# SENSYS

# Red-light
## Safety System

**RLSS**

DROPLET
CABINET

*RS242*



**Advanced sensors and systems
for traffic information and safety**

# Red-light

## *Safety System* RLSS

Red-light jumping creates considerable risk for collisions and it is also a huge risk to the pedestrians.

SENSYS® RLSS (Red Light Safety System) relies on the advanced multi-tracking radar RS242 that controls a section of road measuring 150 metres. In our Red Light Safety System (RLSS), the operator configures two report lines displaying two pictures: the first showing vehicle behind the stop bar while the traffic light is red and the second shows the violating vehicle past the stop bar and intruding into the intersection. The second picture may be taken either by the same camera from the rear, or by a second camera located across the intersection. The latter option allows for driver identification should such be required by law. The system also captures a high resolution image of the vehicle's license plate. To create 100% picture identification, Sensys also offers a full motion video clip of the violation. This complete evidence package is practically impossible to refuse in court. Sensys believes that the most important requirement for an automatic traffic enforcement systems is the Unconditional Guarantee that not one single driver who did not commit the moving violation is ever accused.

RS242 is capable of *classifying* vehicles by analyzing the frequency response from the vehicle. The classification is divided into two classes:
• Class S, small vehicles: cars and motorbikes
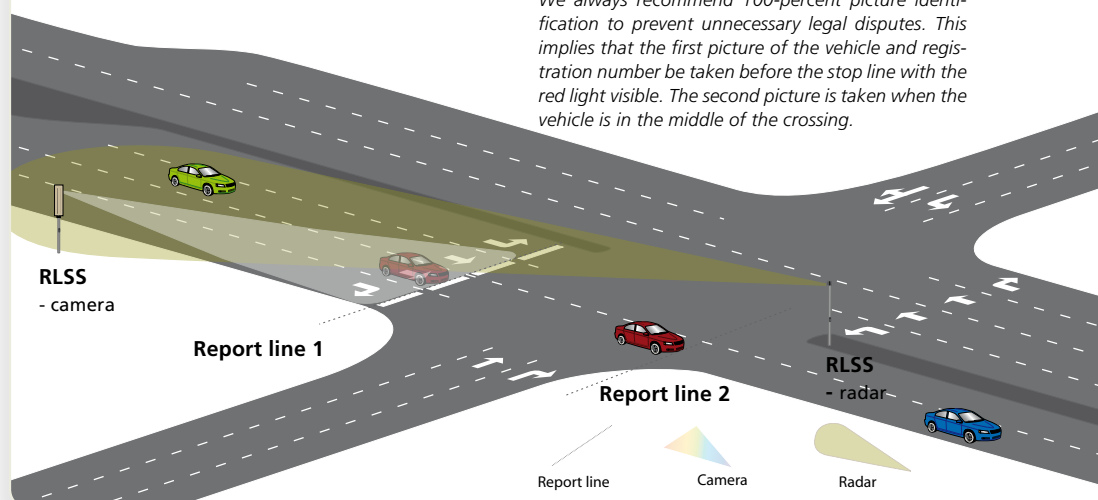• Class L, large vehicles: trucks
Each class may have their individual speed limits.
RS242 is capable of measuring the sidewise position of the vehicle. By using this technique more complicated road layouts can be handled, for example; turning lanes, hard shoulders, one way lanes, or different red-light phases for each lane. For each lane you can set different speed limit, report line, direction etc.



*The RLSS operates from the side of the road, tracking traffic for speed and distance. Tracking starts at 150 meters and vehicles running against red light trigger the system at a set report line.*

*Two digital color pictures are taken of the offence. One rear and one front picture, or two rear pictures, regarding of the requirements.*

*We always recommend 100-percent picture identification to prevent unnecessary legal disputes. This implies that the first picture of the vehicle and registration number be taken before the stop line with the red light visible. The second picture is taken when the vehicle is in the middle of the crossing.*

**RLSS**
- camera

**Report line 1**

**Report line 2**

**RLSS**
- radar

Report line    Camera    Radar

## FLEXIBILITY

The systems are installed in cabinets, mounted on a pole. The cabinets are made for all weather conditions and can be delivered with heaters and fans or air conditioning.

All units in the system are modular and rack-mounted for easy inter-changeability.

## PROPERTIES

This is a selection of the most important properties for the system. Visit our website for a complete list of properties.

» High-resolution digital images, outstanding picture quality

» Continuous speed verification by applying two independent methods

» Number plate identification

» Secure remote communication and setup

» Two images taken for evidence recording of vehicle at red light before stop bar and after stop bar

» Provides information about time, date, location, speed, speed limit, red-light time, grace time

» Rear or front photography

» Non-intrusive technology, no devices buried in the road surface

» Uses Sensys' unique multi-tracking radar

» Tracks and measures each vehicle 21 times per second

» Triggers at an adjustable speed limit and report line

» Single or dual camera post option available

## OPTIONS

Sensys offers an impressive range of options for all systems. The options below are the most common ones for the RLSS system. Visit our website for a complete list of options.
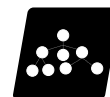
**ALARM**
The alarm becomes activated should someone try to sabotage or break into the cabinet. Units that may be connected to the alarm system include door switches, tilt and vibration sensor.

**VIDEO**
A video sequence is added to the evidence package as supplementary evidence to the high-resolution still image.

**SERVICES**
Sensys can provide Traffic Safety Expertise, enforcement strategies, project management, installation, training etc.

**SPEED ENFORCEMENT**
Vehicles moving within the radar lobe are tracked and the speed is determined through Doppler and checked by distance over time. At the defined report line a picture is taken should there be a speed violation.

## HIGH QUALITY DIGITAL IMAGES

SENSYS Traffic can help you drive behavioral change with measurable effects. Sensys is the provider of intelligent solutions for traffic safety and traffic informatics that:

» has a proven contribution to traffic safety improvements in the countries that now have the lowest fatality rates,

» delivers a range of cost-effective products, based on non-intrusive sensors,

» assures customer support throughout the product life cycle,

» offers 100% legal security for enforcement products – we have never lost an appeal against a violation due to technical reasons,

Unlike others, Sensys Traffic's portfolio is based on proprietary multi-tracking radar technology development,

Unlike others, Sensys Traffic can offer Swedish Vision Zero knowledge and expertise to formulate and implement your strategies and to measure its effects.

*Sensys Traffic*
*endless*
**possibilities...**