The perfect system for identification in rail transport applications

UICScan

Recording and evaluation of data from rail vehicles in train stations and maintenance areas

Industry   Waste water   Biogas   **Railway**   Agriculture

Innovative technology for rapid and reliable application planning

UICScan gives you transparency in terms of availability and costs

This allows you to plan conveniently, reliably and economically

You'd like to know where your passenger train cars are currently located? Need an overview of vehicles in service and maintenance stations, or in washing bays? UICScan offers you a reliable and cost-effective option that can be used immediately without any additional preparation of the vehicles.
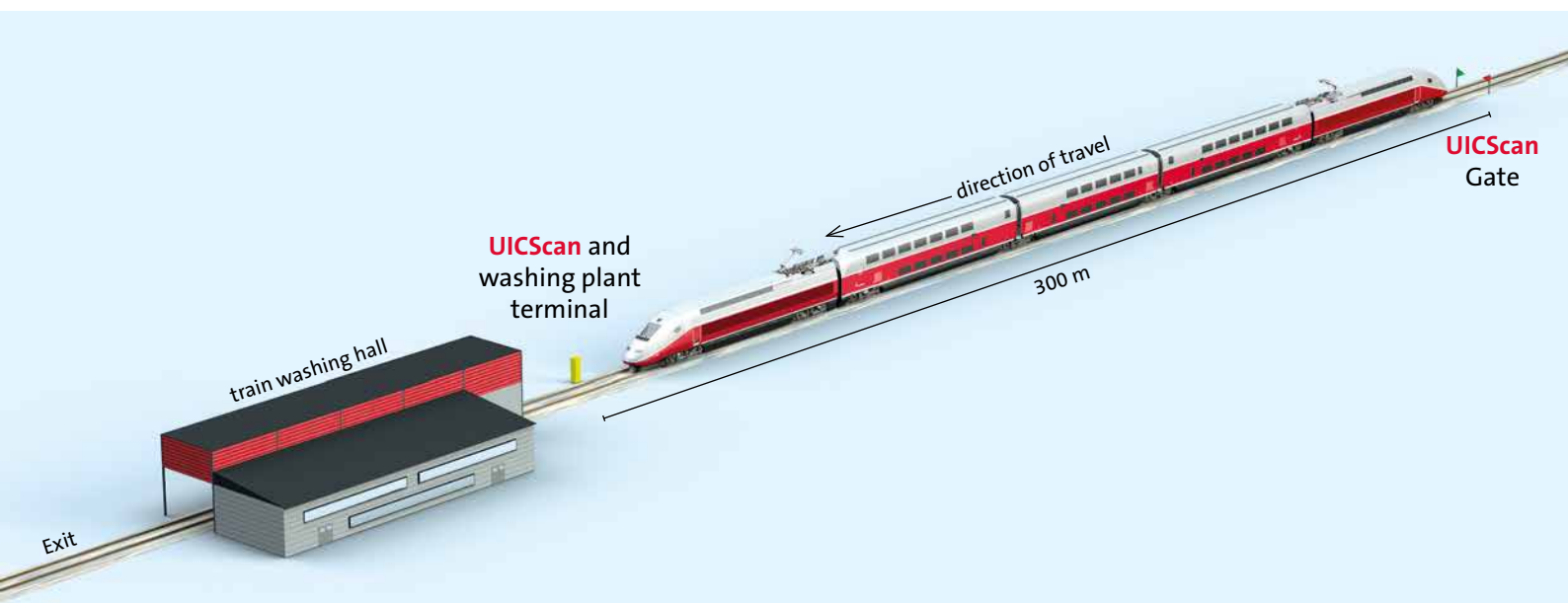
A specific UIC number is located at the center of each passenger train car. UICScan is capable of detecting these car numbers using an optical system. This uniquely identifies the car driving past and pinpoints its location. UICScan works with a special dual camera for day operations and – since it is equipped with special lighting – it is also reliable for night operation. The system records the numbers on both sides of the vehicle as it drives past.

UICScan can easily be integrated into train station or depot operations. It's not necessary for the train to reduce its speed in the train station or depot. UICScan reliably records the vehicle number at pass-through speeds of up to 80 km/h.

The UICScan system also includes an axle counter. This combination can also document the speed as well as the vehicle number.

UICScan can additionally be connected to the VEBSys train information system from Vogelsang. VEBSys enables online, real-time representation of the vehicles in question.

Typical areas where it is used include train entry and exit points at train stations, as well as service and maintenance stations or washing bays in which third-party cars are concerned and for which the costs must be calculated individually.

UICScan and washing plant terminal

train washing hall

Exit

direction of travel

300 m

UICScan Gate

Features of UICScan

- Output module for the recorded data to enable billing for each car on an individual basis
- Recording of all relevant data for customer-specific billing
- Automatic, optical recording of the UIC car number of every car driving past
- Evaluation takes place immediately after the train has fully passed the unit
- Automatic, optical recording of the applied QR codes in real-time

Axle counter module

- The axle counter module records the number of axles and the speed of each individual axle
- The axle counter modules integrated in the number recording unit are triggered for use

Possible interfaces

- Interface for service and maintenance equipment (washing bays) and their documentation systems
- VEBSys online documentation system

Recorded parameters

- Vehicle number (UIC car number)
- Optional: QR code interface

- Customer EVU
- Archive documentation
- Date and time
- Exterior temperature
- Drive-through speed
- Disruptions
- Video stream for subsequent processing

UICScan components

UICScan consists of two units with:
- UICScan Tower housing, incl. preparations for integration of QR code scanner
- Computer unit for speed interpretation purposes
- RC44 module (remote control)
- Dual-trigger module unit
- 24V-DC 10A power supply
- Software module to detect the UIC car number
- Software module for triggering
- Software module for axle counter with speed determination for each axle
- Online UMTS/HSDPA router
- Interface to train washing bay
- Axle counting with trigger module on the track
- Special dual camera (day/night mode)
- 3 power LED projectors
- 250W frost protection heating

- Concrete installation frame
- Optional: QR code long-range scanner

To install UICScan, no changes need to be made to the vehicle fleet. A 230V supply with 10A must be provided on-site at locations where the UICScan Tower is to be installed. Sun glare protection in the area where the images are recorded, as well as connection options to additional service equipment whose use is to be documented are also to be taken into consideration.

UICScan advantages at a glance

- **Ready for immediate use, vehicles require no extra equipment**
- **Reliable thanks to use of video technology**
- **For high drive-through speeds**
- **Documentation of additional parameters, such as speed**
- **Can be combined with additional service systems**
- **Compatible with VEBSys online real-time documentation system**

Our company

Innovation and progress have been hallmarks of Vogelsang for over 80 years and have made us a leading global plant engineering company. Time and time again we have achieved significant milestones of progress. Today, we develop, manufacture and distribute some of the most innovative and reliable machines and systems for agriculture, municipalities and industry.

With our overseas subsidiaries and service centers, we are world-renowned for advanced engineering and customer-friendly solutions.

Our product range

We offer solutions for the following areas:
- Industrial sector
- Waste water treatment
- Biogas
- Railway waste water disposal
- Agriculture

We offer a broad range of products:
- Rotary lobe pumps
- Maceration technology
- Distributors
- Spreading technology
- Supply and disposal systems
- Complete solutions

We also offer customized solutions for your specialized applications.

How to reach us

Vogelsang is present worldwide. Visit us online for more information about our company and wide range of services: **vogelsang.info**

We are here to assist you and look forward to speaking with you.

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The UICScan is manufactured by Prometheus GmbH & Co. KG, a subsidiary of Hugo Vogelsang Maschinen-bau GmbH.

Product availability, appearance, technical specifications and details are subject to continuous development. All information presented here is therefore subject to change.