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

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

**ORDERING INFORMATION (320x240)**

<table>
<thead>
<tr>
<th>Part Number</th>
<th>Thermal Resolution</th>
<th>Inbound Detection</th>
<th>Detection FOV</th>
<th>Visible FOV</th>
</tr>
</thead>
<tbody>
<tr>
<td>TC35-322</td>
<td>320x240</td>
<td>113 ft (35m)</td>
<td>90°</td>
<td>110°</td>
</tr>
<tr>
<td>TC62-322</td>
<td>320x240</td>
<td>203 ft (62m)</td>
<td>60°</td>
<td>82°</td>
</tr>
<tr>
<td>TC95-322</td>
<td>320x240</td>
<td>312 ft (95m)</td>
<td>42°</td>
<td>51.3°</td>
</tr>
<tr>
<td>TC160-322</td>
<td>320x240</td>
<td>525 ft (160m)</td>
<td>24°</td>
<td>39.6°</td>
</tr>
</tbody>
</table>

**HD COLOR DETAIL**

Thin white lines indicate thermal detection zone

**ORDERING INFORMATION (640 x 480)**

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<tr>
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<th>Inbound Detection</th>
<th>Detection FOV</th>
<th>Visible FOV</th>
</tr>
</thead>
<tbody>
<tr>
<td>TC75-622</td>
<td>640x480</td>
<td>246 ft (75m)</td>
<td>90°</td>
<td>110°</td>
</tr>
<tr>
<td>TC100-622</td>
<td>640x480</td>
<td>328 ft (100m)</td>
<td>70°</td>
<td>78°</td>
</tr>
<tr>
<td>TC145-622</td>
<td>640x480</td>
<td>467 ft (145m)</td>
<td>50°</td>
<td>65.5°</td>
</tr>
<tr>
<td>TC195-622</td>
<td>640x480</td>
<td>640 ft (195m)</td>
<td>37.5°</td>
<td>51.3°</td>
</tr>
</tbody>
</table>

Detection distance will be further if person is moving across the FOV
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**
  - Motion Tracking, From/To Zones, Target Size Filtering, Wrong-Way Direction, Loitering, Object Left Behind, Speed, Time of Day, Mask Zones
- **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

**Electrical**

- **Voltage:** 24 VAC/DC +/- 10% or PoE IEEE 802.3af
- **Total max power (with all functionality):**
  - 31W (1.5 amps) @ 24VAC/DC
    - Basic camera operation: 11W
    - Window Heater (severe conditions): 20W (requires 24V)
- **I/O Connectors**
  - RJ45 (Ethernet), terminal blocks for RS422/RS232, power, relay out

**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 or Web browser (using default IP address)

**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 +60°C (-40° to +140°F)
- **Relative Humidity**
  - 0 to 100%
- **Storage Temperature**
  - -40° to +80°C (-40° to 176°F)
- **Safety Compliance**
  - FCC Part 15, Class A, CE

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Equipment described herein is subject to US export regulations and may require a license prior to export. Diversion contrary to US law is prohibited.