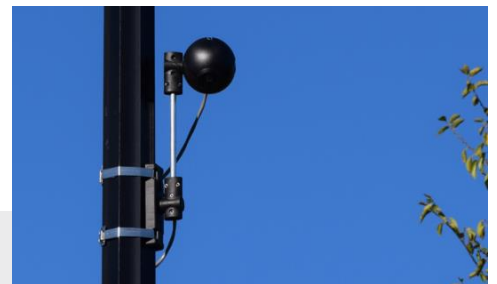# FLIR

VEHICLE PRESENCE SENSOR

TrafiCam x-stream2

The FLIR TrafiCam x-stream2 combines a digital camera and video detector into a single vehicle presence sensor. Detecting moving and stationary vehicles at signalized intersections, TrafiCam x-stream2 transmits vehicle presence information to a traffic controller via detection outputs or TCP/IP communication for adaptive and responsive signal timing. Each cost-effective TrafiCam x-stream2 sensor helps reduce vehicle idling time and optimize traffic flow.

www.flir.com/traffic

Vehicle Detection

Dynamic control of traffic signals by detecting vehicles 24/7, over multiple lanes and any direction

- Adapt signal times according to actual demand and optimize traffic flow
- Traffic data collection, queue detection and traffic flow monitoring

Traffic Monitoring

Real-time verification and monitoring with video streaming capabilities

- Local & remote configuration
- Position vehicle presence and traffic data zones
- Live viewing

Easy-to-Install

Mounting onto existing infrastructure and quick integration with various system architectures.

- Non-intrusive, above ground installation
- Broadband over powerline communication technology
- Detection contact outputs and TCP/IP data communication (public API available)

TECHNICAL SPECIFICATIONS

System Overview

Functionalities	Vehicle Presence Detection Traffic Data Collection
Detection zones	24 vehicle presence detection zones 8 traffic data zones (also for traffic flow monitoring)
Configuration	Web page setup

Camera

Type	CMOS 1/4" color
Resolution	VGA (640 x 480)
Frame Rate	25 fps
Compression	H.264, MPEG-4, MJPEG
Streaming Video	RTSP

Product Types

	Part Number	Focal Distance	Detection Distance for Vehicle Presence
TrafiCam x-stream2 Wide	10-7150	2.1mm	0-25 m / 0-85ft
TrafiCam x-stream2 Narrow	10-7151	6.0mm	15-75 m / 50-250ft

Housing

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 Detection distance for vehicle presence Horizontally mounted: 41 cm x 18 cm x 12 cm / 16.2 in x 7.1 in x 4.7 in

Power, outputs, communications

Input power	24-42 VAC / 24-48 VDC
Power consumption	Avg 6 W / Peak 9 W
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	50 Mbps Broadband over Power line communication via TI BPL2 (EDGE) interface

Environmental

Shock & Vibration	NEMA TS2 specs
Materials	All weatherproof UV resistant
IP Rating	IP 67
Temperature Range	-34°C to + 74°C / -29F to +165F

Regulatory

FCC / EU Directives	FCC part 15 class A, EMC 2014/30/EU RoHS 2011/65/EU, LVD 2014/35/EU

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

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