ADAPTIVE **RECOGNITION**

Technical Datasheet

CARMEN® ANPR Software

General information

Supported Operating Systems	Windows (64 bit) | Linux (32/64 bit)
Supported Platforms	Windows: x86_64* Linux: x86_64*, ARM64*, ARM32
Minimum System Requirements	2 GHz CPU* | 1 GB RAM | 1 GB HDD | free slot for NNC
Update	One year from purchase included, optional subscription available on yearly basis

Interface

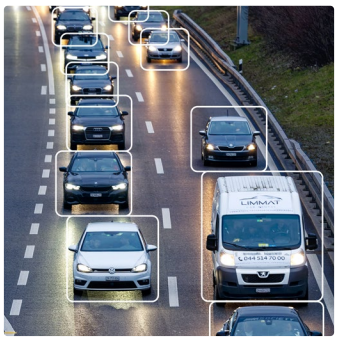
Input	Still image from file or memory in various image formats (BMP | JPEG | PNG)
Output	ANPR data Number plate DATA in ASCII/UNICODE text Confidence level in various formats Text confidence for each character Individual result for each plate on an image Location of each plate on one image Country/State/Province ID Background color (not in all region) Character color (not in all region) Category of the plate (not in all region)
Trigger	Can be integrated with any trigger
Make & model recognition	Yes (optional) Recognized categories: UNK (Unknown), CAR (Car), BUS (Bus), HVT (Heavy truck), LGT (Light truck), MTB (Motorbike), VAN (van), TRUCK (Truck), PICK-UP (Pick-up), CARAVAN (Caravan), TRAILER (Trailer), INDUSTRIAL (Industrial), TUKTUK (Tuktuk), MILITARY (Military) Recognized vehicle makes: over 240, from all over the world Recognized vehicle models: over 1700 models, constantly growing Generation info: (Mk VIII 2020, Mk X 2017|2020, etc., overall 6000 +) Dimensions: width, height, length (if the generation information is available) Recognized colors: silver, gray, bronze, burgundy, turquoise, blue, steel_blue, green, yellow, gold, lime, orange, coral, red, rose_red, rose_gold, pink, brown, tan, purple, violet, black, dark_gray, dark_brown, dark_green, dark_purple, dark_blue, white, pale_gray, champagne, cream, pale_blue, pale_green, pale_pink ViewPoint: front, rear, front_side (optional), rear_side (optional), top (optional), top_side (optional), side (optional) BodyType (optional): Sedan, SUV, Hatchback, Combi/Wagon, MPV, Coupe, Convertible, Liftback

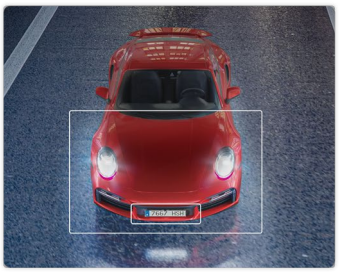
Development tools for easy integration

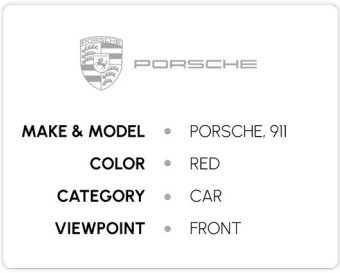
Supported programming languages under Windows	C/C++, C# Visual Basic .NET Java
Supported programming languages under Linux	C/C++, Java
In The Box	Development libraries: .dll, .so files Demo application, sample codes for each programming language Neural network controller Comprehensive digital documentation

Available Versions

	FreeFlow	K version
Capacity (images/day)	unlimited**	11520
Processing threads	1 / 2 / 4 parallel threads	4 parallel threads
Credit buffer	unlimited	300
Time for 4 new credits (sec)	–	30







Special ANPR/LPR cameras are available for recognitions rates.
* in case of running MMR, CPU must support AVX.
** Depends on CPU speed, settings, engine type

For projects with unique requirements, our software options can be expanded and customized (eg. adding seatbelt or mobile phone detection, optical speed estimation, etc.)
Additionally, hardware specifications can be adjusted to meet the specific needs of your project. Please contact our sales team to discuss tailored solutions.

Technical specifications are subject to change without prior notice. This document does not constitute an offer.

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