



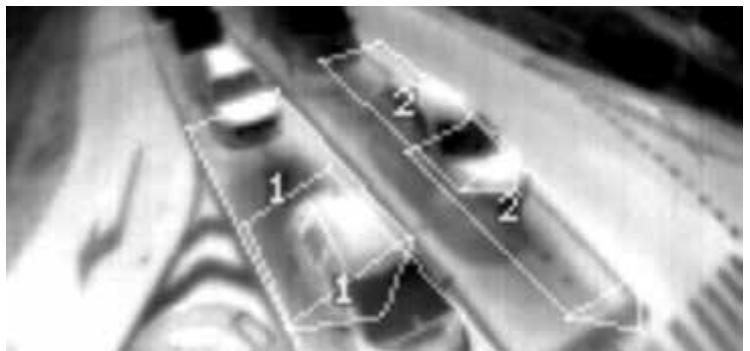
SCAE

TRAFIONE



TrafiOne is a compact multifunction sensor designed for urban traffic monitoring and dynamic traffic signal control, leveraging a combination of thermal imaging and Wi-Fi technology.

It is the ideal solution to enhance safety, traffic flow, active mobility, and data collection in complex environments such as intersections, pedestrian crossings, and high-traffic zones.



www.scae.net



Product Specifications:

- Power Supply: 12–42 V AC/DC;
- Power Consumption: 6 W (average), 7 W (peak);
- Outputs: 1 N/O + 1 N/C direct contacts – 16 N/C via TI BPL2/EDGE;
- Communications: Ethernet 10/100 Mbps, PoE A/B, BPL (up to 2 Mbps), Wi-Fi b/g/n;
- Ingress Protection Rating: IP67;
- Materials: Aluminum and PC GF10, UV-resistant;
- Mounting Bracket: PA GF30 clamps + aluminum tube;
- Operating Temperature: –40 °C to +60 °C;
- Certifications: EMC 2014/30/EU, RoHS 2011/65/EU, FCC Part 15 Class A.

Technical Specifications

Specification	Value
Configurable zones	8 vehicle zones + 8 pedestrian zones
Video streaming (optional)	Visual HD – RTSP, H.264, MPEG-4, MJPEG
Configuration	Secure web page via Ethernet/Wi-Fi
Optional features	Wi-Fi monitoring, pedestrian counting

	Integrated Thermal Sensor	Visible Sensor (Optional)
Type	LWIR – Uncooled FPA Microbolometer	CMOS HD Color
Resolution	160 × 120 px	1920 × 1080 px (Full HD)
Frame rate	9 FPS	30 FPS
Wavelength	8 – 14 µm	-
Field of View (HFOV)	-	95°

Key Benefits

- Precise detection of vehicles, bicycles, and pedestrians, both moving and stationary;
- Dynamic traffic signal control 24/7;
- Detects pedestrians crossing or waiting on sidewalks;
- Detection even in complete darkness, through shadows or reflections;
- Easy remote configuration via web interface (Wi-Fi or Ethernet).

Integrated Wi-Fi technology

- Anonymous tracking of Wi-Fi mobile devices (e.g., smartphones);
- Measurement of travel times, intersection delays, and queue waiting times;
- Fast and secure communication without complex wiring.

Models and Detection Ranges

Model	HFOV	Stop Detection*	Pedestrians/Bikes Detection
TrafiOne 195	95°	0–15 m	0–12 m
TrafiOne 156	56°	10–25 m	10–20 m

*Recommended for 2 lanes only.



SEMAFORI • CONTROLLI • AUTOMAZIONE • ELETTRONICA

SCAE S.p.A. - 20054 Segrate - MILANO (ITALY) - Via Volta, 6

Tel. +39 02 26 930.1 - Fax +39 02 26 930.310

Cap. Soc. € 3.000.000,00 i.v. Reg. Imprese MI 679633 C.F. e P. IVA 00857000152

www.scae.net - e-mail: info@scae.net