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number**k**
License Plate Recognizer

DESCRIPTION

 <p>NumberOK software</p>	One channel recognition	
	Two channel recognition	
	Four channel recognition	
 <p>The module of the executive mechanisms' control «Barbos»</p>	alarm input	4
	relay output	4
	USB device	
 <p>The network module of the executive mechanisms' control "ICP CON"</p>	alarm input	6
	relay output	6
	Power and connection over Ethernet	

FUNCTIONS

- 01** LICENSE PLATE RECOGNITION / 1, 2, 4 RECOGNITION CHANNELS /
- 02** COMPATIBILITY WITH ANY TYPE OF CAMERA / ANALOGUE OR IP /
- 03** SAVING SCREENSHOT OF THE VEHICLE AND STORAGE OF ALL RECOGNITION EVENTS IN THE DATABASE
- 04** CONTROL OF EXECUTIVE UNITS / BARBOS MODULE OR ICP DAS PET-7060 MODULE /
- 05** CONTROL OF VEHICLE ACCESS BY TIME, DATE, DURATION OF STAY AT THE TERRITORY, BY NUMBER OF ENTRIES
- 06** DIVIDING VEHICLES INTO GROUPS
- 07** GENERATION OF REPORTS FOR A PERIOD OF TIME USING DIFFERENT FILTERS / ENTRY / DEPARTURE, TRAVELLING DIRECTION, ACCESS ETC. /
- 08** ASSIGNING DIFFERENT USER ACCESS PERMISSIONS

OBJECTIVES

CONTROL

Capture and recognition of license plate numbers and storing them in your database.

RECORD

Defining the total number of vehicles, counting time the vehicle spent at the territory, counting travel time between two control points, automatic generation of reports, sending reports via e-mail.

ACCESS CONTROL

Control of executive units /barriers, gates, alarm etc./ by means of relay control unit Barbos or ICP CON. Automatic access for the vehicles from white list and alarming the guard on detection of number plate from the black list.

ADVANTAGES



NUMBEROK COMPETITIVE ADVANTAGES:

- high recognition accuracy /95%/
- rich functionality
- affordable price
- business logic /parking, car wash, service station/

NUMBEROK MAKES IT POSSIBLE TO GET MORE PROFIT AND REDUCE EXPENSES.

NUMBEROK CAPTURES NUMBER PLATE SYMBOLS, KEEPS RECORD OF VEHICLES AND CALCULATES DURATION OF THEIR STAY AT THE TERRITORY.

USING OBTAINED DATA NUMBEROK CAN GENERATE REPORTS AND SEND THEM VIA E-MAIL.

NUMBEROK ENABLES MONITORING OF VEHICLES AT YOUR CAR WASH /PAID PARKING, CONSTRUCTION SITE, CHECKPOINT ETC./ FROM ANY PART OF THE WORLD.

INTEGRATION WITH THIRD-PARTY SOFTWARE

THERE ARE TWO VARIANTS
OF INTEGRATION NUMBEROK
WITH THIRD PARTY APPLICATIONS:

BY NUMBEROK DATABASE:

If your application uses free database (FireBird etc.) you can manage database and collect data from NumberOK in the real time.

You can make changes to the list of allowed /denied/ vehicles control time of allowed access, and make queries for report generation.

INTEGRATION BY TCP PROTOCOL:

The external application can collect all data from NumberOK.

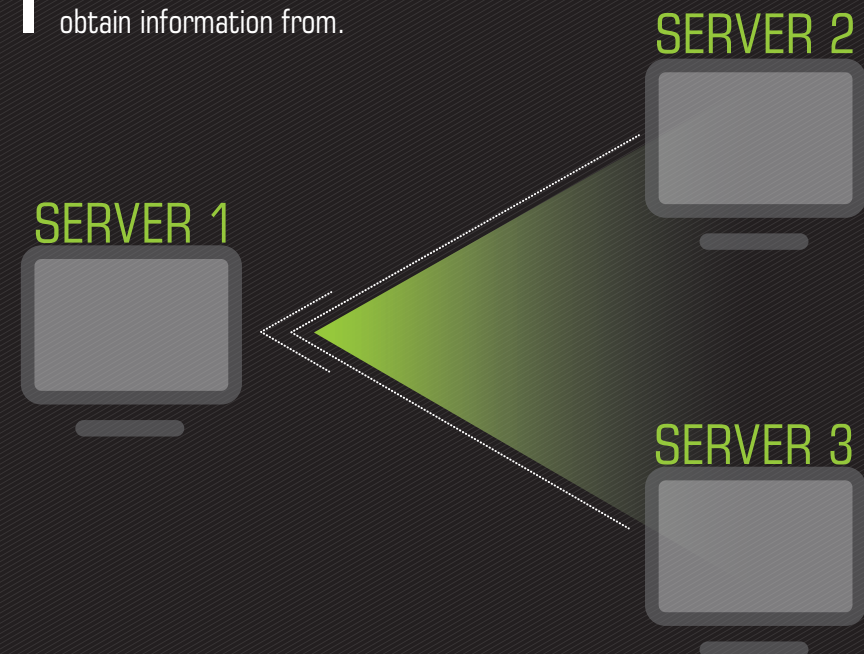
NumberOk acts as server and sends all recognition events to selected port by

- TCP protocol
- namely number plate
- group
- travelling direction

MULTI CHANNEL SOLUTIONS

For large-scale and complex projects requiring more than 4 recognition channels there is a possibility to create single data base.

Database is created on the Server 1, where the rest servers obtain information from.



SCOPE OF APPLICATION CHECKPOINT

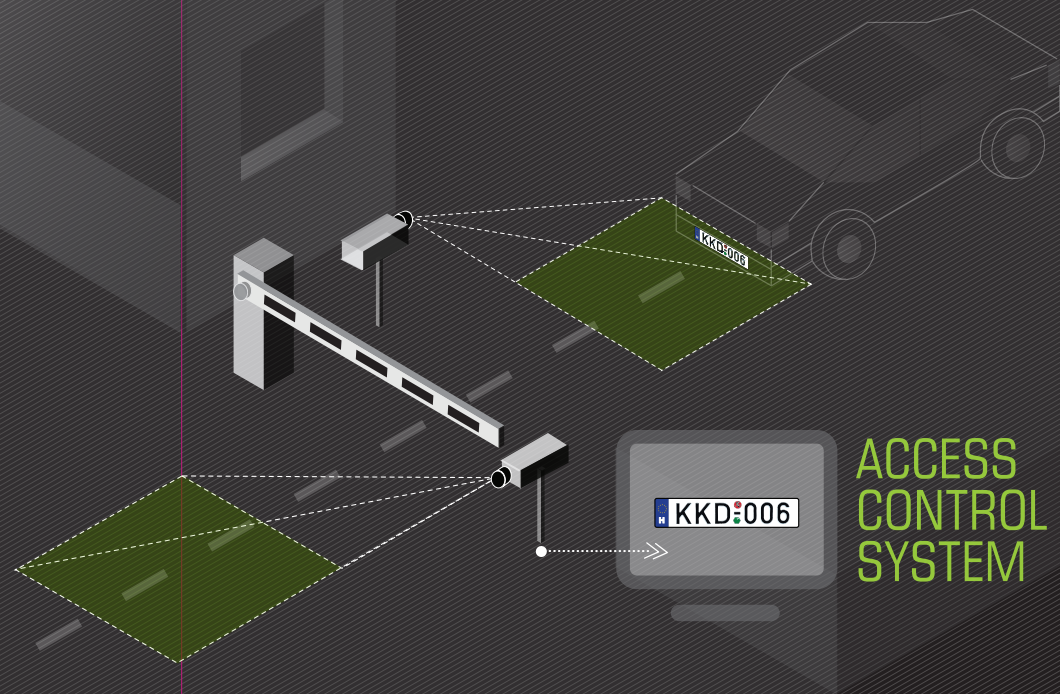
ANALYTICAL REPORTS

	DATE	NUMBER	DIRECTION	PASSAGE
01	01.12.14 / 10:10	KKD:006	entrance ←	allowed ✓
02	01.12.14 / 10:20	FM-5463	entrance →	allowed ✓
03	01.12.14 / 10:25	MMG-418	exit →	denied ✗

NumberOK license plate recognizer will help you to control access to any territory easily.

There is no need to issue any access cards — the license plate number of the client will serve as a pass.

The benefits of such “entry permit” are obvious: you don’t need to carry it around, show it to security officer or wave it near a reader device, you cannot forget or lose it or give it to anybody else.



PROBLEM CRITICAL AREAS ON SIGHT

The entry of vehicles which should not be present at the territory of an enterprise.

Allowed access to the territory only for the vehicles from the database.

Detection of entry or departure of the vehicle, capture of license plate number, time and date of the event and saving screenshot.

SOLUTION TO THE PROBLEM BY NUMBEROK

SCOPE OF APPLICATION PARKING

ANALYTICAL REPORTS

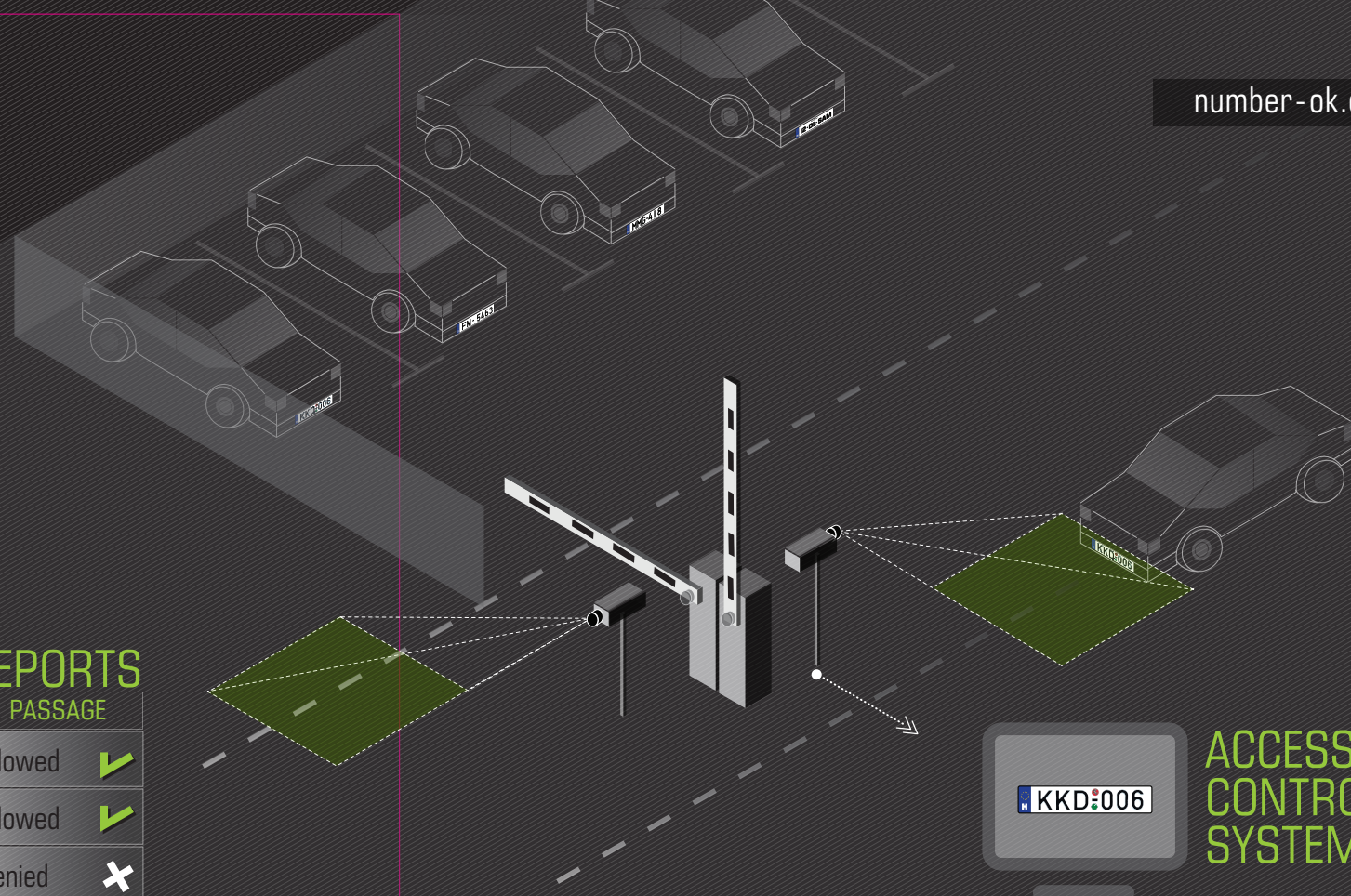
	DATE	NUMBER	DIRECTION	DURATION	PASSAGE
01	01.12.14/10:10	KKD:006	entrance →	01:00	allowed ✓
02	01.12.14/10:20	FM-5463	entrance →	01:00	allowed ✓
03	01.12.14/10:25	MMG-418	exit ←	01:00	denied ✗

The main objective of NumberOK installed at the parking is the counting of the vehicles and identification of time they spent at the parking lot.

NumberOK is used to automate access for the clients who prepay the parking. These vehicles are included into the white list. As a result, the client does not need to wait until the security officer finds them in the list of ticket holders, and quickly enters the territory.

NumberOK generates daily report on the number of cars and duration of their stay for manager of the parking. Using these parameters it is possible to roughly estimate the amount of the revenue.

NumberOK deployment at the parking will give you immediate results: increasing revenues, and enhancing satisfaction of your clients.



ACCESS
CONTROL
SYSTEM

PROBLEM CRITICAL AREAS ON SIGHT

There are no available data on the total number of cars and duration of their stay at the territory.



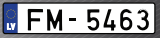
Defining the total number of vehicles at the area, datastorage in the database and calculation of time the vehicle spent at the territory*.

This allows for quick calculation of total amount of cars/hours and evaluation of the profit gained.

SOLUTION TO THE PROBLEM BY NUMBEROK

SCOPE OF APPLICATION CAR WASH

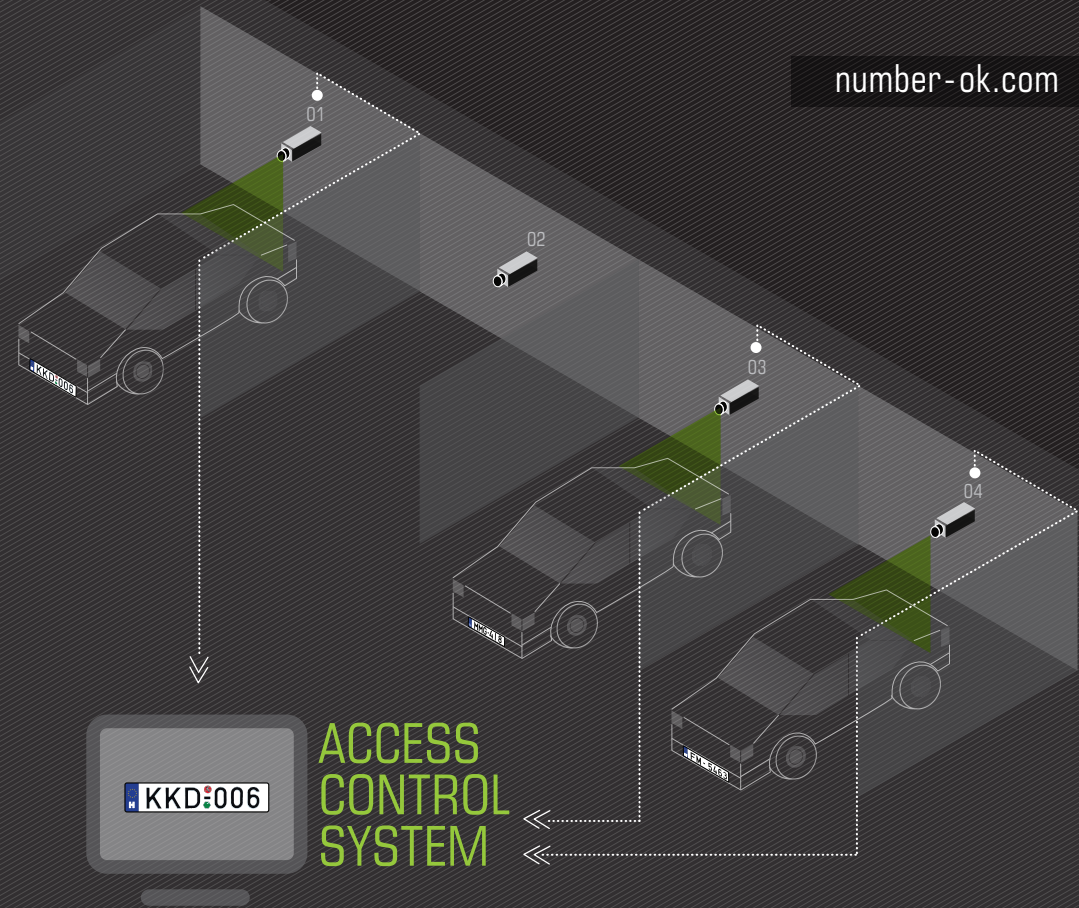
ANALYTICAL REPORTS

	CAMERA_01	CAMERA_02	CAMERA_03	CAMERA_04
number				
date	01.12.15/10:10		01.12.15/10:10	01.12.15/10:10
tariff	01:00h/100EUR		01:00h/100EUR	01:00h/100EUR
price	09:30h /950EUR		09:30h /950EUR	09:30h /950EUR

The main problem faced by the majority of car wash facilities is the lack of good faith of the staff. Most managers would agree that the income from car wash is 10-15% higher when personnel are supervised.

NumberOK will help you to remotely monitor the car wash facility every day!

NumberOK captures license plate numbers of vehicles entering or exiting the car wash. Based on these data you can determine the total number of vehicles who used the car wash and the time they spent on servicing. The data will be used to generate the reports, which can be sent via e-mail at specified regular intervals.



PROBLEM CRITICAL AREAS ON SIGHT

There are no available data on the total amount of cars which used the facility and the time they spent washing.

Defining the total number of the vehicles, data storage in the database and calculation of time the vehicle spent at the car wash*.

*This allows for quick calculation of total amount of cars/hours and evaluation of the profit gained.

SOLUTION TO THE PROBLEM BY NUMBEROK

SCOPE OF APPLICATION RESIDENTIAL COMPOUND

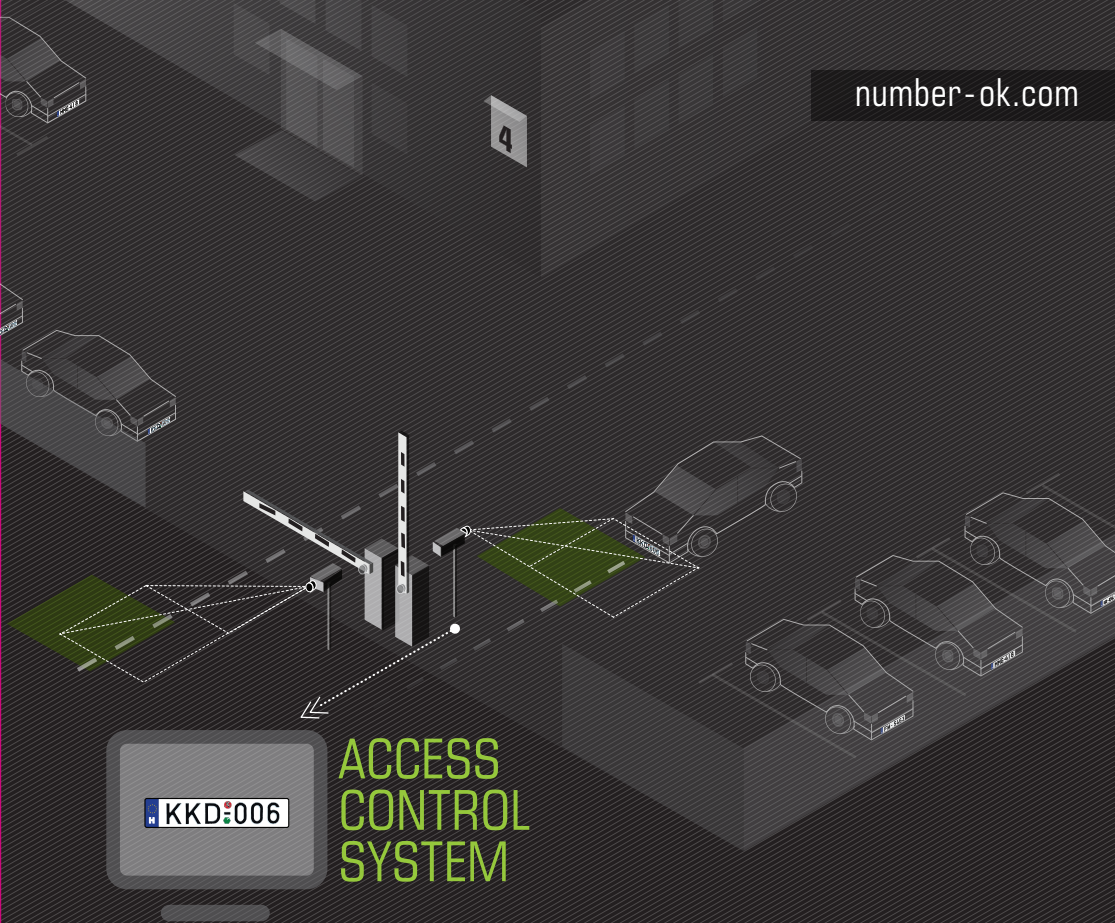
ANALYTICAL REPORTS

	DATE	NUMBER	DIRECTION	DURATION	PASSAGE
01	01.12.14/10:10	KKD-006	entrance →	01:00	allowed ✓
02	01.12.14/10:10	FM - 5463	entrance →	01:00	allowed ✓
03	01.12.14/10:25	MMG-418	exit ←	01:00	denied ✗

How often have you been faced with the situation when the parking lot near your house was occupied by the cars belonging to the residents of the neighboring houses?

NumberOK ensures the accessibility of parking lot for the tenants of the residential compound. The system provides access for the vehicles only from white list, which includes the number plates of vehicles belonging to the residents of the building. As a result, the tenants can easily park the cars near their house, not searching for the free stall.

For hotel managers there is a possibility to allow access for vehicles by certain time and date, or once the fee is paid. That is if the rental lease on the apartment has expired, the client won't be able to enter the territory.



ACCESS CONTROL SYSTEM

PROBLEM CRITICAL AREAS ON SIGHT

Lack of parking places when most of stalls are occupied by cars not belonging to the residents of the house or hotel.

Financial costs for access cards used to open barrier or gates.

SOLUTION TO THE PROBLEM BY NUMBEROK

Allowed access to the territory only for the vehicles from the database.

Automatic access by recognized license plate number. There is no need to buy access cards. The system doesnot require any maintenance.

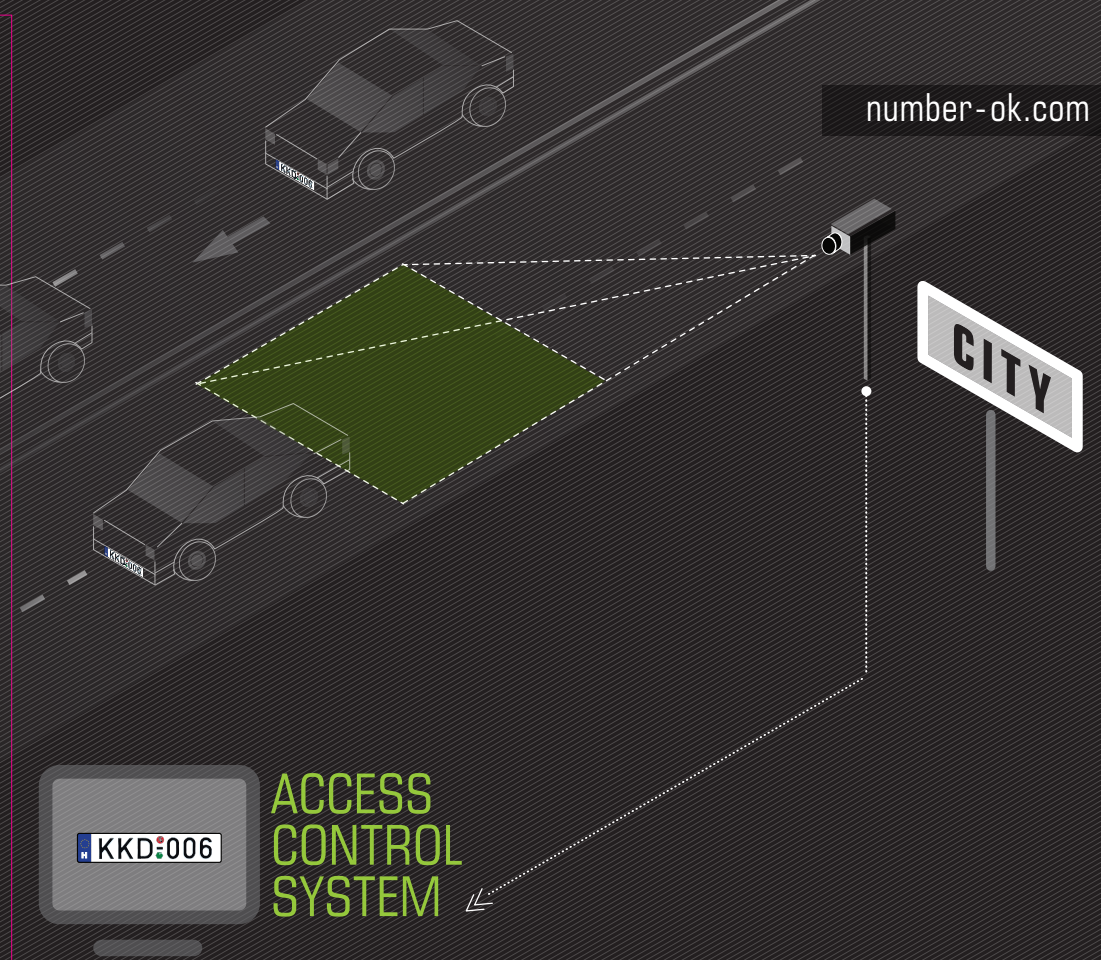
SCOPE OF APPLICATION SAFE CITY

	DATE	NUMBER	DIRECTION	PASSAGE
01	12.01.15 / 10:10	KKD-006	entrance ←	allowed ✓
02	12.01.15 / 10:11	FM-5463	entrance →	allowed ✓
03	12.01.15 / 10:12	MMG-418	exit →	denied ✗

ANALYTICAL REPORTS

Creation of Safe cities is becoming increasingly dependent on the implementation of the system for license plate recognition. NumberOK provides accurate number plate recognition at the travelling speed of the vehicle of up to 250 km/h and ensures reconciliation of recognized number plates with the database of carjacked vehicles.'

When the match is found the alarm signal is sent to the monitoring center. For the prompt response the cameras are installed several kilometers away of the control station.



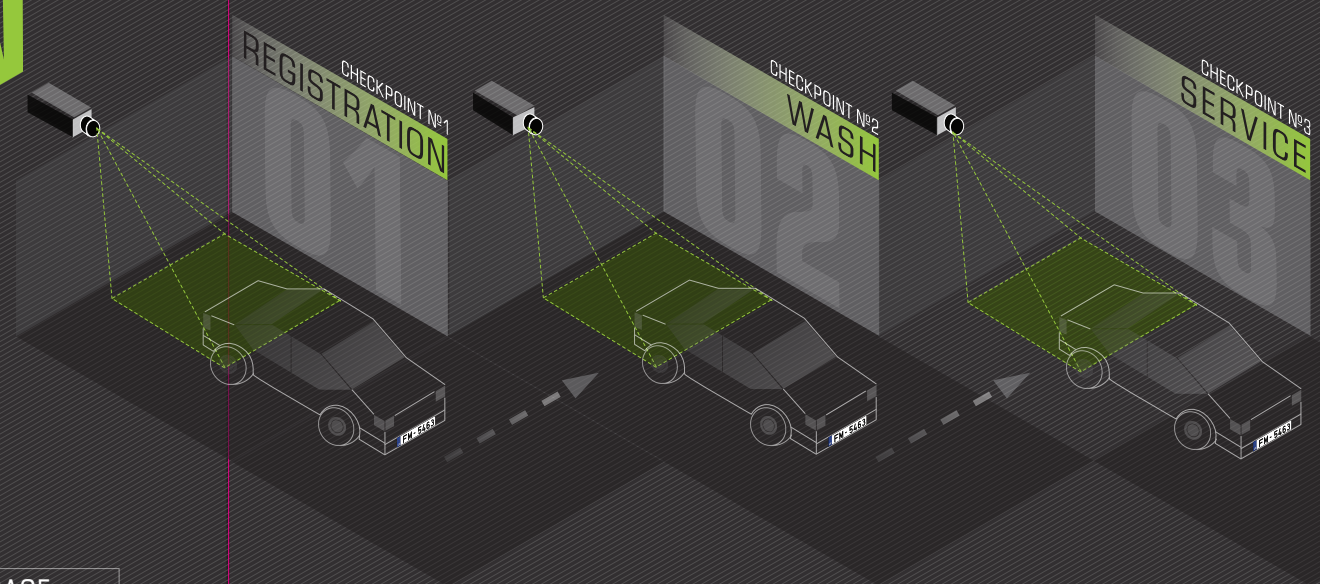
PROBLEM CRITICAL AREAS ON SIGHT

Lack of information on the carjacked vehicles in the city.

Reconciliation of all recognized license plate numbers with data base of carjacked vehicles. When the match is found the alarm signal is sent to the monitoring center.

SOLUTION TO THE PROBLEM BY NUMBEROK

SCOPE OF APPLICATION SERVICE STATION



TIME	DATE	NUMBER	DIRECTION	PASSAGE
00:30	01	01.12.14 / 10:10	entrance ← KKD:006	allowed ✓
	02	01.12.14 / 10:20	entrance → FM-5463	allowed ✓
	03	01.12.14 / 10:25	exit → MMG-418	denied ✗



**ACCESS
CONTROL
SYSTEM**

To prevent theft by personnel at the service station it is essential to use high-tech equipment. Most owners of service stations use video surveillance systems at the facility; however, it is nearly impossible to preview the huge archives of video records.

The solution in this case may be the system for license plate recognition, which can show travelling direction of the vehicle through the control points (registration, car wash, repair etc.) and how much time the vehicle spent at every point.

The system will provide manager of service station with the information on workflows, deadlines; and after integration with accounting system it is possible to view the list of ordered services, payments etc.

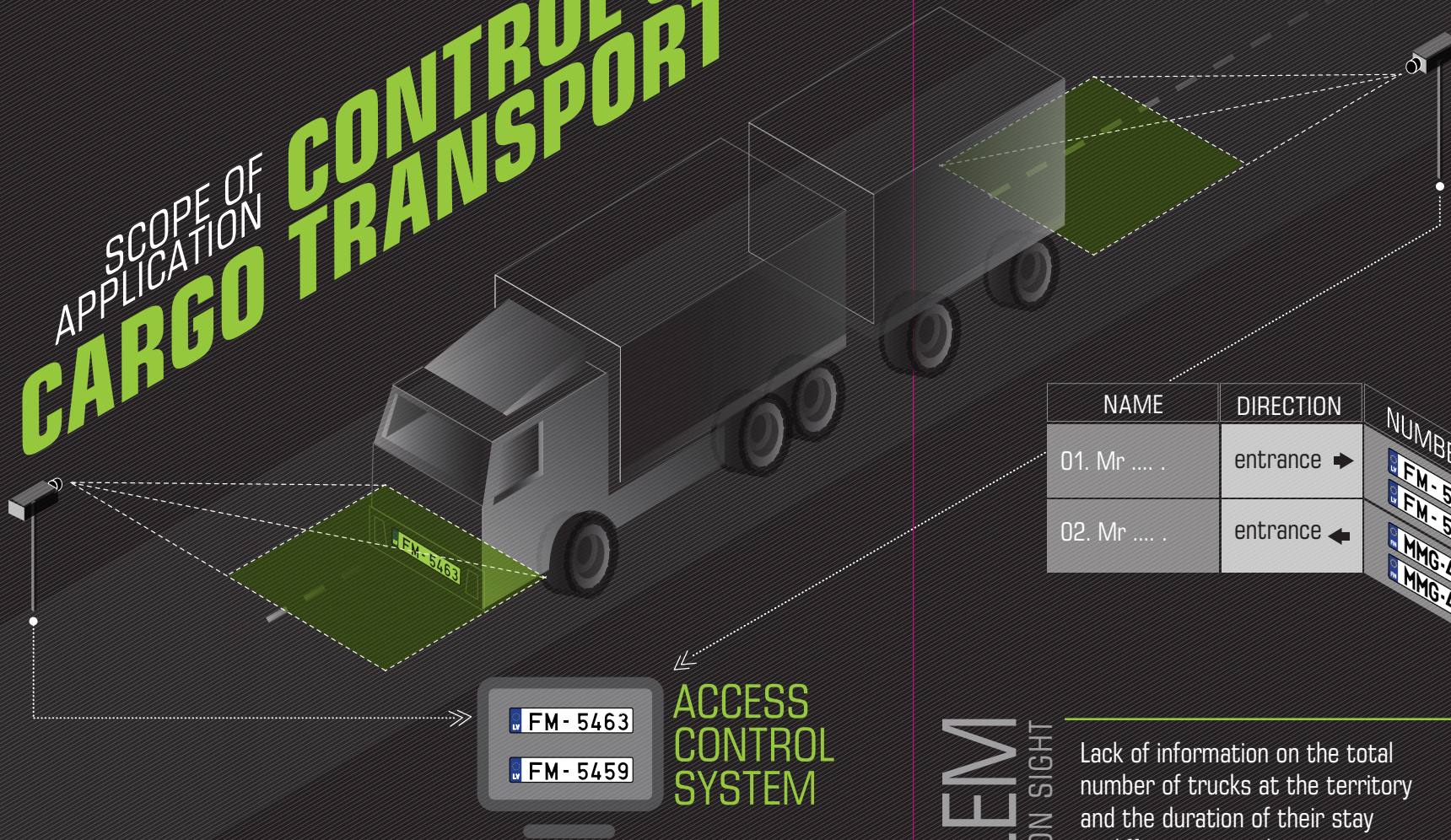
PROBLEM
CRITICAL AREAS ON SIGHT

Lack of information on the total number of vehicles at the territory and the duration of their stay at different control points.

Keeping record of all vehicles, data storage in the database, calculation of time spent by the vehicle at every control point.

SOLUTION
TO THE PROBLEM BY NUMBEROK

SCOPE OF APPLICATION CARGO CONTROL OF TRANSPORT



NAME	DIRECTION	NUMBERS	NUMBERS	DATE
01. Mr	entrance →	FM-5463	FM-5463	17.03.15 / 10:10
02. Mr	entrance ←	FM-5459	FM-5459	17.03.15 / 10:30
		MMG-418	MMG-418	
		MMG-454	MMG-454	

Many transportation providers have faced the problem of capturing license plate numbers of cargo transport, as the number plate of the car and the trailer is different.

NumberOK allows you to group two license plate numbers and assign them to the single vehicle. As a result, you will be able to monitor traffic flow at your territory.

Moreover, integration with third-party systems /truck scales, bar-code scanners, and accounting systems/ will provide automation of scaling procedure and identification of the vehicle at control points.

PROBLEM CRITICAL AREAS ON SIGHT

Lack of information on the total number of trucks at the territory and the duration of their stay at different control zones.

Keeping record of all vehicles, data storage in the database, calculation of time spent by the vehicle at every control point.

SOLUTION TO THE PROBLEM BY NUMBEROK