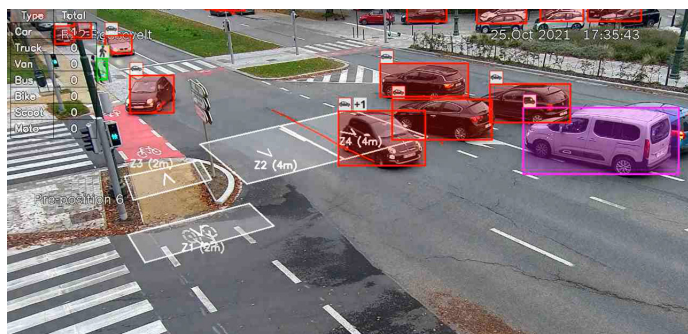


Traffic Statistics Edge AI

DATASHEET

AI-powered real-time multimodal traffic analysis



KEY BENEFITS

- ▶ Multimodal data collection from a single sensor
- ▶ Edge AI video analytics application
- ▶ Focus on vulnerable road users
- ▶ Easy and rapid deployment
- ▶ Low total cost of ownership

An innovative traffic counter for multimodal data collection

The Traffic Statistics Edge AI solution has been designed to provide local authorities with reliable and detailed multimodal data on different types of road users.

The camera is equipped with Deep Learning-based artificial intelligence software that transforms video streams into actionable mobility data in real time.

Image processing is performed directly within the camera (Edge Computing), with no video transfer, recording, or storage, ensuring instant data collection that is GDPR-compliant and privacy-friendly.

The generated data is immediately usable and can be integrated into transport management systems to support mobility planning, infrastructure investment decisions, and optimisation of road network performance.

Focus on Vulnerable Road Users

The application provides detailed data on vulnerable road users, including pedestrians, cyclists, and scooter users, while also tracking motor vehicles.

Advanced Traffic Data

This non-intrusive sensor measures and analyses key traffic indicators in real time: traffic volume, multimodal classification, vehicle speed, occupancy rate (%), and headway (ms).

Complete, simple-to-install, ready-to-use solution

Traffic Statistics Edge AI is designed for simple integration and rapid deployment on existing infrastructure.

Traffic data can be downloaded in .csv format or transmitted in real time over a wired network or 4G to a data management

system using the TMU protocol or EasyData. An integrated web interface provides direct access to configuration and management functions via a standard web browser.

The camera can be connected directly to an existing wired IP network, providing both power and data transmission through a single PoE connection.

Where no wired IP connection is available, the system can be supplied with a cabinet equipped with a mains power supply and a 4G modem, enabling autonomous installation at virtually any site.

Low total cost of ownership

The Traffic Statistics Edge AI sensor is supplied with its embedded artificial intelligence analytics application (Edge AI). It is a one-time investment with no software license renewal or recurring fees required. Once installed, the system operates autonomously, providing long-term access to AI-based analytics capabilities without additional software operating costs.

PART NO.	DESCRIPTION
198710	Traffic Statistics Edge AI Camera
199178	Mains cabinet with 4g modem

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TECHNICAL INFORMATION

Application	Multimodal traffic data collection on roads, active travel routes, and intersections.
Detection & Multimodal Classification	A single Traffic Statistics Edge AI camera can detect, track, and analyse hundreds of road users simultaneously, making it particularly well suited to busy urban environments with a diverse mix of transport modes.
Classification	Car Van HGV Bus Motorcycle Bicycle Pedestrian Scooter
Detection Zones (directional)	Traffic Zone: Detects stationary and moving vehicles (cars, vans, HGVs, buses, and motorcycles), as well as cycles and scooters travelling through the monitored area. Provides accurate traffic counts together with detailed statistics on traffic flows and vehicle types. VRU Zone: Detects stationary and moving vulnerable road users (cycles, scooters, and pedestrians) travelling within the monitored area. Provides accurate counts and detailed user types.
Data Available	Traffic Zone: Traffic volume, multimodal classification, vehicle speed, occupancy rate (%), and headway (ms). Data is provided by counting zones. VRU Zone: Traffic volume and multimodal classification of vulnerable road users (cycles, scooters, and pedestrians). Data is provided by counting zones.
On Screen Display	Four On Screen Display levels are available: no overlay, detection zones only, detection zones with detected objects, or full overlay including counts and statistical data.
Privacy Compliance	The edge processing application is GDPR-compliant. Video analysis is carried out locally, without recording or storing images, and produces reliable, real-time, actionable statistical data.
Camera	AXIS P1475 LE Bullet camera (ARTPEC-9 processor). Weight : 1.65 kg (incl. mounting bracket).
Recommended Installation Height	System designed for installation at a height of 5 to 7 metres on standard street lighting columns.
Power and Communications	Power over Ethernet (PoE): The camera connects directly to a wired IP network, providing both power and data over a single connection. A mains power cabinet with integrated 4G modem is available as an option for sites where no wired IP connection is available.
Data and Communications Protocol	Data downloadable in .csv format. Standard interfaces for third-party systems via TMU protocol (compatible with C2 Drakewell) or EasyData middleware.

Due to TagMaster's continuous effort to develop the products in response to customer needs, the above specifications are subject to change.