

MESTAflow

Ensuring smooth and safe journeys



MESTAflow is a combination of an Automatic Number Plate Recognition (ANPR) camera and a Point-to-Point (P2P) back-end server. It monitors P2P average speed for a large network of multiple control sections.

Prioritizing road safety

Every year, around 1.35 million people die as a result of traffic-related accidents¹. Speeding is a key contributor to this high number. Implementing solutions that prevent reckless driving within control sections of a road is crucial to improving road safety.

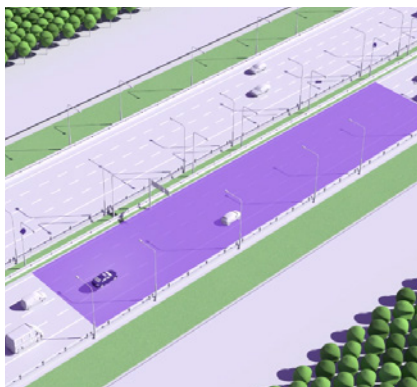
MESTAflow, a solution that prevents accidents

Accurate and easy to install, MESTAflow helps authorities address the challenge of preventing reckless driving. It monitors the average speed of any type of vehicle within a control section. This discourages sudden deceleration and acceleration at control points and thus prevents accidents within the entire control section. MESTAflow operates perfectly during day and night.

Flexible configuration

MESTAflow monitors vehicles within a large network of cameras.

This means a single camera can act as an entry (or an exit point) for several control sections at the same time.



Benefits



Easy installation

The ANPR camera can easily be installed on a gantry or on roadside poles such as existing lamp posts.



Performance

MESTAflow ensures the precise identification of vehicles and an accurate average speed measurement for any vehicle traveling up to 250 km/h.

¹Road Traffic Injuries, World Health Organization (WHO) <https://www.who.int/news-room/fact-sheets/detail/road-traffic-injuries>

Why IDEMIA?

IDEMIA has decades of experience in the field of image acquisition, processing and Artificial Intelligence (AI).

Automated Biometric Identification Systems (ABIS), video analytics software, biometric devices and gates, identity management systems, ID document personalization, as well as road safety technology have one thing in

common: they all rely on accurate, efficient data collection and AI.

IDEMIA is the world leader in public security applications with in-house capability to design, produce and support edge devices and associated embedded advanced image processing analytics. We combine our expertise from across all our markets to make road traffic smoother.



Data protection

MESTAflow encrypts data files, provides a configurable duration of data storage and offers operators secure access to management systems.

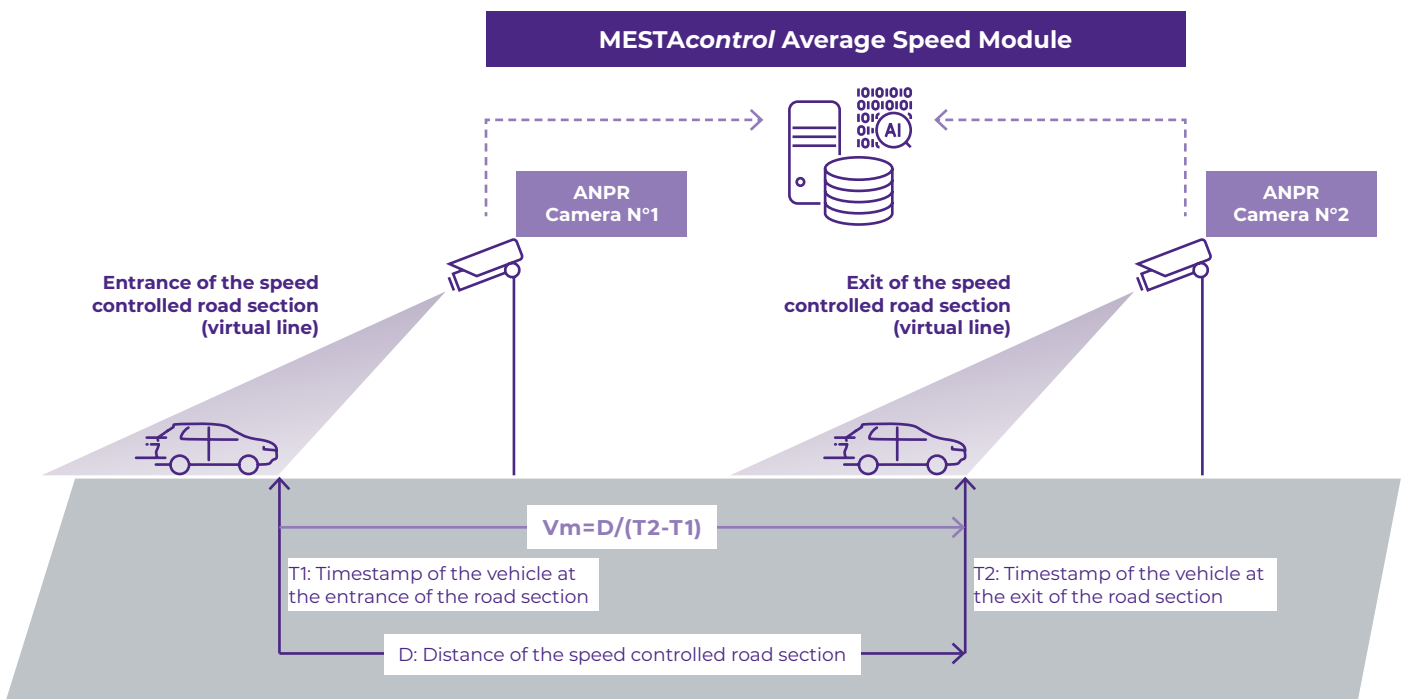
How MESTAflow works?

The ANPR camera detects all vehicles that drive through entry and exit points that border different control sections.

When vehicles pass an entry or exit point, the camera sends the relevant metadata (the vehicle's license plate number, date with time stamp etc.) to MESTAcontrol, the P2P back-end server, which can request photo evidence from the camera when needed.

MESTAcontrol matches the vehicle's license plate number from the network of cameras and calculates the average speed of all vehicles detected both at entry and exit points of a section.

When the P2P speed is faster than the control section's speed limit, the P2P back-end server generates a violation package that contains evidence to prove speed violations.



Cutting-edge technology

- › High performance for average speed enforcement, traffic analytics and statistics.
- › Operates even when connectivity between field cameras and P2P back-end server is down.
- › Additional external infrared illumination (optional) to enhance images and vehicle classification at night.



Beyond section control

MESTAcontrol offers advanced capabilities for applications other than average speed enforcement thanks to its powerful algorithms. Traffic analytics and public security management applications such as real-time alerts for incidents, vehicles passing within a restricted area or wanted vehicles are also at your disposal.