✓ Reliable, instant threat detection at distance
- ✓ Cuts false alarms to 95% for fast, focused response
- ✓ Detects & validates thermal & visible alarms in real-time

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 PTZ

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

ORDERING INFORMATION (640 x 480)

Part Number	Inbound Detection	Thermal FOV	Thermal Focal Length	Visible FOV
GTC690-330	75m / 246 ft	90°	7.5mm	110°
GTC670-330	100m / 328 ft	70°	9mm	78°
GTC650-330	145M / 475 ft	50°	13mm	65.5°
GTC632-330	220M / 722 ft	32°	19mm	40°

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

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Specifications

Thermal Imager

Detector: Un-cooled VOx Microbolometer, 17 micron

Resolution: 640x480 (fixed lens)

Dynamic Range: 14 bit digital sensor interface

Sensitivity (NETD): 40mk/f1.0/25°C

Frame Rate: Up to 30 FPS; user configurable

Video Output: H.264, MPEG-4, 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, Privacy Zones

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 recommended). Stored clips accessed via WebConfig.

Communications

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

Electrical Power Specifications

Power: 24VAC or PoE+ IEEE 802.3at

Basic ops: 10W

Window Heater: 1- 20W (adjustable)

Max Total: 30W

I/O Connectors

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

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

Color Imager

Imager: 8.4 MP (1/1.8-inch, Progressive Scan CMOS, STARVIS 2)

Aspect Ratio: 16:9 (UHD 4K, 3840 x 2160)

Dynamic Range: HDR with Digital Overlap HDR & Clear HDR (effective >120 dB)

Imaging Area: Diagonal 8.86 mm (Type 1/1.8)

Minimum Illumination: ~0.005 Lux @ F1.6

Frame Rate: Up to 72 FPS (10-bit) **Lens:** f1.6 - f2.0, fixed focus

Day/Night: Controllable IR cut filter

Video Output: H.264, MJPEG

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

Camera Enclosure

Weight: 2.1 kg (4.6 lbs.)

Dimensions

30.7 cm L x 14.7 cm W x 14.0 cm H

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)

Safety Compliance

FCC Part 15, Class A, CE

Operating Relative Humidity

0 to 100%

Storage Temperature

-40° to +80°C (-40° to 176°F)

Storage Relative Humidity

0-95%, non-condensing

