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

SMAVIA PRELOADED

DIN EN 50130-4

DGUV Test

ONVIF

1)

SMAVIA Appliance   **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 XP / 7 operating system and is included in the **VNB II**'s scope of delivery together with an access license.

iPhone Server
The integrated **iPhone Server Software**2) allows for a mobile access with the smartphone application **Dallmeier Mobile Video Center** over the iPhone. 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**3).

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 **2 channels** included, expandable to up to 8 channels
- **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** 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)
- **BANK Package** in compliance with **DGUV Test** (UVV-Kassen) optional
- Connection to **Active Directory** over LDAP
- 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

1) This image shows hardware with optional components and software with optional licenses (full range of equipment).
2) Only in connection with PRemote-HD (004762)
3) Please note the white paper **SMAVIA & 3rd Party IP Cameras**.

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Included SMAVIA Recording Server Licenses

DLC - 2 Recording Channel
License for the use of 2 channels for recording with SMAVIA Recording Server

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 2 additional channels for recording with SMAVIA Recording Server
004002	**DLC - 3rd Party Package for 1 IP Channel (VNB II)** License for the recording (permanent or motion detection[4]) of the video stream of third-party IP cameras for 1 IP channel
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 license[5] 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 license[5] 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 mulit-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)[6]** 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)[7]** 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.

4) Please note the white paper **SMAVIA & 3rd Party IP Cameras**.
5) The first PRemote client (master) is assigned active control over the PRemote stream; further PRemote clients (slaves) receive the stream passively.
6) Only in connection with the Analog Upgrade Kit (004775)
7) 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.

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VideoNetBox II

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

	Options Hardware
004087	**HDD 1000 GB, SATA, 2.5"**[8)
000178	**Mounting of a HDD** Mounting of a HDD, incl. function, long-term-, and final test, acceptance and approval
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.

	Maintenance and Warranty
004768	**DCP - Software Maintenance 12 Month (VNB II)** License for the update of the SMAVIA software for further 12 months
004769	**DCP - 36 Month „Bring-in" Warranty (VNB II)** Extension of the „Bring-in" warranty period (without HDDs) to 36 months in total
004770	**DCP - 48 Month „Bring-in" Warranty (VNB II)** Extension of the „Bring-in" warranty period (without HDDs) to 48 months in total
004771	**DCP - 60 Month „Bring-in" Warranty (VNB II)** Extension of the „Bring-in" warranty period (without HDDs) to 60 months in total
004772	**DCP - 36 Month „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 Month „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 Month „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

8) Daily prices for hard disks can be found in the Dallmeier Partner Forum.

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Specifications Hardware

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 2 TB (without RAID)
Fan	1× with automatic speed adaptation
Power supply module	External module (included in the scope of delivery)

Interfaces

Video IN analogue	8× D-SUB / BNC (adapter cable), with loop-through[10]
Video OUT	1× Mini-D-SUB (resolution 1920 × 1080, for configuration, LocalViewing optional)[9]
	1× HDMI (resolution 1920 × 1080, for configuration, LocalViewing optional)[9]
	2× BNC/CBAS (optional)[10]
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 camera	8×, with 4 functions each (for analog cameras and IP cameras)
Contact IN global	4×, with 4 functions each
Relay OUT	2×, 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 with 2× HDD (standard variant)
	Max. 80 W with 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 (W × H × D)	Approx. 230 × 95 × 150 mm (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   CE, FCC, LGC Forensics, DGUV Test, DIN EN 50130-4

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9) Only in connection with LocalViewing (004764)
10) Only in connection with the Analog Upgrade Kit (004775)

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Specifications Software

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 iPhone App (optional, license for PRemote-HD 004762 required)
External configuration software	PService, NetConfig3

Performance in Connection with VideoNetBox II
Channels	Licenses for 2 channels included, expandable to up to 8 channels
Supported cameras	Dallmeier IP cameras via TCP/DaVid (Dallmeier Video Protocol)
	3rd-party IP cameras with RTSP streaming over UDP/RTP[11]
	Analog cameras[12]
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)
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), 2MP (1600 × 1200) 1080i (1920 × 1080), 1080p (1920 × 1080)
Resolutions megapixel	3MP (2048 × 1536), 4MP (2336 × 1744), 5MP (2592 × 1944), up to 8MP
Frame rate per analog channel	6.25 / 12.5 / 25fps at QCIF and CIF
	6.25 / 12.5fps at 2CIF, DCIF, 4CIF
	25fps at 4CIF in combination with 2 analog channels[13]
Frame rate per SD IP channel	6.25 / 12.5 / 25fps
Frame rate per HD IP channel	6.25 / 12.5 / 25fps
Frame rate per RTSP IP channel	Up to 25fps
Max. total bit rate	Up to 48Mbps
Bit rate per analog channel	Up to 2Mbps
Bit rate per SD IP channel	Up to 4Mbps
Bit rate per HD IP channel	Up to 6Mbps
Bit rate per RTSP IP channel	Up to 6Mbps

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

Recording[14]

	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[14]

	3rd-Party IP Camera	Dallmeier IP Camera	Analog 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
iPhone Server	integrated	integrated	integrated
PTZ control with SMAVIA Viewing Client	integrated	integrated	integrated
Camera configuration	integrated	integrated	integrated
Locking the camera configuration	--	integrated	integrated
Audio recording	--	integrated	integrated
Recording of multicast video streams	--	integrated	--

11) Optional licenses required: 3rd Party Package 004412 to 004418. Please note the white paper **SMAVIA & 3rd Party IP Cameras**.
12) Only in connection with the Analog Upgrade Kit (004775)
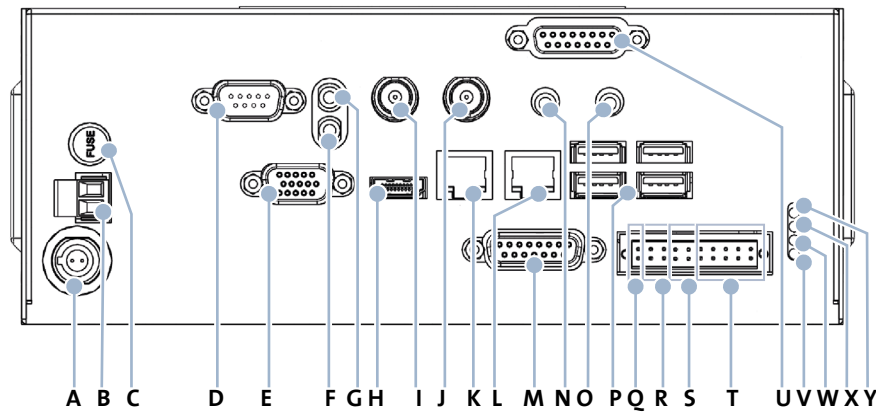13) Usable analog channels 1, 3, 5, 7 / Usable additional IP channels 2, 4, 6, 8
14) Data refer to a fully equipped appliance. Optional licenses are required.

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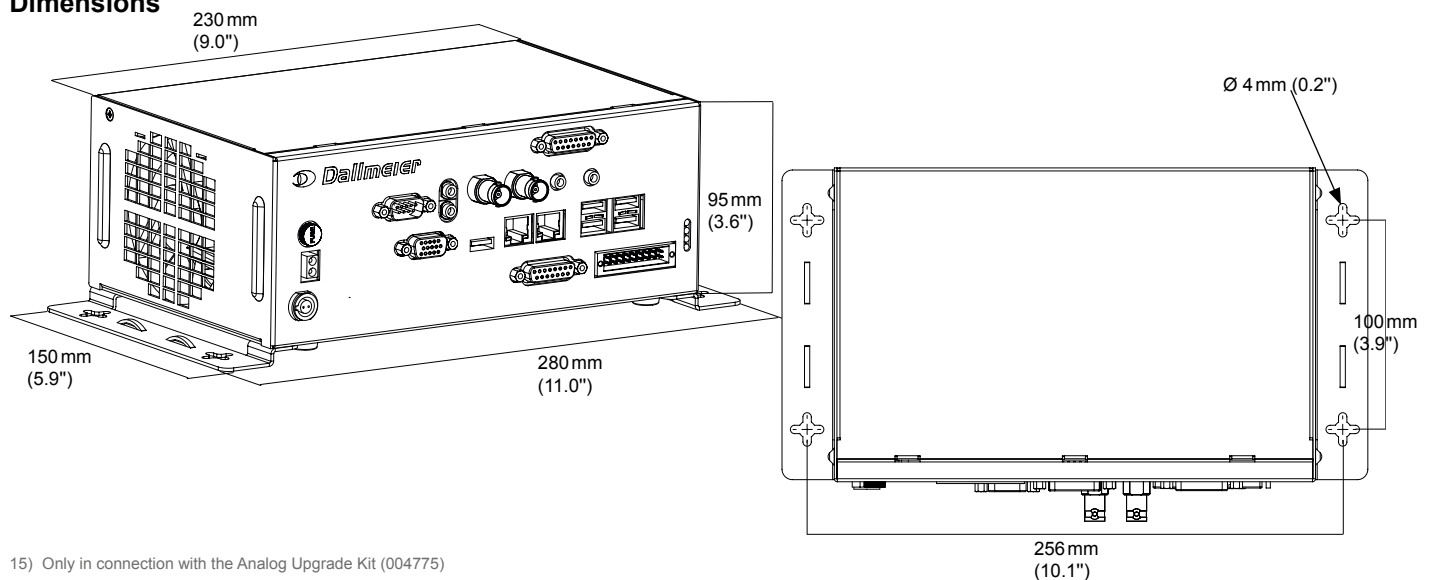## Connections

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

A Power Supply 12 V DC
ODU socket, 2-pole, 12 V DC ±5%

B 12 V DC OUT
Weidmüller socket, 2-pole, 12 V DC ± 5% (max. 3.2A)

C Fuse
5 × 20 mm, type F, 3.15A

D Serial Interface COM 1
D-SUB, 9 pins, 1× RS232

E Video OUT Mini-D-SUB
Mini-D-SUB, 15-pole, 1920 × 1080 (for configuration, LocalViewing optional)

F Audio OUT
3.5 mm phone jack, 1 kOhm, 2.828 V_{pp} (optional, for intercom)

G AUX / Line IN
3.5 mm phone jack, 16 kOhm, 2.828 V_{pp} (optional, for intercom)

H Video OUT HDMI
HDMI 1.3, type A, 1920 × 1080 (for configuration, LocalViewing optional)

I Video OUT BNC 1[15)]
BNC/CVBS, 75 Ohm, 1 V_{pp}

J Video OUT BNC 2[15)]
BNC/CVBS, 75 Ohm, 1 V_{pp}

K Ethernet Interface 2
RJ45, 10/100/1000 Mbps (optional, for ViProxy)

L Ethernet Interface 1
RJ45, 10/100/1000 Mbps

M Video IN (1 - 8)
D-SUB, 15-pole, 1 kOhm, 2.828 V_{pp} (optional, for D-SUB / BNC adapter cable)

N Not Active[15)]
3.5 mm phone jack

O Not Active[15)]
3.5 mm phone jack

P USB Interface
4× USB 2.0, type A

Q Serial Interface COM 2
2 pins on Weidmüller 20 pins, 1× RS485 Half Duplex (for Dallmeier PTZ dome)

R Relaa OUT (1 and 2)
4 pins on Weidmüller 20 pins

S Contact IN global (1 - 4)
4 pins on Weidmüller 20 pins

T Contact IN cameras (1 - 8)
8 pins on Weidmüller 20 pins

U Audio IN (1 - 8)[15)]
D-SUB, 15-pole, 1 kOhm, 2.828 V_{pp} (optional, for D-SUB / Cinch adapter cable)

V Status LED (Power)
Blue / The device is in operation.

W Status LED (Record)
Green / The device is recording.

X Status LED (Alarm)
Orange / The device is in alarm mode.

Y Status LED (Error)
Red / The device indicates an error.

Dimensions

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

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