

VideoNetBox II

SMAVIA Appliance for up to 8 IP Channels, 2 × 2.5" HDD



Panomera® Recording

Compact Design

Open Platform

Up to 8 IP Channels

The **VideoNetBox II** is a compact appliance with a processing capacity for up to **8 IP video channels**. The basic version with 2 IP video channels can be expanded with up to 6 additional video channels using a license code.

The **VideoNetBox II** is perfectly suited for wall mountings. Its compact and robust design allows for a flexible use. Together with the dedicated software **SMAVIA Recording Server**, it is the ideal IP security solution e.g. for retail stores, gas stations and private residences.

SMAVIA Viewing Client

The corresponding software **SMAVIA Viewing Client** allows for the independent and convenient evaluation of the recordings over Ethernet (LAN/WAN). It can be run on devices with a Windows operating system and is included in the **VNB II**'s scope of delivery together with an access license.

DMVC Server

The integrated **DMVC Server Software** allows for a mobile access with the **Dallmeier Mobile Video Center** smartphone application (iOS and Android). The display of live images and playback of recordings follow a special procedure which is independent of the recording settings of the VNB II.

Open Platform

The pre-installed software **SMAVIA Recording Server** is designed as an open platform. Together with the according licenses, **3rd-party IP cameras** with **motion detection** can be recorded and configured over the **ONVIF protocol**²⁾.

Easy Mounting

The compact, robust and well-proven **VideoNetBox** enclosure was further optimised for the current **version II**. After opening the cover on the rear, **hard disk drives** can be easily installed or exchanged in a few simple steps.

Features Hardware

- Compact server hardware with multi-core CPU
- Flash memory for operating system
- Suitable for up to 8 SD, HD or megapixel video channels
- **Analog Upgrade Kit** for the **hybrid operation** with up to 8 channels (analog/SD-IP/HD-IP) optional
- **One local playback** of one camera (analog, SD IP or HD IP) optional
- Multi-split **local live display** of several cameras (analog, SD IP and HD IP) optional
- High-speed storage due to fully compatible components
- Optimised for the easy installation of hard disk drives
- Numerous mounting options on walls or ceilings

Features SMAVIA Recording Server

- Licenses for the recording of 2 **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 **updating** the **SMAVIA software** for 12 months included
- License for **SEDOR® camera sabotage protection** optional
- License for **PRemote-HD** in real-time optional
- License for **LocalViewing** and **ViProxoy** optional
- License for the **recording of multicast video streams** included
- License for **real-time recording** included
- **EdgeStorage&SmartBackfill** supported
- Network scanning (**IP Finder**) supported
- **Recording of 3rd-party IP cameras with motion detection** optional²⁾
- **Configuration of 3rd-party IP cameras via ONVIF protocol** optional²⁾
- **BANK Package** in compliance with **DGUV Test (UVV-Kassen)** optional
- Evaluation with **SMAVIA Viewing Client** or **SeMSy®** over Ethernet

Appliance

004755	VideoNetBox II SMAVIA Appliance for up to 8 IP channels; includes SMAVIA Recording Server (pre-installed) with licenses for 2 channels, without HDDs
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1) This image shows hardware with optional components and software with optional licenses (full range of equipment).
2) Please note the white paper **SMAVIA & 3rd Party IP Cameras**.

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SMAVIA Appliance for up to 8 IP Channels, 2 × 2.5" HDD

Included SMAVIA Recording Server Licenses

DLC - 2 Recording Channel

License for the use of 2 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 - Software Maintenance 12 Month

License for the update of the SMAVIA software for 12 months

DLC - SNMP

License for the integration into a central SNMP device management system

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)

004757 DLC - 1 Additional Client Access (VNB II)

License for the simultaneous access of a further SMAVIA Viewing Client on SMAVIA Recording Server (floating license)

004758 DLC - 5 Additional Client Access (VNB II)

License for the simultaneous access of five further SMAVIA Viewing Clients on SMAVIA Recording Server (floating license)

004759 DLC - 10+ Additional Client Access (Unlimited, VNB II)

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 (Channels)

004760 DLC - 2 Additional Recording Channel (VNB II)

License for the use of two additional channels for the recording of HD cameras or Panomera® Channels

004002 DLC - 3rd Party Package for 1 IP Channel (VNB II)

License for the use of one existing HD channel for the recording (permanent or motion detection) of third-party IP cameras

004003 DLC - 3rd Party Package for 2 IP Channels (VNB II)

004004 DLC - 3rd Party Package for 4 IP Channels (VNB II)

004005 DLC - 3rd Party Package for 8 IP Channels (VNB II)

Optional SMAVIA Recording Server Licenses (General)

004761 DLC - SEDOR® Camera Sabotage Protection (VNB II)

License for the detection and reporting of covering, defocusing and twisting of cameras

004762 DLC - PRemote-HD (VNB II)

License for the transmission of SD and HD video with low bandwidth, including a dedicated access license³⁾ and the function for bidirectional audio transmission (intercom) via LAN/WAN

004763 DLC - PRemote-HD & SEDOR® Camera Sabotage Protection (VNB II)

License for the transmission of SD and HD video with low bandwidth, including a dedicated access license³⁾ and the function for bidirectional audio transmission (intercom) via LAN/WAN and DLC - SEDOR® Camera Sabotage Protection

004764 DLC - LocalViewing (VNB II)

License for the use of the integrated video player for the local playback of one camera (analog, SD IP or HD IP) and the multi-split local live display of several cameras (analog, SD IP and HD IP)

004766 DLC - ViProxy (VNB II)

License for the connection of a physically separate network for IP cameras, including authorisation management. In conjunction with SeMSy® III, multicast streaming can be used as well.

004767 DLC - Audio Recording for All Analogue Channels (VNB II)⁴⁾

License for the use of audio recording for all analogue channels

004777 DLC - BANK Package (VNB II)

License for the use of the DGUV Test-compliant recording module, ATM activity monitoring and reference image transmission via e-mail included

004776 DLC - LAN Interface for Data Reception (VNB II)⁵⁾

License for the reception of the data from third-party systems over the network interface; includes linking, storing and displaying the data with the video recordings.

004765 RAID 1 (VNB II)⁶⁾

License for the recording with RAID 1, 2× HDDs of the same capacity required (ex factory only)

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

4) Only in connection with the Analog Upgrade Kit (004775)

5) The current version supports the direct connection of AWEK POS systems and the connection of POS systems, access control systems and ATMs of other suppliers using the NORMA systems protocol converter NPC II.

6) When using the RAID configuration, a connection to a UPS is necessary.


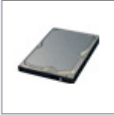
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Maintenance and Warranty

004768	DCP - Software Maintenance 12 Months (VNB II) License for the update of the SMAVIA software for further 12 months
004769	DCP - 36 Months „Bring-in“ Warranty (VNB II) Extension of the „Bring-in“ warranty period (without HDDs) to 36 months in total
004770	DCP - 48 Months „Bring-in“ Warranty (VNB II) Extension of the „Bring-in“ warranty period (without HDDs) to 48 months in total
004771	DCP - 60 Months „Bring-in“ Warranty (VNB II) Extension of the „Bring-in“ warranty period (without HDDs) to 60 months in total
004772	DCP - 36 Months „Bring-in“ Warranty and Software Maintenance (VNB II) Extension of the „Bring-in“ warranty period (without HDDs) to 36 months in total, incl. license for the update of the SMAVIA software
004773	DCP - 48 Months „Bring-in“ Warranty and Software Maintenance (VNB II) Extension of the „Bring-in“ warranty period (without HDDs) to 48 months in total, incl. license for the update of the SMAVIA software
004774	DCP - 60 Months „Bring-in“ Warranty and Software Maintenance (VNB II) Extension of the „Bring-in“ warranty period (without HDDs) to 60 months in total, incl. license for the update of the SMAVIA software


Options Hardware

000178	Mounting of a HDD Mounting of a HDD, incl. function, long-term-, and final test, acceptance and approval
004087	 HDD 1000 GB, SATA, 2.5"
006248	 HDD 2000 GB, SATA, 2.5"


Options Hybrid Upgrade

004775	 Analog Upgrade Kit (8 Input, 2 Output) for 8 Hybrid Channels Encoder board MRB-H264/8 (Plus) for 8 analog video channels with up to 25/30 fps; includes audio IN adapter. Decoder board MDB-H264/2 for 2 analog monitors (2 × BNC/CVBS). Without additional licenses, ex factory only.
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Option Network Contacts

005142	DLC - Ethernet I/O Interface for SMAVIA⁷⁾ License for the use of the software interface for the connection of Ethernet I/O interfaces
001739	 Remote Ethernet I/O Interface Ethernet I/O Interface, 2 × Ethernet, 6 × contact, 6 × relay (MOXA ioLogik E1214)

Option Camera Control

001717	 VSC-1 Keyboard and joystick for the control of PTZ cameras via Dallmeier recording systems
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7) The current version supports the connection of the interfaces MOXA ioLogik E1210 (16 contacts) and MOXA ioLogik E1214 (6 contacts, 6 relays).

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Components	
CPU	Multi-Core
RAM	4 GB
Flash module	2 GB (for operating system only)
Hard disks	Max. 2 × 2,5" HDD (optional)
Max. storage capacity	Currently up to 4 TB (without RAID)
Fan	1× with automatic speed adaptation
Power supply module	External module (included in the scope of delivery)

Interfaces	
Video IN analog	8× D-SUB / BNC (adapter cable), with loop-through ⁹⁾
Video OUT	1× Mini-D-SUB (resolution 1920 × 1080, for configuration, LocalViewing optional) ⁸⁾ 1× HDMI (resolution 1920 × 1080, for configuration, LocalViewing optional) ⁸⁾ 2× BNC/CBAS (optional) ⁹⁾
AUX / Line IN	1× 3.5 mm phone jack (for intercom, license 004762 required)
Audio OUT	1× 3.5 mm phone jack (for intercom, license 004762 required)
USB	4× USB 2.0
Ethernet 1	RJ45, 10/100/1000 Mbps
Ethernet 2	RJ45, 10/100/1000 Mbps (optional for ViProxy)
Ethernet protocols	IPv4, TCP, UDP, ARP, ICMP, DHCP, NTP, HTTP
Contact IN	12× with galvanic isolation, only for switch / push button (dry contact), with 4 functions each
Relay OUT	2× with galvanic isolation, max. 12 V DC / 24 V AC / 0,5 A, 150 mOhm, as NC or NO
12 V DC OUT	1× Weidmüller socket
Serial	1× RS232 1× RS485
PS/2	--

Electrical Data	
Voltage Supply	12 V DC ±5%
Power consumption	Max. 40 W mit 2× HDD (standard variant) Max. 80 W mit 2× HDD (variant with optional Analog Upgrade Kit, 004775)
Thermal output	Max. 136 BTU/h with 2× HDD (standard variant) Max. 273 BTU/h with 2× HDD (variant with optional Analog Upgrade Kit, 004775)

Mechanical Data	
Dimensions (B × H × T)	Approx. 230 × 95 × 150 (9.0" × 3.6" × 5.9") without feet
Weight	Approx. 4 kg (9 lbs) with 2 HDDs

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, FCC, , LGC Forensics, DGUV Test, DIN EN 50130-4

8) Only in connection with LocalViewing (004764)

9) Only in connection with the Analog Upgrade Kit (004775)

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Software	
Operating system	Linux (proprietary, hardened)
Application	SMAVIA Recording Server
Application language	English, German, French, Spanish, Italian (others on request)
External management software	SMAVIA Viewing Client, SeMSy® III DMVC App (optional, license for PRemote-HD 004762 required)
External configuration software	PService

Performance in Connection with VideoNetBox II	
Channels	Licenses for 2 channels included, expandable to up to 8 channels
Supported cameras	Dallmeier Panomera® multifocal sensor systems Dallmeier IP cameras via TCP/DaVid (Dallmeier Video Protocol) 3rd Party IP cameras with RTSP streaming via UDP/RTP ¹¹⁾ Analog Kameras ¹¹⁾
Track mode	Automatic
Video/Audio compression	H.264 / G.722.1
Resolutions analog	QCIF (176 × 144), CIF (352 × 288), DCIF (528 × 384), 2CIF (704 × 288), 4CIF (704 × 576)
Resolution SD IP	QCIF (176 × 144), CIF (352 × 288), Half D1 (352 × 576), 2CIF (704 × 288), 4CIF (704 × 576), D1 (720 × 576)
Resolution HD IP	720p (1280 × 720), SXGA (1280 × 960), 2 MP (1600 × 1200) 1080i (1920 × 1080), 1080p (1920 × 1080)
Resolution megapixels	3 MP (2048 × 1536), 4 MP (2336 × 1744), 5 MP (2592 × 1944), up to 12 MP
Frame rate per analog channel	6,25 / 12,5 / 25 fps at QCIF and CIF 6,25 / 12,5 fps at 2CIF, DCIF, 4CIF 25 fps at 4CIF in combination with 2 analog channels ¹²⁾
Frame rate per IP channel	Up to 25 / 30 fps, depending on the camera
Bit rate per analog channel	Up to 2 Mbps
Bit rate per IP channel	Up to 16 Mbps, depending on the camera
Max. total bit rate	Up to 48 Mbps

Features	
UTC control	Integrated (for analog cameras by Dallmeier)
Privacy Zones	Integrated (for analog cameras, directly in Dallmeier IP cameras)
DMVC Server	Integrated (PRemote-HD license 004762 required)

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

11) Only in connection with the Analog Upgrade Kit (004775)

12) Usable analog channels 1, 3, 5, 7 / Usable additional IP channels 2, 4, 6, 8

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Recording ¹³⁾	3rd Party IP Camera	Dallmeier IP Camera	Analog Camera
Transport protocol	RTP over UDP	TCP	CVBS
Communications protocol	RTSP	DaVid	--
Recording control with timer	integrated	integrated	integrated
Recording mode Constant	integrated	integrated	integrated
Recording mode Contact	integrated	integrated	integrated
Recording mode Motion	integrated	integrated	integrated
Recording mode Motion/Contact	integrated	integrated	integrated
Switching recording mode by timer	--	integrated	integrated

Functions ¹³⁾	3rd Party IP Camera	Dallmeier IP Camera	AnalogX Camera
Motion detection	integrated	integrated	integrated
SmartFinder	integrated	integrated	integrated
Appliance as video proxy	integrated	integrated	integrated
Appliance as multicast streamer	integrated	integrated	integrated
PRemote-HD	integrated	integrated	integrated
DMVC Server	integrated	integrated	integrated
PTZ control local	integrated	integrated	integrated
PTZ control with SMAVIA Viewing Client	integrated	integrated	integrated
Camera configuration	integrated	integrated	integrated
Protect Track Parts	integrated	integrated	integrated
Locking the camera configuration	--	integrated	integrated
Audio recording	--	integrated	integrated
Recording of multicast video streams	--	integrated	--
EdgeStorage&SmartBackfill	--	integrated	--
Network scan (IP Finder)	--	integrated	--
Video Content Analysis	--	integrated	--

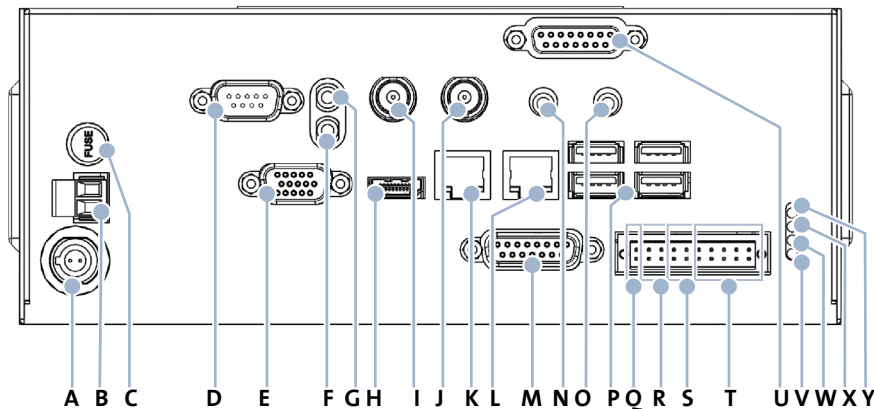
13) Data refer to a fully equipped appliance. Optional licenses are required.

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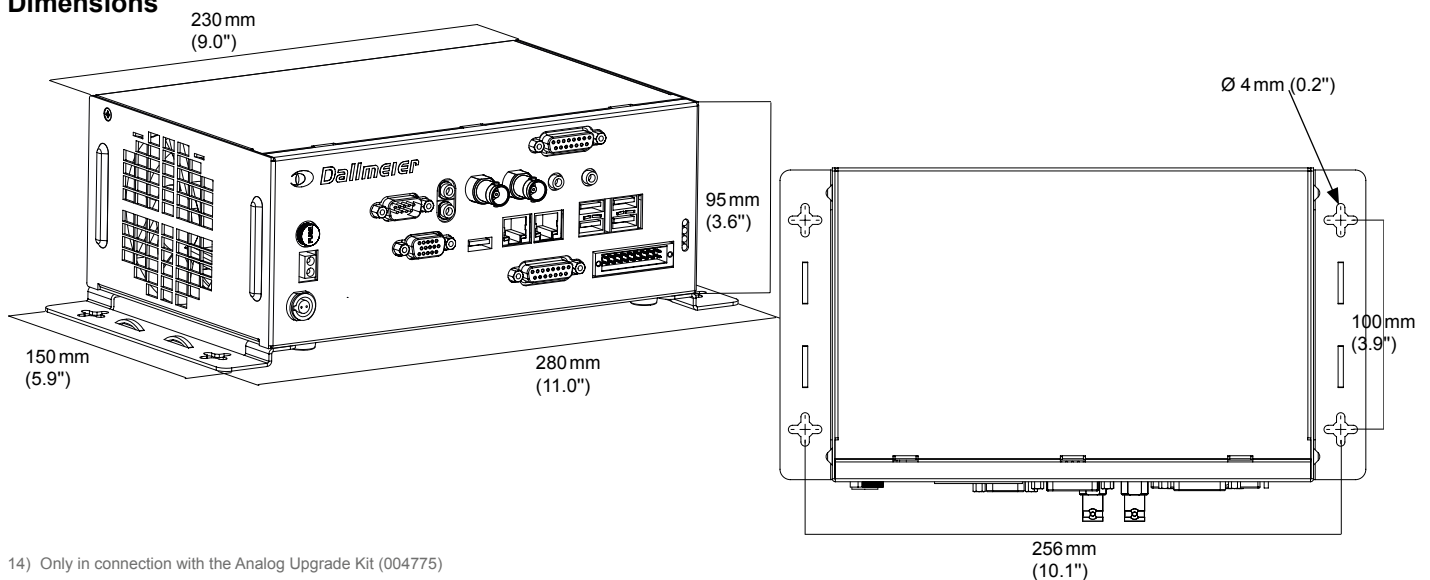
Connections

The following illustration shows hardware with optional components (full range of equipment).



- | | |
|--|--|
| A Power Supply 12V DC
ODU socket, 2-pole, 12V DC ±5% | N Not Active¹⁴⁾
3.5 mm phone jack |
| B 12V DC OUT
Weidmüller socket, 2-pole, 12V DC ± 5% (max. 3.2A) | O Not Active¹⁴⁾
3.5 mm phone jack |
| C Fuse
5 × 20 mm, type F, 3.15A | P USB Interface
4 × USB 2.0, type A |
| D Serial Interface COM 1
D-SUB, 9 pins, 1 × RS232 | Q Serial Interface COM 2
2 pins on Weidmüller 20 pins, 1 × RS485 Half Duplex (for Dallmeier PTZ dome) |
| E Video OUT Mini-D-SUB
Mini-D-SUB, 15-pole, 1920 × 1080 (for configuration, LocalViewing optional) | R Relay OUT (1 and 2)
Weidmüller socket, 4 pins, max. 12V DC/24V AC/0,5A, 150 mOhm |
| F Audio OUT
3.5 mm phone jack, 1 kOhm, 2.828 V _{pp} (optional, for intercom) | S Contact IN global (1-4)
Weidmüller socket, 4 pins, only for switch/push button (dry contact) |
| G AUX / Line IN
3.5 mm phone jack, 16 kOhm, 2.828 V _{pp} (optional, for intercom) | T Contact IN cameras (1-8)
Weidmüller socket, 8 pins, only for switch/push button (dry contact) |
| H Video OUT HDMI
HDMI 1.3, type A, 1920 × 1080 (for configuration, LocalViewing optional) | U Audio IN (1-8)¹⁴⁾
D-SUB, 15-pole, 1 kOhm, 2.828 V _{pp} (optional, for D-SUB/Cinch adapter cable) |
| I Video OUT BNC 1¹⁴⁾
BNC/CVBS, 75 Ohm, 1 V _{pp} | V Status LED (Power)
Blue / The device is in operation. |
| J Video OUT BNC 2¹⁴⁾
BNC/CVBS, 75 Ohm, 1 V _{pp} | W Status LED (Record)
Green / The device is recording. |
| K Ethernet Interface 2
RJ45, 10/100/1000 Mbps (optional, for ViProxy) | X Status LED (Alarm)
Orange / The device is in alarm mode. |
| L Ethernet Interface 1
RJ45, 10/100/1000 Mbps | Y Status LED (Error)
Red / The device indicates an error. |
| M Video IN (1-8)
D-SUB, 15-pole, 1 kOhm, 2.828 V _{pp} (optional, for D-SUB/BNC adapter cable) | |

Dimensions



¹⁴⁾ Only in connection with the Analog Upgrade Kit (004775)