TrafiData is an intelligent thermal sensor capable of counting and classifying vehicles, bicyclists and pedestrians, in addition to travel-time, for comprehensive congestion analysis. Integrated Wi-Fi technology allows simultaneous thermal-based data collection, while calculating travel-times and origin-destination by securely and anonymously tracking MAC addresses as people move throughout the traffic network. Since the TrafiData relies on thermal energy rather than light, it offers 24/7 traffic monitoring and can detect road users at night, through glare, and in harsh weather conditions.

www.flir.com/Traffic
## System Overview

<table>
<thead>
<tr>
<th>Traffic data collection:</th>
<th>volume, classification, speed, occupancy, headway and gap time integrated data per lane and vehicle class</th>
</tr>
</thead>
<tbody>
<tr>
<td>Traffic flow monitoring:</td>
<td>flow speed, zone occupancy and Levels of Service (LOS)</td>
</tr>
<tr>
<td>Congestion monitoring:</td>
<td>travel &amp; delay time</td>
</tr>
<tr>
<td>Acylica cloud:</td>
<td>real-time &amp; historical data, reports, images, APIs</td>
</tr>
</tbody>
</table>

### Configuration
- Web page setup via secure Wi-Fi, Ethernet or BPL

### Camera
- **Type**: Focal Plane Array (FPA), uncooled VGA microbolometer  
  - Long wave Infrared (7 – 14 µm)
- **Resolution**: VGA (640 x 480)
- **Frame Rate**: 30 fps
- **Compression**: H.264, MPEG-4, MJPEG
- **Streaming Video**: RTSP

### Product Types

<table>
<thead>
<tr>
<th>Part Number</th>
<th>Resolution</th>
<th>Field of view</th>
</tr>
</thead>
</table>
| TrafiData 690 | 10-7471 | VGA  
  - Horizontal: 90°  
  - Vertical: 69° |
| TrafiData 645 | 10-7475 | VGA  
  - Horizontal: 45°  
  - Vertical: 35° |

### Housing
- **Material**: Aluminum housing with integrated polycarbonate sunshield
- **Dimensions (incl. mounting bracket)**:
  - Vertically mounted: 45 cm x 16 cm x 12 cm
  - Horizontally mounted: 41 cm x 18 cm x 12 cm

### Power, outputs, communication
- **Input power**: 24-42 VAC / 24-48 VDC
- **Power consumption**:
  - Avg 10.5 W
  - Peak 15 W
- **Output contacts**: 1 N/O and 1 N/C dry contacts direct
- **PoE**: PoE mode A for configuration, video streaming and data communication
- **BPL**: 50 Mbps Broadband over Powerline communication via TI BPL2 interface
- **Wi-Fi**: IEEE 802.11 b/g/n for configuration and Wi-Fi travel time monitoring via TI BPL2 interface

### Environmental
- **Shock & Vibration**: NEMA TS2 specs
- **Materials**: All weatherproof UV resistant
- **IP Rating**: IP67
- **Temperature Range**: -34°C to +74°C

### Regulatory
- **FCC / EU Directives**:

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