

# SightSensor TC

Long-Range Thermal & Visible Smart Camera

**sightlogix**  
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## Outstanding Thermal and HD Color Detection

SightSensor TC is a dual-imager smart camera that detects intruders with high accuracy and low nuisance alerts at perimeters and critical outdoor sites. Building on SightLogix's heritage for outstanding detection and high-clarity thermal video, SightSensor TC combines a thermal sensor, color sensor, geo-aware video analytics, thermal AI nuisance alarm filtering, onboard video storage, automatic stabilization, and a toolbox of filters to optimize 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

### ORDERING INFORMATION (384x288)

Part Number	Thermal Array	Thermal FOV	Thermal Lens	Visible FOV	Inbound Detection
TC480-220	348x288	80°	4.9mm	91°	164 ft (50m)
TC440-220	348x288	40°	9.1mm	51°	360 ft (110m)
TC428-220	348x288	28°	13mm	40°	525 ft (160m)

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

### ORDERING INFORMATION (640 x 480)

Part Number	Thermal Array	Thermal FOV	Thermal Lens	Visible FOV	Inbound Detection
TC75-622	640x480	90°	7.5mm	110°	246 ft (75m)
TC100-622	640x480	70°	9mm	78°	328 ft (100m)
TC145-622	640x480	50°	13mm	65.5°	467 ft (145m)
TC195-622	640x480	37.5°	16.7mm	51.3°	640 ft (195m)
TC220-622	640x480	32°	19mm	40°	722 ft (220m)

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  $\mu\text{m}$

### Resolution

TC4: 348x288 or TC6: 640x480

### Dynamic Range

14 bit digital sensor interface

### Aspect Ratio: 4:3

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

### Frame Rate (FPS):

384x288: Up to 30; 640x480: Up to 25 fps

**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, 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 strongly recommended). Stored clips accessed via WebConfig.

### Communications

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

## ✓ Electrical

### Power Requirements (24VAC only)

TC4 384x288: 31W (1.5 amps)

TC6 640x480: 35W (1.5 amps)

### I/O Connectors

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

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

## ✓ 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

## ✓ 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

**Enclosure:** IP66

### Mounting

3 x 1/4-20 UNC bolts

### Powder Coat Rating

1000 sea-spray hours

## ✓ Environmental

### Operating Temperature

384: -40° to +55°C (-40° to +131°F)

640: -40° to +60°C (-40° to +140°F)

### Safety Compliance

FCC Part 15, Class A, CE

### Operating Relative Humidity

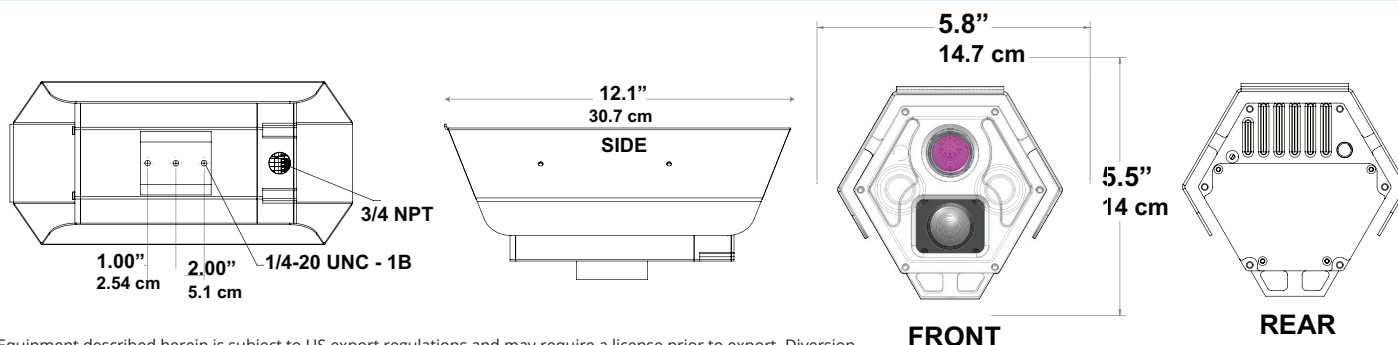
0 to 100%

### Storage Temperature

-40° to +80°C (-40° to 176°F)

### Storage Relative Humidity

0-95%, non-condensing



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