intuVision® VA Traffic

intuVision VA Traffic offers a complete solution for collecting, analyzing and reporting traffic data. intuVision VA Traffic module meets all traffic requirements while assuring safety and enforcing security on city roads, highways, along the roadside, bridges, rotaries and intersections.

Vehicle Counting and Classification

intuVision VA's patented algorithms deliver high accuracy directional lane-based vehicle counts under various traffic road and weather conditions during the day and night.

User trained vehicle classification allows detecting, counting and reporting different vehicle types separately.
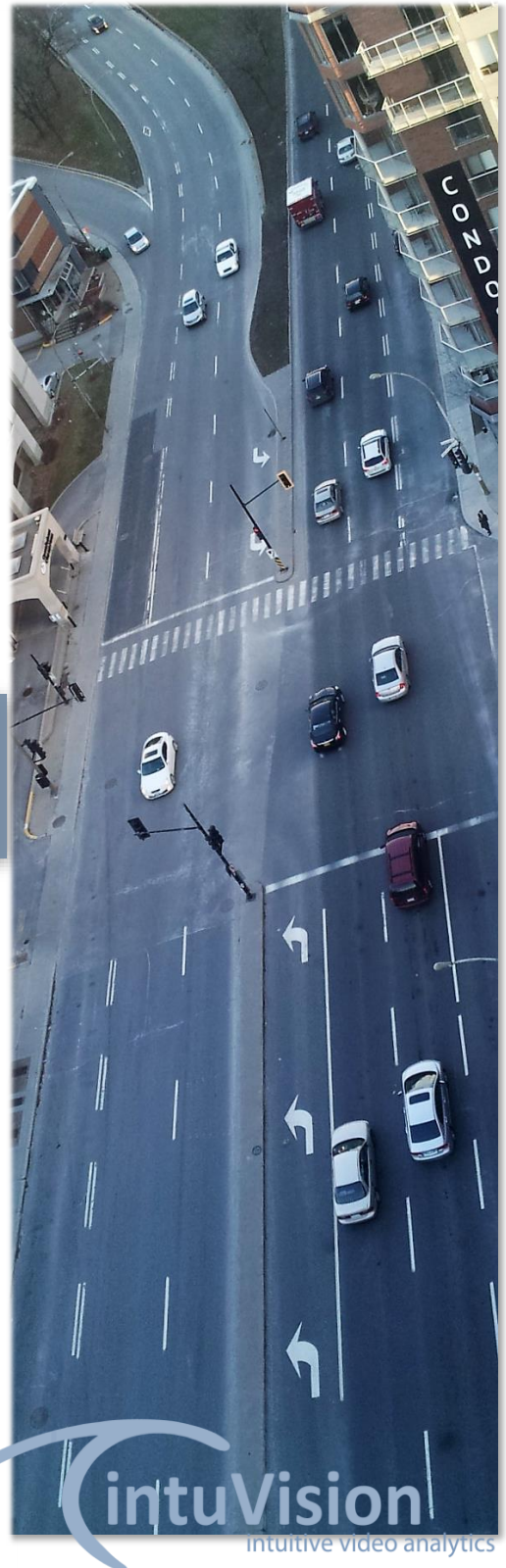
Analyze and report traffic data with accuracy and easy-of-use, from live cameras or recorded video

intuVision VA supports both day-time and night-time vehicle tracking for 24/7 traffic analyses.

Comprehensive set of event rules from near-miss detection to speed measurement or alarming on travel in wrong direction, congestion, idle vehicles on the shoulder, pedestrians on the road, even detection of smoke and fire in the tunnels are all included in the intuVision VA Traffic module.
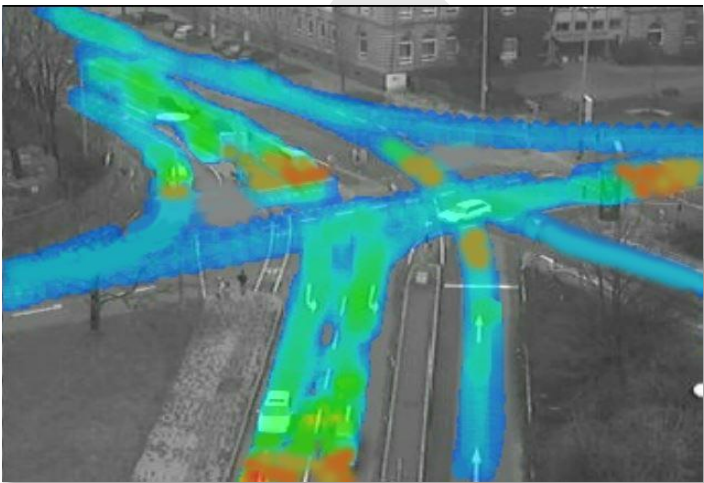
Real-time or Post Processing

Flexible deployment options and faster than real-time post processing as well as rich reporting options makes intuVision VA an easy to fit to any system. Please refer to intuVision VA general datasheet for general information.

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Traffic Flow and Dwell Heatmaps

intuVision VA flow heatmaps provide an overall view of vehicle traffic patterns over a time interval such as heavily used lanes along any road. While the dwell heatmaps highlight areas where vehicles idle emphasizing areas of congestion around intersections or roadside. Heatmaps can also be used for people summarizing pedestrian activity.
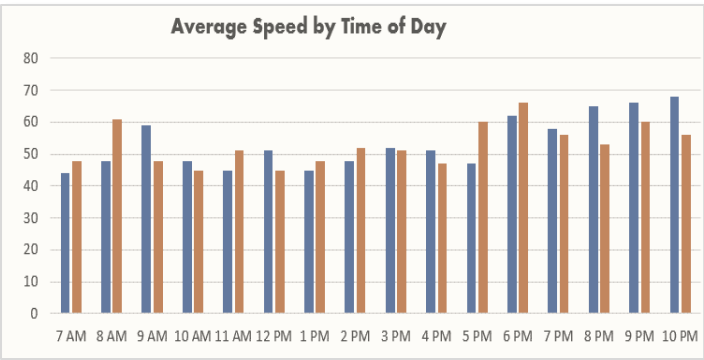

Night-time Vehicle Tracking

intuVision's robust night-time vehicle tracker makes it possible to continue detecting and tracking vehicles at night. Night-time vehicle tracker counts vehicles accurately, detects vehicle speeds, or spots congestions and accidents.

Reporting Counts or Speeds by Vehicle Type and Lane

intuVision VA supports multiple report formats to summarize vehicle count or speed information. The traffic data can be graphed in line, bar or pie chart formats or exported as CSV files to be used in any spreadsheet application.

Average Speed by Time of Day

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Event Rule	Description
Activity	Detect people or vehicular activity
Average Speed	Measure the average speed of vehicles from traffic video and summarize by vehicle type
Camera Tampering	Detect if a camera view is obscured, blocked or the view is changed
Congestion	Detect traffic congestion for potential delays, track congestion over time and per lane, visualize with red-yellow-green congestion meter.
Direction	Detect vehicles or people moving in a user specified direction
Enter/Exit	Detect vehicles or people as they enter or exit an area
Idle (Left) Object	Detect a dropped item (e.g. box, tire) on the road or roadside
Intrusion	Detect when vehicles or people enter into a marked restricted area
No Exit	Detect if no one exits a stopped vehicle
Random Selector	Count and select a user set percentage of vehicles for security inspections
Smoke/Fire Detection	Visually detect fire and smoke in camera views
Speeding	Detect speeding vehicles
Stopped Vehicle	Detect vehicles stopped on the roadway or in any area of interest
Tailgate Detection	Detect vehicles that are tailgating through a gate or checkpoint
Throughput	Detect vehicles or people crossing user specified edges of the zone
Turn Count	Count vehicles turning in a given direction at an intersection
Vehicle Counting	Reliably count vehicles during the day and at night, report counts for all, by lane or by vehicle type
Wrong Way	Detect vehicles or people moving against the allowed direction