



TRAFFIC MONITORING

TRAFFIC MONITORING IS A NEW GENERATION OF VIDEO ANALYSIS PRODUCTS FOR TRAFFIC MONITORING.

HIGH-PERFORMANCE ALGORITHMS ALLOW TO PROCESS MULTIPLE LANES OF TRAFFIC IN EVERY OUTDOOR OR TUNNEL CONDITIONS.

Traffic monitoring produces in real time individual vehicles and traffic flow data in all traffic contexts, from stop and go, to high-speed conditions.

Traffic monitoring is also able to detect incidents in the field of view of existing or dedicated traffic CCTV cameras.

Traffic Monitoring is a cost-effective and flexible solution for road traffic monitoring and surveillance.



FEATURES

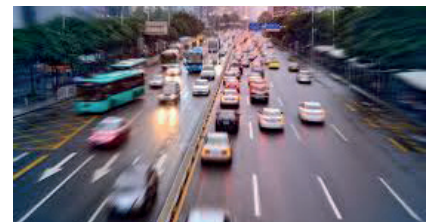
- Traffic data collection and incident detection
- Individual vehicle measurements : time, length, width, height, lane, speed and distance/time to previous vehicle
- Traffic flow data measurements lane occupancy and flow speed evaluation
- Built-in classification of vehicles up to 5 vehicle classes
- Wrong way detection
- Detection of stopped and suspicious presence in restricted area
- Traffic flow classification and abnormal speed drop detection
- Runs on PC server and embedded industrial PC

ADVANTAGES

- Cost-effective solution
- Can operate on CCTV cameras (uses dedicated or general purpose surveillance cameras)
- Several traffic lanes can be processed per camera
- Easy to install and less intrusive than other traffic sensors
- Very simple and user-friendly configuration
- Proven field performances during day, night and difficult weather conditions
- Proven field performances for roads, highways, bridges and tunnels from high speeds to traffic jam conditions
- Open classification for user-oriented vehicle classes

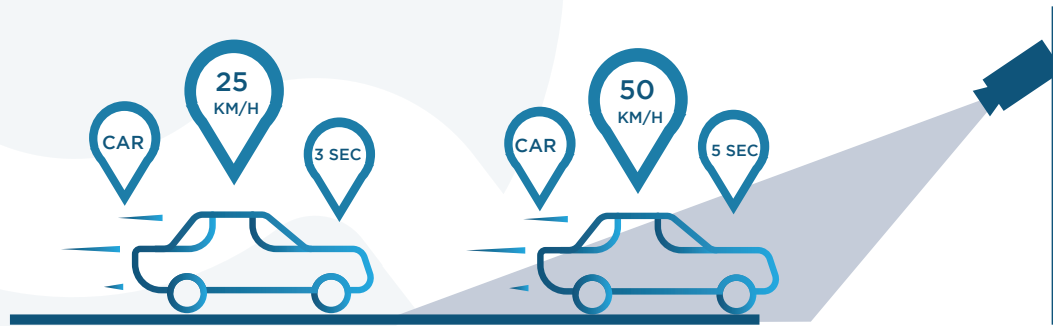
APPLICATION

- Traffic monitoring for automatic statistics gathering
- Real-time incident detection in tunnels and highways
- Automatic road infrastructure control
- Impact analysis for road maintenance and improvement



TRAFFIC MONITORING

ACIC offers a complete solution to monitor the traffic flow in outdoor or tunnel conditions



REFERENCE ANTWERP TUNNELS

ACIC high performance video analytics solutions were installed on 22 cameras in the 3 tunnels of Antwerp city. The traffic flow being quite important in its tunnels, the city needed an efficient automated solution to monitor any traffic incidents. The integration of statistical data relating to traffic by the integrator has allowed the city of Antwerps to get a better view of its traffic inside its tunnels. The alerting of the traffic incidents was also improved, allowing the city of Antwerp to have a fast communication with it's services. The quick detection of incidents leads to a responsive management with a efficient prevention system.

SOME OTHER PRODUCTS

ACTIVITY DETECTION



ActivityDetection is able to do a lot more than simple motion detection found in CCTV products. ActivityDetection will generate alarms when objects of a selected class triggers meets predefined rules. Constraints on object size and behaviour can be used to detect specific scenarios. The learning and adaptative algorithms of ActivityDetection are robust to outdoor challenging conditions, like shadows or environmental movements.

PANORAMA DETECTION



Acic PanoramaDetection builds panoramic video from a permanently moving camera (visible or thermal). This GIGA pixel video can detect a boat on the sea at more than a kilometer.

PEOPLE COUNTING



Video analysis allows to perform accurate people counting. People Counting allows you to follow in real time the evolution of the number of customers or visitors in a cost effective way offering accurate statistics in shops, shopping malls, museums or any public centres.

SOME REFERENCES

