

## Railways



Numerous train stations throughout the world are monitored by GEUTEBRÜCK video security systems, demonstrably improving the safety of their travelers.

Train platforms, concourses, stairs and escalators – practically every area of a train station can be observed by the security personnel at any time. Suspicious persons can be followed using high-speed dome cameras. Video recordings make it possible to clarify irregularities. The digital matrices of many train stations are networked, making it possible for the central control center to access the video pictures of train stations along the entire path of a train.

In the age of high-speed trains, it is increasingly important to be able to remotely observe dangerous sections of the track, such as tunnels and bridges.

This can make it possible to prevent accidents, as dangerous situations can be recognized early. Due to their low bandwidth consumption (MPEG4CCTV), GEUTEBRÜCK video security systems can be easily integrated into existing networks.

Access to the video pictures is possible throughout the entire network, regardless of geographic location, so that, in addition to monitoring in the main control center, video transmission to the driver's cab of a train is also possible. Possibly dangerous situations can be recognized, e.g. before a train reaches a tunnel, and the train can be braked harmlessly.

Optionally, video motion detectors (GSC/VMD) can be enabled with software licenses for particularly critical surveillance tasks in outdoor settings. These automatically trigger the transmission of alarm pictures to the main control center in case of unauthorized access to tunnels and bridges.

Over the parallel audio connection of the system (GSC/Talk), stored warnings can be played back or live announcements made.

The open interfaces of the video security system (SDK) make it possible to additionally create comfortable, customer-specific integration of the security system into, e.g. control systems.

**For the realization of this example, we recommend the following products:**

- Twin cameras
- Pan/tilt systems
- ARGUS high-speed pan tilt system
- IR lights
- re\_porter hybrid recorder
- GeViScope hybrid server
- GSC/VMD video motion detection licenses
- MultiMap graphic user interface (GUI)

**Example: layout of a section of track/tunnel and bridge**

