AI-Powered HD Traffic Sensor
TrafiCamAI

Designed to reliably detect and classify road users, TrafiCam 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, TrafiCam AI effectively controls intersections and gathers detailed traffic data for better city planning decisions.

PRECISE DETECTION & CONTROL
Edge-based AI and low light visual full HD imaging offer advanced intersection control that outperforms other signal control technologies.

FUTUREPROOF TRAFFIC INSIGHT
TrafiCam AI captures advanced and high-resolution traffic data for better-informed city planning decisions.

COMPREHENSIVE REPORTING
Generate sophisticated reports with Acyclica, including heatmaps and turning movement counts, to identify bottlenecks.

SPECIFICATION

System Overview	
Functionalities	Detection of all types of vehicles, including motorcycles Traffic data collection (integrated data) Queue length monitoring Premium traffic data collection - optional license
Optional Services (additional Acyclica license)	FLIR VSO Data Wi-Fi travel time analytics Modules (reporting, planning, signal synchronization tools)
Detection zones	24 virtual vehicle presence detection loops 8 traffic data zones for vehicle classification and counting
Configuration	Local/remote web page configuration via Wi-Fi, PoE or BPL

Camera, Image and Optics	
Type	CMOS 1/2.8 color, high dynamic range
Resolution	Full HD (1920 x 1080)
Frame Rate	25 fps
Compression	H.264, MPJEG
Streaming Video	RTSP

Modifications	with WiFi module	without WiFi module	Focal Distance	Vehicle detection distance
TrafiCamAI Wide angel	10–7710	10–7711	2,8 мм	0–75 m/0-250ft
TrafiCamAI Narrow angel	10–7715	10–7716	8,0 мм	75–150 m/250-500ft

Case material and characteristics	
Material	Aluminum body with polycarbonate sunshield
Dimensions (including mounting bracket)	Vertical mounting: 45 cm x 16 cm x 12 cm/9,8 in x 6,3 in x 4,7 in
	Horizontal mounting: 41 cm x 18 cm x 12 cm/16,2 in x 7,1 in x 4,7 in
Product weight (with mounting bracket)	1,6 kg

Power supply	
Input power	24–42 VAC / 24–48 VDC
Power Consumption	Average 6 W / Peak 9 W

Output contacts and communication	
Output contacts	- 1 N/O and 1 N/C direct dry contacts; - 16 opening dry contacts via TI BPL3 interface
PoE	PoE A mode for setup, video streaming and data transfer
BPL	80 Mbps Broadband via Powerline via TI BPL3 interface
Wi-Fi (only Wi-Fi version)	IEEE 802.11 type b.g.n. EIRP < 100mW

Environmental and Regulatory	
Shock & Vibration	NEMA TS2 specs
Materials	All weatherproof UV resistant
IR Rating	IP67
Temperature Range	-34°C to +74°
EU Directives	