TrafiCam Series - Vehicle presence sensor

The TrafiCam series of vehicle presence sensors combines a CMOS camera and video detector in one. The series includes two products:

- **TrafiCam**: vehicle presence sensor for standalone use
- **TrafiCam x-stream**: vehicle presence sensor and data collector with video streaming

Both the TrafiCam and TrafiCam x-stream sensors are used for detection and monitoring of moving and stationary vehicles at signalized intersections. Via detection outputs or via IP protocol, vehicle presence information is transmitted to the traffic controller so that signal timing can be adjusted dynamically. This way, vehicle waiting time at traffic lights is reduced and traffic flows are optimized. The smart TrafiCam sensors are a cost-effective and reliable alternative to inductive loops.

**Direct visual verification of presence zones**

The TrafiCam series allows you to exactly position and verify the vehicle presence detection zones. Since these zones are displayed on a video image, you can easily reposition them in case of changing traffic situations.

**Multiple & direction sensitive vehicle detection zones**

TrafiCam and TrafiCam x-stream detect vehicles, day and night, in up to 16 zones. This allows vehicle presence detection over different lanes. The TrafiCam series has detection zones indicating presence of vehicles moving in a specific direction.

**Easy installation and fast configuration**

TrafiCam is easy to install. You can simply mount it on the existing infrastructure.
TrafiCam x-stream

Compared to the standalone TrafiCam sensor, TrafiCam x-stream offers a number of additional functionalities.

Video streaming
TrafiCam x-stream offers streaming video at full frame rate which can be used for system and traffic monitoring in your control room. TrafiCam x-stream offers MPEG-4 or H.264 video compression. A user-friendly web interface allows TrafiCam x-stream users to manage their video sources online.

Traffic data collection
TrafiCam x-stream is also a cost-effective solution for traffic data collection (volume, speed, occupancy, gap time, headway and classification on multiple lanes), queue detection and traffic flow monitoring on highways and inter-urban roads. It can be used for temporary or permanent applications.

### TrafiCam Series

<table>
<thead>
<tr>
<th></th>
<th>TrafiCam</th>
<th>TrafiCam x-stream</th>
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<tbody>
<tr>
<td>Camera</td>
<td>CMOS black &amp; white</td>
<td>CMOS color</td>
</tr>
<tr>
<td>Data streaming</td>
<td>Single image</td>
<td>MPEG-4 or H.264</td>
</tr>
<tr>
<td>Direction sensitive detection zones</td>
<td>yes</td>
<td>yes</td>
</tr>
<tr>
<td>Vehicle detection zones</td>
<td>8</td>
<td>16</td>
</tr>
<tr>
<td>Data collection</td>
<td>no</td>
<td>up to 4 lanes</td>
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</tbody>
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TrafiCam x-stream is an above-ground sensor providing a wide range of traffic data on up to 4 lanes.

**Key functionalities:**
- Vehicle presence detection at intersections
- Data collection (TrafiCam x-stream only)

**Key benefits:**
- All-in-one sensor (camera + video detection)
- Non-intrusive, above-ground installation
- Real-time verification and monitoring
- Real-time traffic view