

SEDOR® ANPR Server

SEDOR® Video Analysis System, detection and analysis of number plates



SEDOR® ANPR Server is an IP video analysis system for the automated detection and analysis of number plates in flowing or stationary traffic. The application of sophisticated analysis algorithms provides an extremely high analysis accuracy, even in adverse weather conditions or darkness.

SEDOR® ANPR Server is designed for operation on systems with Microsoft Windows¹⁾ 10 (64 Bit) operating system. The complete video analysis system is installed on a dedicated server hardware ex factory. Configuration, operation and analysis are carried out with a browser.

Features

- Detection of number plates in the video image
- Storage/Display of the results with images of the number plate and overview cameras
- Control of relays in response to specific number plates/categories
- Reporting of certain (number plate) events to network receiver
- Connection to third-party systems via XML protocol
- Export of events into standard formats (e. g. Microsoft Excel)
- Support of communication interfaces to Dallmeier products (recording, alerting)
- Storage of event records in standard database (up to several million, depending on requirements)
- Extremely short response times when searching the event archive

Access Control

- Combined access and gate control
- Time-limited access permission
- Separate processing of user-definable vehicle categories (staff, supplier, visitor, VIP)

Parking Facility Management

- Combined access and gate control
- Parking facility management with various entries and exits
- Allocation of individual parking spaces to groups
- Time-limited access and exit permission
- Separate management for different user groups

Safety in public spaces

- Detection and identification of number plates in flowing traffic
- Reporting of stolen vehicles (blacklist)
- Comprehensive search functions in the event archive
- Search of only partially known number plates in the event archive






Software

005049.401	SEDOR® ANPR Server Software (1 Channel) SEDOR® ANPR Server software with licence for one channel, installation on dedicated server hardware ex factory, including box, documentation and licence dongle (online activation not required) ²⁾
005049.402	SEDOR® ANPR Server Software (2 Channels) SEDOR® ANPR Server software with licences for two channels, installation on dedicated server hardware ex factory, including box, documentation and licence dongle (online activation not required) ²⁾
005049.403	SEDOR® ANPR Server Software (4 Channels) SEDOR® ANPR Server software with licence for four channels, installation on dedicated server hardware ex factory, including box, documentation and licence dongle (online activation not required) ²⁾

1) Microsoft and Windows are trademarks or registered trademarks of Microsoft Corporation headquartered in Redmond, Washington, USA
2) The upgrade of a dongle licence is not supported. The replacement of a dongle is not offered.

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Hardware	
005546.401	 <p>DF5200HD-IR-ANPR HD camera for ANPR systems, 2 MP, integrated IR illumination with 3× 40°, one-push autofocus, PoE, outdoor wall mount bracket, capture range 3–8 m</p>
005546.402	 <p>DF5200HD-IR-ANPR HD camera for ANPR systems, 2 MP, integrated IR illumination with 3× 25°, one-push autofocus, PoE, outdoor wall mount bracket, capture range 6–12 m</p>
005546.403	 <p>DF5200HD-IR-ANPR HD camera for ANPR systems, 2 MP, integrated IR illumination with 3× 10°, one-push autofocus, PoE, outdoor wall mount bracket, capture range 10–18 m</p>
004847	 <p>Server Rack-Mount 1 RU³⁾ Server hardware, 1 RU rack-mount, Quad-Core 3.1 GHz CPU, 8 GB DDR3 RAM, 2× power supply unit, without HDD, RAID 1 and license for Microsoft Windows 10 Pro included</p>
001739	 <p>Remote Ethernet I/O Interface⁴⁾ Ethernet I/O Interface, 2× Ethernet, 6× relay (Moxa E1214)</p>
Services	
004845	<p>System Setup Assembly (hard disks, memory modules, controller, firmware), RAID system setup, installation and update of the operating system including drivers, software installation, system tests (run-in)</p>
Optional Services	
003692	<p>FAT System Customizing Collection of project-specific requirements, individual adaption and configuration of the system</p>
Optional Licences	
000595	<p>DLC - SEDOR® Event Matrix License for the use of the software interface for the connection of Ethernet I/O interfaces</p>

3) At least two hard disks of the same capacity necessary ex factory.
4) License 000595 required (DLC - SEDOR® Event Matrix).

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Specifications *SEDOR® ANPR Server Software*

General	
Max. no. analysis channels	4x IP-based video channels
Supported video sources	Dallmeier IP cameras via TCP/DaVid (Dallmeier Video Protocol) Dallmeier IP encoders via TCP/DaVid (Dallmeier Video Protocol) 3rd Party IP cameras with RTSP streaming via UDP/RTP ⁵⁾
Supported video formats	4 CIF with 12 fps (or higher)
Database	Relational SQL database
Configuration	Web browser via Ethernet
Operation	Web browser via Ethernet
Evaluation	Web browser via Ethernet
Language	English, German, French, Russian (others on request)

Specifications *Server Rack-Mount 1 RU*

Integrated Software	
Operating system	License for Microsoft Windows 10 Pro 64 Bit (not pre-installed)
OS language	English (others on request)

Hardware	
CPU	Intel Xeon ⁶⁾ , Quad-Core, 3.10 GHz
Memory	2x 4 GB DDR3
Hard disks	4x changeable frame integrated, 4x 3.5" SATA optional
RAID level	RAID 1
Fan	5x with 40 x 28 mm

Interfaces	
Monitor OUT	1x D-Sub, 15 pins
USB	2x USB 2.0, front side, 4x USB 2.0, rear side
Ethernet 1	2x RJ45, 10/100/1000 Mbps
IPMI	1x RJ45, 10/100 Mbps (dedicated Intelligent Platform Management Interface V2.0)
COM 1	1x D-SUB, 9 pins, rear side
COM 2	1x D-SUB, 9 pins, front side
LED displays	2x network activity, 1x hard disk activity, 1x voltage status, 1x system overheat

Electrical Data	
Power supply units	2x high-performance modules (80PLUS Gold)
Redundancy	Yes
Voltage supply	110/240 V AC, 50/60 Hz
Power consumption	Max. 400 W
Thermal output	Max. 1364 BTU/h

Mechanical Data	
Dimensions (W x H x D)	Approx. 437 x 43 x 503 mm (17.2" x 1.7" x 19.8")
Height units	1 RU
Weight	Approx. 9 kg (20 lb)

Ambient Data	
Temperature	+ 5°C up to +40°C (41°F - 104°F)
Recommended temperature	+20°C up to + 25°C (68°F - 77°F)
Humidity	5 - 70% RH, non-condensing
Atmospheric load	Dust-free

Approvals and Certifications	
Type	CE, UL, FCC

5) Only in connection with the recording of the RTSP streams on Dallmeier SMAVIA Appliances. Note the white paper **SMAVIA & 3rd Party IP Cameras**.
6) Intel and Xeon are trademarks or registered trademarks of Intel Corporation headquartered in Santa Clara, California, USA