ADAPTIVE RECOGNITION

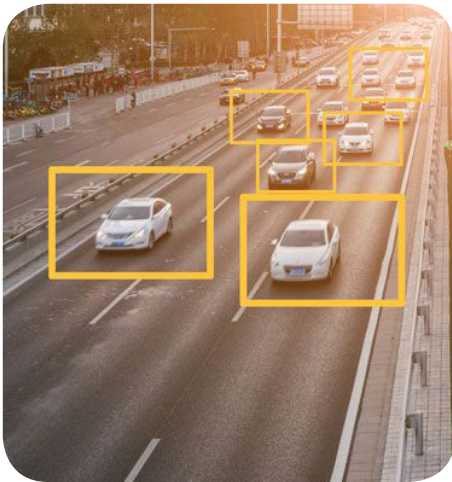AUTOMATIC NUMBER PLATE RECOGNITION

ANPR RESULTS:

EU ARH 001

- NUMBER PLATE: ARH 001
- VEHICLE TYPE: MERCEDES BENZ
- NATIONALITY: EU-HUNGARY
- SPEED: 108 MPH / 174 KMH
- BLACKLIST: --- NO ---
- COLOR: BLUE METAL
- OWNER: ZSOLT VANYI
- RECOGNITION TIME: 2016-01-12T15:19:20+00:00

CARMEN®
ANPR SOFTWARE

License plate recognition for applications
where accuracy matters

Carmen® is an Automatic Number Plate Recognition software that reads all vehicle plate types in the world – at any traffic speed.

Toll collection and congestion charging systems, traffic monitoring and security, speed and journey time measurement, bus lane and traffic light enforcement, parking or access control and many other systems benefit from the fast, exact, automatic identification and recognition capabilities of this ANPR software – since the 1990s, when the solution was first created – and constantly fine-tuned ever since.

The Carmen® ANPR software reads license plates from many image sources remarkably fast and with the highest recognition accuracy in its class. It offers country-independent recognition of not only Latin characters, but also Arabic, Cyrillic, Chinese, Korean, Thai and many more, as well as reflective, non-reflective, personalized and special interest plates that are typical in many U.S. states.

TRAFFIC MONITORING

TOLL COLLECTION

ACCESS CONTROL

BUS LANE AND RED LIGHT ENFORCEMENT

BORDER CONTROL

Main benefits

- Proven, fast and reliable automatic number plate reading software
- Industry leading high accuracy and recognition rates (>99% on a global scale)
- Ability to recognise various plate sizes, syntaxes and distorted plate images
- Reads Arabic, Cyrillic, Chinese, Korean, Latin, Thai and many more characters
- ADR non-empty plates recognition included
- Unlimited and cost effective versions available

Specifications

• highly customizable • camera independent • diverse input options • country/state recognition • motion detection • scalable • high accuracy
• plate color detection • make model recognition (MMR) capability

Special ANPR/LPR cameras are available for recognitions rates.

General information

Supported Operating Systems	Windows (32/64 bit)	Linux (32/64 bit)
Supported Platforms	x86_32	x86_64	ARMv7 Cortex A8 and above	PPC
Minimum System Requirements	1 GHz CPU	512 MB RAM	1 GB HDD	free slot for NNC
Licensing	one year from purchase included, optional subscription available on yearly basis
Available Neural Controllers	USB 2.0 dongle - type A USB internal 4-pin PCIe card (X1) Mini-PCIe card

Interface

Input	Still image from file or memory in various image formats (BMP | PNG | JPEG | JPEG2K | RAW) Live analog video input (PAL or NTSC) Live digital /IP camera input
Output	ANPR data Number plate DATA in ASCII/UNICODE text Position of the plate Confidence level in percentage Confidence level for each character List of further suggestions for each character Individual result for each plate on an image Color of plate (optional) Country ID (optional) Location of each plate on one image
Trigger	Can be integrated with any trigger device (recommended when recognizing from live video stream) Software motion detection module is included
Make & model recognition	Yes (optional) Recognized categories: car, van, heavy truck, light truck and bus Recognized vehicle makes: over 100, including European and Asian brands too Recognized vehicle models: over 1000 models, constantly growing

Development tools for easy integration

Supported programming languages under Windows	C/C++, C# Visual Basic .NET Java
Supported programming languages under Linux	C/C++, Java
In The Box	Development libraries: .dll, .so files Demo application, sample codes for each programming language Neural network controller Comprehensive digital documentation

Available Versions

	FreeFlow	K version
Capacity (images/day)	unlimited*	11520
Processing threads	1 / 2 / 4 parallel threads	1 / 2 / 4 parallel threads
Credit buffer	unlimited	300
Time for 4 new credits (sec)	–	7,5

* Depends on CPU speed, settings, engine type
Technical specifications are subject to change without prior notice. This document does not constitute an offer.

Adaptive Recognition **America**
Adaptive Recognition **Hungary**
Adaptive Recognition **Nordic**
Adaptive Recognition **Singapore**

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