

Speed Limit Violations Detection System SecurOS Velox



SecurOS Velox is a ready-to-use all-in-one device designed for real-time traffic violations detection and automatic license plate recognition (ANPR) of all passing vehicles

SecurOS Velox is designed to monitor road traffic and detect all violation cases 24 hours a day under any weather conditions. It includes high quality image capturing camera, integrated power efficient illumination, processing unit for number plate recognition, automatic self-control services and remote management GUI. High-end microwave radar in combination with high resolution camera can track up to 32 vehicles simultaneously on up to 6 traffic lanes and automatically provide evidence of detected violations.

Traffic violations detection

SecurOS Velox provides automated detection of the following traffic violations:

- Exceeding vehicle speed limit
- Violation of regulations related to vehicle position on the road, oncoming traffic or overtaking

Additionally you have:

- Reports on all passing vehicles for ITS purposes
- Detecting vehicles on the wanted list for law enforcement applications



Designed to work

- Available in mountable or portable design granting the same level of measurement quality
- Low power consumption (maximum 110 W) permits using a small capacity battery for the mobile installation SecurOS Velox or connecting the fixed installation SecurOS Velox to a street lighting line

Additional external lights design



- Can be equipped with additional mountable external lights to provide clearly visible images vehicles in utter darkness
- High reliability: MTBF 35,000 hours
- Low weight: maximum 14 kg
- High protection class — IP65
- Recognition of multiple types of license plates (over 60 countries)
- Possibility of installing on existing supports on the roadside, without erecting consoles or gantries
- A number of radar frequency ranges, allowing to use the radar in combination with other devices, or use a number of products in one location without mutual interference
- Self-diagnostics of SecurOS Velox main components
- Data protection from unauthorized access
- Automatic determination of geographic coordinates
- Built-in correction of date and time without the need to connect to external NTP servers
- Built-in Wi-Fi

SecurOS Velox solution features:

- Comes as single ready-to-use device
- Monitoring of up to 6 lanes in both directions with a single device
- Tracking up to 32 targets (vehicles) simultaneously
- Support of independent speed limits for each lane (upper and lower)
- Support of independent speed limits for cars and heavy trucks/buses
- License plates recognition of violating vehicles and identification of violator vehicle in traffic flow
- An exceptionally high quality of violation evidence during daytime and at nighttime, and under any weather conditions
- A high percentage of positive violation detection results: minimum missed violations and low percent false positive detection results
- The equipment is supplied as a ready-to-use unit
- Built-in integration capabilities to automate evidence processing by authorities and simplify tickets issuing
- Functioning as a standalone system or as a part of a distributed system combining a number of SecurOS Velox and/or SecurOS Crossroad