

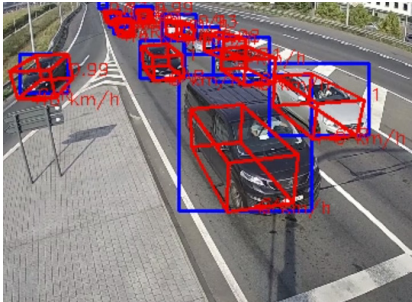


TRAFICAM AI™

AI-Powered HD Traffic Sensor

Designed to reliably detect and classify road users, the TraftiCam AI is an intelligent HD visible sensor for traffic monitoring in complex urban environments. Featuring a low-light HD visible camera and AI algorithms built on 25+ years of traffic detection, TraftiCam AI offers detailed vision and data collection for safer, more efficient cities. Capable of tracking multiple objects in any lighting or weather conditions; therefore, thermal is specifically used for safety-critical applications. The advanced edge-based AI technology effectively controls intersections and gathers detailed traffic data allowing you to make better city planning decisions.

- DETECTION BASED ON AI**
- EFFECTIVE SIGNAL CONTROL**
- HIGH RESOLUTION DATA**
- TRAFFIC PREDICTION**
- WI-FI BASED TRAVEL TIME MONITORING**
- EASY-TO-INSTALL**



PRECISE DETECTION AND CONTROL

Edge-based AI and Full HD imaging offer advanced intersection control that outperforms other signal control technologies

- Low light visual HD camera provides reliable vehicle detection at night and in challenging weather conditions
- Detect the position, speed and heading of vehicles in any direction
- Directly integrate with traffic controllers through accurate virtual loop configuration and dry contacts

FUTUREPROOF TRAFFIC INSIGHT

TraftiCam AI captures advanced and high-resolution traffic data for better-informed city planning decisions

- Automatically detect and classify road users and vehicle types into a wide range of subcategories
- Gather valuable data, including vehicle trajectories throughout intersections
- Provides real-time integration over APIs for adaptive and predictive traffic systems
- Provides information about the Situational Awareness

COMPREHENSIVE REPORTING

Generate automated reports with Acyclica to identify bottlenecks

- Determine the turning movement count per vehicle class at intersections throughout the day
- Measure travel & delay time between intersections *1
- Streamlined data visualization creates easy-to-read, compelling reasoning for city planning adjustments

For technical or sales support, please visit:
www.flir.com/about/general-inquiries

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Trafticam-AI-Datasheet-A4-24-0164-ITS



SPECIFICATIONS

System Overview				
Functionalities	Conditional vehicle presence for each class Traffic data & flow monitoring Turning Movement Count Queue Occupancy Wrong way drivers PSH (Position, Speed & Heading) - optional API License ETA (Estimated Time of Arrival)			
Services	FLIR VSO data - optional Acyclica license Wi-Fi Travel Time analytics - optional Acyclica license*			
Configuration	Local/remote web page setup via PoE, Wi-Fi* or BPL			
Imaging & Optical				
Type	CMOS Type 1/2.8 color High Dynamic Range			
Resolution	Full HD (1920 × 1080)			
Frame Rate	25 fps			
Compression	H.264, MJPEG, H.265			
Streaming Video	RTSP			
Product Types				
	Part Number (Wi-Fi)	Part Number (Non Wi-Fi)	Focal Distance	Detection Distance for Vehicle Presence
TrafiCam AI - Wide	10-7710	10-7711	2.8 mm	0 - 75 m / 0 - 250 ft
TrafiCam AI - Narrow	10-7715	10-7716	8.0 mm	75 - 150 m / 250 - 500 ft
Mechanical				
Material	Aluminum housing with integrated polycarbonate sunshield			
Dimensions (incl. mounting bracket)	Vertically mounted: 45 cm × 16 cm × 12 cm / 9.8 in × 6.3 in × 4.7 in Horizontally mounted: 41 cm × 18 cm × 12 cm / 16.2 in × 7.1 in × 4.7 in			
Electrical				
Input power	24-42 VAC / 24-48 VDC			
Power consumption	Avg 9.5 W / Peak 14 W			
Communication				
Output contacts	<u>ROW</u> - 1 N/O and 1 N/C dry contact direct - 16 N/C dry contacts via TI BPL3 interface		<u>USA</u> - Hard wired: 4 N/C onboard + maximum 5x N/C via 4I/O USB expansion boards (maximum 24 outputs total) - SDLC: BIU - 64 or SUI - 128	
PoE	PoE mode A for configuration, video streaming and data communication			
BPL	80 Mbps Broadband over Powerline communication via TI BPL3 (EDGE) interface			
Wi-Fi	IEEE 802.11 type b,g,n. EIRP < 100 mW*			
Environmental				
Shock & Vibration	NEMA TS2 specs			
Materials	All weatherproof UV resistant			
IP Rating	IP 67			
Temperature Range	-34°C to 74°C			
Regulatory				
FCC / EU Directives	FCC part 15 class A, EMC 2014/30/EU RoHS 2011/65/EU, LVD 2014/35/EU			

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

*Only Wi-Fi version

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