SightSensor TC
Long-Range Thermal & Visible Smart Camera

sightlogix
making outdoor video…*smarter*

Outstanding Thermal Detection & HD Color Assessment

The SightSensor TC is a dual-imager smart camera that detects, analyzes and communicates real-time intruder activity over critical perimeters at outdoor sites. Building on SightLogix's heritage for high-clarity thermal video and outstanding detection, SightSensor TC offers the added value of color video on target. Like all SightSensors, TC includes integrated video analytics, scene and gyro-based stabilization and a toolbox of filters to optimize outdoor performance.

FEATURES

- Thermal detection with geospatial video analytics
- High Definition WDR color video
- Outstanding thermal image quality

BENEFITS

- Reliable detection - day and night
- Real-time color alarm assessment
- 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 (320x240)

Part Number	Thermal Resolution	Inbound Detection	Detection FOV	Visible FOV
TC35-322	320x240	113 ft (35m)	90°	110°
TC62-322	320x240	203 ft (62m)	60°	82°
TC95-322	320x240	312 ft (95m)	42°	51.3°
TC160-322	320x240	525 ft (160m)	24°	39.6°
Detection distance will be further if person is moving across the FOV				

ORDERING INFORMATION (640 x 480)

Part Number	Thermal Resolution	Inbound Detection	Detection FOV	Visible FOV
TC75-622	640x480	246 ft (75m)	90°	110°
TC100-622	640x480	328 ft (100m)	70°	78°
TC145-622	640x480	467 ft (145m)	50°	65.5°
TC195-622	640x480	640 ft (195m)	37.5°	51.3°
Detection distance will be further if person is moving across the FOV				

745 Alexander Road | Princeton, NJ 08540
p +1 609.951.0008 | f 609.951.0024
www.sightlogix.com

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Specifications

✅ Thermal Imager

Thermal Detector
Un-cooled VOx Microbolometer 8-14 μm

Resolution
320x240 or 640x480

Dynamic Range
14 bit digital sensor interface

Aspect Ratio: 4:3

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

Frame Rate: 320: Up to 30 FPS; 640: 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 - 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
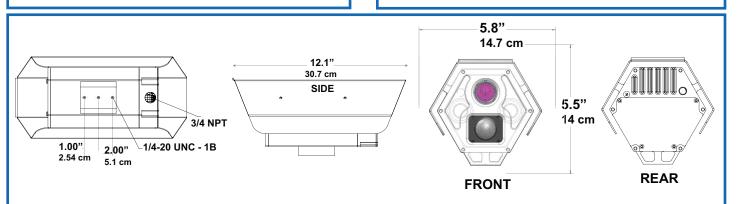30.7 cm L x 14.7 cm W x 14.0 cm

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

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