

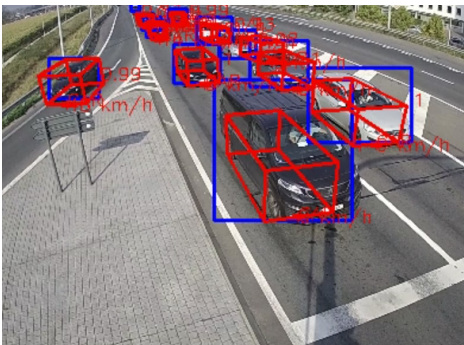


## AI-POWERED HD TRAFFIC SENSOR

# TRAFICAM AI

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.

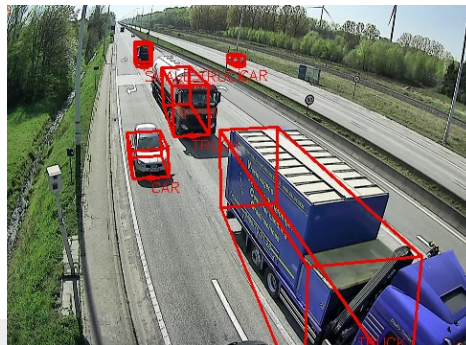
[www.flir.com/Traffic](http://www.flir.com/Traffic)



### 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

## TECHNICAL SPECIFICATIONS

### System Overview

Functionalities	Vehicle Presence Detection Traffic Data Collection (Integrated Data) Queue Length Monitoring Premium Traffic Data Collection (Individual Data) - optional license
Services	FLIR VSO data - optional Acyclica license Wi-Fi Travel Time analytics - 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 Wi-Fi, 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

	Part Number	Focal Distance	Detection Distance for Vehicle Presence
TrafiCam AI - Wide	10-7710	2.8 mm	0 - 75 m / 0 - 250ft
TrafiCam AI - Narrow	10-7715	8.0 mm	75 - 150 m / 250 - 500ft

### 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) SDLC 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
Wi-Fi	IEEE 802.11 type b,g,n EIRP < 100mW

### Environmental

Shock & Vibration	NEMA TS2 specs
Materials	All weatherproof UV resistant
IP Rating	IP 67
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
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Specifications are subject to change without notice. For the most up-to-date specs, go to [www.flir.com](http://www.flir.com)

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