

A flexible and accurate ALPR software solution for access control

Intelligent image processing is an essential part of accurate license plate recognition and helps to provide fast, safe and precise identification of vehicles. When combined with hardware detection systems, such as infrared cameras, ALPR software is an essential part of traffic enforcement systems around the world.

The right software

With the Carrida software engine, embedded imaging expert Vision Components offers very fast and precise ALPR, designed for integration into a wide range of surveillance systems, including access management in parking lots. The high-performance, hardware-independent OEM software, with a typical processing time of 30ms and a typical recognition accuracy of more than 96%, has been extensively tested and proven to consistently achieve high recognition accuracy, even in less than ideal conditions. It reliably identifies dirty, damaged or skewed license plates and is unaffected by the suboptimal or changing lighting conditions that often occur in access-control situations.

For other applications, the tool automatically recognizes all plates displayed in one image and vehicle plates in several lanes simultaneously. Suitable for use with Windows- or Linux-based mobile or embedded systems, Carrida reads all common still image and video formats and is easy to integrate into existing security and surveillance applications.

Carrida around the world

Due to plate variation from country to country, ALPR is usually restricted to certain regions. Carrida, however, can



Need to know

Carrida software offers a complete, customizable ALPR software solution

- > Typical processing time: 30ms
- > Typical recognition accuracy: >96%
- > Suitable for use with Windows- or Linux-based mobile or embedded systems
- > For standalone ALPR, the Carrida Cam (above) is a smart camera that features IP67 protection, IR illumination and uses less than 3W, making it ideal for self-sufficient outdoor applications

be used all over the world. The software engine provides high accuracies in recognizing country-specific plates – a feature that New Zealand-based company Network Imaging Solutions (NIS) has taken full advantage of. The security technology firm has developed the comprehensive NIS ALPR solution, which encompasses

stamps, which is accessible through a web interface and enables users to view real-time license plate events, as well as search the archive. Operators can edit misread plates, receive email notifications based on non-responsive software as well as IP notifications, and see a status report with the customized software module 'current occupancy'.

"The NIS ALPR database serves as a platform for integration with customer infrastructure," says John



(Top left) The smart Carrida Cam (Left) Network Imaging Systems in New Zealand has fine-tuned Vision Components' ALPR Carrida software to operate with Skidata systems

camera technology, software, server infrastructure and end-user customization.

NIS uses Vision Components' Carrida software with additional features. The recognition algorithm has been adapted to reach high recognition rates for New Zealand plates under all conditions. NIS completes its solution with a proprietary black/white list.

Superior compatibility

The Carrida software package for PC now includes the option to integrate it into existing Skidata systems. This integration includes all Skidata features up to the latest version 25 and delivers license plate information to Skidata back-end systems. NIS has also developed a robust database system for storing captured plates with time/date

Hurford, managing director of NIS. "We create a plug-in to connect the database to existing on-site software and hardware. This enables, for example, integration into a point-of-sale system so that payment can be calculated depending on what time a vehicle entered and exited the facility."

With Carrida at its core, the open platform NIS ALPR is a flexible and powerful solution for access management systems featuring high-speed recognition and multiple engine support. ○

Free reader inquiry service

Vision Components inquiry no. ???
To learn more about this advertiser, please visit: www.ukipme.com/info/tfm