



Funkwerk traffic solutions

Argoscan – traffic analysis

The video-based Argoscan traffic analysis allows a fast and automated event detection on roads and motorways such as traffic jams, wrong-way drivers, or stopped vehicles.

Therefore the system enables to quickly take countermeasures, like the temporary release of the hard shoulder as an additional lane assuring an undisturbed traffic flow during phases with increased traffic volume.

The Argoscan traffic analysis - **a future-proof investment thanks to state-of-the-art technology.**

Highlights:

- **Detection of**
 - Wrong way drivers
 - Slow vehicles
 - Stopped vehicles
 - Traffic jam
 - Risk of traffic jam
 - Traffic jam break-up
- Visualization of events via symbols on the site map
- Simple extension of existing Argoscan facilities
- Suitable for single and multilane roads
- Flexible camera positions
- Suitable for static and dynamic cameras
- Applicable on motorways, country roads and urban roads

Video based detection of traffic events

A fast detection of events is a prerequisite for the contemporary initiation of appropriate measures to ensure an optimized control of traffic flow. In this case a video-based traffic analysis system provides valuable support for the operators of traffic systems.

Initial situation

- It is not always possible to assure a traffic surveillance over all critical places via human resources. As a consequence there are traffic jams, long reaction times after accidents and dangerous situations.
- At facilities with Argoscan-hard shoulder release the majority of the cameras are unused for most of the time.

Solution: Argoscan Traffic Analysis

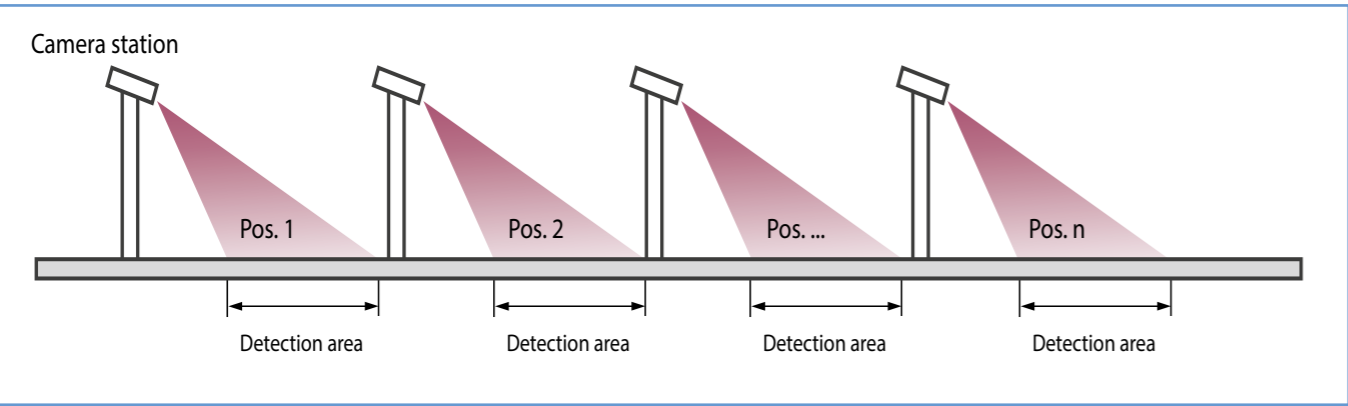
The video based Argoscan-Traffic Analysis detects events automatically. Thus, quick initiation of measures against incidents is assured. The traffic can run flawlessly and the risks for dangerous situations can be minimized.

Dual usage

In addition to the traffic analysis the cameras can be used for surveillance of the surrounding areas. Prerequisite for this is the high end PTZ-Head PLATON NEO.

Events and their adjustment

- **Slow and stopped vehicles** – the threshold values for speed of slow and stopped vehicles can be set via the GUI of the configuration tool.
- **Wrong way drivers** – the regular direction is set in the configuration.
- **Traffic jam** – the event of a traffic jam is detected by the combination of average speed and traffic density.
- **Risk of traffic jam** – risk of traffic jam is detected as an event by the combination of the parameters average speed, traffic density, and the number of lane changes.



Detection area

When an area wide traffic analysis shall be introduced, camera optics and camera positions have to be chosen in a way that an illumination of the road without any gaps is assured.

Together with Argoscan-hard shoulder release the arrangement of cameras, camera optics and camera positions should provide 100 percent illumination of the road, regarding to the detection of slow and stopped vehicles.

System requirements

Argoscan-Traffic Analysis requires the Linux-based video management system MULTISEC.

Argoscan - traffic analysis – Example



1 Configuration pane

- Specifying both direction of traffic and traffic lanes with markings
- According to the number of lanes multiple markings are possible
- Configuring the image perspective with particular parameters

2 Detection display

- Displaying live or recorded video images
- Highlighting of detected traffic events

3 Result display

- Reporting current or past traffic events

Funkwerk video systeme GmbH

Thomas-Mann-Str. 50 | D-90471 Nürnberg

Tel.: +49 (0) 911/75884-0 | Fax: +49 (0) 911/75884-100

info@funkwerk-vs.com | www.funkwerk-vs.com

