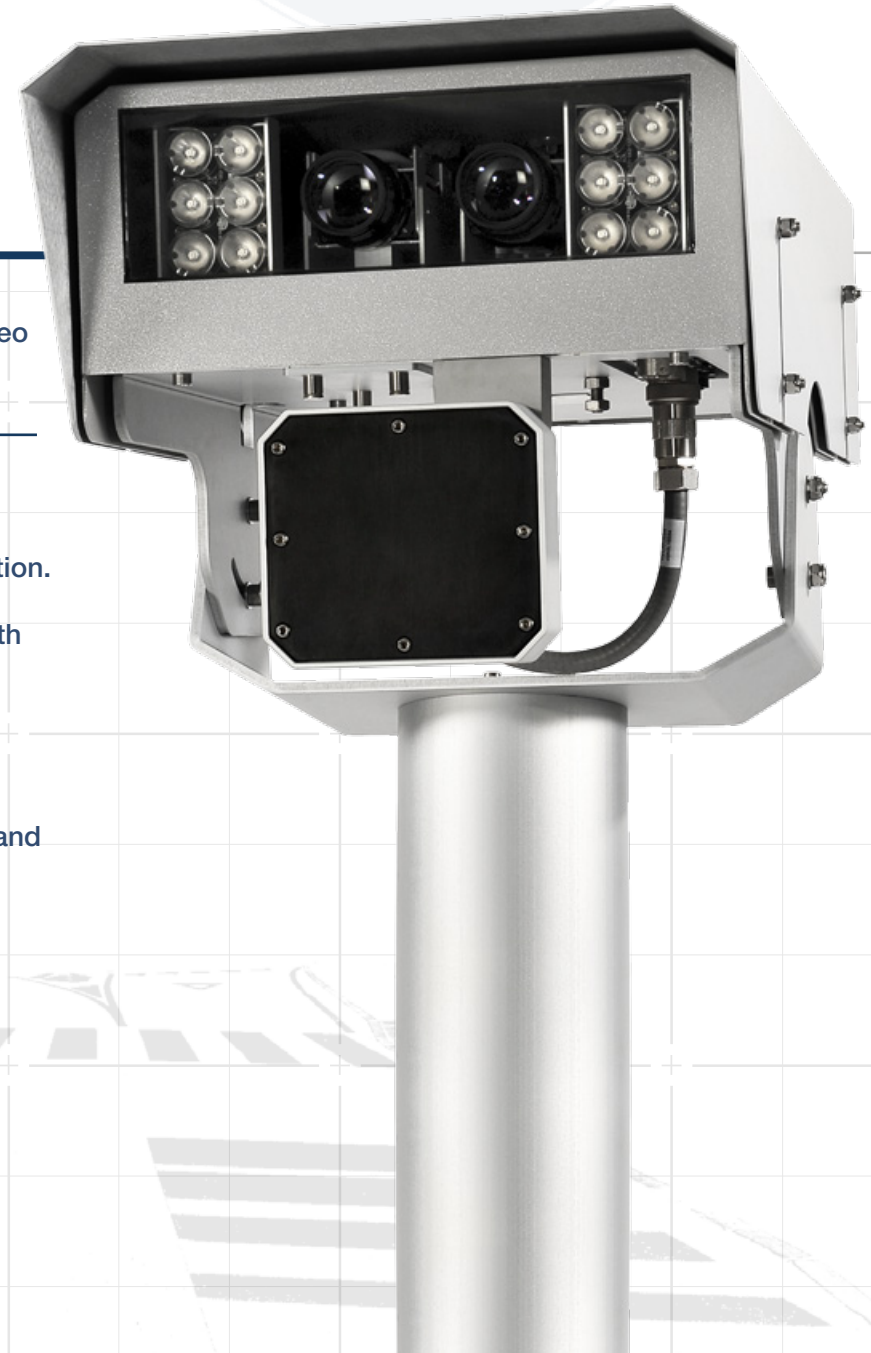


Velocar Red&Speed EVO Radar

Multi Lane Speed and Traffic Light Enforcement

Velocar Red&Speed EVO (VRS-EVO) is a single and compact solution for multi lane traffic enforcement and monitoring applications. Speed enforcement is based on accurate and reliable multi lane radar. Images and data of all vehicles and traffic statistics are available for analysis and police investigation. VRS-EVO is fully integrated with Velocar Security Portal (VSP). VSP is the web based Velocar software solution for back office and systems monitoring.



- Functionalities: Speed, Average Speed and Traffic Light Enforcement, Free Flow ANPR.
- Multiple functionalities on each lane can be activated.
- Each lane is independent and can be configured individually.
- Integrated ANPR engine with country recognition, certified up to 280 Km/h.
- Speed Enforcement: radar based detection, certified up to 280 Km/h for approaching and receding traffic.
- Average Speed Enforcement: no extra infrastructure required, data exchange and events matching between gates are performed inside VRS-EVO.
- High quality H.264 color video streaming.
- Up to three lanes.
- Road side or gantry installation.
- High resolution cameras both gray level and color.
- Dual independent invisible infrared illuminator.
- GPS receiver for time sync and data geotagging.

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Multi Lane Speed and Traffic Light Enforcement

GENERAL FEATURES

Lanes	Independent lanes with multiple functionalities.
ANPR Engine	Integrated ANPR engine with country recognition. Certified up to 280 Km/h.
Security	Digital Sign and AES encryption.
Remote Control	Web services.
Configuration	Integrated web based interface.
Privacy	Automatic mask of vehicle's plate not involved in the violation.
Text Overlay	Fully configurable also on multiple lines. Support of UNICODE characters sets.
Real time vehicles control	Checking of all vehicles integrated with VSP.
Traffic statistics	Integrated with VSP. Data of every single vehicle are available.

HARDWARE FEATURES

Cameras	High resolution graylevel camera dedicated to ANPR High resolution color camera for scene overview.
Memory	SSD SLC 32GB
Illuminator	Dual independent modules with invisible infrared LED.
Time sync and position	Integrated 32 channels GPS and GLONASS.
Operating temperature	-40 °C +55 °C
Network	1x Gigabit LAN
IP rating	IP66
Housing certifications	Salt spray sulphur dioxide EN 60950-22.
Power requirements	24 VDC 38 W
Mechanical	Aluminium and inox steel. 324x602x320mm (W x H x L)
Regulations	CE, RoHS

SPEED ENFORCEMENT

Lanes management	Up to two also with different directions.
Detection technology	Radar certified up to 280 Km/h approaching and receding.
Vehicle classification	Classification with configurable speed limits on each lane.
Violation documentation	Multiple graylevel and color images.

AVERAGE SPEED ENFORCEMENT

Lanes management	Up to three also with different directions.
Detection technology	Radar or Free Flow (image processing).
Gates management	Zero infrastructure, required features are performed inside VRS-EVO.
Gates data exchange	Any kind of network (also 3G/4G).
Violation documentation	Multiple graylevel and color images.

RED LIGHT ENFORCEMENT

Lanes management	Up to three lanes.
Detection technology	Real time image processing.
Vehicle classification	Real time image processing.
Traffic light	Up to two traffic light.
Traffic light status detection	Through digital signals or through image processing.
Violation documentation	Multiple graylevel and color images and video H.264 (up to 40 seconds) with pre and post recording.
Red and yellow time	Measure of yellow time and red progressive time.

Models	Rev	Description
VRS-EVO-R	0	Up to two lanes
VRS-EVO-R	1	Up to three lanes

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