

SmartSensor

LECTOR VISION

Vehicle control on public roads



Up to 250 km/h



Brand, model, colour,
type of vehicle



Traffic data



All-in-one (camera,
processor, IR...)

ITS/Traffic

ANPR AI

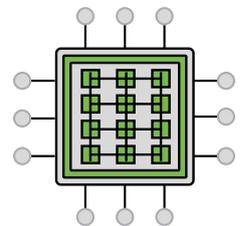
SmartSensor® is a traffic sensor designed to help cities and operators understand and manage mobility with reliable real-time data. It captures the information needed to monitor vehicle flow, support decision-making, and enable use cases such as regulated zone management and optimization of public road operations. It is a compact solution, designed to be deployed efficiently and adapted to different control and analysis needs.



**Access control in
restricted areas and
mobility data
analysis.**



**Tested reliability
in over 70
countries.**



**AI / Deep Learning for
maximum accuracy
(CNN and capsule
networks)**



The system supports the incorporation of ITS algorithms and high-performance vision analytics. It also allows external sensors (e.g., Doppler) and external illuminators to be added to obtain additional information and improve capture in complex scenarios.

- Embedded **FPGA** processing for high-performance ITS analytics.
- Provides **real-time monitoring** of vehicle flow.
- Supports traffic management, road safety enforcement and tolling use cases.
- Maximum reading accuracy enabled by major **technological advances**.
- Also suitable for LEZ operations when required.

ADVANTAGES

Features

- **Vehicle attributes:** license plate + make, model, color, and type.
- **Speed and direction:** instantaneous speed up to 250 km/h and direction of travel.
- **Advanced mobility:** travel times and origin-destination matrices.
- **AI/Deep Learning:** advanced algorithms (CNN and capsule networks).

All in one system

- **All integrated:** capture + IR + control + FPGA + communications + software in a single device.
- **Easier** maintenance and spare parts stock **management**.
- Requires a lighter communications **network**.
- **Point-to-point growth** without modifying control-centre hardware.
- **Offline** operating capability.