DVS 2200 IPS

SEDOR® Video Analysis Server Appliance for up to 12× Analysis and
24× Recording (IP Channels)

SEDOR®

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.

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 Windows[1] operating systems allows for the independent and convenient evaluation of the recordings over Ethernet (LAN/WAN).

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

Features DVS Analysis Server

- Supports up to 12 analysis channels
- Licenses for analysis optional
- Supports Dallmeier IP cameras[2]
- SEDOR® analysis application Art optional
- SEDOR® analysis application Intruder optional
- SEDOR® WebGUI for analysis configuration over Ethernet integrated
- SEDOR® camera sabotage protection optional
- Ethernet I/O Interface optional

Features SMAVIA Recording Server

- Supports up to 24 recording channels
- Licenses for recording optional
- 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 optional[3]
- Configuration of 3rd-party IP cameras via ONVIF protocol optional[3]
- 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**.

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Appliance	
005502	**DVS 2200 IPS** SEDOR® video analysis server appliance for up to 12× analysis and 24× recording (IP channels), without recording and analysis licenses, 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** icense 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
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

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**
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.
005142	**DLC - Ethernet I/O Interface for SMAVIA**[6] License for the use of the software interface for the connection of Ethernet I/O interfaces

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

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		Optional Hardware
000178		**Mounting of a HDD** Mounting of a HDD, incl. function, long-term-, and final test, acceptance and approval
006664		**HDD 2000 GB, SATA, 3.5"**
006158		**HDD 4000 GB, SATA, 3.5"**
006596		**HDD 6000 GB, SATA, 3.5"**
004822		**DPM-400W** Power supply module 400 W, 110/240 V AC, 50/60 Hz
001739		**Remote Ethernet I/O Interface**[7] Ethernet I/O Interface, 2× Ethernet, 6× relay (Moxa E1214)

		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) The current version supports the connection of the interfaces MOXA ioLogik E1210 (16 contacts) and MOXA ioLogik E1214 (6 contacts, 6 relays).
7) Please note the required license **DLC - Ethernet I/O Interface for SMAVIA** (005142).

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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, 10/100/1000 Mbps
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® Camera Sabotage Protection	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 120 Mbps
Bit rate per SD channel	Up to 4 Mbps
Bit rate per HD channel	Up to 6 Mbps
Bit rate per RTSP channel	Up to 6 Mbps
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), 2 MP (1600 × 1200) 1080i (1920 × 1080), 1080p (1920 × 1080), 3 MP (2048 × 1536), 4 MP (2336 × 1744), 5 MP (2592 × 1944), up to 8 MP

Recording[10]	3rd Party IP Camera[9]	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[9]	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**.
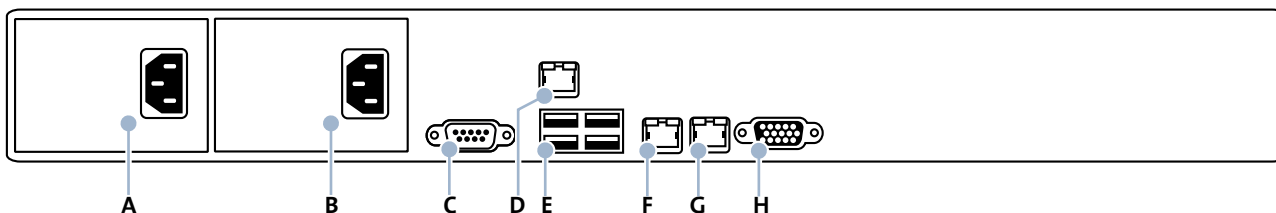10) Data refer to a fully equipped appliance. Optional licenses are required.

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Connections and Displays

Rear Side

A	B	C	D E		F	G	H

A   **Power Supply Module 1**

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

B   **Power Supply Module 2**

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

C   **COM 1**

     D-SUB, 9 pins

D   **IPMI Interface**

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

E   **USB Interface**

     4× USB 2.0, type A

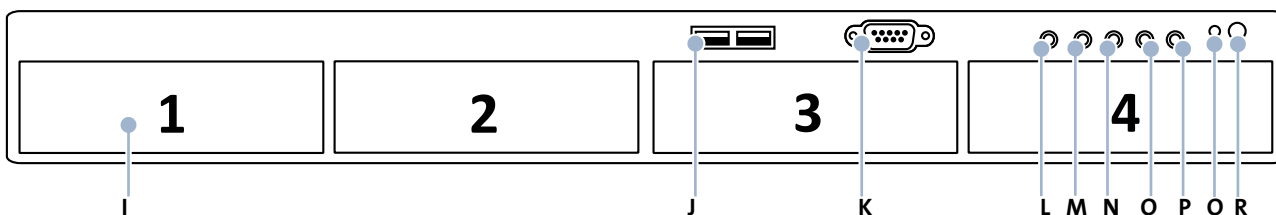**F**   **Ethernet Interface 1**

     RJ45, 10/100/1000 Mbps

G   **Ethernet Interface 2**

     RJ45, 10/100/1000 Mbps

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**