

SmartSensor

LECTOR VISION

Vehicle control on public roads



Up to 320 km/h



Brand, model, colour,
type of vehicle



Traffic data



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

ITS/Traffic

ANPR

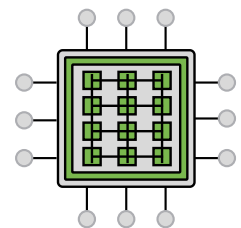
SmartSensor® is an ITS traffic sensor designed for highway operators, **road** infrastructure managers and **cities** that require reliable, real-time **traffic data** for motorways, tolling environments and enforcement operations. It captures vehicle flow data to support operational decision-making, performance monitoring and analytics across large-scale networks, helping **optimise infrastructure management and roadside processes**. Compact and deployment-ready, it integrates easily into a wide range of roadway monitoring and control applications.



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



**Tested reliability
in over 70
countries.**



**Deep learning and
advanced computer
vision and AI
techniques for
maximum accuracy**

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



ADVANTAGES

- 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**.

Features

- **Vehicle attributes:** license plate + make, model, color, and type.
- **Speed and direction:** instantaneous speed up to 320 km/h and direction of travel.
- **Advanced mobility:** travel times and origin-destination matrices.
- **Deep Learning:** advanced algorithms.

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.