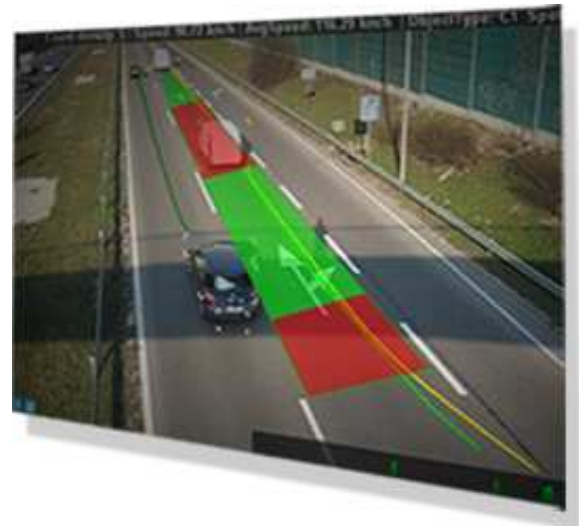




Intellio Traffic Control Solution

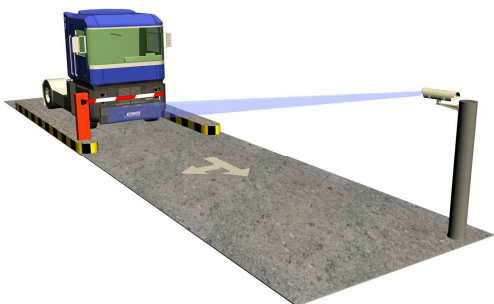
Open and expandable Traffic Control Systems

There is an increasing demand for information to ensure a better safety of roads throughout the world. To achieve this, a number of completely different systems are currently employed, which are usually incompatible with each other, and thus, the supplied data needs to be gathered from multiple locations. Intellio, during the developmental phase of its traffic solution, focused on openness and flexibility. The result is a seemingly futuristic integrated traffic monitoring system.



Detectors

The main components of Intellio's traffic monitoring system are the intelligent detectors and other integrated applications. An effective combination of digital detectors and integrated applications can help detect, record, and analyze events, and then send information or carry out a task.



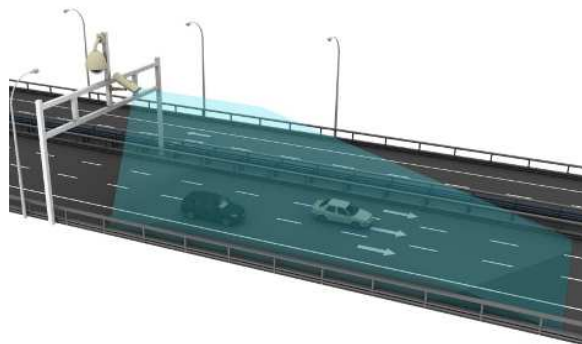
- Traffic Direction Violation
- Restricted Area Protection
- Parking Violation
- Speed and Average Speed Detection
- Traffic Counter
- Vehicle Categorization
- License Plate Recognition
- Sabotage Protection



Intelligent cameras installed alongside the freeway can have a number of built-in digital detectors while still being able to monitor the entire pavement in its width with the lanes defined separately. Meanwhile, it runs integrated applications simultaneously, and analyzes the incoming data such as recognizing license plates or measuring the weight of vehicles.

Highway Application

The Traffic Detector can sound an alarm immediately if a triggering event occurs on the highway:



- Vehicle not in motion (in traffic lanes or on hard shoulder)
- Driving on the hard shoulder
- Vehicle driving in the wrong direction (in traffic lanes or on hard shoulder)
- Crossing traffic (in traffic lanes)
- If average speed of traffic is too slow or too high (in traffic lanes)

Tunnel Application

In addition to using the system for monitoring highways, it can also be used in tunnels where the following features are available:

- Detect if average density of traffic is too slow or too high (in traffic lanes)
- Count passing vehicles and categorize them into 4 pre-defined categories (in traffic lanes)
- Measure the speed of passing vehicles in each lane separately or in several lanes together.



Immediate Action: Accident Prevention with Integrated Solutions

When the system detects a traffic violation or dangerous behavior it immediately sounds an alarm in the highway monitoring headquarters. Here, people have the chance to act on the matter without delay. It is possible to send targeted warning messages to the freeway's overhead displays with texts such as "WARNING. 1500 meters ahead white vehicle has broken Highway Code. Drive carefully." The system also detects accidents almost immediately, and, with the above method, the notorious chain of major accidents due to a minor fender-bender can easily be prevented. The cameras may also put an end to another common source of accidents when a vehicle, missing an exit, starts driving backwards on the hard shoulder. Intellio will identify not only the type and color of the vehicle, but also its license plate, thus the culprit can be identified even before they finish the maneuver.



Detectors Details

Restricted Area Protection

Restricted Area Protection allows cameras to monitor service lanes and other restricted areas for unauthorized traffic and instantly alert the operator these events.

Traffic Direction Detector

Traffic Direction Detector alerts immediately the operator when a vehicle moving in the wrong way on highways and exit/entry ramps. It enables a swift response by authorities to prevent accidents.

Speed and Average Speed Detector

Intellio cameras are able to monitor lanes separately for traffic speeds. The 15-minute average speed is always displayed on the monitor for each camera, and alarms are sent when the average speed of the cars is outside the pre-defined optimum range. Each camera can monitor vehicle speed based on five vehicle categories. This means that average speeds can be monitored and reported separately for the five vehicle categories.

Traffic Counter

Traffic counter does not require dozens of people or highly specialized sensors, no road construction to install and no additional equipment to verify data. Intellio Traffic Counter counts passing vehicles based on different vehicle categories. Average traffic densities are always displayed on each camera picture and alarms can be set up to go off when the density of the traffic goes above a certain level.

License Plate Recognition

Intellio cameras are capable of license plate recognition with a special add-on module. Our integrated license plate recognition solution is a proven precise LPR software which has been installed in airports, highways and office buildings around the world.

Traffic Reports

The Intellio TMS takes care of statistical reporting as well. A special query function lets you create statistical reports to improve the quality of traffic management decisions. Statistics can be monitored real time as a traffic monitoring dashboard or created for a given period of time regarding traffic densities, average speeds, classification of traffic by vehicle type, etc.

Traffic Chart

