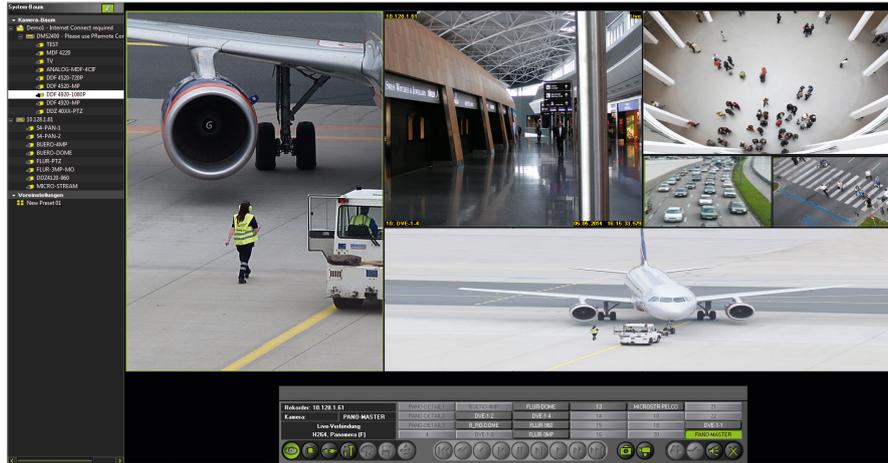


SMAVIA Viewing Client

VideoIP Viewing Client Software for Windows Systems



SMAVIA Viewing Client is a VideoIP client software for fast and convenient evaluation of recording systems with SMAVIA Recording Server via Ethernet (LAN/WAN). In addition to the fast and intuitive display of live views, the integrated functions support an efficient evaluation of the recordings: Sophisticated navigation functions for playback, various search functions for metadata, SmartFinder for searching sequences with movements and PRemote-HD for transmission in narrow-band networks.

SMAVIA Viewing Client has been optimized for live display and playback of Panomera® multifocal sensor systems. After defining the corresponding recording system, the live display or playback can be activated in a split as usual. Note and use the new and advantageous functions such as individual split definition or corridor mode.

GPU support

SMAVIA Viewing Client has been optimized for parallel decoding of multiple HD streams on graphics cards (GPU) with Nvidia¹⁾ CUDA technology. This allows a powerful workstation to decode and display significantly more HD network cameras simultaneously and in real-time than before. For displaying Panomera® multifocal sensor systems, the Nvidia GeForce¹⁾ GTX 1070 graphics card is especially recommended. It allows up to three monitors to be connected and can seamlessly display even very large Panomera® views.

Split Definition

The split views can be quickly and easily adapted to Panomera® channels. The number of splits and the respective horizontal and vertical dimensions can be individually defined and saved as a preset. The split definition for Panomera® Channels is not bound to predefined layouts or image formats. A high split can be defined as a corridor mode for displaying long distances or a wide split for displaying large areas. In addition, defined splits can be combined and conveniently saved as presets.

Site plans

SMAVIA Viewing Client offers the possibility to create site plans to facilitate orientation in large systems. The site plans are based on JPEG, PNG oder BMP files that represent the corresponding space. The installed cameras can be integrated as icon and field of view with a few clicks. The activation of the live display in a split is just as convenient: by drag & drop or with a double click.

SmartFinder

SmartFinder is a system that intelligently searches for motion in any area of the image. This enables a target-oriented, fast and efficient evaluation of the recordings. The search for images with motion is simple and straightforward. After marking the relevant area, SmartFinder finds the sequences with motion within a few seconds and makes them available in a list.

PRemote-HD

PRemote-HD is a transcoding process that allows HD and megapixel streams to be transmitted and displayed even at low bandwidths. PRemote-HD is particularly useful where images are to be recorded in the highest quality, but only a narrow-band network is available for viewing. In its latest version, PRemote-HD also supports the bandwidth-saving live display and playback of Panomera® Master-Channels. This allows Panomera® systems to be viewed even over networks that are so narrow-banded that they do not support the use of all the advantages of Panomera® technology.

Features

- Access to SMAVIA Recording Server via Ethernet (LAN/WAN)
- Split definition function for Panomera® supported
- Corridor mode function for Panomera® supported
- Overview mode function for Panomera® supported
- Zoom with overview function for Panomera® supported
- Split exchange function supported
- Parallel GPU decoding supported
- Performance monitor function supported
- Pixelation function supported
- SmartFinder function supported
- PRemote-HD function supported
- SmartZoom function for PRemote-HD connections supported
- Microsoft Windows²⁾ 10 Professional operating system

1) NVIDIA and GeForce are trademarks or registered trademarks of NVIDIA Corporation headquartered in Santa Clara, California, USA

2) Microsoft and Windows are trademarks or registered trademarks of Microsoft Corporation headquartered in Redmond, Washington, USA

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System requirements³⁾

For decoding and displaying a HD stream, one CPU core is required. An efficient and cost-effective alternative is to decode multiple HD streams in parallel on the GPU of a graphics card. This function is integrated in the SMAVIA Viewing Client software through a special extension for Nvidia CUDA technology. Panomera® multifocal sensor systems can be perfectly decoded and displayed with the NVIDIA GeForce GTX 1660 graphics cards.

Name	Minimum	Best Practice (Recommendation)
Operating system	Microsoft Windows 10 Professional (64 Bit)	Microsoft Windows 10 Professional (64 Bit)
CPU	2,66 GHz Dual-Core	3,6 GHz Quad-Core
RAM	2 GB DDR3	8 GB DDR3
Recommendation	NVidia GeForce GTX 1660	1x NVidia GeForce GTX 1660 and 2x GTX 1050
Network	1000 Mbps	1000 Mbps

Performance⁴⁾

With one of the specified graphics cards an enormous decoding performance can already be achieved. When not used for Panomera® multifocal sensor systems, these cards can also decode and display a large number of conventional HD network cameras.

A further increase in decoding performance can be achieved by using three graphics cards. In this case SMAVIA Viewing Client uses one graphics card for the display and the two additional ones completely for decoding. This specialization then allows the decoding and display of several Panomera® S 8.

Source	Resolution	Frame Rate	Minimum Workstation	Best Practice Workstation
Panomera® S 8 Topline	48 MP	25 fps	1x	3x
Panomera® S 8 Ultraline	96 MP	25 fps	1x	2x
HD network camera	1080p	25 fps	up to 10x	up to 30x

Licensing

SMAVIA Viewing Client is designed as a client for recording systems with integrated SMAVIA Recording Server. The licensing of access is done on the server. A basic license for access by a client is always included with the server.

SMAVIA Viewing Client is backwards compatible and supports the display and evaluation of generation 3 and 4 recording systems, in which case licensing is done by connecting a license dongle bound to the client.

Software	
006517	SMAVIA Viewing Client Compatibility Dongle License and dongle for SMAVIA Viewing Client access to generation 3 and 4 recorders

3) These requirements apply to systems with HD cameras and Panomera® multifocal sensor systems. For systems with SD cameras, workstations with the following or comparable equipment can be used: Microsoft Windows 10, CPU Intel Core2Quad 2,66 GHz, RAM 2 GB, DirectX 8.1.

4) The table shows approximate values, related to the display with a full HD monitor. The performance depends on the resolution of the monitor and the total system load.

