

**VAiOS**



# **VAiOS Parking Systems**



## Access control through barriers and parking systems

Barriers and parking systems are one of the most common ways to control access to property (open or closed) when access control, monitoring and monitoring is required. We, the VAIOS team, can offer our customers from local solutions with single barriers to complete ticket systems. They are web-based monitoring through our software platform.



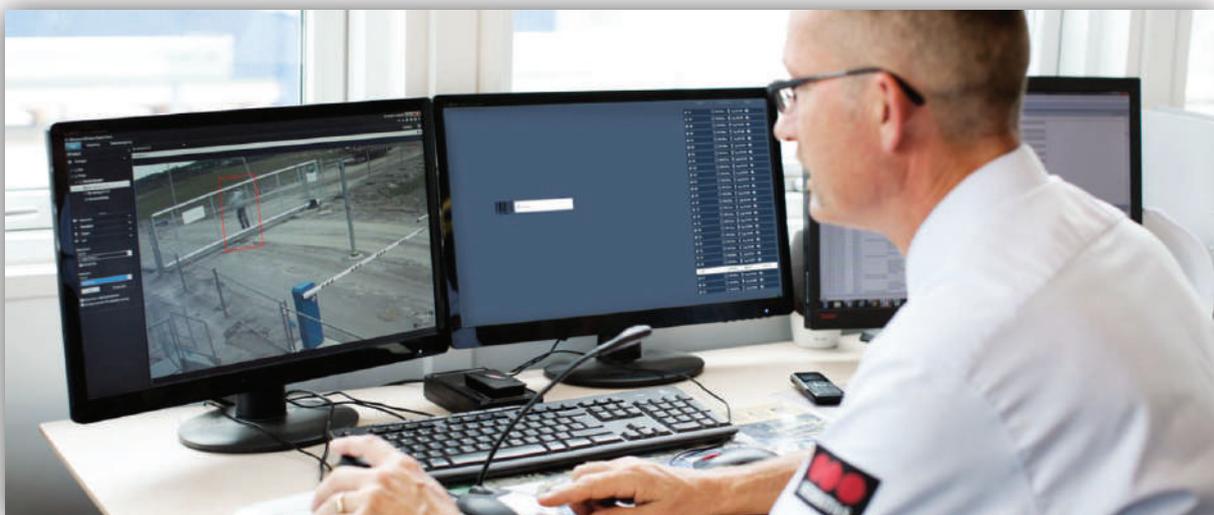
The system can be monitored remotely via any Internet device. This allows many sites without parking system to be combined into a single platform. Thus, accordingly, information about them can be tracked and provided through references.

The parking system may include entrance and exit barriers, payment terminals, as well as a staff booth delivered and installed by our installation teams.

## Combined triple system

The latest trends in barriers and parking systems are for triple coverage and control of the flow of cars. This includes a system for:

- ✓ vehicle number recognition,
- ✓ ticket system combined with payment modules and devices,
- ✓ the standard entry and exit procedure with access control.





## Main advantages of our barriers and parking systems

- ✓ Internet based online software that allows you to control from anywhere via the web;
- ✓ The system is certified and manufactured by us;
- ✓ We maintain various payment systems - at the reception, booth, through coins and banknotes, the possibility of machines with resto;
- ✓ Entry and exit through tickets, cards, tags, remotes, contactless;
- ✓ Possibility for parking of cooperatives, business buildings, malls, hotels;
- ✓ Possibility to open by recognizing the car number;
- ✓ Combining with garage doors or other control systems;
- ✓ Possibility for other colors and sizes.



## Ticket system

The system of tickets for barriers, parking lots and garages is used in larger complexes. Ticket terminals are placed at the entrance and exit barriers. Entrances issue a ticket with a barcode. When it is issued, the unique number of each ticket is recorded in the system with the respective time of its issuance. The output terminal is equipped with a barcode reader that reads the unique number and controls whether the stay is paid. Visitors pay for the stay of their cars by checking payment terminals. They can be located at convenient communication points throughout the site. Most often you approach the parking lots themselves.



An inconvenience with this system is that the ticket can be lost and visitors forget to pay for it. Therefore, a payment terminal is often placed at the exits of the parking lot to avoid traffic jams. At the payment terminal, guests can pay for their stay by entering a registration number (when the system is combined with one for recognizing and reading car numbers) or scanning a ticket.



## System with control cards and chips

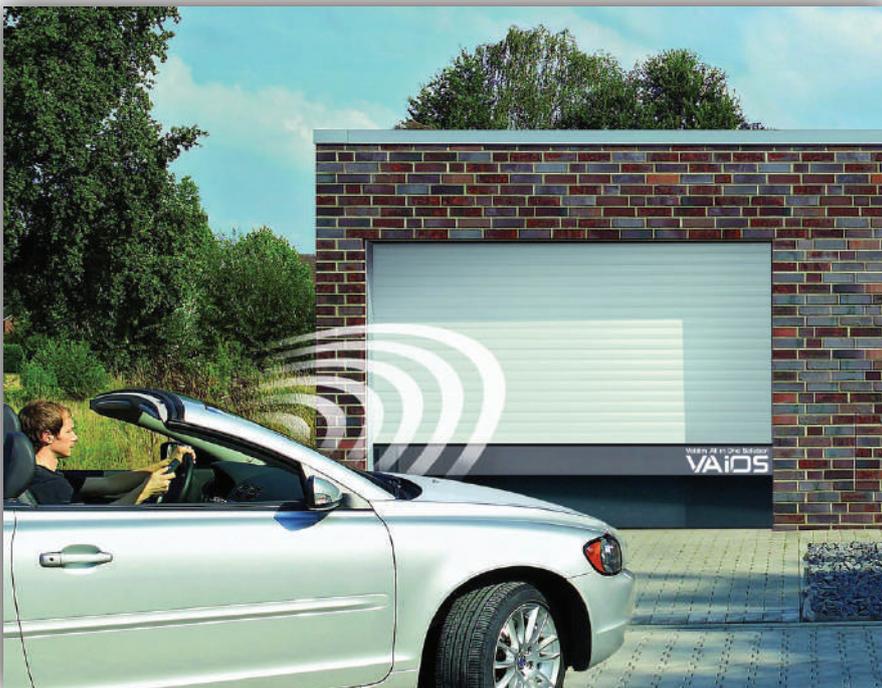
They use standard products from access control systems. The reader is most often built into the input and output terminals. When passing, the driver of the car checks his card, chip, bracelet or other device with an access control chip. It is possible to issue temporary cards, in which an employee at the entrance and exit of the parking lot activates the card in the system, after which it starts counting the time for stay.

When checking the output, the system calculates the amount due. This system is convenient and suitable for car parks where users have a subscription. Thanks to the fact that our system is online, the customers of the parking lots have the opportunity to top up their monthly subscription online, as well as to monitor in their own account how long their cards are valid.



## Control from distance with UHF readers

A very modern method of controlling access to car parks is the remote control system with UHF readers. It uses a sticker-type card that sticks to the windshield or awning of the car. It can be read from a distance of up to 12 meters and the barrier can be raised or the front door open. The card has a unique individual code, which is read by the system and recorded in the access control software.



The triple system, a combination of the modules described above, is most preferred for large car parks and garages. Thus, the owners are triple insured and the continuous operation of the system is guaranteed. Something that is extremely important for sites such as hospitals and health complexes and of key importance for the busy parking lots of shopping malls.



## Number recognition system

In this installation, the parking lot is organized with an entry and exit point. Special cameras are placed on them to detect car numbers. They read them and save them in the system software. How is the stay recorded? When a car passes through the barriers - the entry point, its number is automatically recognized by the installed camera and the car number is recorded in the system. In case of bumps, stains and other cases in which the car numbers cannot be recognized by the system, an input terminal is used. He issues a ticket registering what time the car entered. When leaving the parking lot, the exit camera automatically recognizes the number again, compares it with the entry time of the specific number and calculates the amount due for a stay.



## Payment methods in VAiOS parking systems



Payment in the parking systems of VAiOS can be in cash and online. Payment in cash is performed with the so-called payment machines, which in turn have the ability to pay also by bank card. Online payments are increasingly entering our daily lives, which is why VAiOS has made this innovation in our parking systems as well. We have developed a module for online payment via APP or web application, through which you can pay for your stay. Thanks to our system, you do not need to get out of your vehicle, and when the system is combined with number recognition cameras, you may not stop at all at the entrance and exit of the parking lot. Online payment is becoming an increasingly preferred method, which also acts as a preventive measure in the current challenges we face. Our web-based systems allow the payment and inspection of a car to be carried out from multiple locations, such as information desks, receptions, offices, payment terminals, through mobile devices.

What makes our systems innovative is that we can add them to any other segment of our systems, and integrate the whole process into one solution. VAiOS parking systems can be combined with our other systems such as time attendance, access, video surveillance, fire alarm, as well as modern UVSS systems.





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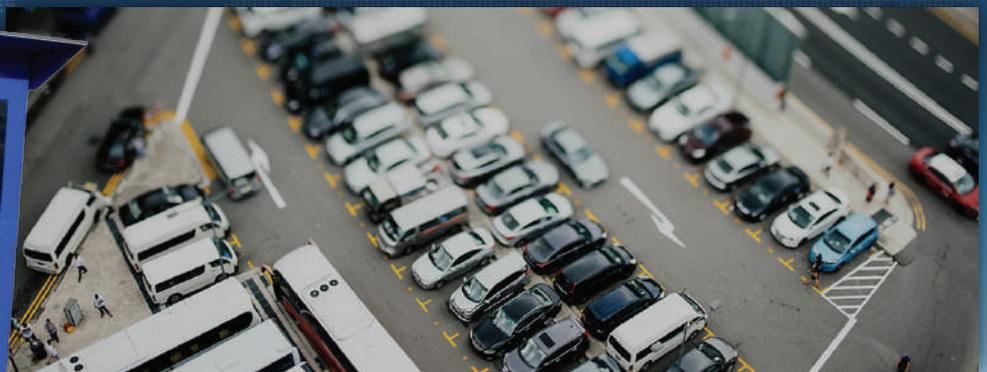
Sites built with  
VAiOS parking systems

## Livestock station / Varna



For the parking area of Livestock station in the city of Varna VAIOS has built a parking system combining barriers, video surveillance and lighting. Automation helps service the bandwidth solution, and control is done on-line through web-based software, one of the symbols of VAIOS Smart systems. The system has a new design of the terminals, which have a modern appearance, and the equipment in them is of the highest level.

## Park & Travel / Sofia Airport



VAiOS integrates the parking system with a QR code for access in the order for the renovation and modernization of the parking service at Sofia Airport. The system works by providing access from a QR code, which can be checked both from a ticket and directly from the smartphone screen. The web-based software provides the opportunity for parking reservations as well as access control by the customer through a link that acts as a QR code.



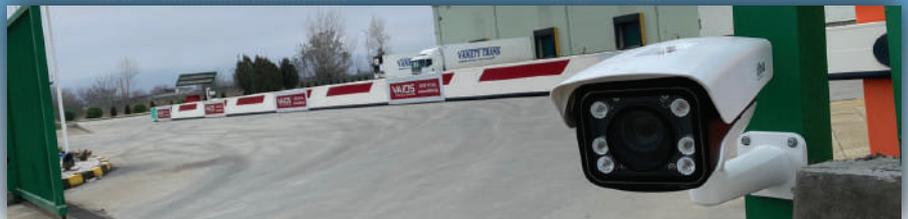
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## Global Trans Trade / Plovdiv

VAIOS has built a parking system for the Global Trans Trade warehouse. with integrated technology for recognizing car registration numbers. The complete parking system includes portal doors with automated operation mode, synchronized with the working day.



## Complex "White Church" / Pancharevo

For the White Church complex in Pancharevo, VAIOS has built a parking system working with control cards, chips and bracelets. The parking system is integrated in a single web-based software with the access control system and the gym system, serving the fitness facilities of the complex.

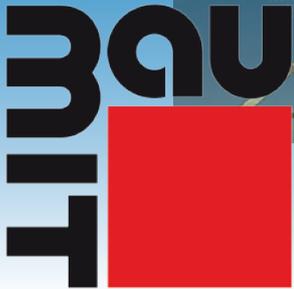




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## Baunit plant / Yambol



We installed a 7-meter barrier for the parking system of the new Baunit plant in Yambol. As standard, the system works with remote controls, but also has the ability to control through an app application.

## Grain base "Agria Group Holding" / Devnya



Two 4-meter barriers control the access to the Grain Base of Agria Group Holding AD in Devnya. The parking system works with remote controls as standard, but can also be controlled via an app.