**DUAL-VISION CAMERA FOR INTERSECTION CONTROL AND SAFETY**

**FLIR TRAFISENSE DUAL**

FLIR TrafiSense Dual combines best-in-class thermal and visual imaging technology with advanced video analytics to provide reliable vehicle and bicycle presence detection at signalized intersections, day and night. Thermal imaging lets traffic operators see in total darkness and inclement weather. The daylight camera provides additional visual verification of incidents, such as wrong-way drivers or animals crossing the roadway. In addition, FLIR’s analytics capture accurate traffic data, making FLIR TrafiSense Dual ideal for traffic monitoring and real-time signal control in urban environments.

www.flir.com/Traffic

---

24/7 thermal performance

FLIR TrafiSense Dual offers 24/7 performance, regardless of weather conditions.

- Detects traffic day or night
- Won’t get confused by sun glare, headlights, shadows, wet streets, snow or light fog
- Different lens options available for specific field of view needs

Reliable Intersection Control and Safety

FLIR TrafiSense Dual provides critical vehicle and bicycle presence detection and data.

- Detects vehicles and bicycles at the stop bar using up to 24 presence zones
- Provides vehicle and bicycle counting, traffic data collection and traffic flow monitoring
- Detects wrong-way drivers and animals entering the roadway

Visible-light camera for verification

The FLIR TrafiSense Dual’s full HD visible-light camera provides high-quality images for control room operators.

- Full HD (1920 x 1080) daylight/low light camera
- Provides visual verification and traffic monitoring
- Equipped with an optical zoom and e-zoom
## TECHNICAL SPECIFICATIONS

<table>
<thead>
<tr>
<th>Model</th>
<th>Part #</th>
<th>Field of View</th>
</tr>
</thead>
<tbody>
<tr>
<td></td>
<td></td>
<td>Thermal</td>
</tr>
<tr>
<td>TrafSense Dual 690</td>
<td>10-7570</td>
<td>90°H / 69°V</td>
</tr>
<tr>
<td>TrafSense Dual 669</td>
<td>10-7572</td>
<td>69°H / 56°V</td>
</tr>
<tr>
<td>TrafSense Dual 645</td>
<td>10-7574</td>
<td>45°H / 37°V</td>
</tr>
<tr>
<td>TrafSense Dual 632</td>
<td>10-7576</td>
<td>32°H / 26°V</td>
</tr>
<tr>
<td>TrafSense Dual 625</td>
<td>10-7578</td>
<td>25°H / 20°V</td>
</tr>
</tbody>
</table>

### Thermal part

- **Detector type**: Focal Plane Array (FPA), uncooled Vanadium Oxide Microbolometer
- **Spectral range**: Long wave infrared, 7.5-13.5μm
- **Resolution**: 640 x 480 (VGA)
- **Frame Rate**: 30Hz
- **Compression**: MJPEG, MPEG-4, H.264
- **Traffic Detection functionalities (number of detection zones)**: Vehicle presence detection & counting (24), Bicycle presence detection & counting (8), Traffic data collection & traffic flow monitoring (6), Wrong way driver detection (6, requires extra license)

### Visual part

- **Resolution**: 1920 x 1080 (Full-HD) or 1280 x 720 (HD)
- **Frame rate**: 25Hz (configurable from 1FPS to 25FPS)
- **Compression**: MJPEG, MPEG-4, H.264
- **Optical zoom**: 3x or 10x (Horizontal field of view 30-93° or 5°-54°)

### Housing

- **Material**: Aluminum, powder coated, black
- **Dimensions (LxWxH)**: About 8.65in x 6.89in x 3.15in or 22cm x 17.5cm x 8cm
- **Mass**: About 5lbs or 2.25kg (excluding mounting bracket)
- **Sunshield**: Integrated & adjustable
- **Mounting Bracket**: Optional, housing is Pelco Astro bracket ready

### Communications

- **Broadband over Power Line (BPL)**: 3 wires between sensor and interface. Note: TI BPL2 EDGE interface required
- **Power over Ethernet (PoE)**: 4 wires between sensor and interface. Note: FLIR ITS PoE to Power+ETH converter required
- **Wi-Fi**: For system configuration. Note: Wi-Fi can be disabled

### Power

- **Supply**: 12-42VAC, 12-48VDC (when connected as PoE, use 48VDC)
- **Consumption**: 14W nominal at 24VDC (up to 25W with heater on)

### Environmental

- **Shock & Vibration**: NEMA TS2 specs
- **Materials**: All weatherproof (UV-resistant)
- **Protection Grades**: Housing = IP66, Connectors = IP67
- **Temperature Range**: -20°F to +165°F or -29°C to +74°C (ambient temperature)
- **FCC**: FCC part 15 Class A

### Regulatory

- **EU Directives**: Electromagnetic Compatibility – 2014/30/EU
- **Low Voltage – 2014/35/EU
- **Restriction of Hazardous Substances – 2011/65/EU

Specifications are subject to change without notice. For the most up-to-date specs, go to www.flir.com

---

**CORPORATE HEADQUARTERS**
FLIR Systems, Inc.
27700 SW Parkway Ave.
Wilsonville, OR 97070
PH: +1 877.773.3547

**FLIR ITS**
Hospitalaak 1B
B-8510 Marke
Belgium
PH: +32 (0)56 37 22 00

www.flir.com
NASDAQ: FLIR

Equipment described herein may require US Government authorization for export purposes. Diversion contrary to US law is prohibited. Imagery for illustration purposes only. Specifications are subject to change without notice. ©2018 FLIR Systems, Inc. All rights reserved. (05/18)

18-1070-ITS