



VIDEO AND RADAR-BASED VEHICLE PRESENCE SENSOR

TRAFIRADAR

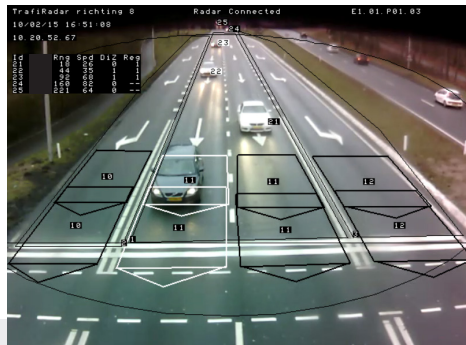
FLIR's Trafiradar vehicle presence sensor is a combination of a video sensor and radar that improves traffic safety and efficiency at signalized intersections. Trafiradar is typically used for stop bar and advance vehicle presence detection, traffic adaptive systems, and dilemma-zone protection. Trafiradar will warn traffic light controllers whenever a vehicle is present in the dilemma zone, either extending green or red lights to improve overall safety.

www.flir.com/Traffic



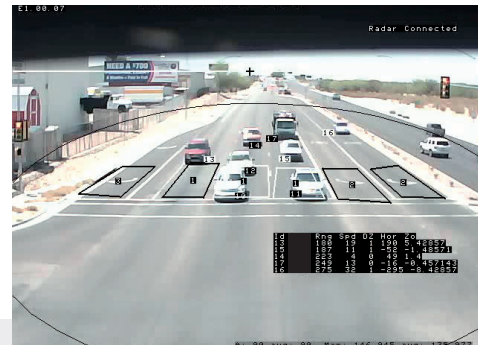
Real-time radar visualization

- Trafiradar interface displays live video footage with an overlay of radar data for better overall visualization.
- Heightened detection performance from two proven technologies



Smart traffic control

- Trafiradar provides conditional presence detection, depending on vehicle speed and class
- Supports traffic adaptive systems
- Detects at distances up to 600 ft./200 meters on multiple lanes



Compact and cost-effective

- Convenient above-ground solution
- Easy to install, calibrate, and configure
- Low-maintenance, remote monitoring

TECHNICAL SPECIFICATIONS

TrafiRadar sensor		
Camera	Color megapixel camera & Doppler radar	
Detection	Conditional presence detection per lane (outputs, events via TCP/IP or serial)	
Data	Data per lane and per vehicle (location, count, speed)	
Zones	Dilemma zone warning per phase and per vehicle (outputs, events via TCP/IP or serial)	
Network	IP-addressable	
Connection	BPL (broadband over power line) for power supply and communication	
Video compression	H.264/MPEG-4/MJPEG	
Protection grade	IP68	
Power consumption	Average power: 7W. Peak power: 8.5W	
MTBF	more than 100,000 hours	
Temperature range	-29°F to 165°F / -34°C to +74°C	
Shock & vibration	NEMA TS2	
EMC	FCC Part 15 Class B, 2004/108/EC	
	TI X-STREAM EDGE (US)	TI X-STREAM (non-US)
Dimensions	115 mm x 57 mm x 165 mm / 4.5 inch x 2.2 inch x 6.5 inch	128.4 mm x 50.5 mm x 180 mm / 5 inch x 2 inch x 7.1 inch
Controllers	For type 170, 2070, NEMA TS1 & TS2 and ATC controllers	All controllers with input module and/or with LAN connection
Outputs	4 outputs (output expansion board(s) possible), SDLC via PIM module, TCP/IP	16 outputs (32 extra outputs possible via TI xp. expansion board)
Network	IP-addressable	
Power supply	24VDC	12-42VDC, 12-30VAC
Power consumption	4W	3.5W
MTBF	More than 100,000 hours	
Temperature range	-29°F to +165°F / -34°C to +74°C	
Shock & vibration	NEMA TS2	
EMC	FCC Part 15, class B	2004/108/EC

Ordering Information	Part number
TrafiRadar (US)	10-6066U
TrafiRadar (non-US)	10-6066
TI X-STREAM EDGE	10-6055
TI X-STREAM	10-6085

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

CORPORATE HEADQUARTERS
FLIR Systems, Inc.
27700 SW Parkway Ave.
Wilsonville, OR 97070
PH: +1 877.773.3547

FLIR ITS
Hospitaalweg 1B
B-8510 Marke
Belgium
PH: +32 (0)56 37 22 00

www.flir.com
NASDAQ: FLIR

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