



## TRAFFIC INCIDENT DETECTION and FLOW ANALYSIS



ISS

SecurOS TRAFFIC is an intelligent image analytics module for ISS SecurOS and provides traffic incident detection, real time traffic flow metrics & statistical analysis.

The system can be used for incident detection or for statistical metrics of a roadway. From accidents, to vehicles traveling too slow or too fast or in the wrong direction, to objects on a roadway, to insufficient gaps in traffic, SecurOS TRAFFIC can immediately alarm and provide complex reaction management. It can also track statistical information on a roadway such as average speed, vehicle counts, and density computations to create extremely robust statistical reports.

SecurOS TRAFFIC can integrate with third party systems to provide a comprehensive traffic management and incident analysis framework.

### KEY FUNCTIONALITIES

no physical detectors or hardware required other than cameras - detectors are virtual

multiple lanes of traffic analysis per channel

registration of incidents and statistical data in any SQL database

search of detected incidents in video archive and/or database

export video with detected incidents to AVI file

configuration may be standalone or distributed server-workstation

remote management and incident reaction

integrates with third party traffic management solutions

### REAL TIME EVENTS

Speed per Vehicle

Vehicle Count

Accidents

Objects on the roadway

Vehicles traveling wrong direction

Roadway conditions

Gap Timing

Occupancy / Traffic Congestion

Speeding / Slow / Parked Vehicles

Unauthorized vehicles (based on shape or speed)

### STATISTICAL ANALYSIS

Average Speed per lane

Aggregate Vehicle Occupancy

Traffic and Gap Analysis

Density & Congestion

Travel time

The screenshot displays the SecurOS TRAFFIC software interface. On the left, a live camera feed shows a multi-lane highway with traffic. The interface includes a toolbar with icons for 'armed', 'zoom', 'img', and 'export'. The main window is titled '1: Camera 1' and shows the date and time 'Aug 27 / 17:41:33'. On the right, there is a 'Real time monitoring' section with a search bar and a 'Traffic statistics' table. Below that is a 'Traffic incidents' table.

Analyser/Lane ID	Speed	Occupancy	Traffic condition
Analysis camera 1	41 kmph	10%	Low traffic
Analysis camera 2	4 kmph	89%	Traffic jam

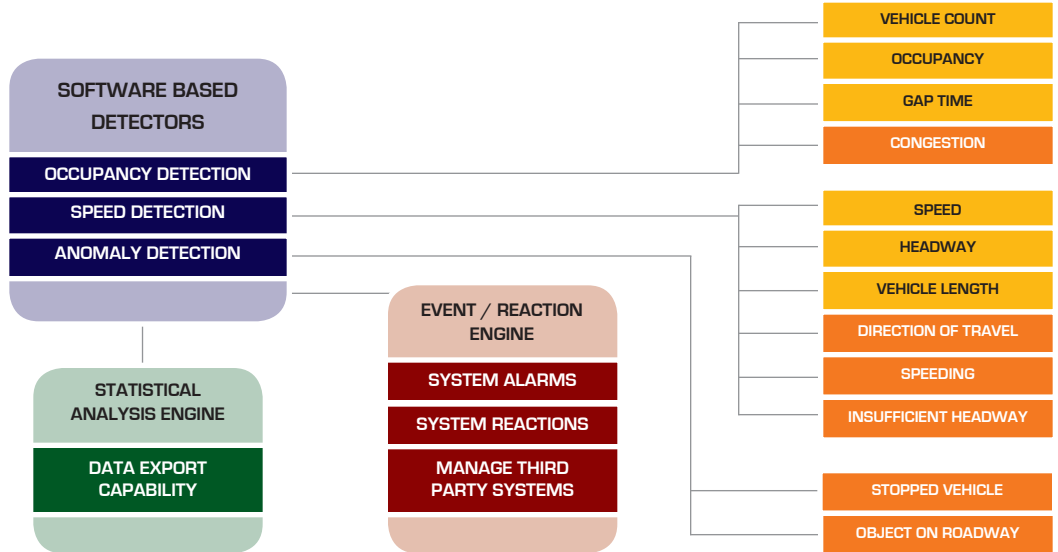
Traffic Camera	Lane No	Time	Incident type
Analysis camera 2	1	17:37	Reverse moving vehicle
Analysis camera 2	1	17:36	Stopped vehicle
Analysis camera 2	1	17:36	Stopped vehicle
Analysis camera 2	1	17:36	Stopped vehicle
Analysis camera 2	1	17:34	Stopped vehicle
Analysis camera 2	1	17:30	High speed vehicle

# SECUROS TRAFFIC TECHNICAL SPECIFICATIONS

## SYSTEM SCHEMA

### A Comprehensive Solution

The ISS SecurOS TRAFFIC smart video module extends the capability of traffic surveillance into a proactive monitoring and management solution for municipalities and roadway authorities. With detailed incident and event information, statistical aggregation tools, integration with third party systems & data collection processes, and the most comprehensive scenario & event management framework in the industry, SecurOS TRAFFIC can be a powerful standalone tool or critical component in any traffic management deployment.



### Virtual Intelligence

create "virtual detectors" utilizing the camera view - no hardware detectors are necessary on the roadway itself.

Analyse video from camera:

Road lanes:

**Lane 1**

Mask name:

Movement direction:  incoming  outgoing

Road length under masked area, m:

Maximum allowed speed, kmph:

Use lane mark up to detect long vehicle:

**Lane 2**

Mask name:

Movement direction:  incoming  outgoing

Road length under masked area, m:

Maximum allowed speed, kmph:

Use lane mark up to detect long vehicle:

### Real Time Analytics

real time statistics and incident reports are at the operators' fingertips, with the additional capability to instantly smart search through archived data or video

Real time monitoring

Traffic statistics:

Analyser/Lane ID	Speed	Occupancy	Traffic condition
Analysis camera 1	48 kmph	11%	Low traffic
1	36 kmph	15%	
Analysis camera 2	7 kmph	95%	Traffic jam
1	7 kmph	95%	

Traffic incidents:

Traffic Camera	Lane No	Time	Incident type
Analysis camera 2	1	10:47	Stopped vehicle
Analysis camera 2	1	10:47	Reverse moving vehicle

For more information, please contact your local dealer:



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