

CELLPR Advanced Mobile License Plate Recognition

Internet based control and monitoring applications

Target Systems Ltd. has developed a software product for recognizing images of vehicle license plates captured by mobile phones. It is designed for use in applications involving access control, municipal violations, security and other scenarios.

The application consists of two main parts:

- ★ A local application running on a camera equipped mobile phone.
- ★ A server based Internet application that can be accessed from any mobile phone or PC with an Internet connection.



The Mobile Phone

The local application is compatible with most standard, camera equipped GSM or iDEN cellular phones that are J2ME capable (Series 60 and up).

- The application is downloaded as is any other application or game
- The user navigates through the various options via easy-to-use menus.
- The user snaps a picture of the vehicle from within the application.
- The picture is automatically sent to the server
- Within seconds, a reply is sent back to the end user



Server Application

On the server a dedicated application receives the captured images. It performs the recognition process, checks the data against the application database and sends back an appropriate message to the end-user.

The application can be a simple “authorized/not authorized” type or it can involve a transaction, such as entry to a national park. The message is defined according to the customer’s application. For example, "*Vehicle RJ-45-GS is not authorized to enter*", or "*This car may be washed. It has 2 washes remaining*". All transactions are documented on the server for later inspection by the user or administrator.

Option: where the location of the vehicle or event is required, a phone with GPS capabilities may be used. In this case, the location will also be saved on the server.

Administration of the Server application can be done from any Internet browser. An authorized user can:

- manage the vehicle database
- re-define database lists
- generate reports
- review captured images

The Server Application can be on our server or installed on the customer’s.



Potential uses:

1. Traffic inspectors can issue tickets (can also be done using a PDA)
2. Security officers can ascertain whether a vehicle is listed in police “black lists”
3. Fleet managers can manage their parking lot databases.
4. Insurance assessors can capture an image of a damaged vehicle and its location.
5. Service providers can verify a vehicle’s entitlement to a service, such as a car wash, parking facilities, etc.

Advantages of using the application:

- Easy to use and install
- Inexpensive end user terminal
- Information is saved in a central location with no data size limitation
- Real-time monitoring and reporting capability

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