

Border Security



Securing political borders is an important issue for all countries. The development of borders is very different from country to country and depends on the natural landscape. The traffic on all transnational roads is controlled at fixed border crossings, whereas the rest of the border is secured quite differently. For some countries, signs and border patrols are sufficient; others block their borders with massive fences and security systems to protect against illegal immigrants and smuggling.

These days many border crossings use video systems for inspection and recording of suspicious vehicles and persons.

But the control of the border area that is not permanently monitored, from crossing to crossing, is a weak link, in particular at night and in bad weather. This weakness can be eliminated.

The GEUTEBRÜCK ARGUS Dual System delivers crystal clear pictures at any time of day or night and in any weather conditions.

The ARGUS Dual System, made of stainless steel, for professional use in the toughest weather and environmental conditions, has two weather-proof housings, which are mounted on the opposite sides of the high-speed pan/tilt unit and are moved parallel to the axes.

One housing is for the installation of a high resolution, remotely configurable video camera with motor zoom lens, with a focal length of up to 320 mm. The housing on the opposite side has been specially designed for the installation of a thermal imaging camera. The maximum detection range of such GEUTEBRÜCK thermal imaging cameras is approx. 1.95 km, whereas object recognition in complete darkness of, for instance, a person is only possible up to approx. 510 m. It is possible to switch between the two cameras at any time.

The high precision, maintenance free drive technology (MIL standard) makes possible pan/tilt speeds of **0.01° - 200°/s** and a positioning repeatability of **< +/- 0.01°**. A mounting socket with integrated cable gland protects all installation cables against weather and vandalism.

A particular feature is the precise and jolt-free very slow run, a low-speed camera positioning that makes reliable monitoring of broad terrain possible even at large focal lengths.

ARGUS is controlled with the MBeg/GCT-3X-LAN multifunction operating device. The built-in 3-axis joystick with integrated zoom function makes remote control of the ARGUS a joy. With the robust stainless steel keyboard, additional fixed positions can be configured and called up or, in conjunction with GeViSoft, various routes can be started, which move along predefined sections of the terrain.

The observer thus detects even the smallest of movements, day or night, fog or snow. In a matter of seconds you can identify whether you're dealing with harmless strollers or suspicious smugglers.

The KDec interface of the ARGUS Dual System, standardized for GEUTEBRÜCK systems, makes possible the integration of the system in large, complex video security systems with alarm management functions, picture storage and site plan operation.

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

High-resolution color cameras

Thermal imaging cameras

ARGUS Dual System

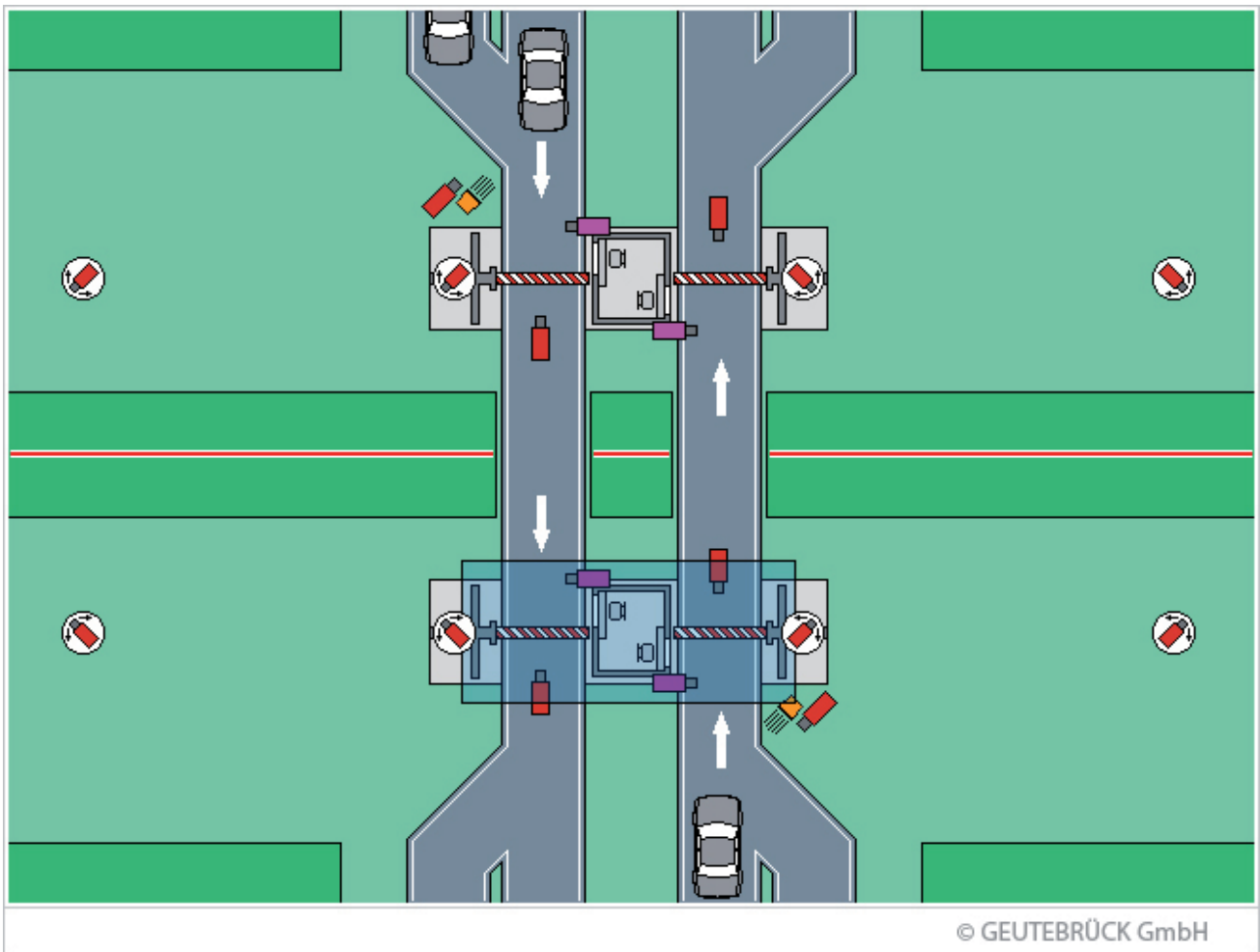
MBeg/GCT-3X-LAN multifunction operating device

re_reporter hybrid recorder

GeViScope hybrid server

MultiMap graphic user interface (GUI)

Example: Layout of a border crossing



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