



SCAE



TRAFICAM AI

TrafiCam AI is an intelligent traffic sensor that combines an HD visible-light camera with advanced artificial intelligence algorithms. Designed for complex urban environments, it detects and classifies vehicles, bicycles, and pedestrians in real-time even under challenging lighting conditions such as shadows, backlighting, and nighttime.

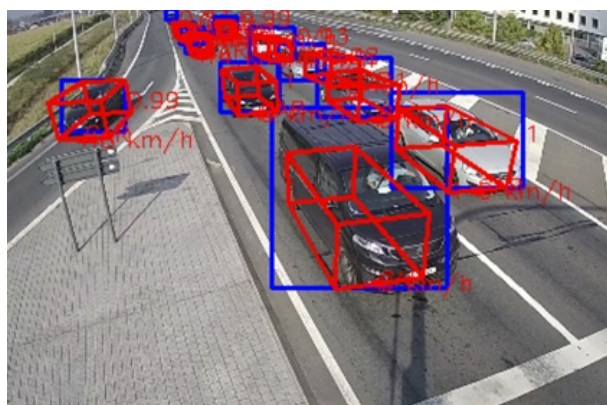
Thanks to its advanced architecture, TrafiCam AI enables optimized traffic signal management and delivers high-resolution traffic data, supporting more effective decision-making in traffic planning.

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Key Benefits

- Reliable AI detection even in congested urban environments;
- HD low-light capture (visible spectrum, no IR);
- Real-time multi-object tracking;
- Generation of individual or aggregated data (optional license);
- Advanced cloud-based reporting and analytics (Acyclica).



Applications

- Intelligent traffic signal control: presence detection, call, and green phase extension;
- Vehicle classification and counting by lane and vehicle type;
- Queue length and congestion monitoring;
- Turn movement analysis, heat maps, and bottleneck identification;
- Travel time and delay measurement (via Wi-Fi tracking).

Product Specifications

- Power supply: 24–42 VAC / 24–48 VDC;
- Power consumption: 6 W (average) / 9 W (peak);
- PoE: PoE Mode A;
- Outputs: 1 N/O + 1 N/C direct; 16 N/C via TI BPL3;
- Powerline (BPL): 80 Mbps via TI BPL3 or EDGE;
- Wi-Fi: IEEE 802.11 b/g/n;
- Additional interfaces: SDLC, expandable USB I/O;
- Protection rating: IP67;
- Operating temperature: –34 °C to +74 °C;
- Mechanical resistance: NEMA TS2 specifications – UV resistant;
- Material: Aluminum with PC sunshade hood.

Technical Specifications

Specification	Value
Detection AI	Vehicles, pedestrians, bicycles
Configurable Zones	24 virtual loops, 8 traffic data zones
Frame rate	25 FPS
Video Resolution	Full HD – 1920×1080 px
Technology	High dynamic range color CMOS sensor
Video streaming	RTSP – H.264, MPEG-4, MJPEG

Dimensions and installation

Installation Type	Dimensions
Vertical	25 cm × 16 cm × 12 cm
Horizontal	41 cm × 18 cm × 12 cm