

# CARMEN FreeFlow ANPR software

## Technical specifications

<b>General purpose</b>	General purpose automatic number plate recognition software to use in various intelligent traffic systems and large access control environment.
<b>Recognition technology</b>	Neural Network Technology CARMEN engine developed by ARH Inc.
<b>Input</b>	Still image from memory (BMP, JPEG, JPEG2000) Still image from file (BMP, JPEG, JPEG2000) Live analogue video input (PAL or NTSC)
<b>Output</b>	Plate number in ASCII / UNICODE Position of plate Positions of characters Tip list for each characters Confidence levels for each tips Color of plate (optional) Country ID (optional) Locating more plates on one image
<b>Processing time dependences</b>	Image content (complexity, noise level etc. ) Image size Processing power (CPU speed) Parameter settings
<b>Trigger</b>	Trigger is not needed, but recommended when recognizing from live video. (Software motion detection included)
<b>Supported operating systems</b>	Windows (32/64bit) Linux (32/64bit)
<b>Programming languages (under Windows)</b>	Visual C/C++ C# Borland Delphi Visual Basic 6.0 Visual Basic .NET Java
<b>Programming languages (under Linux)</b>	C++ Java
<b>Software Development Kit</b>	DLLs ActiveX components/OCX files
<b>System requirements</b>	Intel, 2GHz or higher Intel CPU 512 MB RAM Free PCIe / PCI (2.1) slot or USB 2.0 port
<b>Additional tools</b>	SDK for easy integration DLLs and ActiveX components
<b>Documentation</b>	Reference manual in electronic format
<b>Available Neural Network Controllers</b>	FXVD4 frame grabber card (PCI 2.1) USB 2.0 (internal also available) PCI card (2.1) Express card 34 (54 compatible) PCIe card (x1) PC 104+ Card
<b>Licensing</b>	1 licence required per CPU usage

*The number of required licenses depends on many factors, like traffic flow, CPU performance, needed features, triggering, please feel free to consult with ARH Sales team.*

*Specifications are subject to change without prior notice*

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