Designed to reliably detect and classify road users, the TrafiCam AI is an intelligent HD visible sensor for traffic monitoring in complex urban environments. Featuring a low-light HD visible camera and AI algorithms built on 25+ years of traffic detection, TrafiCam AI offers detailed vision and data collection for safer, more efficient cities. Capable of tracking multiple objects, the advanced edge-based AI effectively controls intersections and gathers detailed traffic data for better city planning decisions.

**DETECTION BASED ON AI**
- EFFECTIVE SIGNAL CONTROL
- HIGH RESOLUTION DATA
- TRAFFIC PREDICTION
- WI-FI BASED TRAVEL TIME MONITORING
- EASY-TO-INSTALL

**PRECISE DETECTION AND CONTROL**
Edge-based AI and Full HD imaging offer advanced intersection control that outperforms other signal control technologies
- Low light visual HD camera provides reliable vehicle detection at night and in challenging weather conditions
- Detect the position, speed and heading of vehicles in any direction
- Directly integrate with traffic controllers through accurate virtual loop configuration and dry contacts

**FUTUREPROOF TRAFFIC INSIGHT**
TrafiCam AI captures advanced and high-resolution traffic data for better-informed city planning decisions
- Automatically detect and classify road users and vehicle types into a wide range of subcategories
- Gather valuable data, including vehicle trajectories throughout intersections
- Provides real-time integration over APIs for adaptive and predictive traffic systems

**COMPREHENSIVE REPORTING**
Generate automated reports with Acyclica to identify bottlenecks
- Determine the turning movement count per vehicle class at intersections throughout the day
- Measure travel & delay time between intersections
- Streamlined data visualization creates easy-to-read, compelling reasoning for city planning adjustments

For more information, please visit:
www.flir.com/traficam-ai

www.teledyneflir.com
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**System Overview**

**Functionalities**
- Vehicle Presence Detection
- Traffic Data Collection (Integrated Data)
- Queue Length Monitoring
- Premium Traffic Data Collection (Individual Data) - optional license

**Services**
- FLIR VSD data - optional Acyclica license
- Modules (Reporting Module, Planning Module, Signal Timing Tools) - optional Acyclica licenses

**Detection Zones**
- 24 virtual loops for presence detection
- 8 traffic data zones for classification and counting

**Configuration**
- Local/remote web page setup via PoE or BPL

**Imaging & Optical**
- **Type**: CMOS Type 1/2.8 color High Dynamic Range
- **Resolution**: Full HD (1920 x 1080)
- **Frame Rate**: 25 fps
- **Compression**: H.264, MJPEG
- **Streaming Video**: RTSP

**Product Types**

<table>
<thead>
<tr>
<th>Part Number</th>
<th>Focal Distance</th>
<th>Detection Distance for Vehicle Presence</th>
</tr>
</thead>
<tbody>
<tr>
<td>10-7710</td>
<td>2.8 mm</td>
<td>0 - 75 m / 0 - 250ft</td>
</tr>
<tr>
<td>10-7715</td>
<td>8.0 mm</td>
<td>75 - 150 m / 250 - 500ft</td>
</tr>
</tbody>
</table>

**Mechanical**
- **Material**: Aluminum housing with integrated polycarbonate sunshield
- **Dimensions (incl. mounting bracket)**:
  - Vertically mounted: 45 cm x 16 cm x 12 cm / 9.8 in x 6.3 in x 4.7 in
  - Horizontally mounted: 41 cm x 18 cm x 12 cm / 16.2 in x 7.1 in x 4.7 in

**Electrical**
- **Input power**: 24-42 VAC / 24-48 VDC
- **Power consumption**: Avg 6 W / Peak 9 W

**Communication**
- **Output contacts**: 1 N/O and 1 N/C dry contact direct
  - 16 N/C dry contacts via TI BPL2 interface
  - 4 N/C dry contacts via TI BPL2 EDGE interface (more with additional 4 I/O USB expansion boards)
  - SDL to traffic light controller via TI BPL2 EDGE interface and PIM module

**PoE**
- PoE mode A for configuration, video streaming and data communication

**BPL**
- 80 Mbps Broadband over Powerline communication via TI BPL2 (EDGE) 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**: FCC part 15 class A, EMC 2014/30/EU, RoHS 2011/65/EU, LVD 2014/35/EU

For the latest specification, please visit [www.teledyneflir.com](http://www.teledyneflir.com)

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