

IPS 2400

SMAVIA Appliance for up to 24 IP Channels, 8x 3.5" HDD, 3HU



Server Hardware Redundant PSU¹⁾ Storage System SMAVIA Integrated

The **IPS 2400** is a high performance appliance with a processing capacity for up to **24 IP video channels** and an integrated **storage system**. In conjunction with the dedicated software **SMAVIA Recording Server** it is optimally suited for all applications which require a high recording speed, enhanced storage capacity and low power consumption while providing maximum security.

The **IPS 2400** is characterised by its space-saving design as well as low power consumption and low heat emission. It can be installed in a 19" rack using the included 19" bracket.

Features Hardware

- High performance server hardware with Multi-Core CPU
- Flash memory for operating system
- Suitable for up to 24 SD, HD or megapixel video channels
- High storage capacity due to integrated storage system
- High recording speed due to concerted components
- Easy-change functionality for hard disk drives (hot-swap²⁾)
- Components optimized for SMAVIA Recording Server
- 19" bracket included in delivery

Features SMAVIA Recording Server

- Basic version with **8 channels** expandable up to 24 channels
- One **access license for SMAVIA Viewing Client** included (basic license)
- Resolution SD (up to D1), HD (up to 1080p) and megapixel (up to 8 MP)
- Supports **RTSP cameras³⁾** and ONVIF compliant cameras⁴⁾
- Connection to **Active Directory** via LDAP
- Evaluation with **SMAVIA Viewing Client** or SeMSy[®] via Ethernet (LAN/WAN)
- Supports **PRemote HD in real-time⁵⁾**

Hardware	
003811	IPS 2400 SMAVIA appliance for up to 24 IP channels, incl. SMAVIA Recording Server (preinstalled) with licenses for 8 channels, without HDDs
Hardware Options	
000107	HDD 500 GB, SATA, 3.5"⁶⁾
000077	HDD 1000 GB, SATA, 3.5"⁶⁾
000084	HDD 2000 GB, SATA, 3.5"⁶⁾
000178	Mounting of a HDD Mounting of a HDD, incl. function, long-term-, and final test, acceptance and approval
001710	DPM-150W Power supply module 150W, 115/230V AC ±5%, 50/60Hz

1) PSU 1 and 2 included in scope of delivery (no redundant operation).
PSU 3 for redundant operation optionally (hardware 001710) available.
2) In connection with RAID 5 / 6 (optional, with license 003805 / 003804)
3) Optional, with license 003802

4) Function in preparation
5) Optional, with license 003801
6) Daily prices for hard disks can be found in the Dallmeier Partner Forum

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Integrated SMAVIA Recording Server Licenses

DLC - 8 Recording Channel

License for the use of 8 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)

DCP - Software Maintenance 12 Month

License for the update of the SMAVIA software for 12 month

DLC - SEDOR® Camera Sabotage Protection

Detection and reporting of covering, defocusing and twisting of cameras

Optional SMAVIA Recording Server Licenses

003782 DLC - 1 Additional Client Access

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

003783 DLC - 1 Additional Recording Channel

License for the use of 1 additional channel for recording with SMAVIA Recording Server

003784 DLC - 2 Additional Recording Channel

License for the use of 2 additional channels for recording with SMAVIA Recording Server

003785 DLC - 4 Additional Recording Channel

License for the use of 4 additional channels for recording with SMAVIA Recording Server

003786 DLC - 8 Additional Recording Channel

License for the use of 8 additional channels for recording with SMAVIA Recording Server

003805 DLC - RAID 5⁷⁾

License for recording with RAID 5

003804 DLC - RAID 6⁷⁾

License for recording with RAID 6.

003801 DLC - PRemote HD

License for the transmission of SD and HD video at low bandwidth

003802 DLC - Real-Time Recording for IP Channels

License for the real-time recording for all IP channels (at all resolutions) and support of RTSP cameras

003803 DLC - ViProxy

License for the use of the second Ethernet interface

Maintenance and Warranty

003793 DCP - Software Maintenance 12 Month

License for the update of the SMAVIA software for further 12 month

003794 DCP - 36 Month Warranty

Extension of the warranty period (without HDDs) to 36 month in total

003795 DCP - 48 Month Warranty

Extension of the warranty period (without HDDs) to 48 month in total

003796 DCP - 60 Month Warranty

Extension of the warranty period (without HDDs) to 60 month in total

003797 DCP - 36 Month Warranty and Software Maintenance

Extension of the warranty period (without HDDs) to 36 month in total, incl. license for the update of the SMAVIA software

003798 DCP - 48 Month Warranty and Software Maintenance

Extension of the warranty period (without HDDs) to 48 month in total, incl. license for the update of the SMAVIA software

003799 DCP - 60 Month Warranty and Software Maintenance

Extension of the warranty period (without HDDs) to 60 month in total, incl. license for the update of the SMAVIA software

7) When using the RAID configuration, a connection to an UPS is necessary

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Specifications Hardware

Components

CPU	Multi-Core
RAM	4 GB
Flash module	2 GB (for operating system only)
Hard disks	Max. 8× 3.5" HDD (optional)
Max. storage capacity	Currently up to 16 TB
Fan	3× with automatic speed adaptation
Power supply unit 1	Integrated
Power supply unit 2	Integrated
Power supply unit 3	Optional (hardware 001710, required for redundant operation)

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
External configuration software	NetConfig, PService

Performance in Connection with SMAVIA Recording Server

Channels	Up to 24× IP channels (SD, HD, Megapixel)
Supported cameras	IP cameras by Dallmeier and IP cameras by third-party suppliers via HTTP RTSP cameras by Dallmeier and by third-party suppliers (optional, license 003802)
Video/Audio compression	H.264 / G.722.1
Recording mode	Permanent, motion, contact, timer, variable recording mode (VRM)
Resolutions	SD (up to D1) HD (720p, 1080i, 1080p) Megapixel (up to 8MP)
Frame rate per SD IP channel	6.25/7.5 and 12.5/15 fps (25/30 fps optional, license 003802)
Frame rate per HD IP channel	6.25/7.5 and 12.5/15 fps (25/30 fps optional, license 003802)
Frame rate per RTSP IP channel	Up to 25/30 fps (optional, license 003802, depending on the camera)
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

Integrated Functions

Track modes	Automatic
Privacy Zones	Integrated (directly in Dallmeier IP cameras)
Motion detection	Integrated (for Dallmeier IP cameras)
SmartFinder	Integrated (for Dallmeier IP cameras)
iPhone server	Integrated (PRemote-HD license 003801 required)

Interfaces

VGA connector	1× Mini-D-SUB, only for configuration (resolution 1920 × 1080)
AUX/Line IN	1× 3.5 mm phone jack
Microphone IN	1× 3.5 mm phone jack
Audio OUT	1× 3.5 mm phone jack
USB	9× USB 2.0 (8× rear side, 1× front side)
Ethernet 1	RJ45, 10/100/1000 Mbps
Ethernet 2	RJ45, 10/100/1000 Mbps (optional, license 003803)
Ethernet protocols	IPv4, TCP, UDP, ARP, ICMP, DHCP, NTP, HTTP
Contact IN	4×, with 4 functions each
Relay OUT	4×, as NC or NO
Serial	1× RS232
PS/2	Mouse, keyboard

Electrical Data

Voltage supply	115/230 V AC ±5%, 50/60 Hz
Power consumption	Max. 230 W
Thermal output	Max. 785 BTU/h

Mechanical Data

Dimensions (W × H × D)	Approx. 483 × 133 × 533 mm (19.0 × 5.3 × 21.0 inches)
Weight	Approx. 20 kg (44 lbs) with 8 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, UL⁸⁾, FCC, ACA, LGC Forensics⁸⁾, DIN EN 50130-4

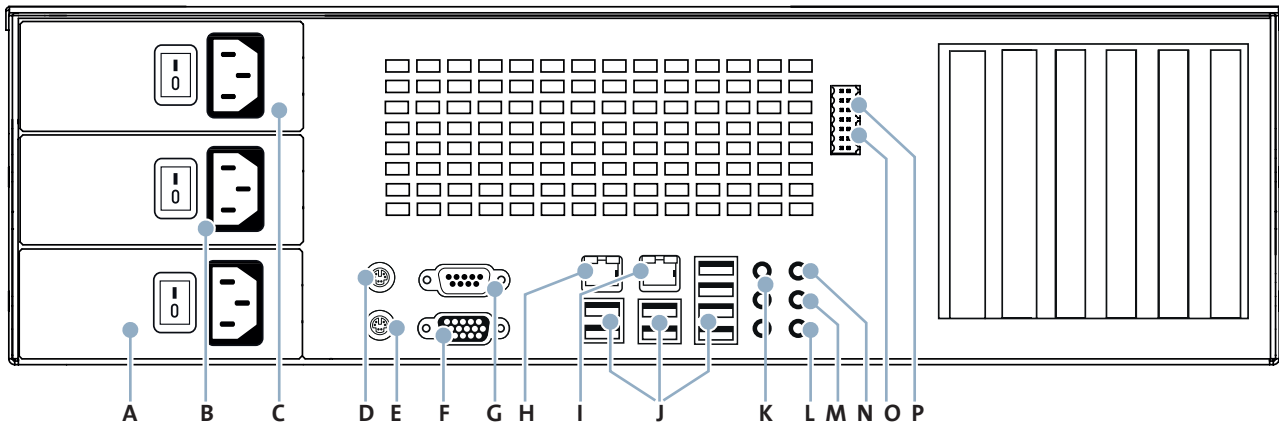
8) Scheduled approval / certification

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Connections

The number of the connections can differ depending on the ordered equipment or device variant. The following description refers to a device with full equipment and optional connectors.



A Power Supply Unit 1
IEC C14 socket, 115/230V AC ±5%, 50/60 Hz

B Power Supply Unit 2
IEC C14 socket, 115/230V AC ±5%, 50/60 Hz

C Power Supply Unit 3
IEC C14 socket, 115/230V AC ±5%, 50/60 Hz (optional)

D Mouse
PS/2, green

E Keyboard
PS/2, violet

F VGA Connector
Mini-D-SUB, 15 pole, 1920 × 1080 (only for configuration, no LocalViewing)

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

H Ethernet Interface 2
RJ45, 10/100/1000 Mbps (optional, license 003803)

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

J USB Interface
8× USB 2.0, type A

K Not active
3× 3.5 mm phone jack

L Microphone IN
3.5 mm phone jack, red, 4.3 kOhm, 2.828 V_{pp}

M Audio OUT
3.5 mm phone jack, green, 1 kOhm, 2.828 V_{pp}

N AUX / Line IN
3.5 mm phone jack, blue, 16 kOhm, 2.828 V_{pp}

O Contact IN (1-4)
6 pins on Weidmüller 14 pins

P Relay OUT (1-4)
8 pins on Weidmüller 14 pins

Dimensions

