



Since 1964 we strive
for a safer world



CO1 COMPANY





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High technology for a safer world.

Sodi Scientifica was founded in 1964 and is known worldwide for being the inventor of the Autovelox® speed enforcement camera. Sodi Scientifica is now widely recognized as an international leading company in the design and production of road safety systems.

Oriented towards internationalization and research, Sodi Scientifica offers modern and highly performing instruments, approved and operating in several countries around the world such as Spain, Singapore, Indonesia, Canada, Uruguay, Chile, Ecuador, Perù, just to name a few.

The company aims to provide the best quality products and services to its international customers by having in-house all the main business units of R&D, production, customer care and product assistance.

With our solutions for traffic control and speed enforcement we work towards our mission to improve road safety and reduce the number of fatalities.

Certifications and Accreditations



LAT N° 290
 Membro degli accordi di Mutuo Riconoscimento
 EA, IAF e ILAC
 Signatory of EA, IAF and ILAC Mutual Recognition Agreements



Rating of Legality

Our company has been awarded the highest possible recognition, **with three stars for the legality rating (★★★)**, granted by the Italian Competition Authority (Autorità Garante della Concorrenza e del Mercato - AGCM). This achievement not only represents a significant milestone for us but also demonstrates our ongoing commitment to integrity, transparency, and compliance with current regulations.¹

¹ The legality rating is an acknowledgment that rewards companies operating with ethics and responsibility, and it is a clear indication of our dedication to conducting business in a way that builds trust and confidence among our customers, partners, and the community.



Gender Equality Certification

We are proud to announce that our company has been awarded the Gender Equality Certification, in compliance with the UNI/PdR 125:2022 Reference Practice. This important recognition reflects our deep commitment to fostering a diverse, inclusive, and equitable workplace, where everyone has the opportunity to grow and succeed, regardless of gender.

Achieving this certification is a testament to our ongoing efforts to promote equal opportunities, fair treatment, and a culture of respect across all levels of our organization. It highlights our dedication to creating a positive work environment where every employee feels valued and empowered.

We believe that gender equality is not just a goal but a fundamental aspect of our values and corporate strategy. This certification inspires us to continue working diligently towards even greater inclusivity and fairness in all our practices.

PRODUCTS

Sodi Scientifica **range of products** include:

- **Autovelox** – Laser or Radar speed cameras, roadside box, pole, gantry and mobile tripod mounted systems.
- **Autovelox Vision** – Red light and illegal manoeuvres cameras.
- **Backvelox** – Back-office software.
- **Freeflow** – ANPR – Automatic Number Plate Recognition system.

AUTOVELOX 106 SE

Mobile mounted laser speed camera

The **Autovelox 106 SE** confirms Sodi Scientifica leadership in the speed enforcement market, with a renewed system that combines extraordinary effectiveness and ease of use with new functionalities.

In addition, thanks to its advanced **Freeflow** Automatic Number Plate Recognition system and querying feature, the system detects lack of insurance, inspection, and presence in black- or whitelists, both at day and nighttime.



Autovelox 106 SE has a **completely renewed user interface** compared to the previous model. On the rear side of the CPU, there is **an interactive multicolor LED bar** capable of visually communicating to the operator the various states of the instrument, the differentiation of the various types of infractions, and the battery charge level.

Internal components

High quality video camera with automatic IR filter removal system for color photos during the day and black-and-white photos at night

ANPR - Automatic Number Plate Recognition system



- Integrated IR Flash
- Integrated 4G LTE router
- USB-C port

Main Features

- Speed enforcement measurement **TOF laser sensor** (no intrusive sensors required on the roadway).
- New **Freeflow** functionality for insurance and inspection verification.
- Detection** of up to **4 one-way lanes**.
- Bidirectional detection on two-way lane roads, one lane per direction**, capturing images exclusively from the rear of vehicles on both lanes with a single camera. This setup ensures **full privacy protection** while providing valid photographic evidence.
- Night operation** with visible or IR flash.
- High-definition images**.

3 installation modes



Freeflow Functionality



ANPR and querying system for insurance/inspection verification.



Verification of presence/absence in black-lists and white-lists.



Up to 4 one-way lane roads, and bidirectional detection on two-way lane roads, one lane per direction.



License plate reading up to 200 km/h.



02

PRODUCTS

AUTOVELOX 106 SE

Laser speed camera

The **Autovelox 106 SE**, in its pole/gantry mounting, features inside the new all-in-one hardware:

- **Modem with integrated 4G connectivity;**
- **Integrated IR illuminator Flash;**
- **IR switch on high quality video camera.**

In addition, thanks to its advanced **Freeflow** Automatic Number Plate Recognition system and querying feature, the system detects lack of insurance, inspection, and presence in black- or whitelists, both at day and nighttime.

All in one system containing:

- High quality video camera with automatic IR filter removal system for color photos during the day and black-and-white photos at night.
- ANPR - Automatic Number Plate Recognition system
- Integrated IR Flash
- Integrated 4G LTE router



Main Features

- **Detection up to 2 one-way lanes** (e.g., parallel and/or overtaking vehicles).
- **Speed enforcement measurement TOF laser sensor** (no intrusive sensors required on the roadway).
- The instrument is **installed on a pole or gantry at a height of about 4 meters**, ensuring high resistance to vandalism and maximum efficiency.
- New **Freeflow** functionality for insurance and inspection verification.
- **Night operation** with visible or IR flash.
- **High-definition images.**
- Can be **powered by solar panels.**

Freeflow Functionality



ANPR and querying for insurance/inspection verification.



Verification of presence/absence in black-lists and white-lists.



Up to 2 single and two-way lane roads, 1 per direction.



License plate reading up to 200 km/h.





AUTOVELOX 106 SE RADAR

Radar speed camera

The **Autovelox 106 SE Radar** speed camera can be installed on any type of fixed station (pole, gantry, buildings). It features a newly designed all in one system integrating a radar sensor, a high-quality camera with automatic IR filter switch for color photos during the day and black-and-white photos at night.

A single compact unit can detect up to 4 lanes, both on approaching and receding vehicles.

In addition, thanks to its advanced **Freeflow** Automatic Number Plate Recognition system and querying feature, the system detects lack of insurance, inspection, and presence in black- or whitelists, both at day and nighttime.

Main Features

All in one system and easy to install, all the components are stored in a single hardware and includes:

- **Speed enforcement** through radar.
- **High quality camera with automatic IR filter removal system** for color photos during the day and black-and-white photos at night.
- **IR Flash.**
- **Router.**
- **UPS continuity unit.**
- **ANPR - Automatic Number Plate Recognition system.**
- New **Freeflow** functionality for insurance and inspection verification.
- Can be installed in any type of fixed position either **on the side, in the middle of the road or on top of a gantry.**
- **Night operation** with visible or IR flash.
- **Automatic blurring function** of non-relevant subjects to ensure privacy protection.
- Can be **powered by solar panels.**



AUTOVELOX 106 SE VISION

Red Light detection and other illegal maneuvers

The **Autovelox 106 SE Vision** integrating proprietary Artificial Intelligence algorithms allows to detect red light violations and numerous other illegal manoeuvres.

In addition, thanks to its advanced **Freeflow** Automatic Number Plate Recognition system and querying feature, the system detects lack of insurance, inspection, and presence in black- or whitelists, both at day and nighttime.

Main Features

All in one system and easy to install on a pole or gantry unit. The instrument contains:

- **Artificial Intelligence Software.**
- **ANPR - Automatic Number Plate Recognition system.**
- **Black/White & color camera.**
- **IR Flash.**
- **Router.**
- **UPS continuity group.**
- Vehicle recognition by type: **motorcycles, cars, buses and trucks.**
- **Recognition of the traffic light status.**
- **Automatic blurring function** of non-relevant subjects in images captured by the device to ensure privacy protection.
- **Real-time vehicles tracking.**
- **Black-list function:** automatic alert to the patrol regardless of the insurance and inspection validity status.
- **White-list function:** the opposite function to the black list.
- Can be installed in any type of fixed position either **on the side, in the middle of the road or on top of a gantry.**
- Connectivity: **4G, Wi-Fi and Ethernet.**
- Can detect up to 3 red light phases and operates at **traffic light intersections, intersections without traffic lights, and roads without intersections but with traffic lights.**

Freeflow Functionality



ANPR - Automatic Number Plate Recognition system and querying for insurance/inspection verification.



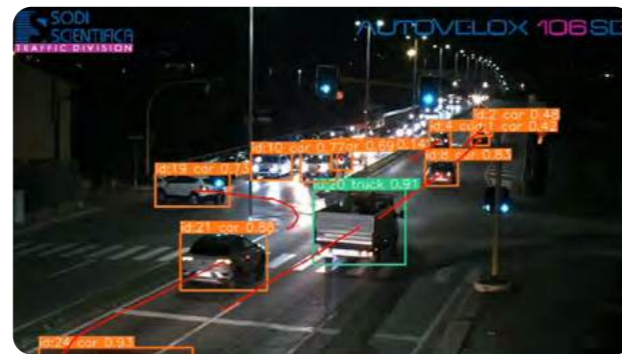
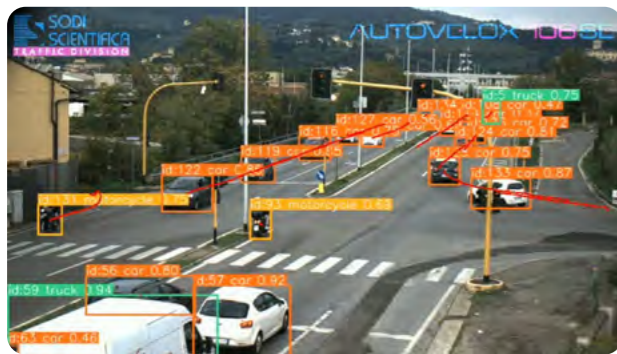
Verification of presence/absence in black-lists and white-lists.



Up to 4 one-way lane roads, 2 two-way lane roads.

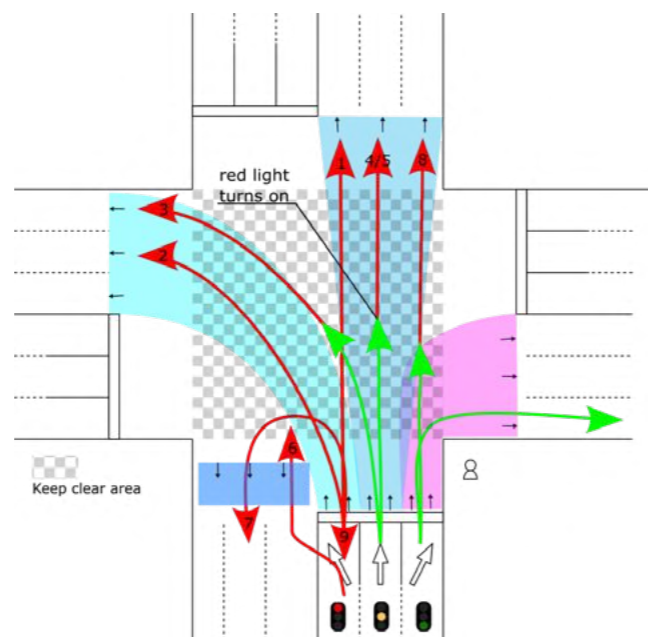


Detection of vehicles' speed up to 200 km/h.

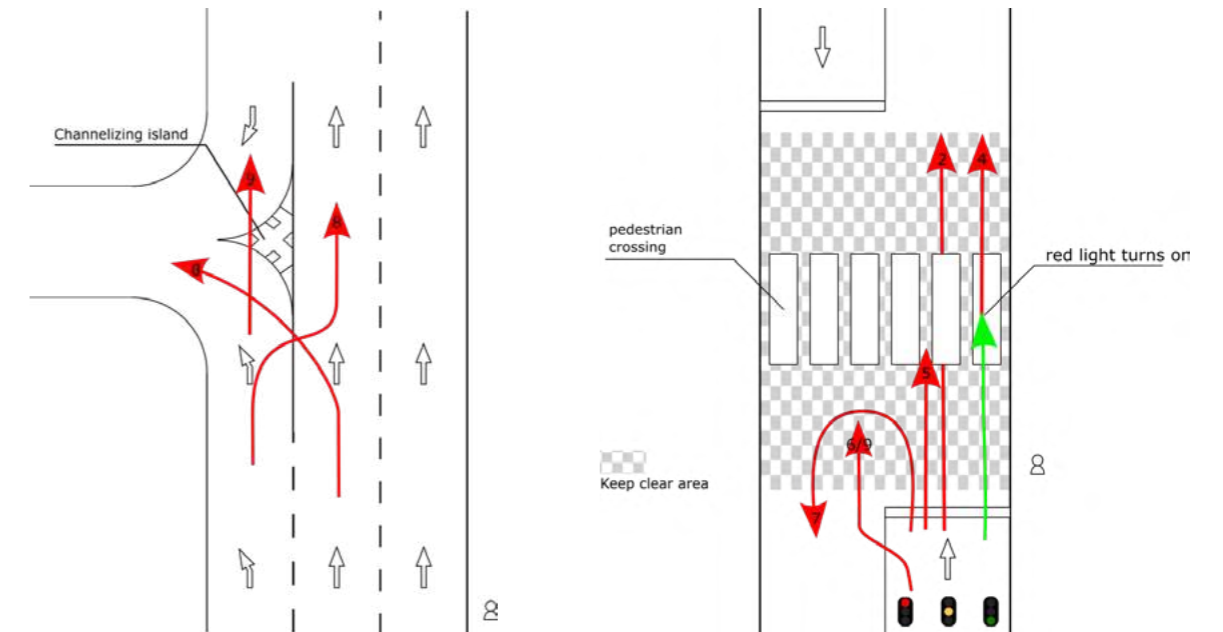


Detectable Illegal Manoeuvres

1. The vehicle crosses the stop line in a lane with red and continues in a direction with green or yellow.
2. The vehicle crosses the stop line in a lane with red and continues in a direction with red.
3. The vehicle crosses the stop line in a lane with green or yellow but goes in a direction with red at the time of intersecting the intersection.
4. The vehicle crosses the stop line in a lane with green or yellow but still affects the intersection area when the red phase starts (even if it exits in the direction allowed by the entry lane).



5. The vehicle crosses the stop line in a lane with red and stops before the area to be kept clear.
6. The vehicle exits the lane before the stop line to avoid the queue and/or sensors near the stop line.
7. The vehicle performs a U-turn near the intersection.
8. The vehicle uses the wrong lane in relation to the direction taken.
9. The vehicle proceeds in the wrong direction on roads with separate carriageways or in curves or in conditions of poor visibility.



The position in which the instrument is installed determines which cases can be detected:

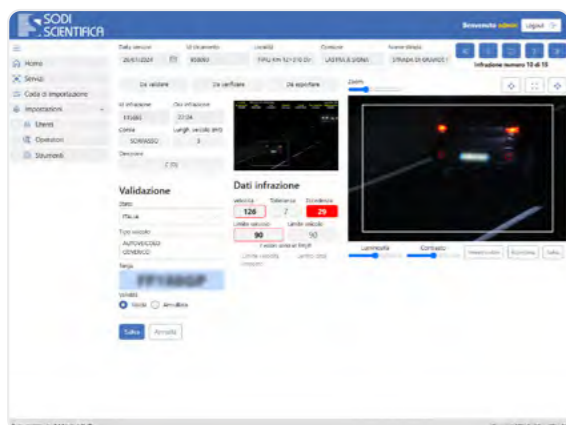
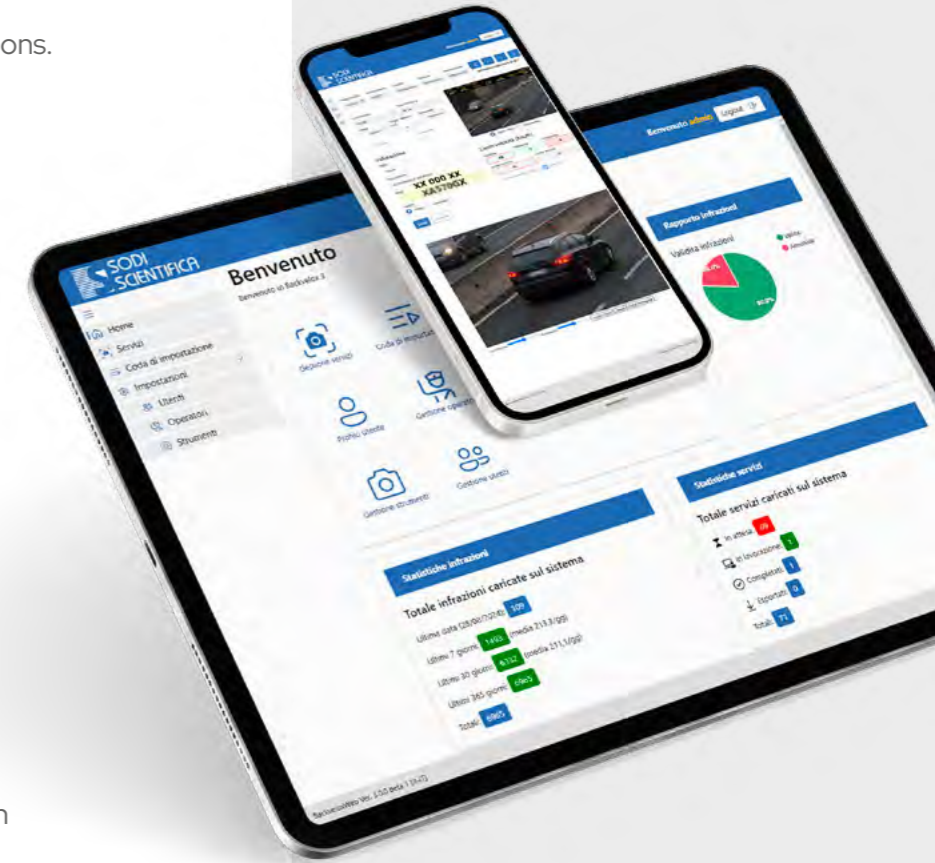
| | TYPE OF INFRACTION |
|------------------------------------|--------------------|
| TRAFFIC LIGHT INTERSECTION | 1•2•3•4•5•6•7•8•9 |
| INTERSECTION WITH NO TRAFFIC LIGHT | 8•9 |
| TRAFFIC LIGHT ROAD | 2•4•5•6•7•9 |

BACKVELOX 3.0

Infraction Management and Validation Software

BackVelox 3.0 is the software that enables to: import, display, validate, print, and export of data towards the violation management system.

- Playback of videos related to infractions.
- Integrated zoom and image processing functions (color inversion, brightness, and contrast adjustment) for the correct identification of license plate numbers and vehicle types.
- Validation and management of infractions.
- Role-based multi-user authentication.
- Advanced search and statistical functions.
- Available as a cloud service hosted on Sodi Scientifica's in-house servers.




General characteristics

- Full compatibility with images, videos, and data produced by Sodi Scientifica devices.
- Responsive web user interface, compatible with all types of browsers, designed to adapt and function optimally on different devices and screen sizes.
- Export of infractions to all ticketing software available on the market.
- Automatic data import from peripheral devices via network (4G/LTE, LAN, Wi-Fi, ...), or via USB, with import queue monitoring.
- Viewing, printing, and exporting of photos from the devices, with the option for automatic blurring to protect privacy.





OS SERVICES

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3 SERVICES

Highly qualified staff and the best equipment.

Sodi Scientifica offers a wide variety of services to its customers:

- **Commercial support during all phases of approach, negotiation and sale achievement;**
- **Training and support for the installation of the products;**
- **Advanced technical back-up service;**
- **Remote software support;**
- **Initial training for the use of the equipment;**
- **Technical training aimed at the creation of first-level certified and delocalized assistance centres;**
- **Periodical verification and certification.**

Our partners are nominated authorised Service Centres, and as such, are provided with continuous support, such as back-up service and technical support to the final customer for the whole duration of the project.

We also offer our partners the opportunity to be certified as Local Support Centres, after attending specific technical training courses.

We support our partners with the integration of the Back Office Software if needed and we can provide our assistance by remotely connecting to the instrument from the headquarters' offices.

This type of project requires the establishment of relationships and the involvement of various public bodies including Ministry for the Interior, Ministry of Transportation, Police and Road Authorities and State Metrological Body for the type-approval of instruments.

On a strategical point of view, we are interested to evaluate possible distribution agreement with companies that are already involved in such kind of relations.



[sodi.com](https://www.sodi.com)

