

ROAD SAFETY

Traffic Violations Detection



about ISS

Recognized Leader in Video Management and Analytics Solutions – operating in CCTV since 1996

IMS Research:

- Ranked **#1** in Latin America
- Ranked **#6** in Americas
- Ranked **top 5** in EMEA
- Ranked **top 10** worldwide

- Ranked **top-30** Russian high-tech & fast-evolving companies (NATIONAL CHAMPIONS)
- The resident of the **Skolkovo IT-cluster** (Science & High Technology Russian Business Area)



In 2016 ISS company became one of the 30 participants of the priority project of the Ministry of Economic Development and Trade, Russian Federation:
NATIONAL CHAMPIONS



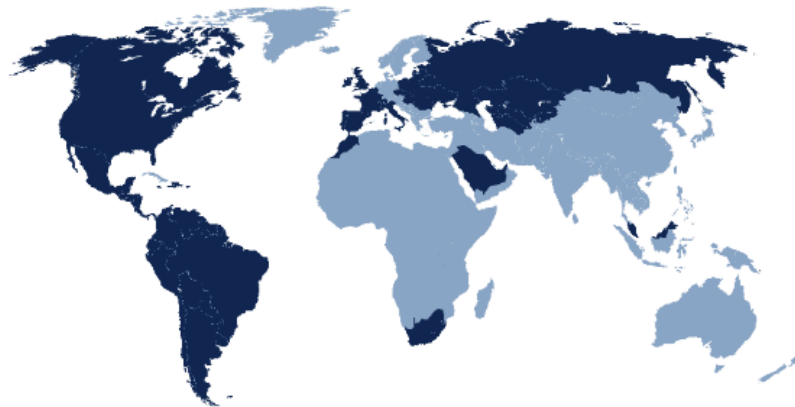
about ISS

Turning Video Management into Video Intelligence



Global Footprint

- Over 100,000 successful deployments in over 50 countries
- More than 130,000 servers & over 2 million cameras under SecurOS VMS command
- Private labeled by IBM in EMEA



SecurOS – a Complete Security Eco-System



Focus

ISS SecurOS™ focuses on large mission critical applications security systems





Traffic violations detection

ISS provides automatic registration of traffic violation incidents, including:

- Failure to comply with speed limits
- Failure to provide the benefits to pedestrian traffic (at zebra crosswalk)
- Red light violation detection
- Traffic violations across railroad tracks
- Violation of prescribed traffic signs or road markings
- Driving on a bus lane
- Driving in an oncoming traffic lane, etc.



ISS software-hardware based solution for traffic violations detection



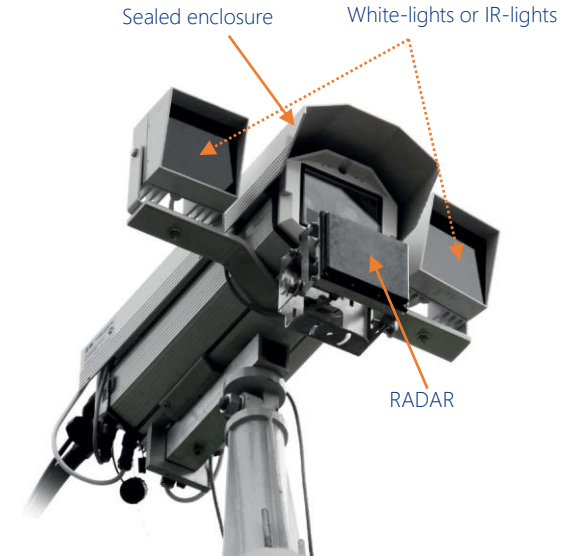


Turnkey Solution for Traffic Violations Detection > Speeding

- Monitors up to 6 lanes for 2 cameras set (or 4 lanes if 1 camera used).
- Generates a high percentage of positive violation detection results: a minimum number of missed violations and a minimum number of false positive detection results.
- Unbeatable precision and quality in both day and night modes under any weather conditions.
- License plate recognition and speed measurement for vehicles with violations.
- Ability to integrate with violation processing software.
- Compliant with international measurement standards and recommendations.
- Ability to integrate with external databases to enable a target vehicle search.
- Creates reports on vehicles which passed traffic check posts.
- License plate recognition works with more than 60 country license plates.



TRAFFIC SCANNER CM



Fixed Kit mounted on a support

- A ready-to-use unit.
- High reliability (over 45,000 h.)
- Low weight: maximum 14 kg.
- High protection class - IP65.



Portable Kit mounted on a tripod

Turnkey Solution for Traffic Violations Detection > at road intersection

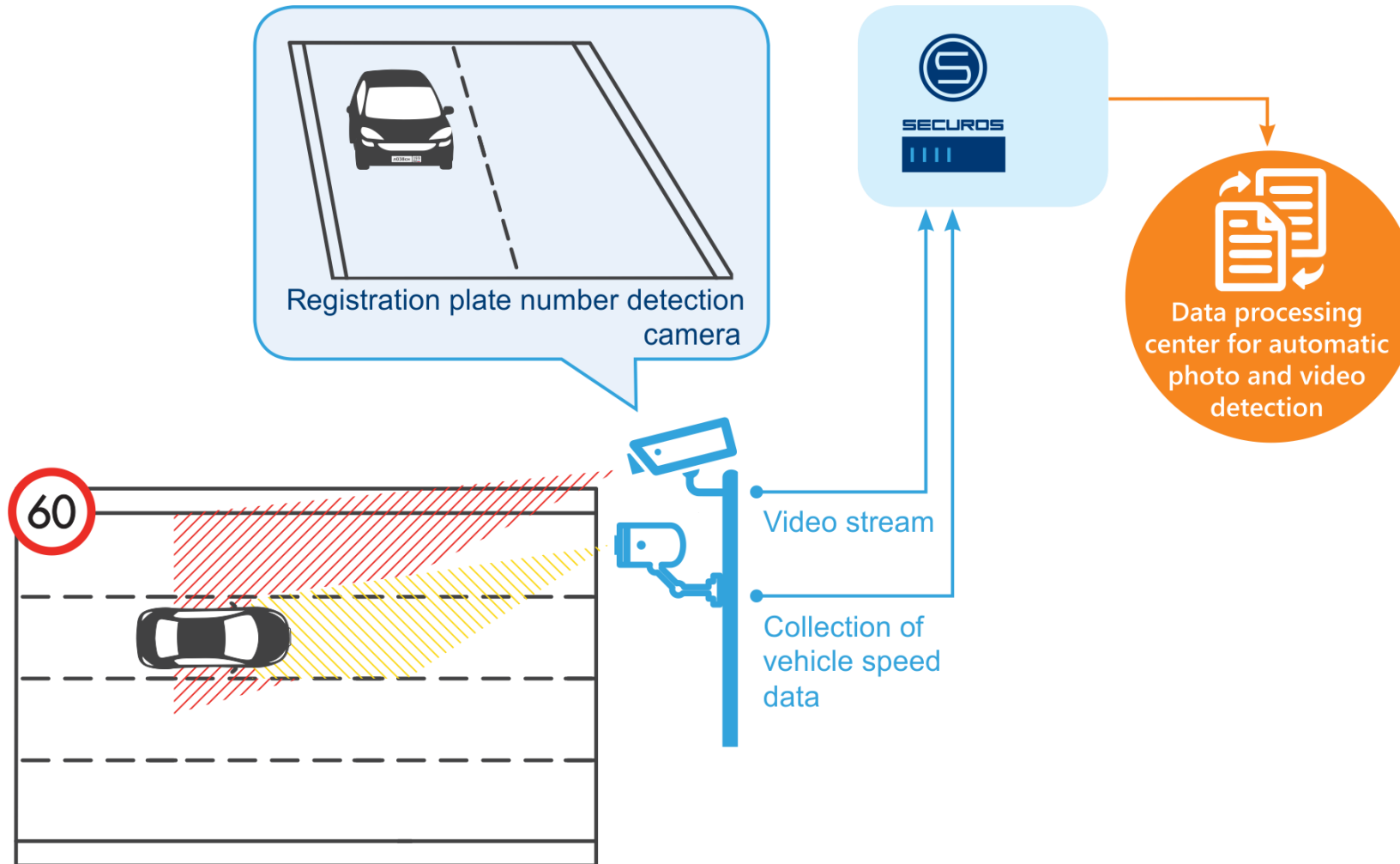


- Generates a high percentage of positive violation detection results: a minimum number of missed violations and a minimum number of false positive detection results.
- Yields an exceptionally high quality proof of violation under any weather conditions (due to the use of video data).
- Scalable solution suitable for every possible road configuration.
- License plate recognition for Vehicle with violations.
- Ability to integrate with violation processing software.
- Ability to integrate with external databases to enable a target vehicle search.
- License plate recognition works with more than 60 country license plates.
- Creates reports of vehicles which passed traffic check posts.
- System cameras can be used as a part of a 'Safe City' video surveillance system.
- 24/7 video recording in automatic mode for further detailed analysis.

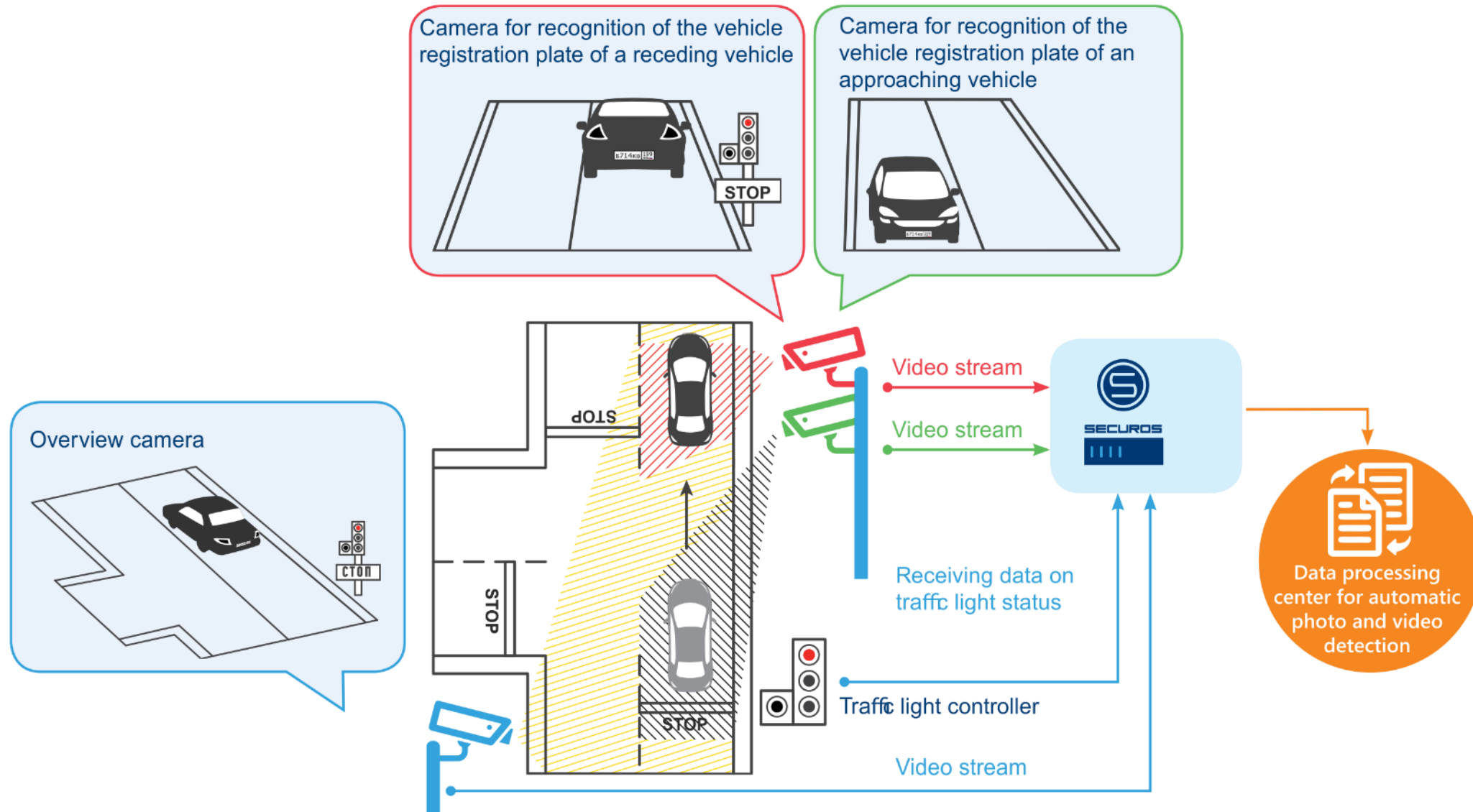
TRAFFIC SCANNER K



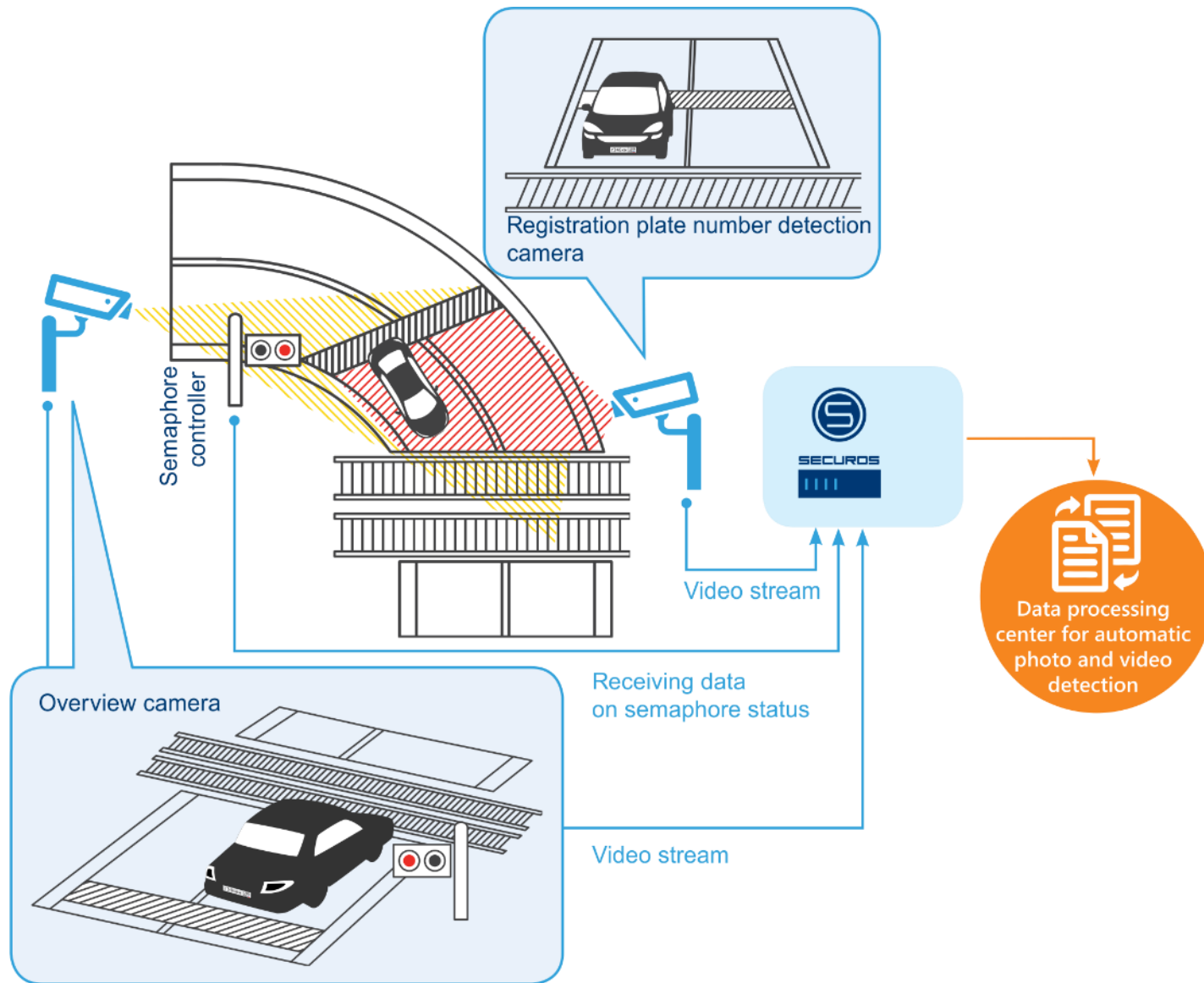
Traffic Violations Detection > Instance: Speed limit violation



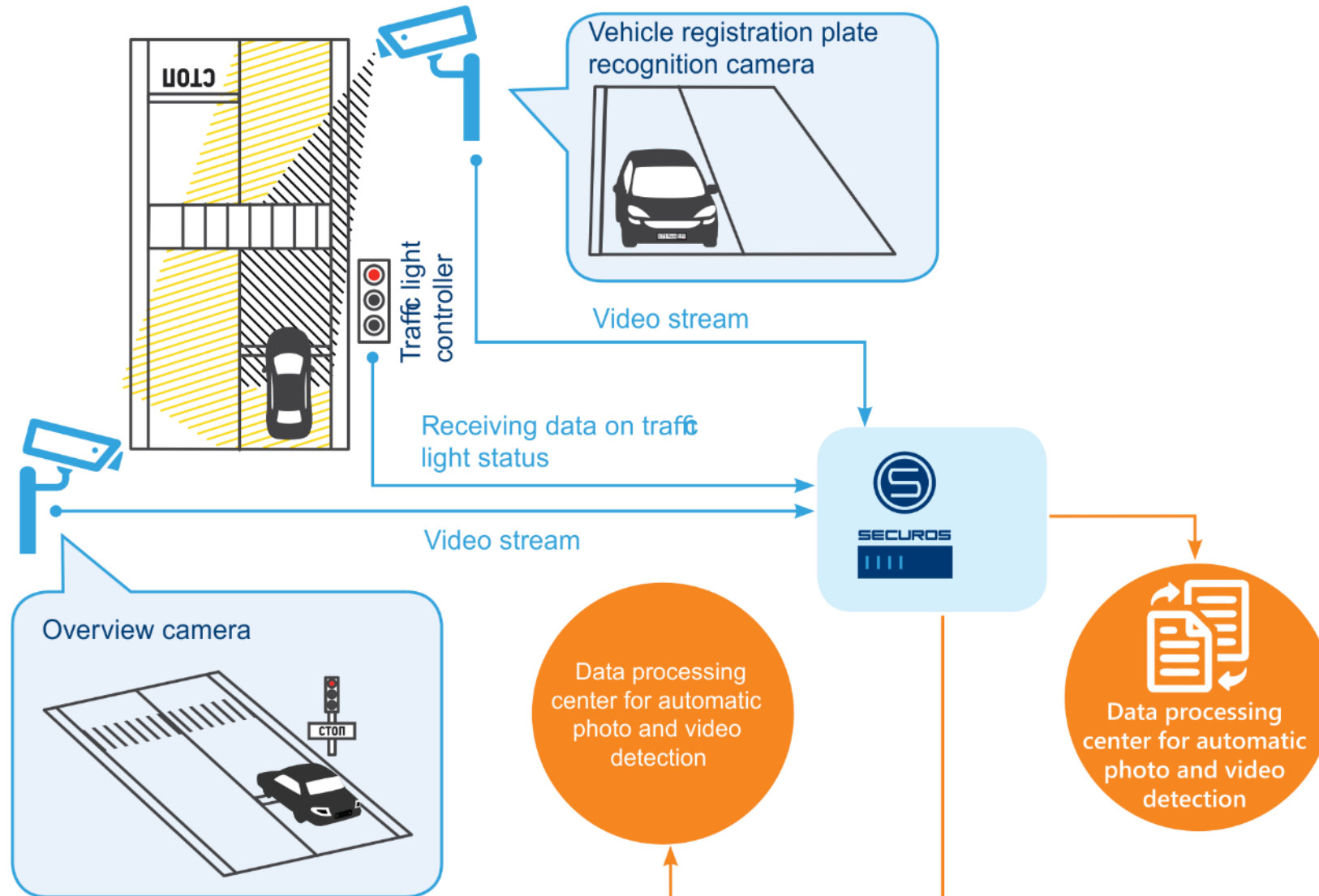
Traffic Violations Detection > Instance: Running a red traffic light



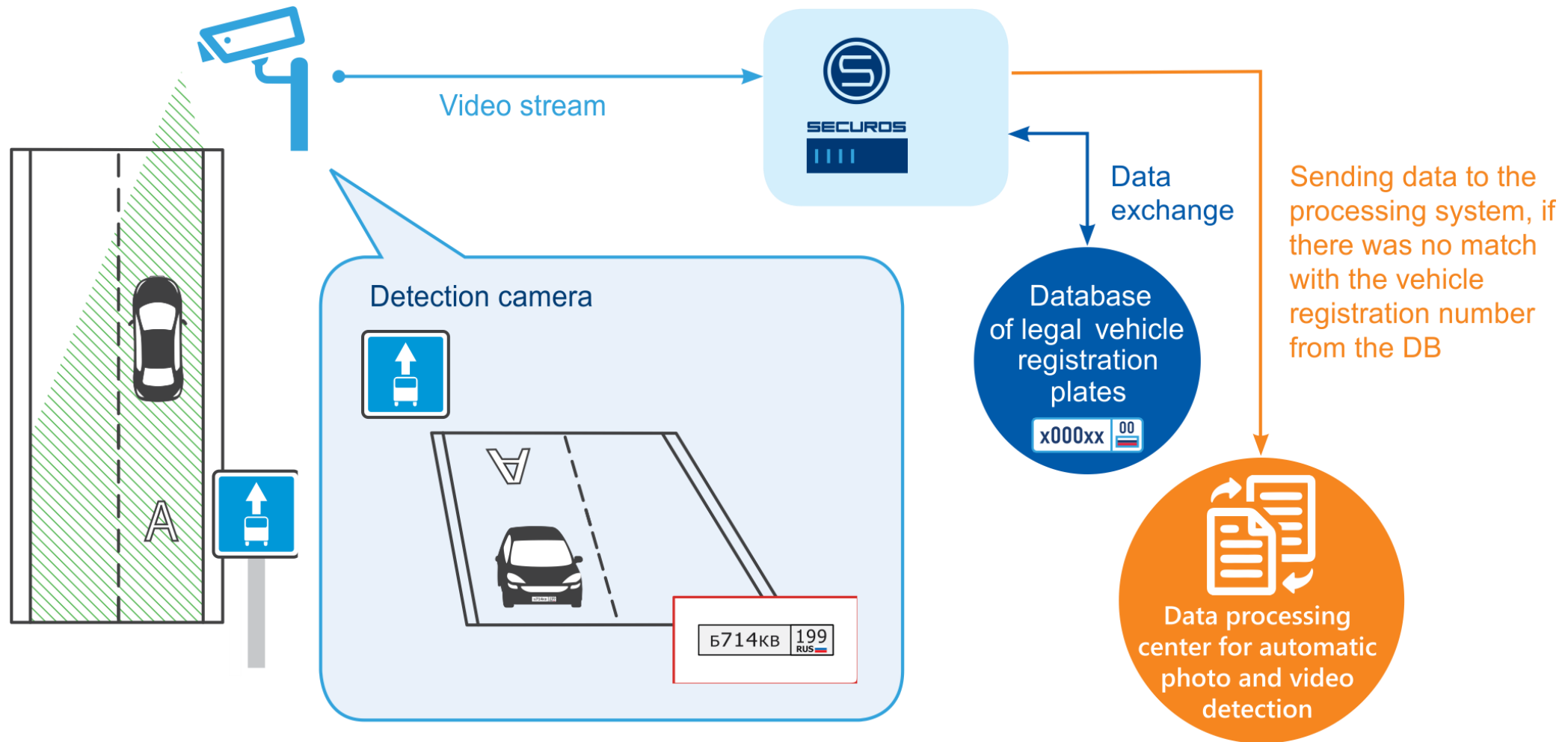
Traffic Violations Detection > Instance: Crossing railway tracks



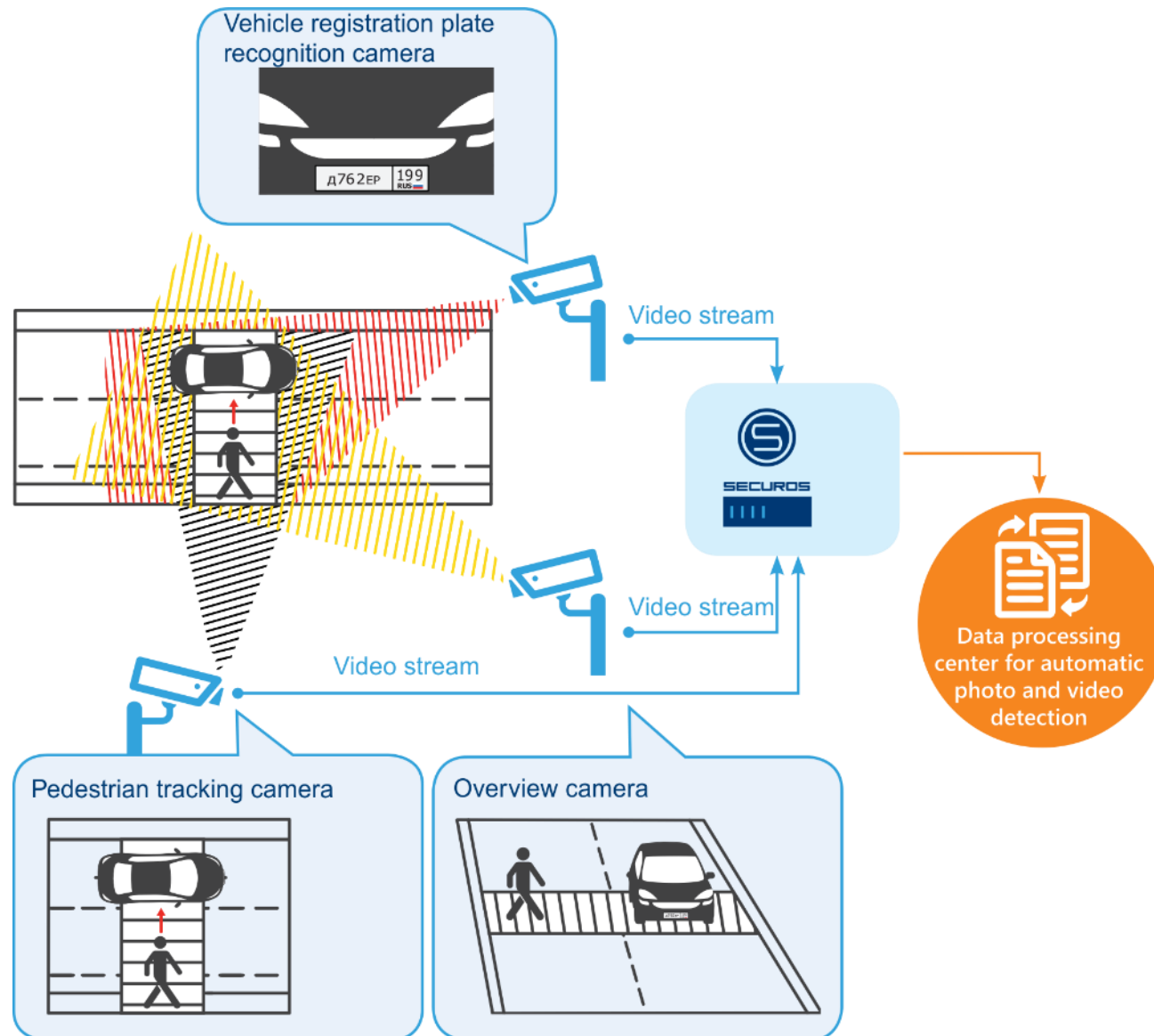
Traffic Violations Detection > Instance: Stop line



Traffic Violations Detection > Instance: Bus lane



Traffic Violations Detection > Instance: Zebra crossing



[illegible]

List of key references > Russian Federation

Kaliningrad region	• CCTV monitoring - Urban Surveillance • Traffic incidents detection • Situation awareness and service analytics • Monitoring and Control Center
Voronezh region	• CCTV monitoring - Urban Surveillance • Traffic incident detection • Monitoring and Control Center • Events and incidents processing • Integration with Public Safety Answering Point system
Nizhny Tagil city	• Traffic incident detection: speeding, red light violations and exiting onto stop line (15 points of control)
Tarko-Sale town (the Yamal-Nenets Autonomous District)	• CCTV monitoring - Urban Surveillance • Traffic incident detection • Integration with Centre for Automated Recording of Traffic Offences • Monitoring and Control Center
Nizhnevartovsk city	• Traffic incident detection • Monitoring and Control Center
Astrakhan city	Traffic incidents detection: • speeding • red light violations and exiting onto stop line • pedestrian crossing (zebra crosswalk) • curve in case of prohibitory road sign / traffic-actuated signal

Nigniy Tagil city



Tarko-Sale town (the Yamal-Nenets Autonomous District)



- CCTV monitoring - Urban Surveillance
- Traffic incident detection
- Integration with Centre for Automated Recording of Traffic Offences
- Monitoring and Control Center

Kaliningrad region



- CCTV monitoring - Urban Surveillance for 5 cities and towns of Kaliningrad region
- Traffic violations detection
- Situation awareness and service analytics
- Monitoring and Control Center



ISS Russia:

Suvorovskaya str. 19/1, Moscow, 107023
+7 (495) 645-2121

www.en.iss.ru, www.iss.ru | info@iss.ru