

Traffic solutions in your hand... now on Tablet



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



Via Poliziano, 20  
50040 Settimello di Calenzano (FI) - ITALY  
Tel. +39 055 886861  
Fax +39 055 8873140  
e-mail: [info@sodi.com](mailto:info@sodi.com)

COMPANY WITH QUALITY MANAGEMENT  
SYSTEM CERTIFIED BY DNV  
= ISO 9001:2008 =

Improving road safety

# AUTOSTOP HD

Combined Red-Light and Speed  
enforcement Camera

- > Tamper-free high-resolution digital images
- > Motion video clip
- > Infrared or white light flash module
- > Remote or local data download
- > High operational efficiency
- > Automatic number plate recognition
- > Connection via tablet PC
- > Automatic signalling of malfunctions or vandalism
- > Modular system



LEADERS IN TRAFFIC INSTRUMENTATION

# AUTOSTOP HD

**Autostop HD** is a high-quality digital camera for the enforcement of red light running, speeding and improper lane use, working simultaneously across a full three lanes of traffic and three different red light times.

**Sodi Scientifica** has exploited all the experience acquired since **1964** in traffic instrumentation, condensing it in a high-performance, multipurpose device, capable of detecting violations in an indisputable manner, in order to simplify operators' life and contribute to the improvement of road safety.



## APPLICATIONS

When installed at a traffic light junction, **Autostop HD** automatically detects violations of

- > Red light running
- > Excess of speed (on red or green lights)
- > Failure to comply to traffic light signals

It may also be installed on any road or highway as an automatic speed enforcement camera.

The North American version of **Autostop HD** is provided with the UL 61010 marking.

## WHAT IT IS MADE UP OF

**Autostop HD** is a modular device composed by the following elements.

### Standard components

- > Digital camera
- > Flash module
- > On road cabinet
- > OCR software for Automatic Number Plate Reading
- > Backvelox HD management software
- > Inductive detectors (i.e. loop)

### Pay-options

- > Speed enforcement
- > Red light enforcement

### Accessories on demand

- > Video camera
- > Alarm system
- > Support pole

All modules, except the road side cabinet, are pole mounted, with a minimum ground elevation of 3.1 meters.

## PHOTOGRAPHIC / VIDEO EVIDENCE

At a traffic light junction, **Autostop HD** captures two High Definition (up to 18 megapixels) digital images; the first when the vehicle is crossing the stop line (in the USA version: before crossing it), the second when the vehicle is in the middle of the intersection. Sodi Scientifica's high resolution camera system enables the positive identification of an offending vehicle from a single photograph through a clear view of the following elements:

- > state of traffic signals (green, amber or red)
- > offending vehicle model and make
- > offending vehicle number plate automatically read by the in-built OCR

When installed away from a signalized intersection, the system captures just one picture of the speeding vehicle.

All violation data (pictures, video clips and details) are protected through digital signature with public key encryption to ensure information is authentic and tamper free. The result is a set of images which are always clear, authentic and indisputable.

### IR or white light flash module

The camera can be equipped with an invisible infrared flash unit or a white light flash, automatically activated when lighting is insufficient. With the IR device, pictures are black and white by day and night.

### Optional digital video camera

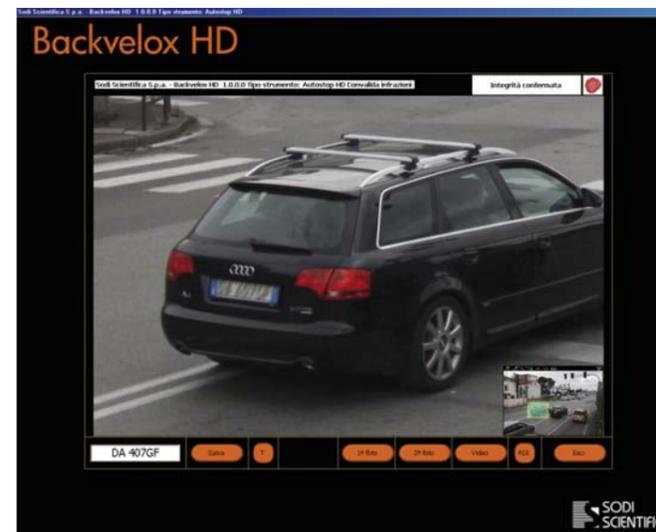
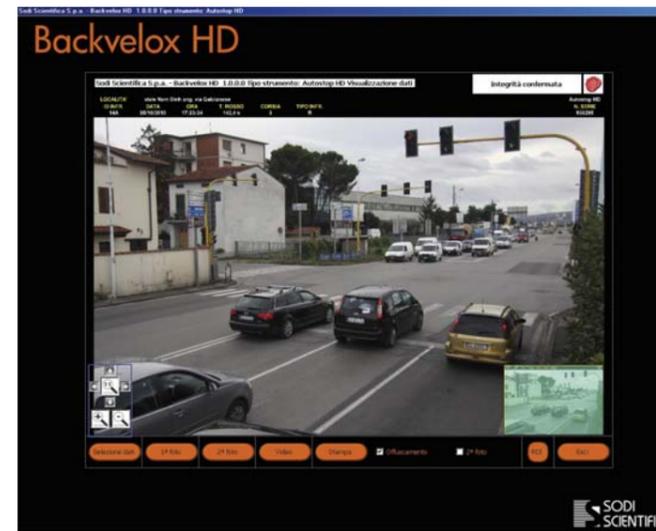
**Autostop HD**, with only natural lighting, can also capture a 10 second motion video clip showing a view of the intersection 4 seconds before and 6 seconds after the vehicle crossed the stop line.

## PERFORMANCES

### Automatic local or remote download of data

All enforcement information may be automatically downloaded through wired (fiber optic, UTP cable, etc.) or wireless (UMTS or HSUPA) networks. Without any interruption, operators can also set the site parameters from the office or locally through a special encrypted mass memory "Data Key" or by portable or Tablet PC.

Should this data be lost or damaged, Autostop HD allows it to be recovered for a 30 day span.



### High operational efficiency

Thanks to its innovative Photo-Burst technology, **Autostop HD** provides unparalleled simultaneous enforcement rate across a full three lanes of traffic and three different red light times.

### Non-intrusive connection to the traffic light

In order to keep **Autostop HD** from interfering with the traffic light system at all, its state (green, amber or red) is gathered through a fiber optic system.

### Automatic signalling of malfunctions or vandalism

Through the optional alarm system, **Autostop HD** activates a siren and signals any possible acts of vandalism, or malfunctions to both the officers (via SMS) and the instation, thanks to the sophisticated sensors mounted on the pole and in the road side cabinet.

The device also signals the operators when the measured amber phase is lower than the programmed time threshold.

### Low visual impact

**Autostop HD** is particularly compact and can be installed on both sides of the road. The entire photo/video and flash device is mounted on a single pole and the road side cabinet can be placed within 60 metres from it.

### Backvelox HD management software

The system is supplied with a free tool called Backvelox HD. This is very useful when some functions are not integrated by the Back Office Enforcement Processing Software in use, such as importing and viewing data, validating, printing and exporting them.

In order to safeguard citizen's privacy, Backvelox HD automatically makes all non-offending number plates illegible.