| Target | Record | Digitize |

ASE Report

Application example from CCTV technology: Video surveillance of the wastewater treatment plants in Frankfurt

As a specialist for intelligent image processing, ASE also designs video surveillance systems for safety-relevant areas in the process industry, chemical/petrochemical industry, power plants and many other branches.

A current application example is the video-supported monitoring of wastewater treatment processes for the Stadtentwässerung Frankfurt. The city of Frankfurt am Main operates two of the largest wastewater treatment plants (ARA) in the German state of Hesse. Both Frankfurt systems belong to the highest size class 5 and clean better than the legally prescribed requirements. Intelligent camera systems from ASE GmbH provide visual monitoring of the demanding cleaning processes at the wastewater treatment plants in Niederrad and Griesheim as well as for reliable perimeter protection by monitoring gate entrances and terrain. This is one reason why the stricter monitoring values laid down by the responsible water authority can also be observed.

The VisorX/NG software - a product of ASE GmbH - was used for process monitoring. It is also used in a similar version for video image monitoring in the PCS/7 control station of Siemens AG.

By using video technology, irregularities are detected in real time. At the same time, a defined alarm and reaction procedure is triggered.

Live video images are displayed as continuous images on the process control system at the workstations of Frankfurt wastewater treatment plant. The cameras installed by ASE with PTZ function (Pan/Tilt/Zoom) can be controlled directly from any authorized workstation.
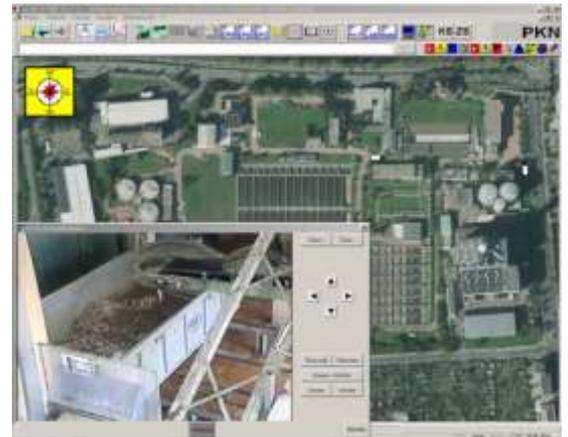
Pilot project Truck Gate in Cologne-Eifeltor successfully completed

The digital terminal will become reality in the near future - In order to secure future competitiveness, Deutsche Umschlaggesellschaft Schiene - Straße (DUSS) as market leader actively designed this process and completed together with ASE GmbH the pilot project "Videoportal Straße" (Truck gate) in Cologne-Eifeltor a few weeks ago. In future, trucks and loading units can be routed through the terminal automatically with advance booking. At the Cologne-Eifeltor location, an average of around 1,400 trucks pass through the terminal every day. The identification takes place when entering the terminal via our video gate. On the basis of the video documentation, loading units are checked for possible damage and the detected data is integrated into the DUSS operations control system via interface.
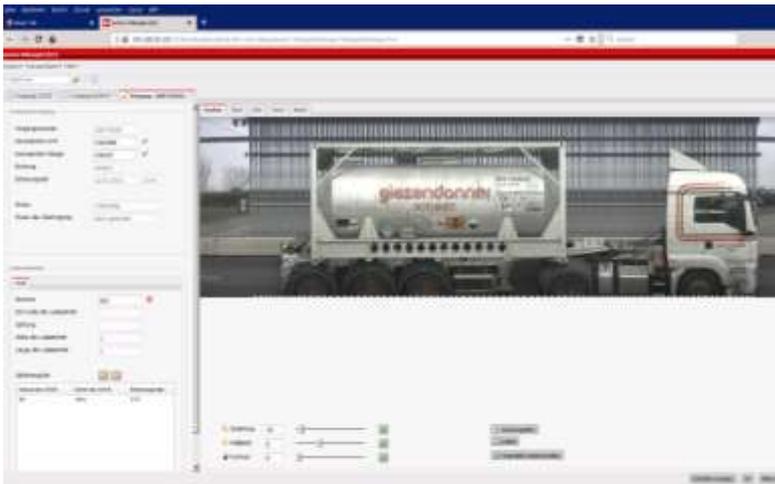
The video system detects vehicle registration numbers, container codes (ILU and BIC codes) as well as hazardous goods and waste labels. A careful selection of state-of-the-art sensors is used for this purpose. The separation of vehicles and loading units is achieved with special 3D cameras and a continuous adaptation of our Numberfinder software.

Advantages for DUSS are obvious
In addition to the expansion of capacity, demand is increasing, thus ensuring higher sales. Reduced throughput times, a lower error rate and fewer cases of damage improve quality and reduce internal costs.

ASE expert knowledge on the subject of "Automated recording of transport data" is in demand

The first symposium "Maritime rail freight transport" will take place on 13.09.2018 in Stralsund. It deals with the topic " Managing rail transports - How digital should it be?

In addition to renowned speakers from the railway industry, ASE GmbH will also be represented. Our CEO, Mr. Eric Steck, will explain how optical character recognition can be profitably integrated into the process organization of railway transports with the help of our video gates. The focus is on the automated recording of wagon and train data as well as condition documentation of the wagons and their loading units.

The future obligation to collect data, provide data and how to deal with it is regulated by law in the EU TAF TSI Directive. The framework conditions for digital communication will be the subject of a lecture and discussion at this conference.

If you are interested, you will find further information on the organizer's homepage, "BSL – Beratung über Schienenlogistik und Infrastruktur" http://www.schienen-verkehr.de/fachtagungen/fachtagung_maritim/anmeldeformular_2018.pdf

InnoTrans opens its doors in Berlin from 18th to 21st of September 2018 - ASE is exhibiting again

The world's leading trade fair for transport technology presents new ideas and technologies in the fields of Railway Technology, Railway Infrastructure, Public Transport, Interior and Tunnel Construction.

ASE will also be there again to present our camera-based identification system NUMBERCheck-video gate in the area of "Logistics in Freight Traffic". Further focal points are safety and monitoring technology as well as train control systems (WTMS - Wayside Train Monitoring Systems) in the infrastructure sector.

More information can be found on the Virtual Market Place

We see intelligent image processing as one of the basic technologies for automation and digitization in the transport and logistics industry. Visit us at our **booth no. 213 in hall 21** and let us convince you of the advantages of fully automatic monitoring and registration of trains, wagons and their loading units. We are happy to arrange appointments by e-mail (vertrieb@ase-gmbh.eu)

Standardized data exchange for future-proof digitization

The German Institute for Standardization e.V. (DIN) has meanwhile prepared a document which defines requirements for the data structure, data groups and interface definitions for the exchange of information in combined transport between the actors involved. Because only with a uniform basis can modern technologies of digitization and logistics 4.0 be implemented.

ASE GmbH has been involved in the preparation of this document. **"DIN SPEC 91073 (DIGIT standardization of data exchange for all actors in the intermodal chain to ensure an efficient flow of information and sustainable digital communication)"** is available free of charge and for everyone at Beuth-Verlag.
Download-link:https://www.beuth.de/de/technische-regel/din-spec-91073/286624439