High Reliability
High reliability is based on advanced recognition algorithms, whose efficacy has been proven worldwide.

Multi-Country Recognition
License plate recognition from multiple countries at the same time.

Low False Positives
Replacement of unknown characters by question marks to minimize problems caused by character confusions.

Software License
SmartLPR® Engine is available as a hardware license and as a software license (the USB dongle isn’t needed).

Multi-image Recognition
Best license plate result by selecting the best recognition from a set of images taken for the same car.

Shadow elimination
Advanced image treatment algorithms to minimize light reflections and shadows on license plates.

Fast Recognition performance
Fast license plate reading to achieve the best performance in different environments and applications.

Wide Angle Recognition
License plate reading at a wide shooting angles.
SmartLPR® Engine is a powerful OCR software for license plate recognition for a wide range of applications in car access, traffic control and enforcement. It is hardware independent and it has been designed to offer high reliability results in different environments regardless of the state of conservation of the license plate.

Complete results
- Country and License plate recognition formatted with hyphens and spaces
- Quality of each character and average quality of the license plate
- Character positions inside the license plate
- License plate image and location

Smart detection at its best
SmartLPR® Engine isolates the license plate in such a clear way and minimises light reflections and shadows. It captures various images until providing the best OCR result. The fast and effective way of processing with powerful recognition algorithms makes SmartLPR® Engine the suitable software for high speed vehicle control applications.

Engine for professionals
SmartLPR® Engine has been specially designed for professional software developers and system integrators that need an easy-to-integrate software. SmartLPR® Engine addresses to professional users who need to rely on a high quality OCR that can be integrated regularly in their projects.

<table>
<thead>
<tr>
<th>VERSIONS</th>
<th>Number of execution instances</th>
<th>Time limitation</th>
</tr>
</thead>
<tbody>
<tr>
<td>SmartLPR® Engine P100</td>
<td>1</td>
<td>3 requests per 5 seconds</td>
</tr>
<tr>
<td>SmartLPR® Engine T200</td>
<td>1</td>
<td>10 requests per second</td>
</tr>
<tr>
<td>SmartLPR® Engine S300</td>
<td>1</td>
<td>Unlimited</td>
</tr>
<tr>
<td>SmartLPR® Engine F400</td>
<td>Unlimited</td>
<td>Unlimited</td>
</tr>
</tbody>
</table>

Operating Systems: Windows / Linux
Programming languages: C/C++, .NET
Processing time: Results may vary depending on processor and number of enabled countries. One image takes less than 10 milliseconds using an i3 540 @ 3.07 GHz
License plates detected: License plate recognition of countries from different continents*
License plate format: One or two lines of characters, rectangular or squared
Types of image: bmp, jpg files (8 or 24 bits) or data buffer of 8 bits
Image colour: B&W image with a 256 gray scale
Characters height: Recommended min. 23 pixels
Material provided: It is available as a hardware license (includes: installation CD and USB dongle) and as a software license (no USB dongle required)

* Contact us to know the countries recognised.