

We keep an eye
on every movement:

Introducing the new
Kapsch VR-2.



Once you realize the advantage of a simple camera, you'll give it a big smile.



Kapsch VR-2 is an all-digital triggerable image capturing system which is optimised for use in traffic applications. The VR-2 digital cameras ensure optimal conditions for image analysis of the highest level. The system architecture guarantees a reliable and timely correct image acquisition and processing.

Want to know what car is passing by?
Just let VR-2 tell you in high resolution.

In traffic applications, camera systems are used for various tasks. Cameras are used to document traffic scenes, for capturing vehicle number plates in different areas of application or for tracking containers in combined goods traffic. Special recognition tasks from within the field of Machine-Vision, as for instance automatic reading of registration plates, represent a technical challenge which is solved by various suppliers on different levels for a diverse range of environmental conditions. Kapsch VR-2 was developed with the goal of not only being able to offer the newest available technology at an excellent price / performance ratio, but also to offer custom-made systems with the latest technical equipment.



Kapsch VR-2 supports the standard interface Camera Link™ offered by many manufacturers of high resolution cameras; collection and processing of image data is done by standard PC technology.

Qualities by Kapsch.

- Best image quality based on fully digital image capturing, starting from sensor
- Specific sensor types for different measuring tasks
- Up to 12 Kapsch VR-2 Camera units on one controller
- All time critical tasks encapsulated in dedicated hardware
- Authentication and signature of the acquired images
- Sophisticated key management
- One-man adjustment

Cars, trucks, containers:

Whatever you observe, it will be reliable.

Kapsch VR-2 is a versatile and applicable technology for traffic applications. Because of its flexible design Kapsch VR-2 can be cost-efficiently tailored for specific customer needs. Hardware components that are specifically designed for the requirements in the field of traffic telematics ensure that all aspects, such as real time image acquisition, adverse environmental conditions and authenticity of images are managed in the best way possible.

The application scope covers the following ranges:

- Number plate recognition of vehicles for access control, tolling/charging, enforcement, etc. Algorithms for automatic license plate reading deliver text & numbers of number plates for easy transmission (text instead of picture) and comparison with data bases or black- / white-list.

- Toll enforcement

In the case of toll violators a photo of the side view can prove the axle count of a vehicle (overview images for toll enforcement).

- Recognition of hazardous goods signs on dangerous sections

Cameras using algorithms for automatic pattern recognition are able to detect plates with special signs. Such events are then used to set traffic lights or to alarm authorities, e.g. if a truck laden with hazardous goods enters a water protection area.

- Traffic monitoring

Triggered pictures of traffic situations can be used to gain additional information about a traffic situation, e.g. in case of an accident.

- Container code recognition in goods traffic

Passing containers are viewed with cameras either on trucks or during the loading/unloading process. The identification signs on the container are found automatically and the text is analysed using optical character recognition.

- Damage inspection of container on cargo terminals

Containers are viewed with cameras periodically either at a storage location or when passing special inspection points, e.g. at cargo terminals.

The comparison of pictures from different dates can be used to determine when damage has occurred and who may be responsible for this.



