

DVS 2200 IPS

SEDOR® Video Analysis Server Appliance for up to 12× Analysis and 24× Recording



SEDOR® is a high-performance and self-learning video analysis system which provides outstanding analytical results due to state-of-the-art image analysis algorithms and the constant adjustment of the system parameters to the current surrounding conditions (auto-adaptation). If used together with the different **analysis applications**, it can serve a variety of surveillance and counting purposes.



The **DVS 2200 IPS** is a high-performance SEDOR® video analysis server appliance for the **analysis of up to 12 IP video channels** and the **recording of up to 24 IP video channels**.

Analysis

The dedicated analysis server software *DVS Analysis Server* is configured using the integrated *SEDOR® WebGUI* over Ethernet (browser). Together with the optional licenses for the various SEDOR® analysis applications, up to 12 IP video channels can be used for video analysis.

Output

Analysis results can be output in real-time directly to the external management clients *PGuard advance* and *SMAVIA Viewing Client*. In addition, they can be sent as a message in XML format or used for the control of external relays over Ethernet. The results of counting applications can be represented graphically or in tabular form using the optional display and evaluation module *SEDOR® DiViStic* over Ethernet with a browser.

Recording

The integrated VideoIP server software *SMAVIA Recording Server* is configured over Ethernet with a browser. In conjunction with the optional licenses it supports the recording of up to 24 IP video channels.

Evaluation

The corresponding software *SMAVIA Viewing Client* for Microsoft Windows¹⁾ 7/8 operating systems allows for the independent and convenient evaluation of the recordings over Ethernet (LAN/WAN).

The **DVS 2200 IPS** has a compact 1RU housing and can be installed in a 19" rack using the included mounting brackets.

Features DVS Analysis Server

- Up to 12 analysis channels supported
- Supports Dallmeier IP cameras²⁾
- SEDOR® analysis application Art optional
- SEDOR® analysis application Intruder optional
- SEDOR® analysis application Object Counting optional
- SEDOR® WebGUI for analysis configuration over Ethernet integrated
- SEDOR® DiViStic display module for counting analyses optional
- SEDOR® camera sabotage protection optional
- Ethernet I/O Interface optional
- Ethernet 3D People Counter optional

Features SMAVIA Recording Server

- Up to 24 recording channels supported
- Basic license for the access of a SMAVIA Viewing Client included
- Free conversion of the basic license to a floating license on acquisition of additional access licenses
- License for updating the software for 12 months integrated
- License for PRemote-HD in real-time optional
- License for ViProxy optional
- License for the recording of multicast video streams included
- License for real-time recording included
- Recording of 3rd-party IP cameras with motion detection optional³⁾
- Configuration of 3rd-party IP cameras via ONVIF protocol optional³⁾
- Connection to Active Directory over LDAP
- Evaluation with SMAVIA Viewing Client over Ethernet

1) Microsoft and Windows are trademarks or registered trademarks of Microsoft Corporation headquartered in Redmond, Washington, USA
 2) Please note the white paper *DVS Analysis Server & Camera Settings*.
 3) Please note the white paper *SMAVIA & 3rd Party IP Cameras*.

DVS 2200 IPS

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Appliance	
005502	DVS 2200 IPS SEDOR® video analysis server appliance for up to 24× IP channels, licenses for 12 analysis channels optional, licenses for 24 recording channels optional, without HDDs
Integrated Licenses	
DLC - 1 Basic Client Access License for the access of a SMAVIA Viewing Client to a SMAVIA Recording Server (basic license)	
DCP - DVS Software Maintenance 12 Months License for the update of the DVS Analysis Server software for 12 months	
DLC - SNMP License for the integration into a central SNMP device management system	
DLC - Multicast Recording License for recording the video streams of Dallmeier IP cameras transmitting over multicast	
DLC - Real-Time Recording License for real-time recording for all IP channels (depends on the camera)	
Optional Licenses DVS Analysis Server	
004247	DLC - 1 Analysis Channel SEDOR® Art License for the simultaneous use of the applications SEDOR® Art and SEDOR® Camera Sabotage Protection for one channel
004248	DLC - 1 Analysis Channel SEDOR® Intruder License for the simultaneous use of the applications SEDOR® Intruder and SEDOR® Camera Sabotage Protection for one channel
004249	DLC - 1 Analysis Channel SEDOR® Object Counting License for the simultaneous use of the applications SEDOR® Object Counting and SEDOR® Camera Sabotage Protection for one channel
004210	DLC - 1 Analysis Channel SEDOR® Camera Sabotage Protection License for the detailed configuration, detection and reporting of covering, defocusing and twisting of the camera for one channel
000595	DLC - SEDOR® Event Matrix License for the use of the software interface for the connection of Ethernet I/O interfaces
004192	DLC - SEDOR® 3D Counting License for the use of the software interface for the connection of an Ethernet 3D People Counter for one channel
004137	DLC - SEDOR® DiViStic License for the use of the module for the display of the results of up to eight counting applications or devices
Optional Licenses SMAVIA Recording Server	
003782	DLC - 1 Additional Client Access License for the simultaneous access of a further SMAVIA Viewing Client on SMAVIA Recording Server (floating license)
004068	DLC - 5 Additional Client Access License for the simultaneous access of five further SMAVIA Viewing Clients on SMAVIA Recording Server (floating license)
004069	DLC - 10+ Additional Client Access (Unlimited) License for the simultaneous access of an unlimited number of SMAVIA Viewing Clients on SMAVIA Recording Server, depending on system load and bandwidth (floating license)
003783	DLC - 1 Additional Recording Channel License for the use of one additional channel for recording with SMAVIA Recording Server
003784	DLC - 2 Additional Recording Channel
003785	DLC - 4 Additional Recording Channel
003786	DLC - 8 Additional Recording Channel
004079	DLC - 12 Additional Recording Channel
004080	DLC - 16 Additional Recording Channel
004412	DLC - 3rd Party Package for 1 IP Channel License for recording (permanent or motion detection ⁴⁾) of the video stream of third-party IP cameras for one IP channel
004413	DLC - 3rd Party Package for 2 IP Channels
004414	DLC - 3rd Party Package for 4 IP Channels
004415	DLC - 3rd Party Package for 8 IP Channels
004416	DLC - 3rd Party Package for 12 IP Channels
004417	DLC - 3rd Party Package for 16 IP Channels
004418	DLC - 3rd Party Package for 24 IP Channels

4) Please note the white paper SMAVIA & 3rd Party IP Cameras.

DVS 2200 IPS

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Optional Licenses SMAVIA Recording Server

003801	DLC - PRemote-HD License for the transmission of SD and HD video at low bandwidth, including a dedicated access license ⁵⁾ and the function for bidirectional audio transmission (intercom) via LAN/WAN
003803	DLC - ViProxy License for the connection of a physically separate network for IP cameras, including authorisation management. In conjunction with SeMSy® III multicast streaming can also be used.

Optional Hardware

000178	Mounting of a HDD Mounting of a HDD, incl. function, long-term-, and final test, acceptance and approval
000084	 HDD 2000 GB, SATA, 3.5"
004551	 HDD 4000 GB, SATA, 3.5"
005206	 HDD 6000 GB, SATA, 3.5"
004822	 DPM-400W Power supply module 400W, 110/240V AC, 50/60Hz
001739	 Remote Ethernet I/O Interface⁶⁾ Ethernet I/O Interface, 2× Ethernet, 6× relay (Moxa E1214)
004130	 3D People Counter X6-PoE⁷⁾ Ethernet 3D People Counter X6 installation height 2.5–6m
004131	 3D People Counter X6⁷⁾ Ethernet 3D People Counter X6 installation height 2.5–6m
004139	 3D People Counter X4 Kit⁷⁾ Ethernet 3D People Counter X4 installation height 2.2–4m, cable and power supply unit included

Maintenance and Warranty

004193	DCP - DVS Software Maintenance 12 Months License for the update of the DVS Analysis Server Software for further 12 months
003794	DCP - 36 Months „Bring-in“ Warranty Extension of the „Bring-in“ warranty period (without HDDs) to 36 months in total
003795	DCP - 48 Months „Bring-in“ Warranty Extension of the „Bring-in“ warranty period (without HDDs) to 48 months in total
003796	DCP - 60 Months „Bring-in“ Warranty Extension of the „Bring-in“ warranty period (without HDDs) to 60 months in total

5) The first PRemote client (master) is assigned active control over the PRemote stream; further PRemote clients (slaves) receive the stream passively.

6) Please note the required license **DLC - SEDOR® Event Matrix** (000595).

7) Please note the required license **DLC - SEDOR® 3D Counting** (004192).

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Specifications Hardware

Components	
CPU	Multi-Core
RAM	2× 4 GB DDR3
Flash module	1× 8 GB (for operating system only)
Hard disk drives	4× changeable frames integrated 4× HDD, SATA, 3.5" optional
Fans	5× with 40×28 mm

Interfaces	
Monitor OUT	1× D-SUB, 15 Pins
USB	2× USB 2.0, front side / 4× USB 2.0, rear side
Ethernet	2× RJ45, 10/100/1000Mbps
IPMI	1× RJ45, 10/100 Mbps (dedicated Intelligent Platform Management Interface V2.0)
COM 1	1× D-SUB, 9 Pins, rear side
COM 2	1× D-SUB, 9 Pins, front side

Electrical Data	
Voltage supply	110/230 V AC, 50/60 Hz
Power consumption	Max. 400 W
Heat power	Max. 1364 BTU/h

Mechanical Data	
Dimensions (W × H × D)	Approx. 437 × 43 × 503 mm (17.2" × 1.7" × 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/Certifications	
Type	CE, FCC, UL

Specifications DVS Analysis Server Software

Software	
Operating system,	Linux (proprietary, hardened)
Application	DVS Analysis Server Software
Supported cameras	IP cameras from Dallmeier ⁸⁾
Analysis channels	Up to 12× IP channels
External configuration software	SEDOR® WebGUI
Language	English, German (others on request)

Applications/Functions	
SEDOR® Art	optional
SEDOR® Intruder	optional
SEDOR® Object Counting	optional
SEDOR® Camera Sabotage Protection	optional
SEDOR® Event Matrix	optional
SEDOR® 3D Counting	optional
SEDOR® DiViStic	optional

8) Please note the white paper *DVS Analysis Server & Camera Settings*.

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Specifications SMAVIA Recording Server Software

Software	
Operating system	Linux (proprietary, hardened)
Application	SMAVIA Recording Server Software
Supported cameras	Dallmeier IP cameras and 3rd party ⁹⁾ IP cameras
Recording channels	Up to 24× IP channels
External management software	SMAVIA Viewing Client, DMVC App
External configuration software	PService
Track mode	Automatic
Certification	LGC Forensics
Language	English, German, French, Spanish, Italian (others on request)

Performance	
Video/Audio compression	H.264 / G.722.1
Frame rate per SD channel	6,25 / 12,5 / 25 fps
Frame rate per HD channel	6,25 / 12,5 / 25 fps
Frame rate per RTSP channel	Up to 25 fps
Max. total bit rate	Up to 120Mbps
Bit rate per SD channel	Up to 4Mbps
Bit rate per HD channel	Up to 6Mbps
Bit rate per RTSP channel	Up to 6Mbps
Resolutions SD	QCIF (176 × 144), CIF (352 × 288), Half D1 (352 × 576), 2CIF (704 × 288), 4CIF (704 × 576), D1 (720 × 576)
Resolutions HD	720p (1280 × 720), SXGA (1280 × 960), 2MP (1600 × 1200) 1080i (1920 × 1080), 1080p (1920 × 1080), 3MP (2048 × 1536), 4MP (2336 × 1744), 5MP (2592 × 1944), up to 8MP

Recording ¹⁰⁾	3rd Party IP Camera	Dallmeier IP Camera
Transport protocol	RTP über UDP	TCP
Communications protocol	RTSP	DaVid
Recording control with timer	integrated	integrated
Recording mode Constant	integrated	integrated
Recording mode Contact	integrated	integrated
Recording mode Motion	integrated	integrated
Recording mode Motion/Contact	integrated	integrated
Switching recording mode by timer	--	integrated

Functions ¹⁰⁾	3rd Party IP Camera	Dallmeier IP Camera
Motion detection	integrated	integrated
SmartFinder	integrated	integrated
Appliance as video proxy	integrated	integrated
Appliance as multicast streamer	integrated	integrated
PRemote-HD	integrated	integrated
DMVC Server	integrated	integrated
PTZ control local	integrated	integrated
PTZ control with SMAVIA Viewing Client	integrated	integrated
Camera configuration	integrated	integrated
Locking the camera configuration	--	integrated
Audio recording	--	integrated
Recording of multicast video streams	--	integrated
EdgeStorage&SmartBackfill	--	integrated
Network scan (IP Finder)	--	integrated

9) Optional licenses required: **3rd Party Package** 004412 to 004418. Please note the white paper **SMAVIA & 3rd Party IP Cameras**.

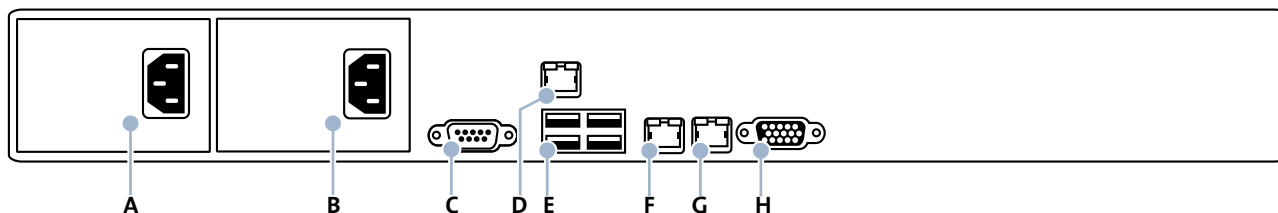
10) Data refer to a fully equipped appliance. Optional licenses are required.

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Connections and Displays

Rear Side



A Power Supply Module 1

IEC C14 socket, 110/240V AC, 50/60Hz

B Power Supply Module 2

IEC C14 socket, 110/240V AC, 50/60Hz

C COM 1

D-SUB, 9 pins

D IPMI Interface

RJ45, 10/100Mbps (dedicated Intelligent Platform Management Interface V2.0)

E USB Interface

4× USB 2.0, type A

F Ethernet Interface 1

RJ45, 10/100/1000Mbps

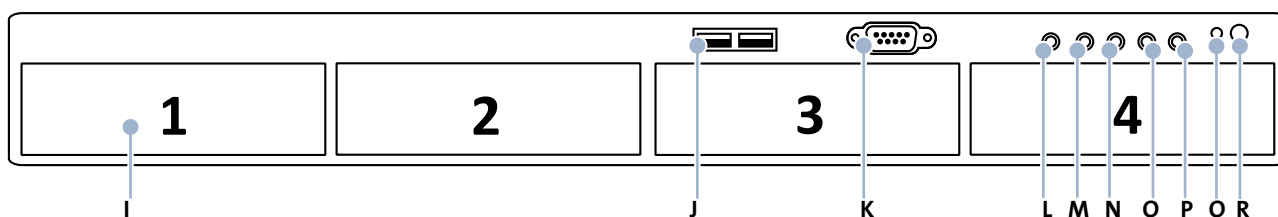
G Ethernet Interface 2

RJ45, 10/100/1000Mbps

H Monitor OUT

Mini-D-SUB, 15-pole

Front Side



I HDD Changeable Frame 1–4

J USB Interface

2× USB 2.0, type A

K COM 2

D-SUB, 9 pins

L LED System Overheat

M LED Network Activity LAN 2

N LED Network Activity LAN 1

O LED Hard Disk Activity

P LED Voltage Status

Q Reset

R Mains Switch