intuVision® VA Traffic

intuVision VA Traffic offers a complete solution for collecting, and analyzing traffic data with realtime notifications as well as rich reporting options. The comprehensive set of event rules to collect traffic data provides tools for 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 vehicle counts, per traffic lane, as well as O/D counts at intersections or rotaries.

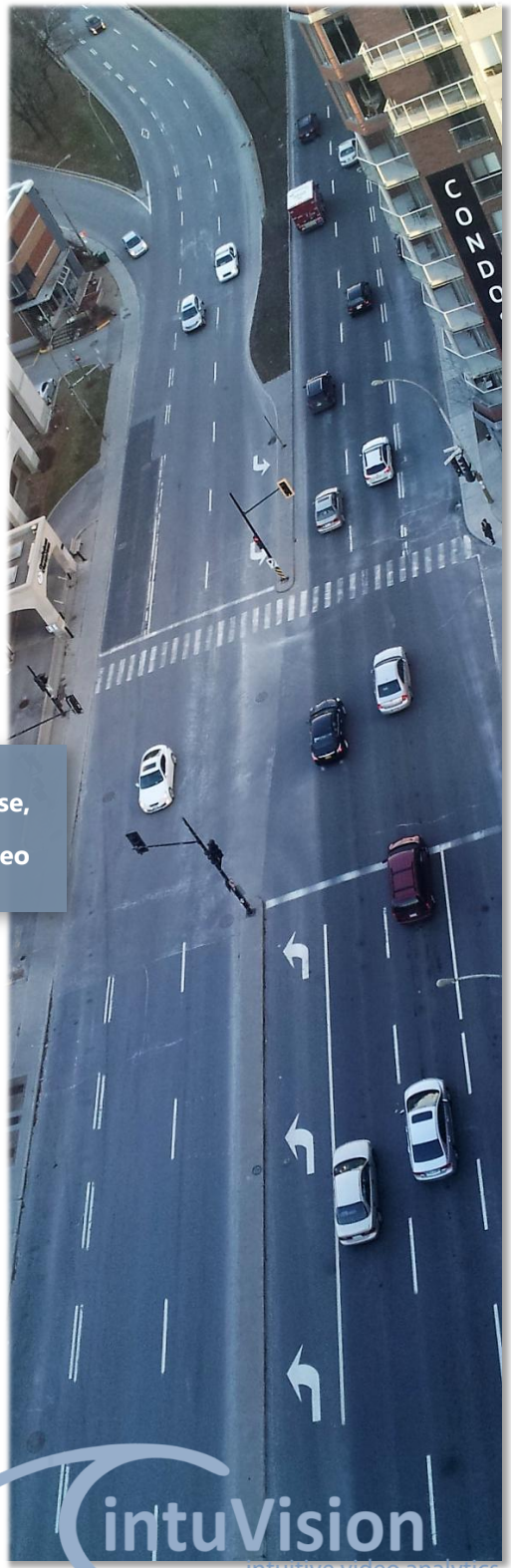
Pre-trained vehicle classification models allow for accurate detection, under various traffic, road and weather conditions and the option for user trained models enable meeting custom requirements.

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. From detection of near-misses to speed violations or alarming on travel in wrong direction, congestion, idle vehicles on the shoulder, pedestrians on the road, even on smoke and fire in the tunnels are all included in the intuVision VA Traffic module.

Real-time or Post Processing

Quick on-prem deployment and faster than real-time post processing makes intuVision VA an easy to fit to any system flow. Please refer to intuVision VA datasheet for general information and integration options.

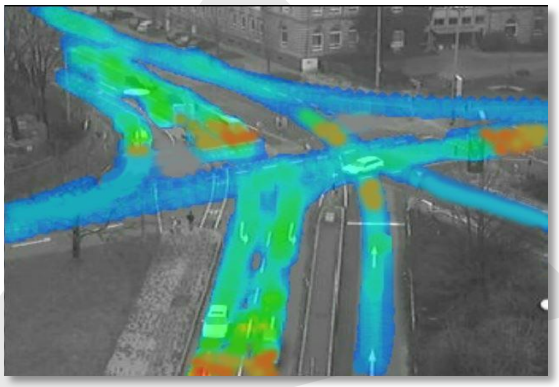


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Traffic Flow and Dwell Heatmaps

intuVision VA flow heatmaps provide an overall view of vehicle travel and flow patterns over a time interval, while the dwell heatmaps highlight areas where vehicles idle emphasizing areas of congestion around intersections or roadside. Heatmaps can also be used for people to provide a glance at pedestrian activity.



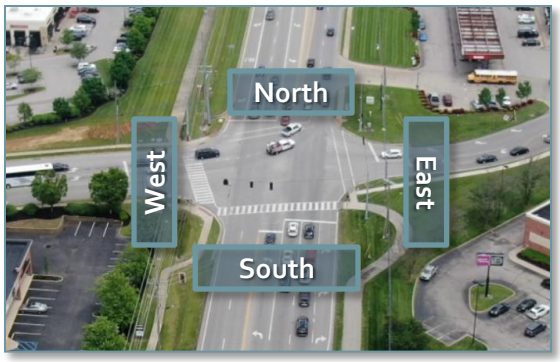
Night-time Vehicle Tracking

intuVision's robust night-time vehicle tracker makes it possible to detect and track vehicles at night. Night-time vehicle tracker makes it possible to count vehicles accurately, detect vehicle speeds, or spots congestions even on non-illuminated roads.



Origin-Destination Counts

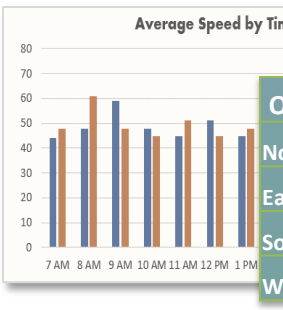
intuVision VA Traffic automates the collection of Origin/Destination (O/D) counts at intersections and rotaries by tracking, and classifying vehicles as they move through defined entry and exit zones. This minimal setup event captures accurate, detailed traffic count data to analyze complex intersections.



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 visualized as line, bar or pie charts.

Using the scheduled reporting and rich data export options via the intuVision API or CSV file exports, counts can easily be ingested into tools like Excel to generate O/D matrices to streamline traffic analysis workflows.



O/D	North	East	South	West
North		112	89	363
East	99	-	199	681
South	125	221	-	138
West	516	835	95	-

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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
Origin/Destination	Track vehicles traveling through an intersection or rotary, and count them grouped by their origin and destination
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	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

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