

# DMS 2400

SMAVIA Appliance for up to 24 HD Channels, 2x 3.5" HDD, 3HU



Server Hardware    Stand-alone    Up to 24 HD Channels    SMAVIA Integrated

The **DMS 2400** is a high performance appliance with a processing capacity for up to 24 HD video channels. In conjunction with the dedicated software **SMAVIA Recording Server** it is the best and cascable IP security solution e.g. for retail stores, gas stations or company premises.

The **DMS 2400** is a stand-alone device and can be installed in a 19" rack using the optionally available 19" bracket.

### Features Hardware

- High performance server hardware with Multi-Core CPU
- Flash memory for operating system
- Suitable for up to 24 SD or HD video channels
- Upgrade for **hybrid use** with up to 24 analogue channels **optional**
- Supports **one local playback** of one camera (analogue, SD-IP or HD-IP)
- Supports **local live display** of analogue, SD-IP and HD-IP cameras in the multi split
- High recording speed due to concerted components
- Easy-change functionality for hard disk drives

### Features SMAVIA Recording Server

- Basic version with **8 channels** expandable to 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 cameras<sup>1)</sup>** and ONVIF compliant cameras<sup>2)</sup>
- Connection to **Active Directory** via LDAP
- Evaluation with **SMAVIA Viewing Client** or SeMSy<sup>®</sup> via Ethernet (LAN/WAN)
- Supports **PRemote HD in real-time**

Hardware	
003777	<b>DMS 2400</b> SMAVIA appliance for up to 24 HD channels, incl. SMAVIA Recording Server (preinstalled) with licenses for 8 channels, without HDDs
Options Hardware	
000107	<b>HDD 500 GB, SATA, 3.5"³)</b>
000077	<b>HDD 1000 GB, SATA, 3.5"³)</b>
000084	<b>HDD 2000 GB, SATA, 3.5"³)</b>
000178	<b>Mounting of a HDD</b> Mounting of a HDD, incl. function, long-term-, and final test, acceptance and approval
003816	<b>Encoder Board for 8 Analogue Channels</b> Encoder board for 8 analogue video channels in hybrid operation, incl. Audio IN Adapter, without additional channel licenses
003815	<b>Mounting Kit for 24 Analogue Channels</b> Extension kit for 24 analogue channels, 1x BNC Video IN Panel, 1x internal Coax cable set, 2x cable fittings, UTC-24 module (ex factory only)
003814	<b>RS485-Kit Full Duplex</b> Serial interface RS485 for the connection and control of analogue Dallmeier PTZ cameras, incl. DCCP license (ex factory only)
003772	<b>DVD-RW Drive SATA (Teac)</b> Burner DVD-RW, SATA, slimline, tray load
003912	<b>SATA OUT for DMS 2400</b> SATA interface for the connection of a DAS-4 Eco storage expansion (ex factory only)
000231	<b>DAS-4 Eco</b> External storage expansion, up to 4 HDDs, incl. ODU cable, without HDDs

1) Optional, license 003802  
2) Function in preparation

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

# DMS 2400

SMAVIA Appliance for up to 24 HD Channels, 2x 3.5" HDD, 3HU

## 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)

### DLC - 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

### DLC - SNMP

License for the integration into a central SNMP device management system

## 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

### 003800 RAID 1<sup>4)</sup>

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

### 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 real-time recording for all IP channels (regardless of the resolution) and support of RTSP cameras

### 003803 DLC - ViProxy

License for the use of the second Ethernet interface

### 003910 DLC - SATA OUT Interface

License for the use of the SATA interface in connection with a DAS-4 Eco storage expansion

## 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

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

# DMS 2400

SMAVIA Appliance for up to 24 HD Channels, 2× 3.5" HDD, 3HU

## Specifications

### Components

CPU	Multi-Core
RAM	4 GB
Flash module	2 GB (for operating system only)
Hard disks	Max. 2× 3.5" HDD (optional)
Max. storage capacity	Currently up to 4 TB (without RAID) Currently up to 12 TB in connection with a DAS-4 Eco storage expansion (without RAID)
Fan	3× with automatic speed adaptation
Power supply module	Integrated

### 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× HD channels
Supported cameras	IP cameras by Dallmeier and IP cameras by third-party suppliers via HTTP Analogue cameras by Dallmeier and by third-party suppliers (optional, Mounting Kit 003815 and Encoder 003816) 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	Analogue (4CIF, DCIF, 2CIF, CIF, QCIF) SD (up to D1) HD (720p, 1080i, 1080p) Megapixel (up to 8MP)
Frame rate per analog channel	6,25 / 12,5 / 25fps at CIF 6,25 / 12,5fps at 4CIF
Frame rate per SD IP channel	6,25 / 12,5fps (25fps optional, license 003802)
Frame rate per HD IP channel	6,25 / 12,5fps (25fps optional, license 003802)
Frame rate per RTSP IP channel	Up to 25fps (optional, license 003802, depending on the camera)
Max. total bit rate	Up to 120 Mbps
Bit rate per analogue channel	Up to 2 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
UTC control	Integrated (for analogue cameras by Dallmeier)
Privacy Zones	Integrated (for analogue cameras)
Motion detection	Integrated (for analogue cameras and Dallmeier IP cameras)
SmartFinder	Integrated (for analogue cameras and Dallmeier IP cameras)
iPhone server	Integrated (PRemote HD required)

### Interfaces

Video IN analogue	24× CVBS/BNC, with loop-through (optional, Mounting Kit 003815)
Video OUT	1× VGA (resolution 1920 × 1080) 1× DVI-I (resolution 1920 × 1080)
AUX/Line IN	1× 3.5 mm phone jack
Microphone	1× 3.5 mm phone jack
Audio OUT	1× 3.5 mm phone jack
USB	8× USB 2.0 (7× rear side, 1× front side)
Ethernet 1	RJ45, 10/100/1000 Mbps
Ethernet 2	RJ45, 10/100/1000 Mbps (optional)
Ethernet protocols	IPv4, TCP, UDP, ARP, ICMP, DHCP, NTP, HTTP
Contact IN camera	24×, with 4 functions each (for analogue cameras and IP cameras)
Contact IN global	6×, with 4 functions each
Relay OUT	5×, as NC or NO
SATA	1× SATA OUT (optional, for DAS-4 Eco)
12V DC OUT	1× ODU socket
Serial	2× RS232 1× RS485 (optional, RS485 Kit 003815)
PS/2	Mouse, keyboard

### Electrical Data

Voltage supply	115/230 V AC ±10%, 50/60 Hz
Power consumption	Max. 145 W (operation without encoder board for analogue channels) Max. 170 W (operation with 3 encoder boards for 24 analogue channels in total)
Thermal output	Max. 580 BTU/h

### Mechanical Data

Dimensions (W × H × D)	Approx. 425 × 130 × 446 mm (16.6" × 5.1" × 17.5") (with feet) Approx. 425 × 122 × 446 mm (16.6" × 4.8" × 17.5") (without feet)
Weight	Approx. 12 kg (26 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, UL<sup>5)</sup>, FCC, ACA, LGC Forensics<sup>5)</sup>, DGVV Kassen<sup>5)</sup>, DIN EN 50130-4

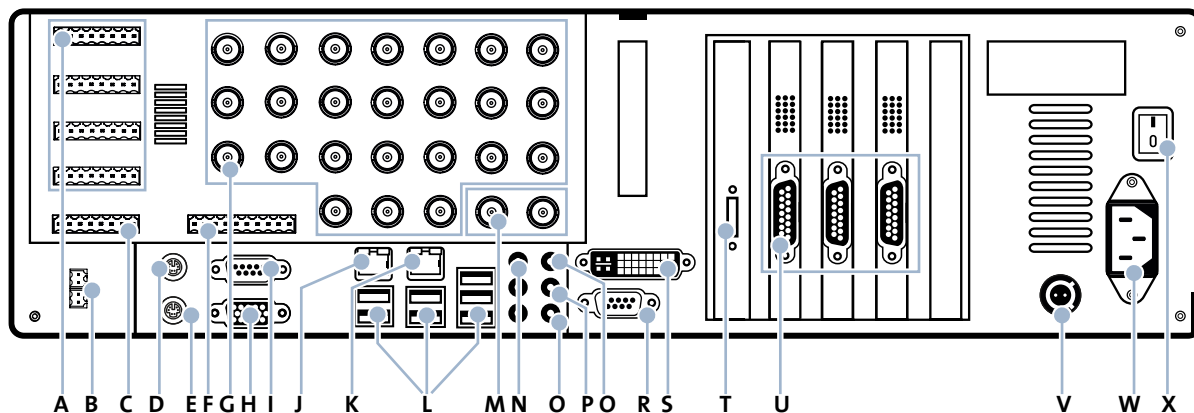
5) Scheduled approval / certification

# DMS 2400

SMAVIA Appliance for up to 24 HD Channels, 2× 3.5" HDD, 3HU

## 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.



- |   |  |
|---|--|
| <p><b>A Contact IN Cameras (1-6/7-12/13-18/19-24)</b><br/>4× Weidmüller, 8 pins</p> <p><b>B Serial Interface COM 3</b><br/>2× Weidmüller 2 pins, 1× RS485 Full Duplex (optional)</p> <p><b>C Contact IN global (1-6)</b><br/>Weidmüller, 8 pins</p> <p><b>D Mouse</b><br/>PS/2, green</p> <p><b>E Keyboard</b><br/>PS/2, violet</p> <p><b>F Relais OUT (1-5)</b><br/>Weidmüller, 10 pins</p> <p><b>G Video IN (1-16)</b><br/>BNC, 75 Ohm, 1V<sub>pp</sub>, with loop-through, CVBS</p> <p><b>H Video OUT</b><br/>Mini-D-SUB, 15 pole, 1920 × 1080</p> <p><b>I Serial Interface COM 1</b><br/>D-SUB, 9 pins, 1× RS232</p> <p><b>J Ethernet Interface 2</b><br/>RJ45, 10/100/1000 Mbps</p> <p><b>K Ethernet Interface 1</b><br/>RJ45, 10/100/1000 Mbps</p> <p><b>L USB Interface</b><br/>7× USB 2.0, type A</p> | <p><b>M BNC</b><br/>2×, not active</p> <p><b>N 3,5 mm Phone Jack</b><br/>3×, not active</p> <p><b>O Microphone IN</b><br/>3,5 mm phone jack, red, 4,3 kOhm, 2,828 V<sub>pp</sub></p> <p><b>P Audio OUT</b><br/>3,5 mm phone jack, green, 1 kOhm, 2,828 V<sub>pp</sub></p> <p><b>Q AUX / Line IN</b><br/>3,5 mm phone jack, blue, 16 kOhm, 2,828 V<sub>pp</sub></p> <p><b>R Serial Interface COM 2</b><br/>D-SUB, 9 pins, 1× RS232</p> <p><b>S Video OUT DVI</b><br/>Dual Link (24 + 5), DVI-I, 1920 × 1080 (not suitable for VGA adapter)</p> <p><b>T SATA interface</b><br/>SATA OUT (optional, for DAS-4 Eco)</p> <p><b>U Audio IN for analogue cameras (1-8/9-16)</b><br/>D-SUB, 15 pole, 1 kOhm, 2,828 V<sub>pp</sub> (for D-SUB/Cinch adapter cable)</p> <p><b>V 12V DC OUT</b><br/>ODU socket, 2-pole, 12V DC (for DAS-4 Eco)</p> <p><b>W Mains Connection</b><br/>IEC C14 socket, 115/230V AC ±10%, 50/60 Hz</p> <p><b>X Mains Switch</b></p> |
|---|--|

## Dimensions

