

Video and Radar-based Vehicle presence sensor TrafRad



Designed to reliably detect and classify road users, TrafCam AI is a high-definition smart sensor for traffic monitoring in complex urban environments. Featuring a low-light HD visible camera and artificial intelligence algorithms built on 25+ years of traffic detection, TrafCam AI effectively controls intersections and gathers detailed traffic data for better city planning decisions.

REAL-TIME RADAR VISUALIZATION

The TrafRad interface displays live video footage with an overlay of radar data for better overall visualization.

SMART TRAFFIC CONTROL

TrafRad provides conditional presence detection, depending on vehicle speed and class, and supports traffic adaptive systems.

COMPACT AND COST-EFFECTIVE

TrafRad is a convenient above-ground solution that is easy to install, calibrate, and configure.

SPECIFICATION

TrafRad 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)
Configuration	Local/remote web page configuration via Wi-Fi, PoE or BPL
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 interface board	
Dimensions	128.4 mm x 50.5 mm x 180 mm / 5-inch x 2-inch x 7.1 inch
Controllers	All controllers with input module and/or with LAN connection
Outputs	16 outputs (32 extra outputs possible via TI xp. expansion board)
Network	IP-addressable
Power supply	12-42VDC, 12-30VAC
Power consumption	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	2004/108/EC
Ordering information	
TrafRad	10-6066
TI X-STREAM	10-6085

