Autovelox 105 SE

Digital Video Laser

Speed Enforcement System

SODI SCIENTIFICA
TRAFFIC DIVISION

Autovelox 105 SE

Autovelox 105 SE signals the definitive change to digital imaging technology in speed enforcement. No more wet-film development or analog video system evaluation, but digital images recorded and retrieved via central computer.

Digital information management allows a substantial increase in efficiency trough the complete automation of the violation process. Image and violation data can be easily processed at once, thus avoiding any operation required by the traditional films.

That means:

- optimizing the deployment of officers through the reduction of labor intensive activities
- reducing the lead time up to 7-10 days, thereby influencing the attitude of motorists towards speeding
- increasing safety of officers by means of unattended equipment which reduce the cost of manual operations
- avoiding the processing of film and the pollution it causes

The speed measurement of the **Autovelox 105 SE** is based on the space / time principle, conceived by Sodi Scientifica in the '60 and now built with the latest technology available. Pair of Class 1 (eye-safe) laser beams placed at right angles towards the direction of traffic are being interrupted by vehicles passing, enabling speed detection and capture of digital image. A third laser beam allows the system to intercept the position of each vehicle, thereby optimizing the whole operation.

SPECIAL FEATURES

- **Autovelox 105 SE** is a multipurpose equipment. The following parameters may be enforced:
  - speed
  - tailgating (distance between cars) on single or multi-lane roads
  - bus lane
  - cars only

- Can be mounted, without any modification
  - at a stationary site, for an automatic unattended operation
  - on a tripod, or
  - in a patrol vehicle, for an attended operation

- Operates in Italian, English, Chinese, Malaysian, and many other languages

Vehicle mounting

Camera assembly

- May operate from the left or right side of the road. This feature allows, for example, detection from a cabinet placed between two carriageways

- May transmit the captured images to a downstream patrol by means of a wireless non-interceptable system, in order to issue the ticket on the spot

- Once installed, it requires no intervention. The color touch screen (no keyboard) and the intuitive graphical user interface, developed under Microsoft Windows NT, allows for an extreme ease of use

Each violation triggers two digital pictures: the wide-angle image provides an overall view of the detection area, where as the zoom image gives a close-up of the rear number plate.


Zoom picture

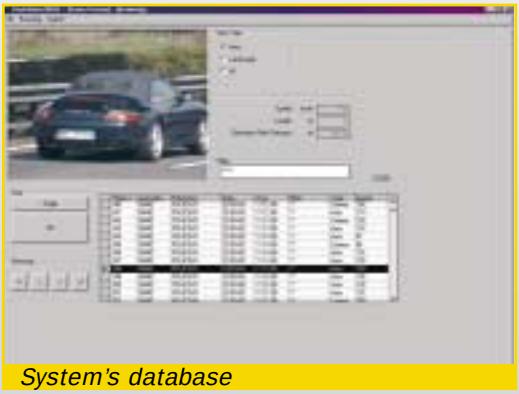
Data are first temporarily stored on hard disc and then permanently stored on WORM compact disc. Storing all information on a non-rewritable CD ensures that they are original evidences and can therefore be used in court. Remote data transmission is also protected against tampering through the use of encryption systems.

In order to operate on multi-lane roads and to frame the number plate, **Autovelox 105 SE** is equipped with a truly innovative device: the laser detector recognizes the exact position of the infringing vehicle (1st, 2nd or 3rd lane) and immediately moves the camera set to the correct location to capture the event.


Wide Angle picture

The potential of the **Autovelox 105 SE** can be fully exploited in the automatic unattended operation mode, which allows complete automation of the process.

Such sites have proved to be an effective means for reducing vehicles' speed during road safety campaigns. These devices allow for a more effective speed enforcement and act as a deterrent over speed offences by simply being present, though not equipped.


System's database

The experience acquired trough many years of achievements in the field of speed enforcement has now allowed Sodi Scientifica to provide the AutoBox 105. It consists of a heavy duty roadside cabinet with limited weight and overall dimensions. Therefore, it may be easily moved and ground-anchored by means of braces. Proper supports allow for the **Autovelox 105 SE** to be quickly mounted and removed from the cabinet.

Through a data network and the REDS (Remote Encrypted Download Service) software, live images are displayed and retrieved by a central computer via fiber-optics, GPRS or UMTS and the operator can manage all enforcement parameters (e.g. speed or tailgating limit).


Equipment operating within the Mount Blanc Tunnel

Autovelox 105 SE

Digital Video Laser Speed Enforcement System

Autovelox105 speed camera site

COMPANY
WITH QUALITY SYSTEM
CERTIFIED BY DNV
ISO 9001

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