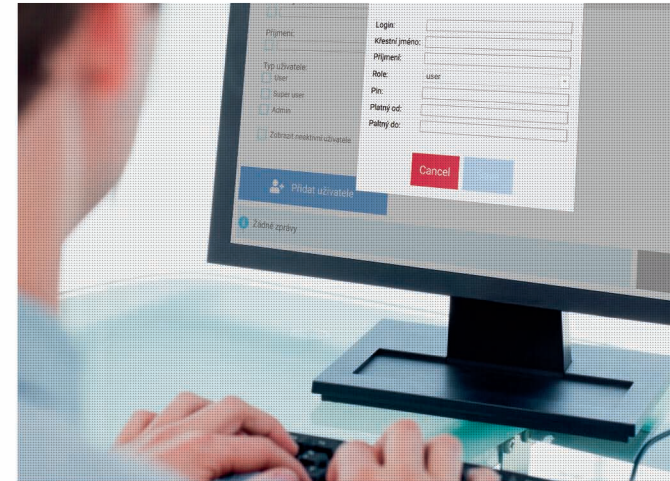


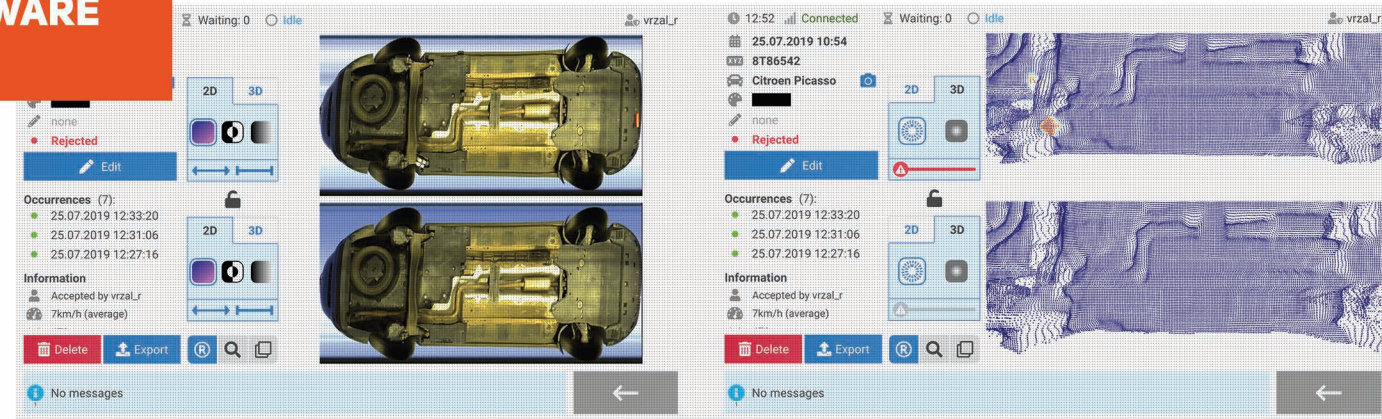
# KERBEROS 3D VISION

**3D scanner** for visual inspection  
of vehicle's chassis

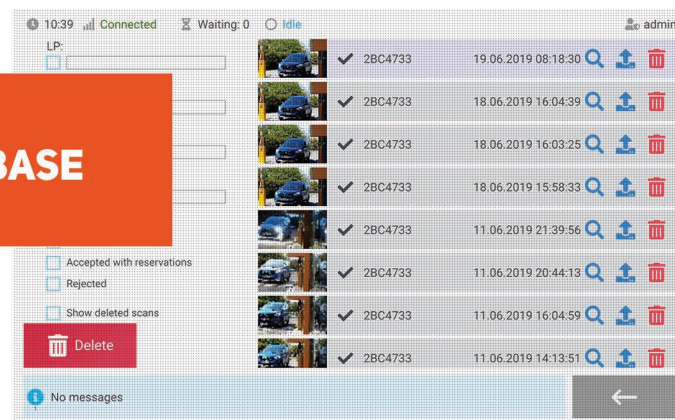
The KERBEROS 3D VISION software is characterized by its user-friendly interface. The KERBEROS 3D VISION offers advance 3D image analysis with automatic evaluation and creation of full colour images of the chassis with a high resolution. Image size and aspect ratio is automatically adjusted to the real ratio of the width and length of the vehicle, it prevents a substantial deformation and distortion of the observed areas. The KERBEROS 3D VISION allows the operator to verify and identify a specific object on the vehicle chassis within a few seconds.



## SOFTWARE



## DATABASE



- APPLICATION**
- electricity power plants
  - airports
  - chemical companies
  - security services
  - government and military facilities
  - state borders



- KERBEROS 3D VISION IS DESIGNED**
- to secure sites of critical importance for the state infrastructure (electricity power plants, military sites, chemical companies, political headquarters, state borders, etc.)
  - to secure other highly frequently sites (underground garages, ferries, exhibition centres, shopping centres)



- REFERENCES**
- VOP CZ delivers its security solutions to several customers including the State security forces. Given that it is of extreme importance for us to respect the security and confidentiality of our customers, we could give you more information during a personal meeting, provided that we do not break any agreements of confidentiality or the customer wishes



## VOP CZ, S.P.

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# KERBEROS 3D VISION

## 3D SCANNER FOR VISUAL INSPECTION OF VEHICLE'S CHASSIS

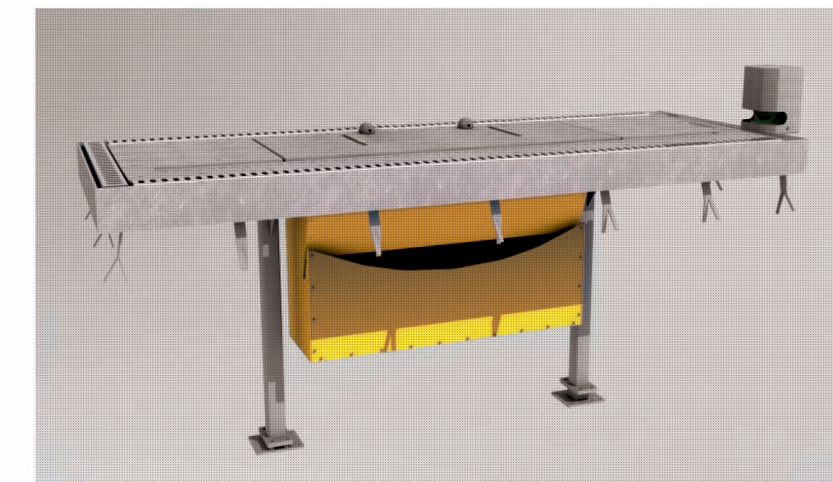


## BASIC CHARACTERISTICS

The KERBEROS 3D VISION is a globally unique system specially designed for inspection of chassis surface of vehicles in normal operation. Its mission is to detect and prevent the entry of vehicles that could represent a threat to the protected area. The KERBEROS 3D VISION allows an automatic detection of potential terrorist and sabotage attacks as well as various spy equipment.

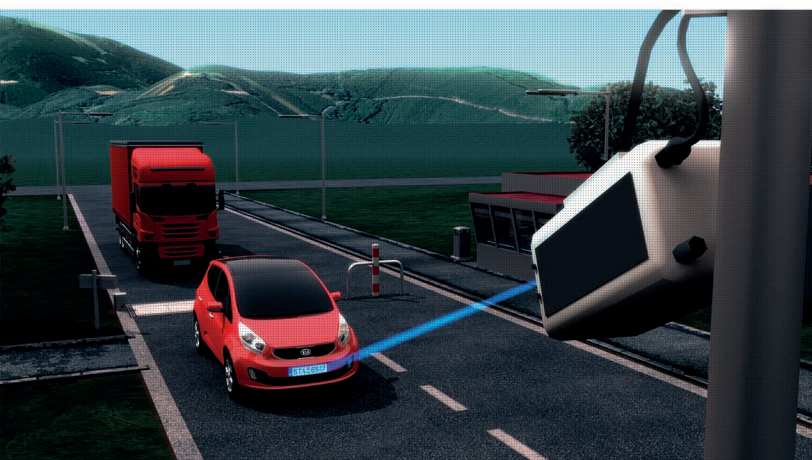
## SCANNER BUILT INTO THE ROAD

The KERBEROS VISION consists of a base frame and the scanning unit, which is further composed of two scanning elements and special camera.



## LICENSE PLATE RECOGNITION SYSTEM

The license plate reading systems consists of a special TV camera with high resolution and the possibility of taking images in infra-red (IR) spectrum with its special software. The system displays the read and recognized license plate and creates a list of all recognized license plates with date and time of the passing vehicle including pictures.



## ADVANTAGES OF THE SCANNER

- 3D scanning technology for vehicle's chassis
- automatic comparison and evaluation of chassis 3D snapshots
- full colour image chassis with a high resolution
- automatic detection of suspicious objects
- identification and recognition of vehicles by license plate
- easy and quick to use software
- guaranteed transit of up to 6 vehicles per minute
- possibility of implementation into existing security systems

## THE KERBEROS 3D VISION CONSISTS OF:

- 3D scanner and special camera built into the road
- unique evaluation software KERBEROS 3D VISION
- other accessories

## SPECIFICATIONS

- type of vehicles: cars and trucks (max. 12t per axle)
- processing time per vehicle: real time, average of 10 seconds
- entrance flow: (depends on the type of installation) about 6 vehicles per minute

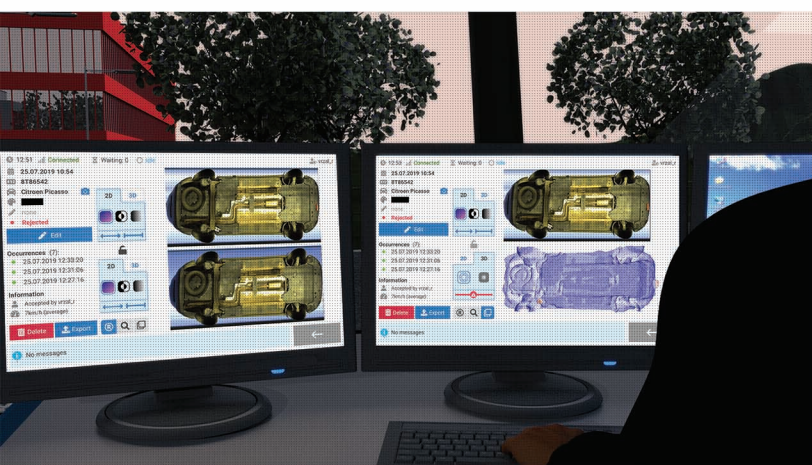
## SPEED INDICATOR

Along with speed bumps and guidance lanes to slow down and guide the vehicle in the correct speed, position and angle to the 3D scanner built into the road.



## CHECKPOINT

Remote control and monitoring unit for handling the 3D scanner, including control and evaluation software KERBEROS 3D VISION.



## INSPECTION PROGRESS

As soon as the vehicle goes thru the scanner, a 2D and a 3D snapshot of the chassis will be created, at the same time the vehicle is identified with the help of its registration plate recognition system. This step is followed by an instant analysis of the 2D and 3D snapshots of the chassis and its comparison with other chassis pictures stored in the database. The 3D snapshots are shown in the operators monitor and in case of any differences these would be automatically marked. Simultaneously 2D snapshots of the chassis are shown in the monitor, making it possible for the operators to verify and identify the presence of any possible objects.



## SCANNING UNIT

Into the scanning unit are stored scanning elements. These elements use measuring time technology consisting of flying time of the laser beam and allow you to capture 3D images of scanned objects. The industrial design of the scanning elements is also suitable for difficult operating conditions. At low temperatures it automatically uses its integrated heating device.

