



FLIR Trafiradar

Video and Radar-Based Vehicle Presence Sensor

FLIR's Trafiradar vehicle presence sensor is a combination of a video sensor and radar, offering accurate detection for a wide range of applications. Trafiradar improves traffic safety and efficiency at signalized intersections for:

- Stop bar and advance detection
- Traffic adaptive systems
- Dilemma zone protection

Accurate Stop Bar and Advanced Detection

Trafiradar will provide information on the presence of vehicles approaching and waiting at an intersection. Trafiradar will warn the traffic light controller whenever a vehicle is present in the dilemma zone, either extending green time or extending all red lights in order to improve overall safety at signalized intersections. As a result, better decisions can be made to control the traffic lights in a more optimal way, making Trafiradar an ideal solution for supporting traffic adaptive systems.

Visualize the invisible

The Trafiradar user interface allows you to visually check your camera images, while at the same time consult radar information as an overlay on the video image. What is normally invisible in traditional radar solutions, now becomes visible with Trafiradar.



Use the video with radar overlay to calibrate your radar and visualize radar information.



Trafiradar provides information on the presence of vehicles approaching or waiting at an intersection.

KEY BENEFITS:

- HIGH DETECTION PERFORMANCE FROM TWO PROVEN TECHNOLOGIES: VIDEO & RADAR
- SMART TRAFFIC CONTROL WITH CONDITIONAL PRESENCE DETECTION (DEPENDING ON VEHICLE SPEED AND CLASS)
- DETECTS AT DISTANCES UP TO 200 M/600 FT ON MULTIPLE LANES
- EASY TO INSTALL, CALIBRATE AND CONFIGURE
- COMPACT AND COST-EFFECTIVE, ABOVE-GROUND SOLUTION
- REAL-TIME VISUALIZATION OF RADAR OBJECTS ON THE VIDEO IMAGE
- REMOTE MONITORING
- LOW-MAINTENANCE

Imaging 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

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

SWEDEN
FLIR Systems AB
Antennvägen 6,
PO Box 7376
SE-187 66 Täby
Sweden
PH: +46 (0)8 753 25 00

EUROPE
FLIR Systems
Luxemburgstraat 2
2321 Meer
Belgium
PH: +32 (0) 3665 5100

SANTA BARBARA
FLIR Systems, Inc.
70 Castilian Drive.
Goleta, CA 93117
USA
Ph: +1 866.477.3687

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

UK
FLIR Systems UK
2 Kings Hill Avenue
Kings Hill
West Malling - Kent
ME19 4AQ
United Kingdom
PH: +44 (0)1732 220 011

www.flir.com
NASDAQ: FLIR

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