



Target

Record

Digitize

ASE News

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INFORMATION

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NUMBERCheck – Image documentation of container trains at the station leading up to Duisburg port

On the long journey that container trains often cover, broken doors on individual containers are not uncommon. As no proof of where and when containers were broken open and goods stolen a claim for damages automatically ended up with Duisburger Hafen AG, on whose premises any damage was noticed after entry.

In order to be able to provide appropriate evidence and defend against unjustified claims, it was decided to use camera-based condition detection at the pre-station or in the entrance area to the port area.



The one-sided camera installation at two locations includes our established hardware components as well as a video management server.

For the proof the pure picture documentation is sufficient, a UIC or container number recognition was not required here.

Since the commissioning of the system, the Port of Duisburg has already been able to detect damage on several occasions which had already occurred before the port area was entered.

Thanks to the ASE installation, the customer benefits from an enormous savings potential.

Picture1: Camera installation at pre-station to Duisburg port / ©ASE

Rail Gate for harbour Linz, Austria

Linz Service GmbH operates the railway access at the port of Linz. In the early summer of 2019, a tender was published for the "construction of a photogate" at the access track to the port area. ASE successfully applied for the competition and was chosen at the end of August 2019.

NUMBERCheck Video Gate will be installed for operation on one track in two directions. All trains which will drive over this track to the outer station of the city harbour or will leave it again will be registered and recorded.

Each train will be recorded in a data base with an identification number. In addition, the direction of travel of the train, date & time, number and sequence of the wagons as well as the UIC wagon numbers and container codes are to be registered.

In addition, an image-based report of damage to wagons and containers is required.



The project planning of the plant is in full swing, so that an automatic recording of the transport data can soon take place.

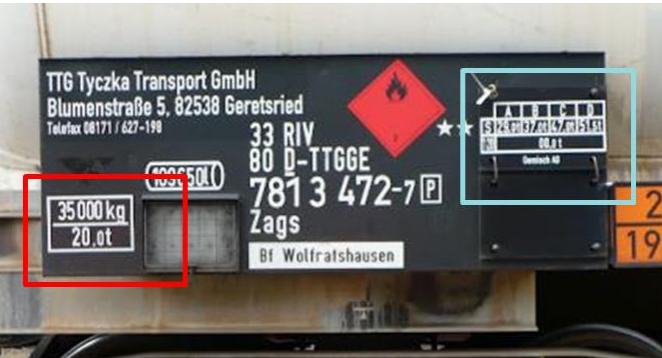
Announcement of function add-ons

In addition to the detection of common characters, such as UIC wagon numbers, container codes or dangerous goods signs, other possibilities of automated image recognition and processing are increasingly in demand. Therefore our development department will deal with the design process of the following functions:

Detection pin position:

The position of the pins on container wagons plays a major role in the logistical disposition in transshipment terminals. The earlier the dispatcher knows about the condition of the pins, the faster containers can be assigned to empty carrier wagons ready to receive them.

So what could be more logical than to generate this information when a train arrives and transmit it to the Terminal Operator System via image viewing and processing? Detection will be based on the principle of "pin down or ready for use".



Detection load limit grid:

The load limit grid is an inscription on freight wagons. It indicates the maximum permissible load weight depending on the route class.

As the demand for the detection of this inscription increases, we will also continue to develop this functional add-on for our Numberfinder software.

At the same time, a comparison with the real transport data should

This is an optimal supplement to the already available module "tare detection". The aim of tare detection is also to compare with existing data, avoid overloading and detect malfunctions.

Review of the fair: Transport Logistic & TOC Rotterdam 2019

In summer 2019, not only the temperatures caused hot days, but also the two major trade fairs for the transport and logistics industry.

Terminal operators, international ports and industrial companies all over the world were interested in digitization via image processing at both trade fairs. The focus was on combined transport, i.e. both the rail-side recording of trains and wagons and the registration of trucks and their loading units is almost a "must have" in the industry.

In addition, according to our understanding, the focus of large industrial companies is now on reliable vehicle recognition, which also serves sophisticated interfaces, e.g. to vehicle scales. Although there are already numerous ANPR solutions (ANPR = Automatic Number Plate Recognition) on the market, these are often unsatisfactory.

We have put this requirement on our agenda and are currently testing a selection of smart cameras with integrated OCR software. We will be happy to keep you up to date on the development of this special service portfolio.



For both fairs we had a 3D animation created, which shows the process flow in a very understandable way. Here you can have a look at the successful result

NUMBERCHECK – OCR Gate
for Transport & Logistic

Do you have any questions or are you looking for an individual, image- or video-based solution for a monitoring relevant process in your company?

My team and I will be happy to advise you; call us: +49/7251/932590

Yours Eric Steck
ASE GmbH
-CEO-

