

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

AUTOSTOP HD



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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 controlled intersection, **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
- > Road side cabinet
- > OCR software for Automatic Number Plate Recognition
- > Decrypt AHD Software
- > Pole supports

Detection Sensors

- > Inductive loops *or*
- > Virtual loops (available for Red light enforcement only)

Enforcement pay-options

- > Speed enforcement
- > Red light enforcement

Accessories on demand

- > Video camera for infraction footage
- > Alarm system
- > 3G + WiFi network devices
- > Road side pole
- > Heating components kit (available only for the North American version)

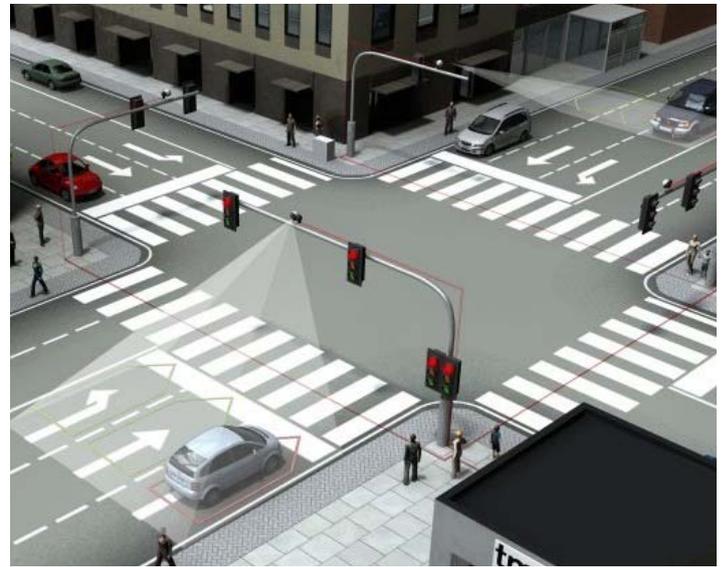
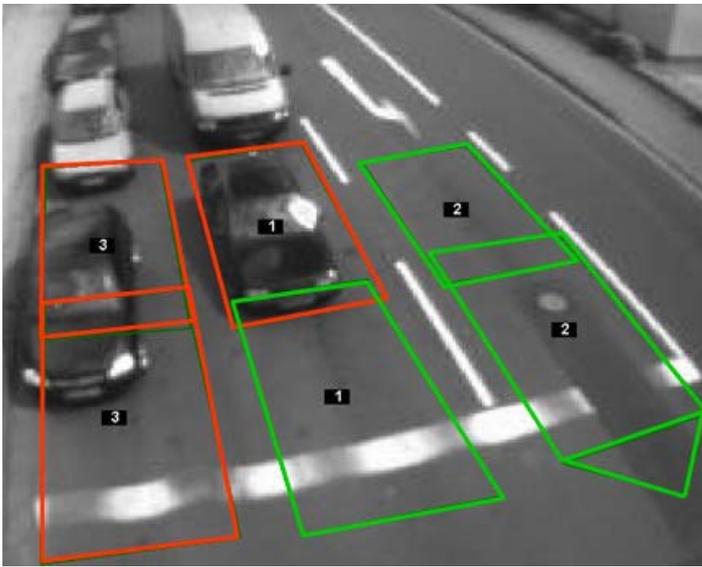
All modules, except the road side cabinet, are pole mounted, with a minimum ground elevation of 3.1 meters

PHOTOGRAPHIC / VIDEO EVIDENCE

At a traffic light Intersection, **Autostop HD** captures two High Definition (up to 18 megapixels) digital images; the first when the vehicle is crossing the stop line (in the North American 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 (in countries where this option is available)

When installed in an open road or highway, the system captures one or two pictures of the speeding vehicle, according to the local law. 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. Using the IR device, pictures are taken in black and white by day and night.

Optional digital video camera

Autostop HD, using 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.

VIRTUAL LOOPS

Autostop HD in its basic configuration provides for a detection system utilising in-road inductive loops and it allows the detection of both Red Light and Speed infractions.

In all cases in which inductive loops are not considered the best solution, a valid alternative **only for the enforcement of red light offences** is represented by this non-intrusive sensor based on the projection of virtual loops on the road surface.



This innovative solution has many advantages when compared to the in-road loops:

- > elimination of the costs related to the inductive loops positioning
- > installation can take place with no interruption of the traffic flow
- > no malfunctions in the event of road surface in poor state and/or in presence of artefacts (pits, metal structures, etc.)
- > greater flexibility in configuring the system (in case of changes in the traffic flow it is sufficient to redefine the loops by software)
- > no intervention in case of road maintenance or rebuilding

After having defined the virtual loops position through a simple, intuitive and fast process using the dedicated graphic interface, the device can identify the presence and transit of vehicles for red light offence determination on monitored lanes (up to 3).

The sensor can operate both day and night, without any illumination system, while the flash unit is still necessary for the camera.

Mounting is obtained, through the supplied supports, by fixing it on the existing Traffic Light pole, in a central position respect to the monitored lanes.

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 lo-

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