

FLIR *TrafiCam Series*

Vehicle presence sensor



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

- TrafiCam: vehicle presence sensor
- TrafiCam x-stream: vehicle presence sensor and data collector with video streaming (MJPEG, MPEG-4 or H.264)
- TrafiCam HD: Full HD vehicle presence sensor and data collector with video streaming (MJPEG, MPEG-4 or H.264)

The TrafiCam, TrafiCam x-stream and TrafiCam HD 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

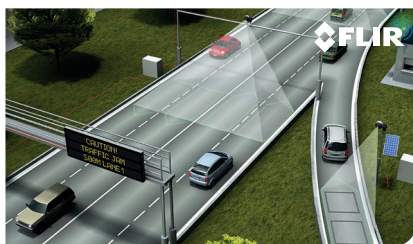
The TrafiCam series allows you to exactly position and verify the vehicle presence detection zones. Since these zones are displayed on a video image, you can easily reposition them in case of changing traffic situations.



Presence zones can be implemented and changed on a video image.

MULTIPLE & DIRECTION SENSITIVE VEHICLE DETECTION ZONES

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



TrafiCam x-stream is an above-ground sensor providing a wide range of traffic data on up to 4 lanes.

EASY INSTALLATION AND FAST CONFIGURATION

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

KEY FUNCTIONALITIES:

- Vehicle presence detection at intersections
- Data collection, queue detection and traffic flow monitoring (TrafiCam x-stream and TrafiCam HD only)

KEY BENEFITS:

- ALL-IN-ONE SENSOR (CAMERA + VIDEO DETECTION)
- NON-INTRUSIVE, ABOVE-GROUND INSTALLATION
- REAL-TIME VERIFICATION AND MONITORING
- REAL-TIME TRAFFIC VIEW

Imaging Specifications

System Overview	Traficam		Traficam x-stream		Traficam HD	
Detection Functionalities	Vehicle presence		Vehicle presence + data		Vehicle presence + data	
# Detection Zones	8		24 presence zones 4 data zones		24 vehicle presence zones 8 data zones	
# Detection Outputs	4 via interface 1TI 8 via interface 4TI ETH 8 via 4TI ETH EDGE & 4/Os xp (*)		3 for ETH versions, direct or via optional ETH interface 16 for BPL versions, via TI x-stream BPL		16 via TI BPL2 interface	
CAMERA						
Resolution	640x480 pixels (VGA)		640x480 pixels (VGA)		1920x1080 (FHD)	
Frame rate	20 FPS		25 FPS		15 FPS	
Lens Types	Wide Angle	Narrow Angle	Wide Angle	Narrow Angle	"Zoomed In	"Zoomed Out
Focal Distance	2.1mm	6.0mm	2.1mm	6.0mm	15-75m *	0-25m*
Detection Distance	0-25m	15-75m	0-25m	15-75m		
Mounting Height	3,5-12m		3,5-12m		3,5-12m	
CMOS type	1/4" black & white		1/4" color		1/3" color	
Compression	JPEG		MJPEG, MPEG-4, H.264 (dual stream)		MJPEG, MPEG-4, H.264 (dual stream)	
Housing						
Material	Aluminum		Aluminum		Aluminum	
Dimensions	Vertically mounted 45 cm x 16 cm x 12 cm, Horizontally mounted 41 cm x 18 cm x 12 cm		Vertically mounted 45 cm x 16 cm x 12 cm, Horizontally mounted 41 cm x 18 cm x 12 cm		Vertically-mounted 45 cm x 16 cm x 12 cm Horizontally-mounted 41 cm x 18 cm x 12 cm	
Sunshield	Optional		Optional		Optional	
Power, outputs, communication						
Operating voltage	12-26VAC/DC		12-32VAC, 12-42VDC		12-42VAC/DC	
IP Address	No		Yes		Yes	
Communication PC - Sensor	Via interface		Via interface or direct (ETH)		Via interface or PoE	
Interface(s)	1TI, 4TI ETH , 4TI ETH EDGE (*)		TI x-stream for BPL sensors, optional ETH interface for ETH sensors		TI BPL2 or PoE injector / switch	
Outputs (Pmax=300m>, Imax=50mA, Umax=48VDC)	4 for 1TI 8 for 4TI ETH 4 for 4TI ETH EDGE (**)		16 for BPL (PN 10-6085) 3 for ETH (PN 10-6075)		16 for BPL2 2 direct for PoE	
PC Tool for Setup	Traficam PC Tool		Traficon Configuration Tool (TCT)		Traficon Configuration Tool (TCT) Web Page Setup	
Regulatory, environmental						
EMC	Electromagnetic Compatibility 2014/30/EU		Electromagnetic Compatibility 2014/30/EU		Electromagnetic Compatibility 2014/30/ EU	
FCC	FCC Part 15 Class A		FCC Part 15 Class A		FCC Part 15 Class B	
Temperature Range	-34°C to +80°C		-34°C to +80°C		-40°C to +60°C	
Materials	Weatherproof (UV-resistant)		Weatherproof (UV-resistant)		Weatherproof (UV-resistant)	
Protection grade	IP67		Housing = IP68, connectors = IP67		Housing = IP68, connectors = IP67	

(*) US only
(**) 4 extra outputs via 4/Os xp expansion board

Part numbers

Traficam	Lens type	Focal distance	Detection distance
10-6090A	Wide	2.1 mm	0 - 25 m
10-6091A	Narrow	6.0 mm	15 - 75 m
Traficam x-stream	Lens type	Focal distance	Detection distance
10-7000	Wide BPL	2.1 mm	0 - 25 m
10-7008	Wide ETH	6.0 mm	0 - 25 m
10-7001	Narrow BPL	2.1 mm	15 - 75 m
10-7009	Narrow ETH	6.0 mm	15 - 75 m

Interfaces	
10-6078	1TI
10-6077	4TI ETH
10-6083	4TI ETH EDGE (*) (**)
10-6085	TI x-stream BPL
10-6075	ETH interface
10-4670	4/Os xp

FLIR Intelligent Transportation Systems
Marke, Belgium
PH: +32 (0) 56 37 22 00

FLIR Systems, Inc
Santa Barbara, USA
PH: +1 805.690.5097

PORTLAND
Corporate Headquarters
FLIR Systems, Inc
27700 SW Parkway Ave.
Wilsonville, OR 97070
USA
PH: +1 866.477.3687

FLIR Systems, Inc.
Singapore
PH: + 65 8727 5581

FLIR Systems Australia Pty Ltd
PH: +61 1300 729 987
(NZ: 0800 785 492)

EUROPE
FLIR Commercial Systems
Luxemburgstraat 2
2321 Meer - Belgium
PH: +32 (0) 3665 5100
Fax: +32 (0) 3303 5624
Email: flir@flir.com

www.flir.com
NASDAQ: FLIR

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