

## License Plate Recognition "Ready to Integrate"



**B**y integrating this engine your company will be able to be in the number plate recognition business in just a few days.

**U**ppgrade your software with a very high quality vehicle number plate recognition engine.

**Y**our company will benefit from artificial neural networks and computer vision technology at a very low cost.

**VPAR – Vehicle Plate Automatic Reader** – is a software library easy to integrate into any application requiring automatic recognition of vehicle number plates.

VPAR uses Artificial Neural Networks trained with thousands of samples.

### Automatic Number Plate Recognition Applications

- **Access Control.**
  - The License Number can be used as the "key" to grant access.
  - The License Number can be linked to the ticket ID in order to manage lost tickets and possible fraud.
  - Restricted access to certain areas or streets (for example, to residents or neighbours).
- **Road and motorway traffic Supervision.**
  - Fraud detection in toll Bridges.
  - Speed control.
- **Vehicle State Control / Complaints Resolution.**
  - The License Number can be linked to several images of the vehicles taken at different times (for example, entrance and exit) to manage damage complaints.
- **Transport / Logistics Fleet Management.**
  - Linking License Number to vehicle weight.
- **Police and Security Surveillance.**
  - Reading plates from camera mounted on car.
  - Checking read plate numbers against a list.

## Successful ANPR Systems read plates with NeuralLabs Technology



### VPAR Product Description

- Number Plates Recognition Library that can be used from MS Visual Basic, MS Visual C++, Borland Delphi y Borland C++, Visual Studio .NET, C#, etc
- From an input image of the front or the back of the vehicle, the library returns:
  - Number of recognized plates
  - Text string with the registration number
  - Confidence Factor of the reading
  - Confidence Factor for each character
  - Plate rectangle within the image
  - Process Time
  - Average Height (in pixels) of the characters



### Features

- **Own Artificial Neural Network Technology**
- **98%** Correct Recognition Rate
- **100 ms** Process Time
- Optimized for any given country
- **Two-Lines** plates supported
- Returns confidence of result per plate
- Returns confidence of result per character
- Possibility to recognize up to **8 plates** in one image
- Reading from memory buffer, BMP files & JPG files
- Hardware independent (cameras, framegrabbers, ...)
- Direct Integration with IP cameras (AXIS, Sony, Panasonic, JVC, etc).
- New VPARMT allowing up to 8 simultaneous threads reading plates
- On-demand upgrades for special needs



### System Requirements

- Pentium III or faster.
- Operating Systems based on: Windows 9x, 2000, XP, 2003, Vista, Windows 7, Linux, QNX.

### Supported Countries and Areas

Spain, Europe, Turkey, Ecuador, Brazil, Chile, Argentina, México, Venezuela, El Salvador, Colombia, Peru and **any other on-demand.**



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