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.

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

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.

FLIR | The World's Sixth Sense™

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

www.flir.com

FLIR | The World's Sixth Sense™