CAYUGA LPR.
AUTOMATIC LICENSE PLATE RECOGNITION.

The automatic recognition of license plates in video streams enables a wide range of applications such as the management of driveways, parking zones and loading bays. Due to a variety of features and fine-grained configuration options it can be adapted to specific needs to better support processes – this saves time and costs.

FIELDS OF APPLICATION

The classic use case of the Cayuga LPR Module is the management of driveways and parking areas. In these scenarios automatic license plate recognition supports and partially automates processes by triggering subsequent actions, which significantly takes the load of the security staff and saves costs in the end. The system can even be utilised and operated across several locations. In addition, the monitoring of all detection events makes it possible to find out and to track visually which car has left or entered the premises at which time.

But the range of applications exceeds sheer security applications. Thus, the Cayuga LPR solution is used by a car rental company to visually record time and date of car returns even outside regular business hours.

Furthermore Cayuga LPR can be used for marketing purposes: In this case the client is interested in the percentage of customers coming from particular countries or regions. With this information he is able to optimize the geographical targets of his marketing campaigns.

Qognify

FUNCTIONALITY

License plate recognition in Cayuga can be implemented in various ways:

EITHER …

The **Cayuga LPR Module** is a server-based extension module for Cayuga to recognize number plates automatically in stationary and moving traffic. It can read international number plate formats even with Arabic or Cyrillic characters – depending on traffic density and speed for up to eight lanes per server. All configuration parameters for the LPR Module can be set directly in the Cayuga user interface.

The detection of number plates can be run continuously or trigger-based (e. g. using induction loops). In most cases trigger-based recognition should be preferred as it minimizes the server load, enhances the detection quality and provides additional performance to cover further lanes. Basically the Cayuga LPR Module can be used with any IP camera, which is supported by the Videomanagement System and which is available in the system.

… OR

The **combination of NumberOK and Cayuga** offers a very cost-effective and easy-to-use solution and is implemented via the Analytics Interface (SAI). The solution's applications include automatic entry and exit control, parking lot monitoring and license plate recognition in moving traffic at speeds of up to 240 km/h.

The solution with NumberOk is characterized by easy handling and and fast commisioning. No additional sensors and costly cabeling are required to detect the vehicles (e.g. for induction loop triggers). The solution with NumberOk is available as a server-based solution and can evaluate up to 4 tracks simultaneously per camera.

No matter which solution is used: All detected number plates are recorded in a database with the corresponding image data. Furthermore, number plates can be registered in a master database with individual attributes such as company or driver name. They can also be assigned to customizable authorization groups (so-called "lists").

Depending on which authorization group a number plate belongs to, particular rights can be granted or events can be triggered. If, for instance, a car with a registered and authorized number plate approaches at the driveway (e. g. an employee's car), the gate will open and the car will be allowed to pass.

If the number plate is not known to the system, an alarm recording will be started and a voice connection to the doorman could be established by Cayuga using a SIP-based intercom unit.

In addition to access authorizations, which are valid indefinitely, time patterns can be created and one-time or recurring authorizations ("tickets") can be assigned. When for instance a customer visits the company, an electronic ticket can be created within Cayuga, which is valid for the duration of his visit and allows him to use the company's parking zone – but only within business hours (time pattern).

Furthermore the Cayuga LPR Module allows the import and export of CSV-based data as well as the automatic exchange of master data and detected number plates with third party applications based on XML technology. Thereby detected number plates can for instance be handed over to an access control system.

CAYUGA LPR.
THE DIFFERENCES AT A GLANCE

C CAYUGA

CAYUGA LPR

- trigger based
- solution already integrated in the Cayuga core
- dongle based
- covers almost all (also international) license plates

numberok
License Plate Recognizer

LPR OVER SAI: NUMBEROK LITE

- the cost-effective solution for smaller LPR projects
- SAI based
- covers European license plates (incl. Turkey and Israel)
- also supports operation via virtual machines

ABOUT

Qognify helps safeguarding your world, focusing on the outcomes of customers, who place a premium on physical security. Providing solutions to mitigate risks, increase security and optimize operations, Qognify serves thousands of customers all over the world as a trusted advisor. The comprehensive portfolio of Qognify contains physical security and incident management solutions, which create value for many sectors.

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