



LIDAR VIDEO SYSTEM

NEW!!



- **Built-in 4" Touch-screen**
- **Validates violation with video evidence**
- **License Plate legible from considerable distance**
- **Pair of high-sensitivity long-focus and overview cameras**



OVERVIEW

LIRA, the latest development of SIMICON Company, is designed to detect vehicle speed, measure the distance and record traffic violations.

The key feature of LIRA design is embedded laser speed sensor and two video cameras (overview and long-focus). This solution allows simplifying aiming at a particular car in a traffic flow. And the most important, it allows reliable determining the violator as a license plate is legible from a considerable distance.

LIRA represents a single-block device with a detachable handle. It is designed to be operated in stationary mode only and able to track oncoming and outgoing targets simultaneously both in hand-held or tripod-mounted configurations.



BASIC FUNCTIONS

- Speed and distance measurement.
- Simultaneous video recording in two modes (overview and zoom).
- Simultaneous record of road traffic events in two ways: in "normal" mode to get wide-angle view and facilitate event analysis and in "zoom" mode to get the clear image of car license plate.
- Stationary operation in hand-held or tripod-mounted configuration.
- Automatic recording and saving the video clip in case of overspeeding.
- Storing video clips and relevant data in non-volatile memory (SD card) in encoded format. SD cards of up to 32 GB capacity are supported.
- Clear recognition of license plate number at distances of up to 180 meters.
- High sensitivity of the cameras makes low-light surveillance (in the twilight) possible.
- Displaying of target image along with measured speed, distance, date, time and current measurement mode.
- PC software for data transfer and data integrity verification (included into delivery set). This software also allows printing document which contains set of images to validate a violation event.
- Recharging from car's lighter socket.



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ADDITIONAL FEATURES

- Easy-to-use touch-screen LCD and remote control.
- Easy and user-friendly interface.
- Ability to record and store video clips without speed measurements (Video Only Mode).
- Additional battery pack (with standard photographic tripod mounting) which provides at least 11 hours of operation.
- Automatic self-testing of main operation units at start-up.
- Efficient energy-saving system (automatically switches to "standby" mode when not in use).
- Calibration mode to test accuracy of laser aiming
- Ability to connect to external navigation module to determine the GPS coordinates, and to bind them to recorded images.



Tripod-mounted operation
(using Additional Battery Pack)



SPECIFICATIONS

PARAMETER	VALUE
Laser Wavelength	905 nanometers
Beam Divergence	2.5 milliradians
Reflectorless Range	400 m
Maximum Range	1000 m
Speed Range	10-300 km/h
Speed threshold setting	step 1 km/h
Distance mean deviation	± 5 cm
Speed Accuracy	± 2 km/h
Measurement Time	0.4 s
Display Resolution (Speed)	1 km/h
Display Resolution (Range)	1 cm
Measurement Type	Auto mode and single-shot
Camera Lens	2 cameras (F16 mm, F160 mm)
Clear vision range for car license plate number	180 m
Capture Data Storage	Removable SD and SDHC card (supports up to 32 GB)
Number of images stored in archive	up to 32000 images
Eye Safety	Class 1 IEC 60825-1
Communication	Ethernet, port RJ45
Display	Built-in 4" color Touch-screen, 480x272 pixel
Environment	IP65
Temperature Range	-10° C to +60° C
Battery operation time	up to 4 hours (Li-ion battery pack)
Supply voltage (automobile charger)	11-16 V
Weight ²	1.60 kg
Size	174 x 135 x 115 mm

² - With handle.