ACCESS CONTROL, PARKING AND FREE FLOW APPLICATIONS

Automatic number plate recognition (ANPR) is one of the most widespread and effective ways to identify vehicles in the traffic flow and in access control points. The ANPR technology is applied to automate checkpoints, weighing stations, car parks, car washes and service stations, as well as to control access of vehicles to the territory of corporate offices, industrial zones, gated communities, hotels and airports. Specifically designed for all the above mentioned and similar applications, Automarshal ANPR software reads number plates with the highest recognition accuracy, generates various types of reports, allows creating user lists, controlling barrier gates and traffic lights, and much more. The core technology can be easily integrated into complex intelligent traffic control, video surveillance and complete security systems.

Installed on a Windows PC, Automarshal ANPR software receives video streams from Ethernet-connected IP-cameras, and then detects and recognizes vehicle license plates in the received images. The results of license plate recognition are stored to a database together with all associated data.

FEATURES

- Recognition accuracy up to 98% at vehicle speed up to 270 km/h
- Multicountry recognition: European and Asian countries, Russia and the CIS onboard
- 2 parallel recognition algorithms
- Simultaneous recognition of all number plates in a shot, flexible setup of recognition parameters
- Unlimited number of customizable vehicle access lists
- Quick start, easy user configuration
- Web client for remote access from any browser or mobile device

BENEFITS

- Automation of plate reading allows saving time and effort spent on manual data input
- High recognition accuracy and reliability minimizes mistakes in data
- Remote access allows supervising employee performance and avoiding possible embezzlements
- ANPR technology applied in addition to access control system eliminates illicit use of RFID cards and tags by third parties for unauthorized access to the territory

ACCESS CONTROL

PARKING TIME CALCULATION

CONTROL AT CAR WASHES

VEHICLE REGISTRATION AT GAS STATIONS

CUSTOMS CONTROL

TRAFFIC MONITORING

VEHICLE SEARCH

SPECIFICATIONS

GENERAL INFORMATION

Supported countries	Abkhazia, Armenia, Azerbaijan, Belarus, Belgium, Bulgaria, Czech Republic, Donetsk People's Republic, Estonia, Finland, France, Georgia, Germany, Great Britain, Greece, Hong Kong, Hungary, Ireland, Israel, Italy, Kazakhstan, Kuwait, Kyrgyz Republic, Latvia, Lithuania, Luxembourg, Moldova, Mongolia, Montenegro, Netherlands, Poland, Portugal, Qatar, Romania, Russian Federation, South Korea, Spain, Tajikistan, Turkey, UAE, Ukraine, Uzbekistan (other countries on request)
User interface	User interface is available in English and Russian languages
Number of channels	Determined by PC performance

OPERATIONAL CONDITIONS

Vehicle speed	Up to 30 km/h (car parks, checkpoints, car washes, etc.) Up to 270 km/h (highways)
Recognition distance	From 5 to 30 m (depending on the used video camera/lens)
Width of control/ recognition area	Up to 3 m for camera resolution 640X840 pixels and more Up to 7 m for camera resolution 1280x720 pixels and more
Maximum camera mounting angle	30°

TECHNICAL DATA

Supported operating systems	Windows 7SP1/8.1/10 (64 bit) Windows Server 2012R2/2016/2019 (64 bit)
System requirements	Intel Core i3-8XXX, 2.7 GHz, 4Gb RAM (up to 2 recognition channels) Intel Core i5-8XXX, 2.7 GHz, 8Gb RAM (up to 4 recognition channels) Intel Core i7-8XXX, 2.7 GHz, 16GB RAM (up to 8 recognition channels)
Supported cameras	All IP-cameras with the ability to set a fixed value of exposure (1/500 sec – for speed up to 30 km/h, 1/4000 – up to 270 km/h) and auto iris lens
Database capacity	200,000 records (vehicle image resolution 640x480) 100,000 records (vehicle image resolution 1280x960) 70,000 records (vehicle image resolution 1920x1080)

INTEGRATION

Data transmission	Ethernet, RS-232, RS-485, Wiegand, FTP, E-MAIL, SMS
Integration possibilities	Import/export of access lists in *.CSV, *.XLS
FTP	Saving data and images to the FTP server
E-mail	Automatic report generation and e-mailing. Report type and frequency of e-mail notifications can be configured
SMS	Sending SMS notifications to one or several phone numbers, as the specific vehicle passes the control zone
TCP/IP	Transferring data and images to a remote server using TCP/IP sockets, message composition configurable
RS-232/485	Transferring the recognized plate number, camera number, direction of travel to the configured COM port

INTEGRATION WITH THIRD PARTY SOFTWARE

Parking management systems	Gate, EcoPark, Autogard
Access control systems	Gate, Itruim
Video surveillance systems	Devline, Revisor VMS, Milestone XProtect, IDIS, Nx Witness, Sefica ProBox

mallenom SYSTEMS

MALLENOM SYSTEMS - development of products and solutions in the field of machine vision, artificial intelligence, computer modeling and machine learning.

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