UCDSystems

VEHICLE INSPECTOR

Recessed version

Top version

Rail version

The world's best multi-purpose SECURITY SOLUTION "UVIS"

> The VI-2 is available in three different versions making it possible to integrate in every surrounding.

VEHICLE INSPECTOR
by UCDSystems.

The unique design of the VI-2 system makes access control and maintenance control on vehicles easier and safer. A reliable analysis can be made because of the 360 ° view with 4K image quality video recording. All modules are hot-swappable.

1 | **1x 360° camera module**

Two cameras with 360 ° view, in 4K image quality. The protective camera glass will be automatically cleaned.

2 | **4x LED module**

Four LED lights with a special diffusion filter will illuminate the undercarriage of the vehicle evenly for better recordings.

3 | **2x Laser module**

The motion detection system will locate a vehicle and its driving direction. The system captures both incoming and outgoing traffic.

4 | **Weatherproof housing**

The VI-2 is made of high quality stainless steel. The climate control system ensures that the system continues to work under all circumstances.
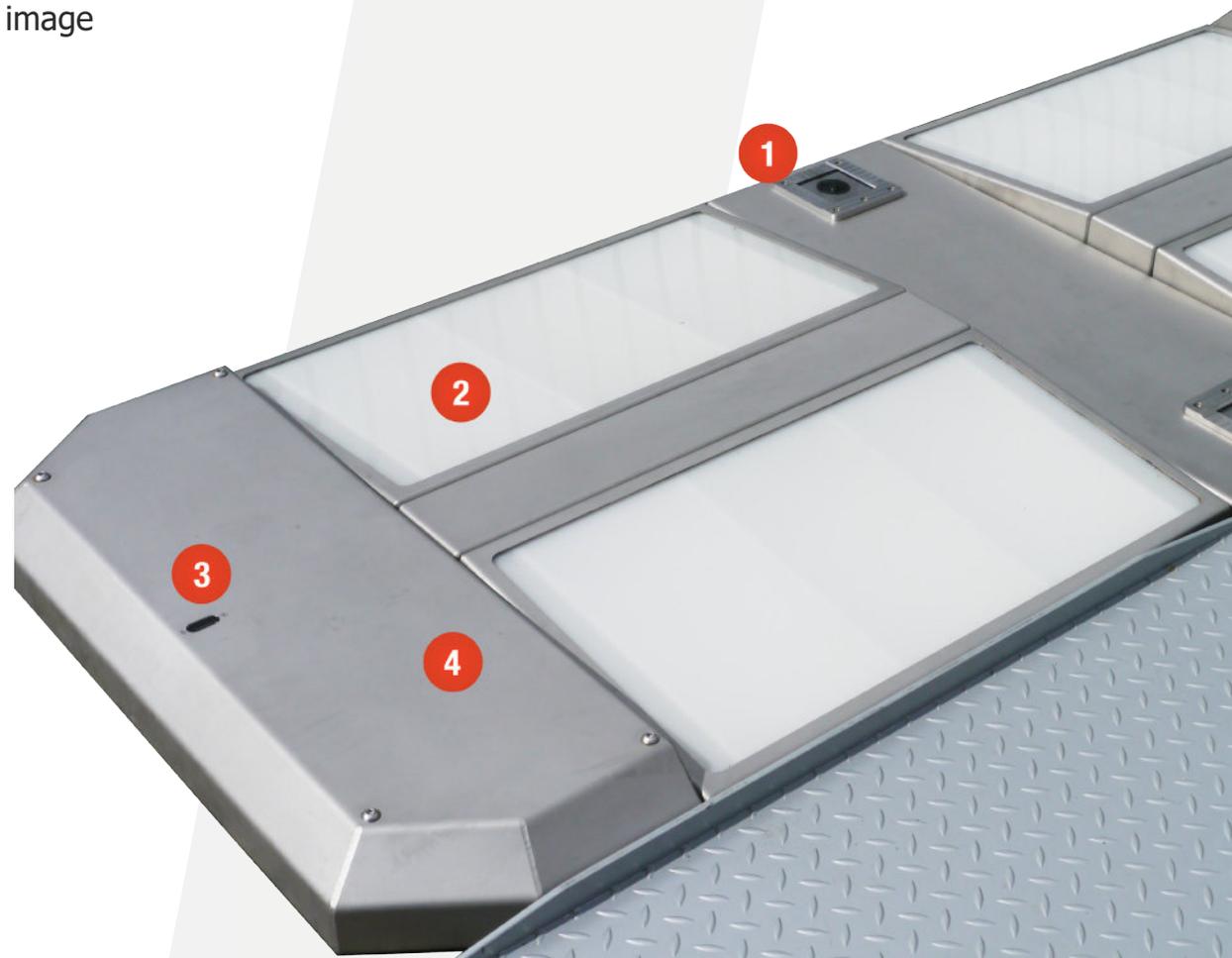
IMPORTANT FEATURES

A unique design

Flexible integration

Because we offer our software with an open API, it is possible to integrate in almost every environment, to operate gates and lights or to implement into an existing CCTV network. In case you have a total environment where all entrance gates use their own VI-2 system it is possible to keep track from a central point. This can either be from a local environment or from multiple environments connected through the internet.

Minimal maintenance

The VI-2 requires little maintenance. The glass for the cameras will be cleaned automatically, and the desired temperature will be kept by a climate control system. The VI-2 is able to check its own function, any errors are reported directly to the users.
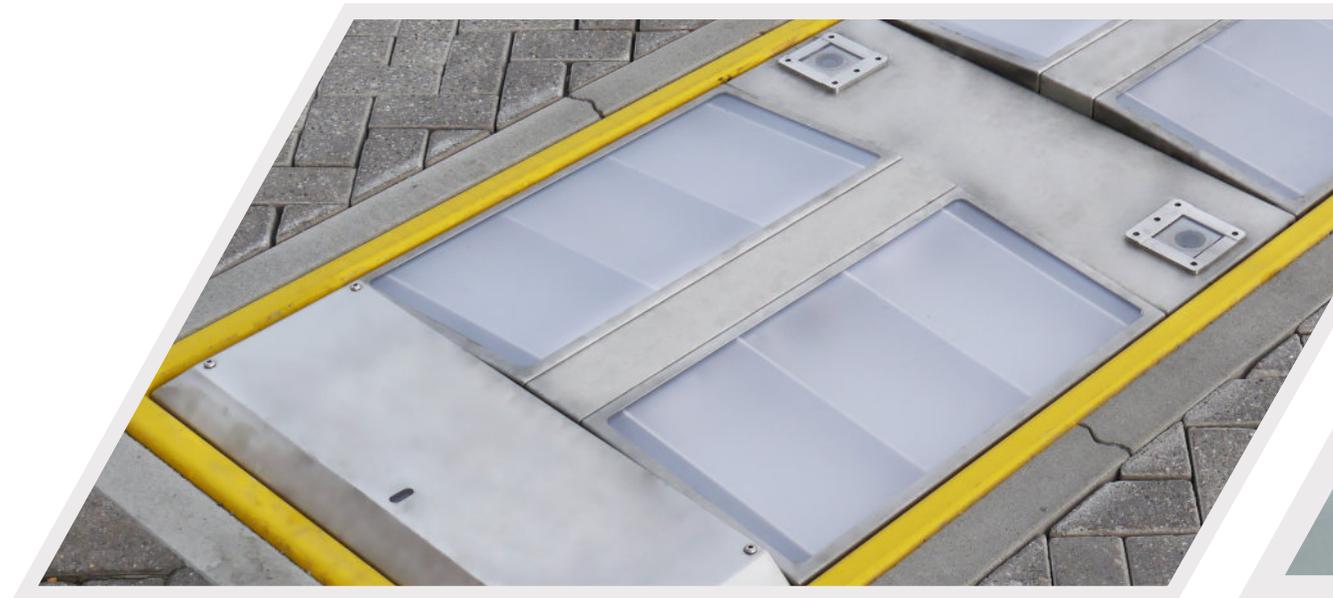
Collecting data

Each video recording of a vehicle will receive a timestamp. Data like the platenumber, video from the top and bottom of the vehicle as well as a video of the surrounding area will be saved in a powerful VI database and provided with custom metadata.

Tip: The basic VI-2 can be combined with several additional components. Check page 15 for further information

Managing Data

Even at an extremely high volume of trafic we lose no control due to fast data processing from the VI database. A timestamp and default metadata will be attached to all stored data. The duration of the date storage can be determined by yourself. With the help of this information reports can be generated to provide insight into traffic and activities.

- Automatic cleaning of the glass for camera protection

- Automatic cooling and heating of critical parts

- 360° view with 4K image quality

- Suitable for environments with temperatures from -30 ° C to +90 ° C (-86°F to +194°F)

- Easy replacement of different modules

- Multiple reporting options with the ability to generate reports

- Readout and/or manage single or multiple systems centrally

- Easily expand with existing systems

- Easily searchable database with user-friendly search features

VI-2 RECESSED VERSION

The sustainable safety system

The VI-2 can easily be integrated into the road surface. We will use a VI-2 built-in frame with a cable duct and a separate drainage. The upright edges of the frame are at the same height as the road. The system disappears almost entirely into the road surface.

"

The VI-2 can easily be integrated into the road surface.

Passing the VI-2 the driver will be guided thorougly by posts and markings so the VI-2 will not be damaged when driving over.

- Integrated into the road surface
- Pre-assembled cable crossing
- Separate rainwater drainage
- VI-2 parts are easily interchangeable
- Good visible guidance while driving
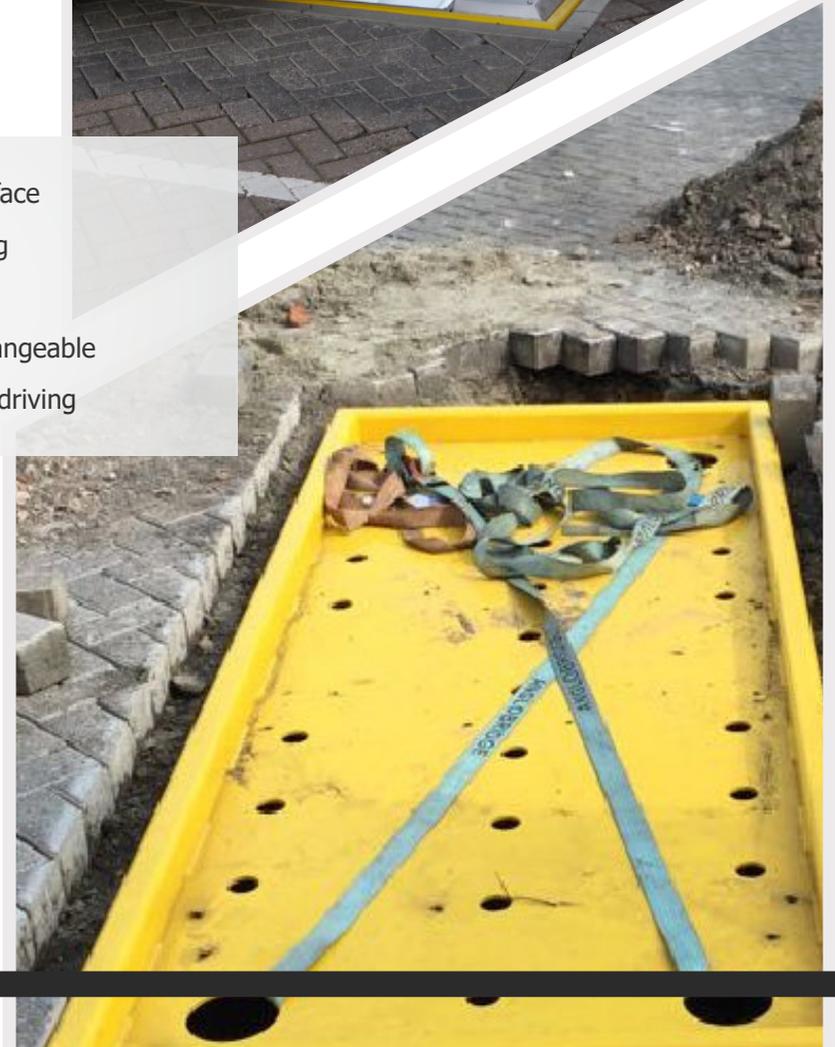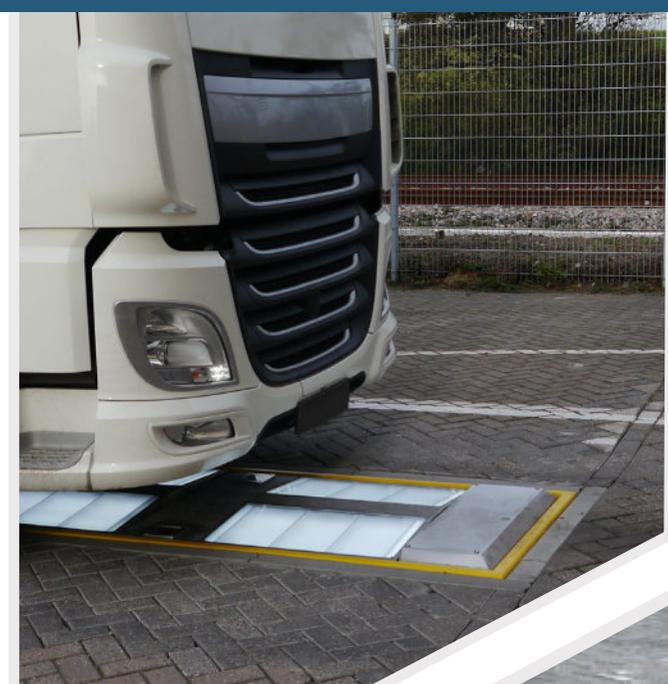
VI-2 TOP VERSION

The mobile plug and play system

The VI-2 can be mounted onto your existing road surface without breaking or drilling large holes. By using a construction of plates the VI-2 can be embedded onto a flat road surface. Through the design of the plate construction it is possible to easily replace parts.

"

The VI-2 can be placed without reconstruction of the road surface.

The power cables run through a overground cable guidance system which will be mounted to the existing road surface. In addition to the VI-2, ramps are placed in a 60 to 120 centimeters width to guide the driver over the VI-2.

- No reconstruction to the road surface required
- Can be used as a mobile system
- Set up in just 60 minutes
- Integrated conduction with the help of guiding ramps
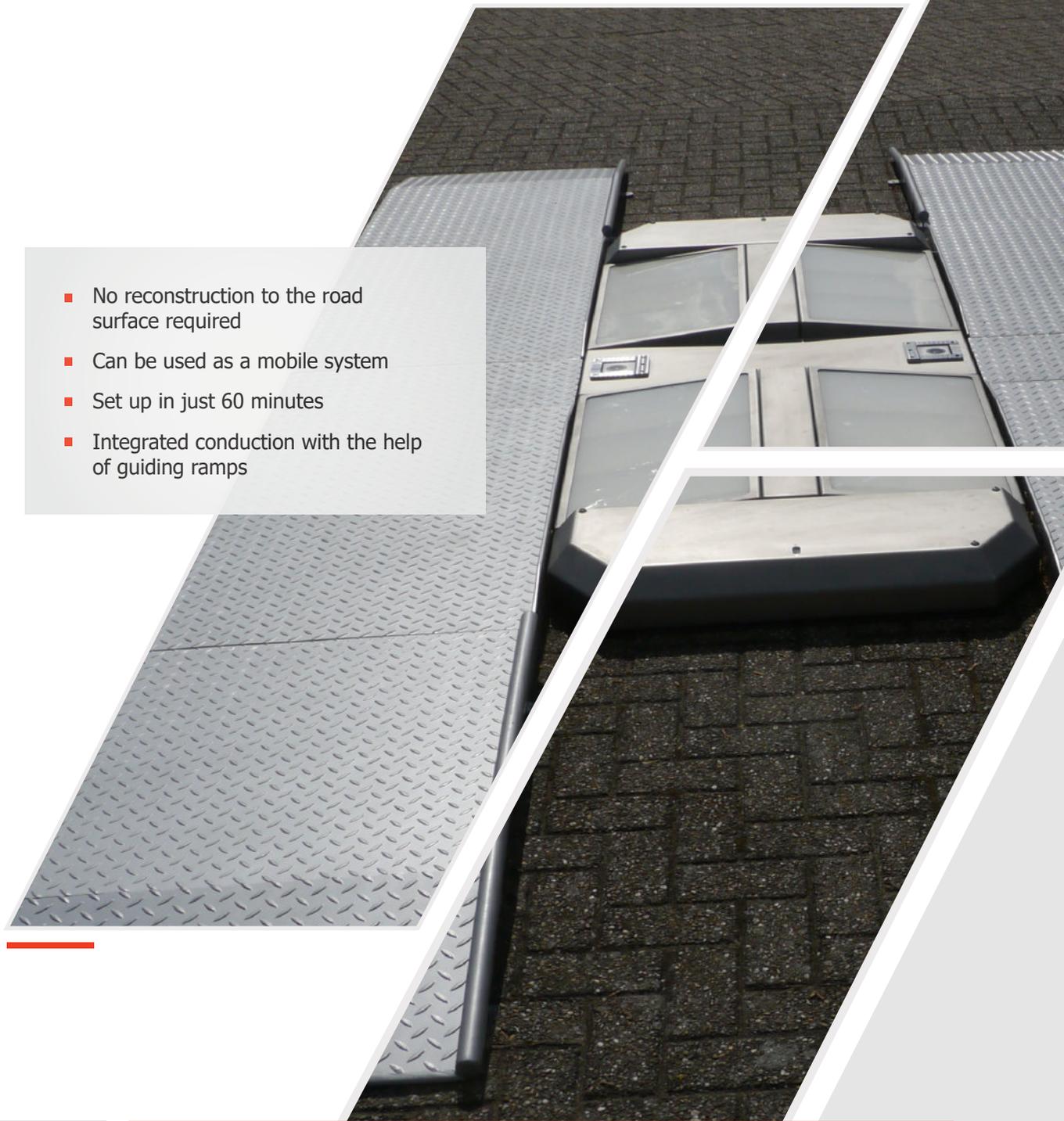
VI-2 RAIL VERSION

The railway inspection system

The VI-2 can be installed in between the rails without major adjustments. The system can thus be used to check the quality of the train and to spot any undesirable objects. The VI-2 will offer you the possibility to view spots that are hardly visible for your employees. The VI-2 will make it possible to see any details concerning the wheels, brakes and cabling of the train as well as any objects on top of the train.
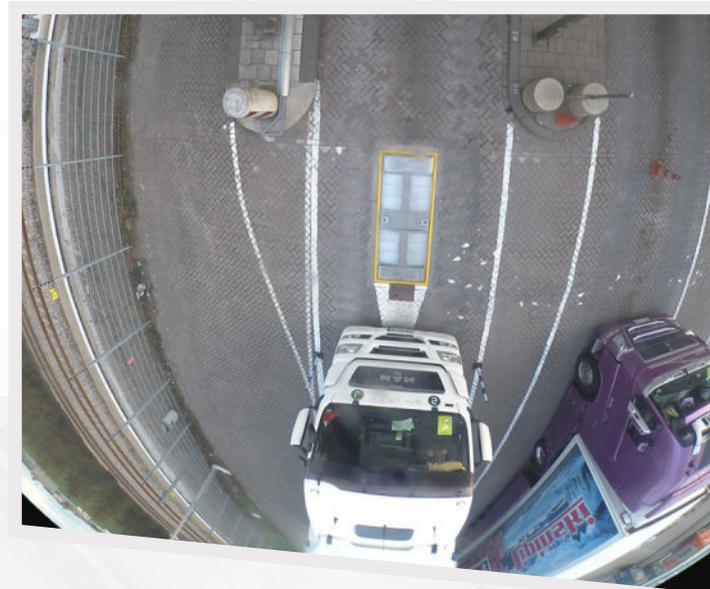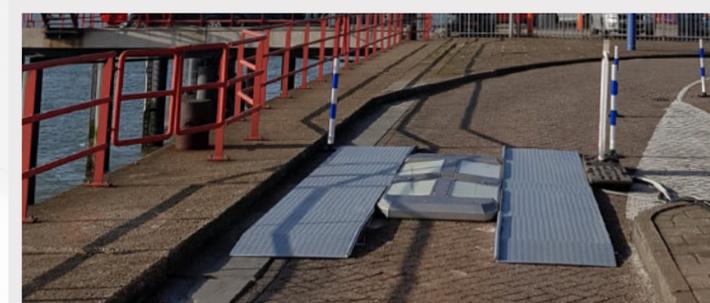
"

The VI-2 can be installed in-between the rails.

- Suitable for train, tram and metro
- No track adjustments
- Great for maintenance controls

Most flexible solution for security and maintenance checks

VI SOFTWARE

Flexible and user-friendly

The software is being developed by us and has been adapted from the market through the wishes of our existing customers.

Due to the flexibility of the software it is easy to make adjustments for specific use.

Because of the clear interface your IT administrator will be able to manage and configure the software largely by himself.

Within a network environment the software can be connected to other software packages and provides support for data transfer by means of an API.
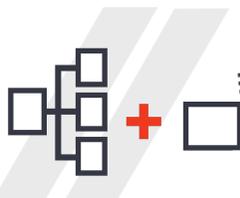
An external system will give you the possibility to retrieve data from the VI or to control the system.

The software has been developed with the latest web techniques. A modern web browser is all that is needed to gain insight in all data and video clips.

Tip: Set up a connection from the VI software to your current software? This can be realized on a project basis.

One of the advantages of webbased applications is that it offers a application that can be used within a local network or via the internet.

LIVE-VIEW CAMERA

View live recordings

The live view cameras are a standard parts inside of the VI-2. It will only record when a vehicle is passing. All images showing the underside of the vehicle are pin sharp and can be viewed immediately via the so called „live-view" VI-2 software. The live footage of any additional cameras connected to the VI can be displayed on a second or third screen.

In many situations, the live view already provides enough information to be able to determine whether a vehicle needs to be further inspected. This can be done by retrieving all captured footage in the replay viewer.

SETTINGS
VI software features
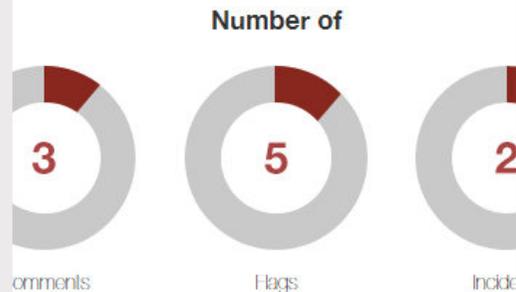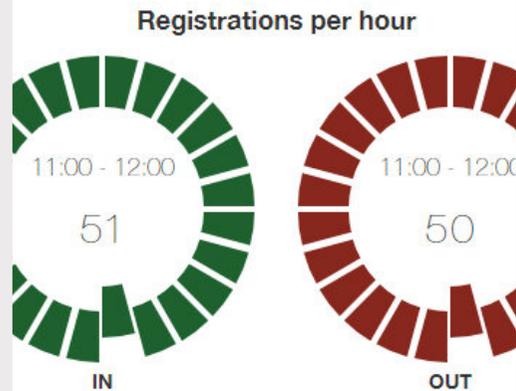
Easy configuration
Adjust special parameters for your check points so that additional components like extra cameras that will add a picture, a video or read out a platenumber.

User Management
Check which staff members need to access the system and assign their user role. Each user role has specific privileges which can be set by the administrator.

Real-time status updates
Keep track of all checkpoints by monitoring the status screen. The system will show you the status by using indications. Any errors will be displayed here.

History
Search the entire database and follow vehicles passing different checkpoints. By using search filters it is easy to make a selection of all registrations that need further investigation. You can choose for how long you want to save the history and generate reports that will help you to make decisions.

Visitor pass system

Connect each visitor that enters your site to a visitor pass. See who enters your premises and control the areas they can access.

Reporting service

Upon request you can generate operational, management or forensic reports. Use the settings to schedule the sending of periodical reports by email.

Contact management system

Add your visitors contact details to the system. Any contact details can be viewed by a simple click so security can carry out their work quickly.

Vehicle Passport

Keep detailed information for each vehicle like date of visit, driver identification or duration of stay. Historical date can be reviewed and specific data can be added.

Alarm service

Make a list of all platenumbers and receive automatic notifications if a vehicle passes your checkpoint. Notifications willl be sent directly to the security and can be seen through the software. Eventually it can also be attached to a SMS or email service.

Video Insight

Watch Video Insight to see all recordings made at a central point. Video Insight will be used to clearly map notifications from different checkpoints. A specially developed status screen will alow you to look at saved data.

CONTROL CABINET
Electronic management

The control cabinet is an IP55 rated cabinet in which the electrical management is placed. The control box is equipped with a management display so the status of the installation can be monitored and tested. The VI-2 climate system is placed under the cabinet. The cabinet can easily be connected with a redundant power supply, a network connection and a connection for compressed air.

The standard version offers various options for extending the system with for example traffic lights and / or the control of automatic barriers.
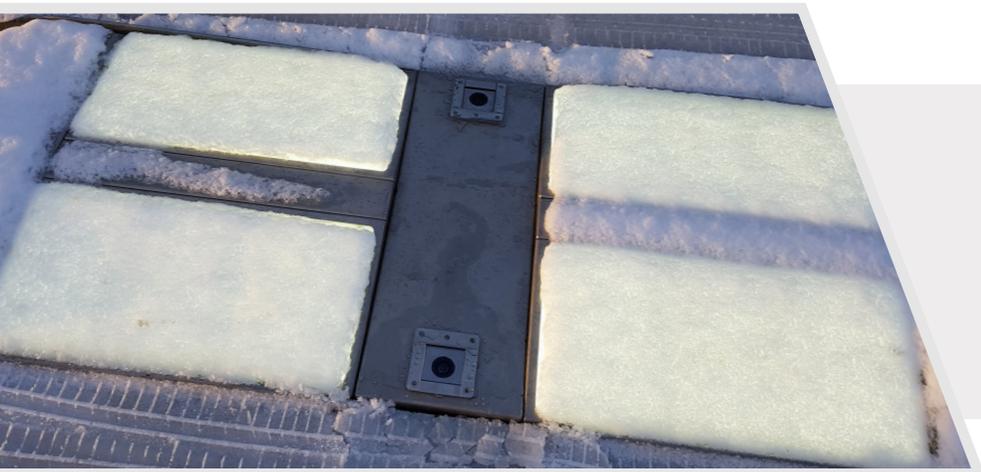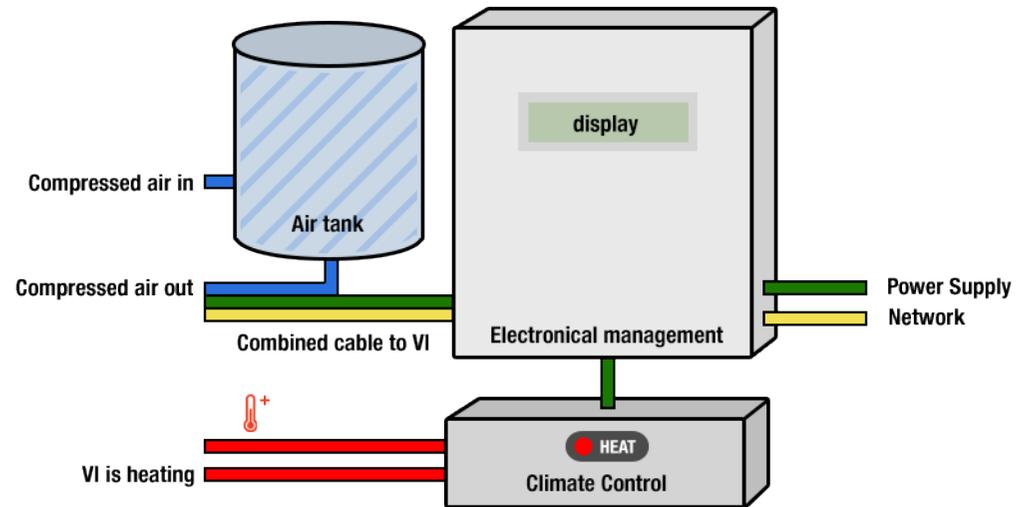

The climate control system keeps the Vehicle Inspector at right temperature. It is of major imporatance that the system will work under all weather conditions. In addition, the cleaning mechanism ensures that the cameras will maintain optimal visibility.

OUTDOOR CABINET
Outdoor Control cabinet

When it is not possible to install the cabinet indoors you can pick one of our outdoor cabinets and place it near to the VI-2. The control cabinet will be installed inside of the outdoor cabinet with the VI-2 climate control system underneath. It is possible to install multiple VI-2 control cabinets inside of a single outdoor cabinet. There are two different options for installation of an outside cabinet.
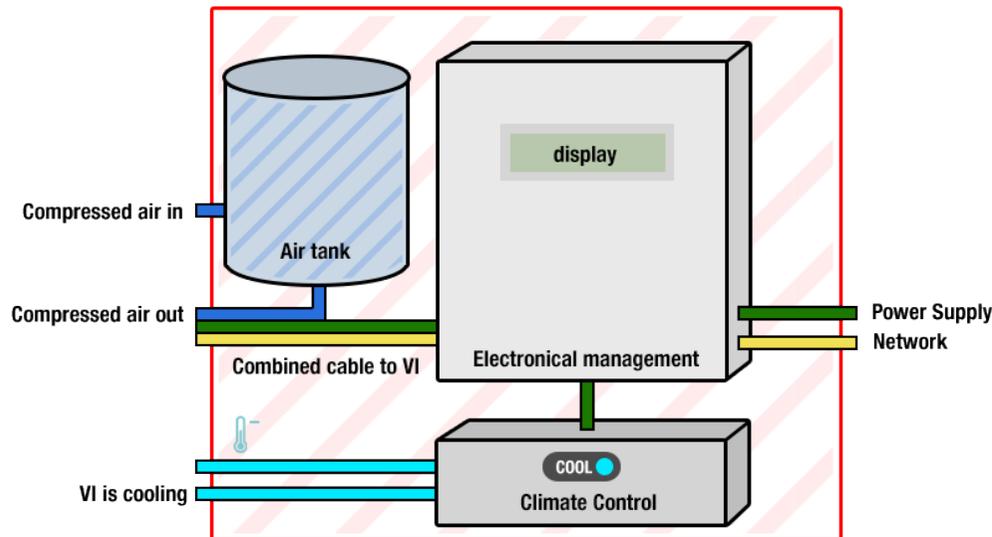

Options for outdoor cabinet

1 | **Outdoor cabinet with passive cooling**

This outdoor cabinet with passive cooling will be kept at the right temperature by the natural airflow which flows through the cabinet.

2 | **Outside cabinet with climate control**

This outdoor cabinet has a climate control system and is extremely suitable for tropical or extremely cold weather conditions. The control system is able to keep the right temperature within the cabinet.
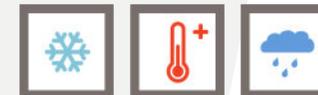
COMPONENTS
Additional hardware options

VI-2 ANPR Camera

The ANPR camera is used to automatically recognize license plates. This camera can be linked to a Vehicle Inspector but is also available as a stand-alone option for a separate checkpoint. The automatic recognition of licence plates guarantee faster checks and accurate vehicle tracking.

- ✔ Filter license plate
- ✔ Route control
- ✔ Activates Vehicle Comparing
- ✔ Activates software events
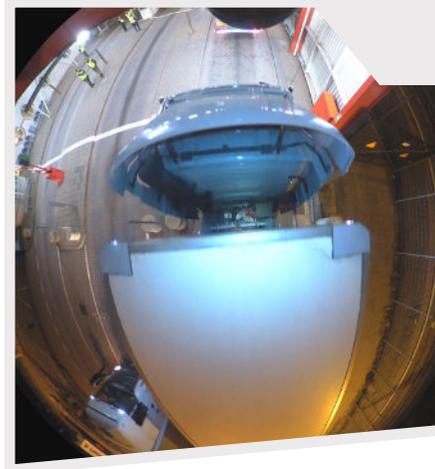
VI-2 Topview Camera

The standard Vehicle Inspector can only view the bottom of the vehicle. Nevertheless checking the top of the vehicle is at least as important. The Topview camera will make it possible to record images from the top of the vehicle. In addition, the camera also gives a good overview of the entire checkpoint. The footage is provided with a time stamp and platenumber of identification number of the vehicle.

- ✔ Video clip from top of the vehicle
- ✔ Integrate into overview screen
- ✔ Time stamp
- ✔ Interconnected to platenumber

VI-2 Overview Camera

The VI-2 Overview camera is used to gain extra visibility on key points that are not being recorded by the Vehicle Inspector. This camera is an enrichment in case extra activities like the content of a trunk or the engine hood need to be recorded by camera. This can be done by adding a picture or a video.

✔ View of the total environment

✔ Control of work processes

VI-2 Comparing module

With the help of an additional camera inside of the laser module the comparing module ensures that a full picture of the underside of the vehicle is taken. The included software plugin matches/compares pictures of the same vehicle at different points in time. Any changes to the vehicle will be shown automatically.

✔ Full overview from underside

✔ Computer Vision

✔ Automated comparison

PRODUCT OVERVIEW

VI-2 Basic versions	A000796	VI-2 Recessed	*Hardware / software set*
	A000797	VI-2 Top	*Hardware / software set*
	A000508	VI-2 Rail	*Hardware / software set*

Outdoor cabinets	A000798	VI-2 Passively cooled outdoor cabinet	
	A000799	VI-2 Climate controlled outdoor cabinet	

Compatible software	A000916	Video Insight	
	A000915	Face Matching software	

Options	A000800	VI-2 ANPR camera
	A000801	VI-2 Topview camera
	A000803	VI-2 Overview camera
	A000802	VI-2 Comparing module
	A000804	VI-2 Face camera
	A000805	VI-2 Thermal camera

VI-2 Projects	The product overview shows only the standard products. A project is started when multiple systems need to be linked or in case of special software requests. During the project we will look for a cost-effective installation.

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**SECURITY
SOLUTION**
"UVIS"

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