

# Basir License Plate Recognition

*pick out the numbers*

License plate number is one of the most suitable information items available for recognizing a vehicle's identity. A license plate recognition (LPR) system is a completely automated system that can extract passing vehicles' license plate numbers through utilizing image processing techniques. In order to use this system, there is no need to equip vehicles with additional devices (such as GPS, RFID tags, etc).

Our efforts and endeavors, together with the usage of advanced software and hardware solutions have led to the unprecedented development of Basir LPR system in Iran. Basir LPR is comprised of both software and hardware components. The system's most important hardware component is the camera which is used to capture images. It is worth noting that in order to overcome different lighting conditions and to acquire sharp images in total darkness, infra-red cameras can be used. The software component specifies the plate location in the image, determines its type, splits it to characters, and at the end performs OCR to complete the identification process. This solution is available in different versions including Door Control, Road Control, Mobile, and Semi-Mobile.



## What can Basir LPR do?

- Monitoring roads, bottlenecks, and borders; and providing immediate reports in cases of stolen vehicles.
- Controlling vehicle access to designated areas (such as parking lots, traffic zones, etc) with the ability to connect to gates
- Logging accurate and thorough traffic information
- Automatic toll enforcement in roads and highways
- Processing both color and infra-red camera images
- Accuracy rate of 97%
- High-speed processing (less than half a second)
- Ability to use two cameras simultaneously
- Recognition of various types of plates
- Ability to function at vehicle speeds up to 250 Km/h
- Function in every lighting condition even in total darkness
- Customizable reporting system
- The first operational LPR system in Iran



## Basir LPR clients include :

- Iran Police, Islamic Republic of Iran Broadcasting (IRIB), Tehran Municipality  
Pasargad Bank, National Oil Company