

SightSensor TC

Long-Range Thermal & Visible Smart Camera

sightlogix
making outdoor video...smarter

Outstanding Thermal and HD Color Detection

SightSensor TC is a dual-imager smart camera that detects intruders with high accuracy and low false alarms at critical perimeters and outdoor sites. Built on SightLogix's heritage of outstanding thermal detection and high-clarity thermal video, SightSensor TC combines a thermal sensor, color sensor, geo-aware analytics, thermal AI false alarm filtering (*Dual-Sensor AI on TC4 series), video storage, stabilization, and a toolbox to optimize outdoor performance.



FEATURES

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

BENEFITS

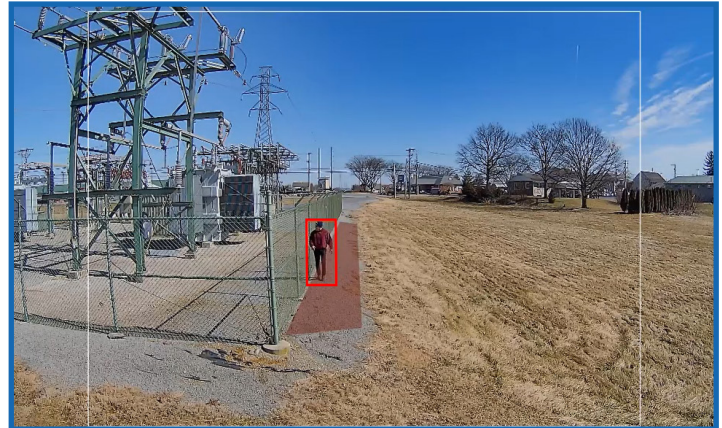
- ✓ Detects & validates thermal & visible alarms in real-time
- ✓ High detection accuracy and very low false alarms
- ✓ Nighttime thermal surveillance without lighting

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 μ m

Imager (Pixels)

TC4: 348x288

TC6: 640x480

Imager (Resolution)

TC4: 348x288, Smart Upscaling to 768x576

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

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, Shock Detection, Privacy Zones

AI Alarm Filter

Thermal AI: Day and night

Thermal/Visible AI (TC4): Daytime (day/night if light is available)

Options: "Off", "Everything Except Person and Vehicle," "Everything Except Person," "Everything Except Vehicle".

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

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

✓ Electrical Power Specifications

PoE IEEE 802.3af

TC4: Basic ops: 11W

TC6: Basic ops: 15W

(Window Heater not supported on POE)

24VAC +/- 10%

TC4: Basic ops: 11W | Window Heater: 1- 20W (adjustable)

TC6: Basic ops: 15W | Window Heater: 1- 20W (adjustable)

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

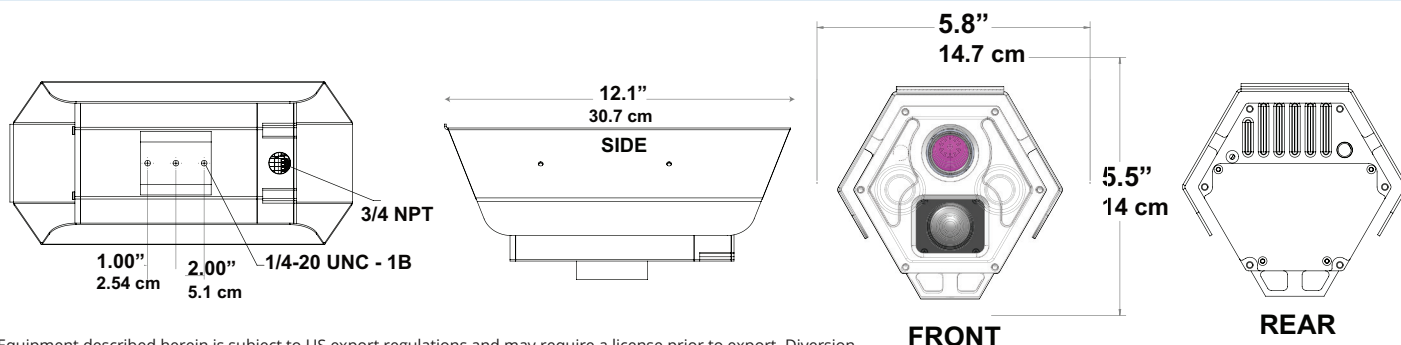
0 to 100%

Storage Temperature

-40° to +80°C (-40° to 176°F)

Storage Relative Humidity

0-95%, non-condensing



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