SecurOS™ Crossroad

Complex Traffic Violations Detection

SecuroOS™ 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 (ALPR).

Overview

The Solution is supplied with on board processing, environmentally protected ready-to-mount cases and complementary illumination. Crossroad system is designed to monitor multiple vehicles and pederastians behavior at crossroads or in potentially dangerous streets and automatically detect suspected traffic law violations.
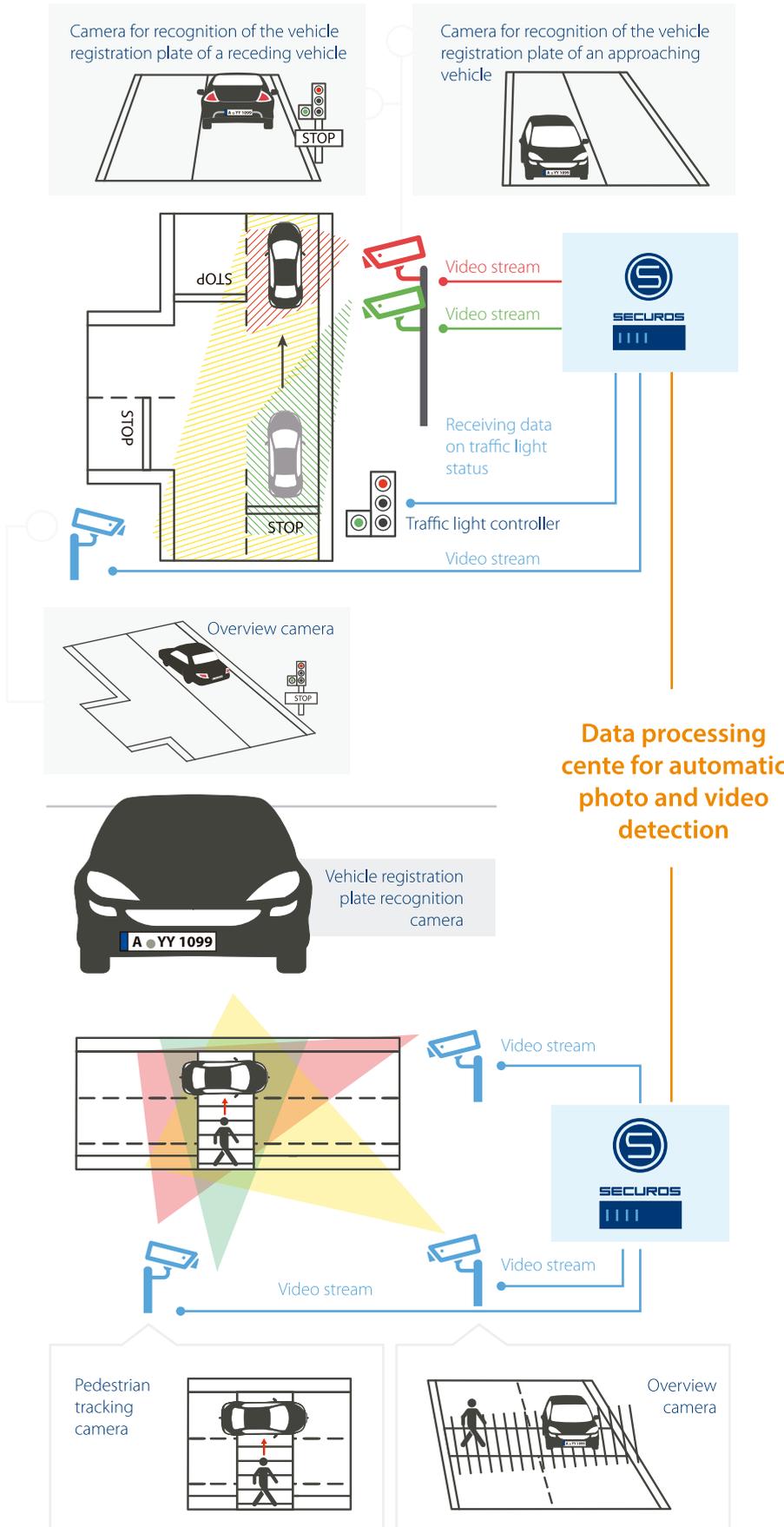
SecurOS™ Crossroad automatically detects driving red light, driving stop line, failure to give way to pederastrians forbidden turn, driving oppositte direction, forbidden turn and failure to follow road marking violations.

SecurOS™ Crossroad provides automates 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 duringprohibitory signals (tipically red flashing lights); crossing the railway track outside the permited zone

Driving in lanes designated for public transportation, bicycle lanes or pederastrian paths and sidewalks

Driving against traffic or driving in prohibited areas

Turn or U-turn violations of the traffic signs or marking on the speed way

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

Camera for recognition of the vehicle registration plate of a receding vehicle

Camera for recognition of the vehicle registration plate of an approaching vehicle

STOP

Video stream

Video stream

Receiving data on traffic light status

Traffic light controller

Video stream

Overview camera

Data processing cente for automatic photo and video detection

Vehicle registration plate recognition camera

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Video stream

Video stream

Video stream

Pedestrian tracking camera

Overview camera

SecurOS™ Crossroad solution features:

· Generates a high percentage of positive violation detection results: a minimum number of missed violations and a minimim number of false positive detections.

· Yields an excpetionally 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 pedetrians, possible obstacles in the frame/ scene (foliage, snowing, etc.).

· Configuringseparate 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