SMAVIA Recording Server

VideoIP Recording Server Software for Windows Systems

SMAVIA

PANOMERA®

The **SMAVIA Recording Server** is a VideoIP server software for the recording of IP based audio and video streams. It is designed for the installation on systems with Microsoft Windows[1] 7/8 operating system and suitable hardware equipment. The basic version with 4 IP based video channels can be expanded by up to 20 further IP based channels using a license code.

The corresponding software **SMAVIA Viewing Client** allows for the independent and comfortable evaluation of the recordings via Ethernet (LAN/WAN). It can be operated on systems with Microsoft Windows 7/8/10 operating system and is included in the **SMAVIA Software Package** scope of delivery together with an access license.

Up to 24 Channels	ONVIF Cameras	SmartFinder	Panomera® Recording

Features

- Licenses for the recording of 4 HD cameras or Panomera® Channels included
- 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 SmartFinder recording included
- License for recording in real-time included
- License for the recording of multicast video streams included
- Video compression H.264, MPEG-4, MJPEG
- Resolution SD (up to D1), HD (up to 1080p), megapixel (up to 8 MP)
- Recording of third-party IP cameras with motion detection optional[3]
- Configuration of third-party IP cameras via ONVIF protocol optional[3]
- Connection to Active Directory via LDAP supported
- Connection to SeMSy® management system supported
- Remote configuration via Windows Remote Desktop Protocol (RDP)
- Evaluation with SMAVIA Viewing Client or SeMSy® via Ethernet

System Requirements

- Operating system Microsoft Windows 7/8 Professional (32/64 bit)
- CPU Intel[2] QuadCore 2.66 GHz (or equivalent)
- Graphics card with chipset Intel GMA 4500 (or equivalent)
- Working memory 2 GB
- 500 MB disk space (installation directory)
- 1000 Mbps Ethernet interface
- Free space of 500 GB at least recommended on separate HDD
- Local hard drives supported
- USB hard drives supported
- Network Attached Storage (NAS) supported
- NTFS file system for recording supported
- Ext4 file system for recording supported

	Software
004910	**SMAVIA Software Package (Dongle Activation)** SMAVIA Recording Server with licenses for 4 channels and SMAVIA Viewing Client on CD, documentation, installation key and dongle included (no online activation required)

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1) Microsoft and Windows are trademarks or registered trademarks of Microsoft Corporation headquartered in Redmond, Washington, USA
2) Intel is a trademark or registered trademark of Intel Corporation headquartered in Santa Clara, California, USA
3) Please note the white paper **SMAVIA & 3rd Party IP Cameras**.

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Integrated SMAVIA Recording Server Licenses
DLC - 4 Recording Channels License for the use of 4 channels for the recording of HD cameras or Panomera® Channels
DLC - 1 Basic Client Access License for the access of a SMAVIA Viewing Client to a SMAVIA Recording Server (basic license)
DLC - SmartFinder License for the use of the intelligent search for recordings with movements in defined areas of the image
DLC - Multicast Recording License for the recording of video streams of Dallmeier IP cameras using multicast transmission
DLC - Real-Time Recording License for real-time recording for all IP channels (depending on the camera)

Optional SMAVIA Recording Server Licenses (Access)	
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)

Optional SMAVIA Recording Server Licenses (HD Channels)	
003783	**DLC - 1 Additional Recording Channel** License for the use of one additional channel for the recording of HD cameras or Panomera® Channels
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**

Optional SMAVIA Recording Server Licenses (Third-Party Channels)	
004412	**DLC - 3rd Party Package for 1 IP Channel** License for the use of one existing HD channel for the recording (permanent or motion detection[4]) of third-party IP cameras
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**

Optional SMAVIA Recording server Licenses (General)	
003810	**DLC - SEDOR® Camera Sabotage Protection** License for the detection and reporting of covering, defocusing and twisting of cameras for all channels

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

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Specifications

System Requirements

General	Operating system Microsoft Windows 7 / 8 Professional (32 / 64 bit)
	CPU Intel QuadCore 2.66 GHz (or equivalent)
	Graphics card with chipset Intel GMA 4500 (or equivalent, e.g. ATI[5] 3450 or Nvidia[6] 8400GS)
	Working memory 2 GB
	500 MB disk space (installation directory)
	1000 Mbps Ethernet interface
Recording	Free space of 500 GB at least recommended on separate HDD
	Local hard drives supported
	USB hard drives supported
	Network Attached Storage (NAS) supported
	NTFS file system for recording supported
	Ext4 file system for recording supported
Ports	30.000
	30.003
	30.303
	30.304

Software

Application	SMAVIA Recording Server
Application language	English, German, French, Spanish, Italian (others on request)
External management software	SMAVIA Viewing Client, SeMSy® III

Recording

Channels	Licenses for 4 channels included, expandable to up to 24 channels
Supported cameras	Dallmeier IP cameras via TCP/DaVid (Dallmeier video protocol)
	Third-party IP cameras with RTSP streaming over UDP/RTP[7]
Track mode	Automatic
Video compression	H.264, MPEG-4, MJPEG
Audio compression	MPEG-1 Layer 2
Resolutions SD IP	QCIF (176 × 144), CIF (352 × 288), Half D1 (352 × 576), 2CIF (704 × 288), 4CIF (704 × 576), D1 (720 × 576)
Resolutions HD IP	720p (1280 × 720), SXGA (1280 × 960), 2 MP (1600 × 1200) 1080i (1920 × 1080), 1080p (1920 × 1080)
Resolutions megapixel	3 MP (2048 × 1536), 4 MP (2336 × 1744), 5 MP (2592 × 1944), up to 8 MP
Frame rate per SD IP channel	6.25 / 12.5 / 25 fps
Frame rate per HD IP channel	6.25 / 12.5 / 25 fps
Frame rate per RTSP IP channel	Up to 25 fps
Max. total bit rate	Up to 120 Mbps
Bit rate per SD IP channel	Up to 4 Mbps
Bit rate per HD IP channel	Up to 6 Mbps
Bit rate per RTSP IP channel	Up to 6 Mbps

Integrated functions

Motion detection	Integrated
SmartFinder	Integrated
Audio for all channels	Integrated (for Dallmeier IP cameras)
Privacy Zones	Integrated (directly in Dallmeier IP cameras)
Recording of RTSP cameras	Optional (Licenses 004412 to 004418)
Configuration of ONVIF cameras	Optional (Licenses 004412 to 004418)
PRemote-HD	--
iPhone Server	--
SEDOR® Camera Sabotage Protection	Optional (License 003810)
SeMSy® compatibility	Integrated

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