

Complex Traffic Violations Detection SecurOS Crossroad



SecurOS Crossroad is an edge-to-edge solution for traffic violations detection. It combines specialized ruggedized hardware components and software for high precision detection and automatic license plate recognition (ANPR).

Overview

The solution is supplied with onboard processing, environmentally protected ready-to-mount cases and complementary illumination. Crossroad system is designed to monitor multiple vehicles and pedestrians behavior at crossroads or in potentially dangerous streets and automatically detect suspected traffic law violations.

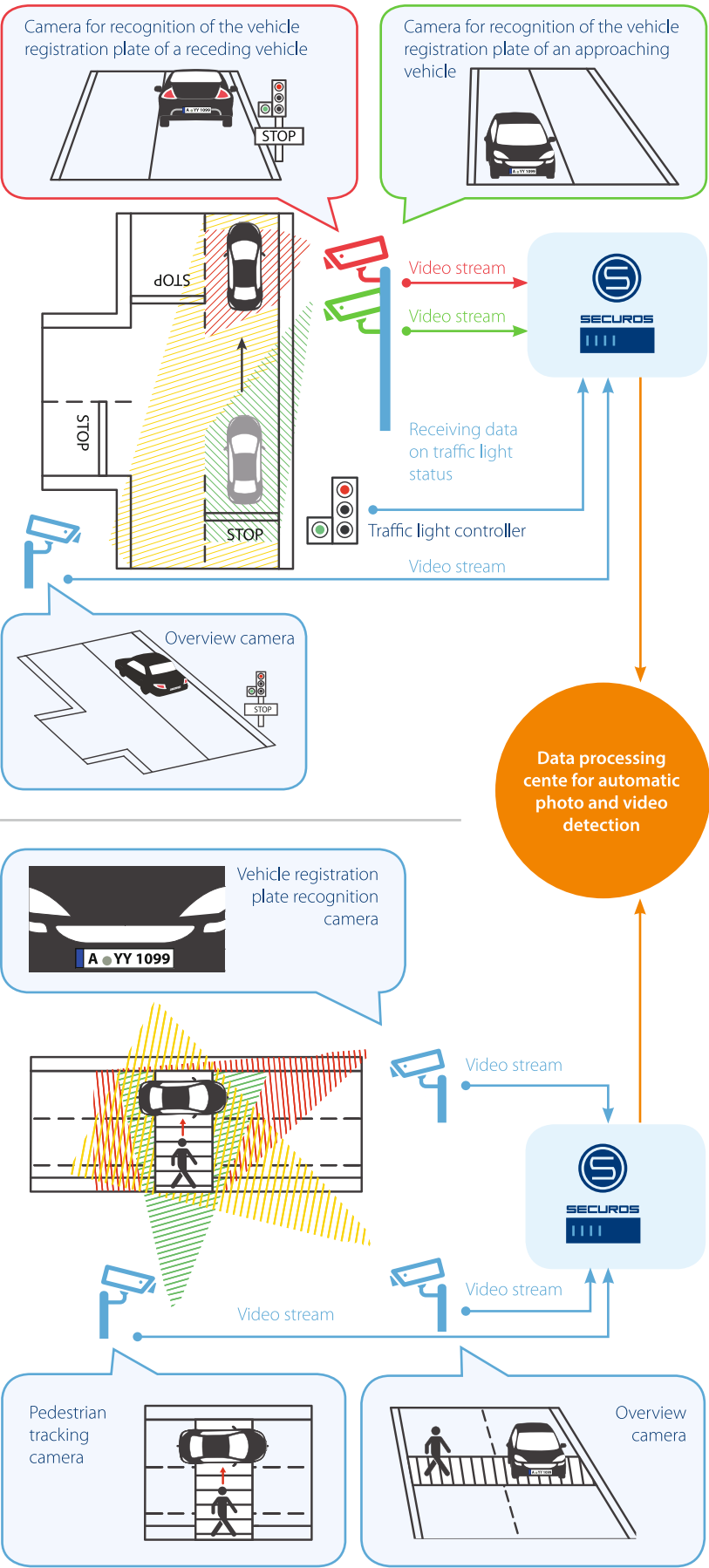
SecurOS Crossroad automatically detects driving red light, driving stop line, failure to give way to pedestrians, forbidden turn, driving opposite direction, forbidden turn and failure to follow road markings violations.

SecurOS Crossroad provides automated detection of the following traffic violations

- Driving red lights
- Crossing a stop-line when red traffic light is on
- Bypass of closed or closing rail road crossing gates or entrance to railway crossings during prohibitory signals (typically red flashing lights); crossing the railway track outside the permitted zone
- Driving in lanes designated for public transportation, bicycle lanes or pedestrian paths and sidewalks
- Driving against traffic or driving in prohibited areas
- Turn or U-turn violations of the traffic signs or markings on the speedway
- Movement in the opposite direction on one-way roads
- Failure to let pedestrians cross the road on a crossing
- Exceeding vehicle speed limit



Sufficient evidence for every violation



SecurOS Crossroad solution features:

- Generates a high percentage of positive violation detection results: a minimum number of missed violations and a minimum number of false positive detections.
- Yields an exceptionally high quality proof of violation under any weather conditions (due to the use of video data and specifically engineered hardware).
- Scalable solution suitable for every possible road configuration.
- Ability to integrate with violation processing software.
- Ability to integrate with external databases to enable automatic vehicle data search.
- Reports of vehicles which passed traffic check posts.
- IP-cameras of SecurOS Crossroad can be used as a part of a «Safe City» urban surveillance system.
- 24/7 video recording in automatic mode for further detailed analysis.
- SecurOS Crossroad algorithms adequately assess the vehicle paths, vehicle speed changes, movement of pedestrians, possible obstacles in the frame / scene (foliage, snowing, etc.).
- Configuring separate violation detection scenarios for each individual system is supported.
- SecurOS Crossroad provides an adequate evaluation of the traffic situation and minimize the number of undetected violations or false detection events