DMX 800

Hybrid VideoIP Appliance, 24 Channels, 1080p, 10× 2.5" HDD, 2 HU, max. 80 W

smatrix
SMALL·SMART·GREEN

ONVIF

DIN
DIN EN 50130-4

The **DMX 800** Smatrix is a hybrid VideoIP appliance with integrated storage system. Using a licence code the basic version with 8 free configurable video channels (analogue/ SD-IP/ HD-IP) can be expanded by up to 8 further free configurable video channels. Up to 8 IP based video channels (SD-IP/ HD-IP) can be activated additionally.

The **DMX 800** is characterised by its space-saving design as well as by its low power consumption and low thermal output. It is ideally suited for applications requiring high-speed recording, expanded storage capacity and low power consumption while ensuring maximum security. It can be installed and operated in a 19" rack using the included 19" bracket.

Hybrid Appliance	Up to 24 Channels	Low Power Consumption	Storage System	RAID System (optional)

- Up to 24 video channels (16 channels analogue/ SD-IP/ HD-IP and 8 channels SD-IP/ HD-IP)
- Simultaneous real-time[1] recording, real-time streaming, remote access, live display, playback[2]
- Video compression H.264, MPEG-4, MJPEG
- Audio compression MPEG-1 Layer 2
- **Real-Time Recording 25 fps (optional)**
- Resolution SD (up to D1), HD (up to 1080p), megapixel (up to 8MP)
- Supports RTSP cameras

- Suitable for LDAP user management
- Configuration and recording of ONVIF compliant cameras[3]
- Integrated motion detection for analogue and Dallmeier IP cameras
- Easy-change functionality for hard disk drives (hot-swap)
- **RAID functionality[4] with level 5 (optional)**
- Linux operating system (proprietary and hardened) on flash memory
- 19" bracket included in delivery
- Prepared for redundant power supply unit (optional, ex factory only)
- Low power consumption max. 80W

Variants		
003216.401	**DMX 800** Without HDDs, 8 freely configurable video channels (analogue/ SD-IP HD-IP)	
003216.402	**DMX 800** Without HDDs, 16 freely configurable video channels (analogue/ SD-IP/ HD-IP)	

Options		
003390	**HDD 500 GB, SATA, 2.5" (Toshiba)**	
003388	**DPS Redundant Power Supply Set** Mounting set for redundant power supply unit (DPS Mounting Kit + DPM-150W Power Supply Unit) - ex factory only	
002818	**DPM-150W** Power supply module 150 W, 115/230 V AC +/- 5%, 50/60 Hz (DMX)	

Licenses		
000126	**DLC - 2 Freely Configurable Channels (DMX)** License for 2 additional freely configurable channels (analogue/ SD-IP/ HD-IP)	
000560	**DLC - 2 Additional IP Based Channels (DMS, DMX)** License for 2 additional IP based channels for a device with 16 freely configurable channels	
000561	**DLC - 4 Additional IP Based Channels (DMS, DMX)** License for 4 additional IP based channels for a device with 16 freely configurable channels	
000562	**DLC - 8 Additional IP Based Channels (DMS, DMX)** License for 8 additional IP based channels for a device with 16 freely configurable channels	
000162	**DLC - Day/Night Remote Switching** Day/Night switching of analogue Dallmeier cameras via Contact IN/Coax	
003223	**DLC - Real-Time Recording (DMX 800)** Real-time recording for all analogue and IP channels, regardless of the resolution	
000267	**DLC - Audio Recording For All Analogue Channels** License for the use of audio recording for all analogue channels	
000168	**DLC - 1 Analysis Channel SmartFinder Advance** License for the use the analysis function "Static Objects" for one channel	
000273	**DLC - DualStreaming[3]** License for video recording and video streaming with different quality	
002778	**DLC - Multicast streaming (DMX)** License for the use of multicast streaming via SeMSy® III	
000022	**DLC - RAID 5[4]** License for recording with RAID 5	
002780	**DLC - PRemote HD (DMS, DMX, DLS, DVS)** License for the transmission of SD and HD video at low bandwidth	
003225	**DLC - Software Maintenance 12 Month[3]** Enables the implementation of recorder software updates for 12 months	
003174	**DLC - ViProxy (DMS, DVS, DMX)** License for the use of the second Ethernet interface	

1) In connection with licence DLC - Real-Time Recording only
2) Live display, playback, and remote access with SeMSy® or PView7 via Ethernet
3) Function in preparation

4) Using the RAID configuration a connection to an UPS is necessary
5) Daily prices of hard disks can be found in the Dallmeier Partner Forum.

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Specifications

Max. video channels	24× channels (16× analogue/ SD-IP/ HD-IP and 8× SD-IP/ HD-IP)
Supported cameras	Analogue and IP cameras of Dallmeier and of third-party supplier incl. megapixel and HD cameras
Video/audio compression	H.264, MPEG-4, MJPEG / MPEG-1 Layer 2
Operating mode	Recording, streaming, live display, playback, remote access via PView7 Light and PView7
Recording resolution	SD, HD (720p, 1080i, 1080p), up to 8 MP
Recording mode	Permanent, motion, contact, timer, variable recording mode (VRM)
Frame rate per analogue channel	Up to 12.5 fps at 4CIF / DCIF / 2CIF / CIF / QCIF
Frame rate per IP based channel	6.25 / 12.5
Max. total bit rate	Up to 64 Mbps
Bit rate per analogue channel	Up to 2 Mbps
Bit rate per IP based channel (SD)	Up to 4 Mbps
Bit rate per IP based channel (HD)	Up to 6 Mbps

Integrated Functions

Track modes	Automatic, manual
SNMP	Integrated
UTC control	Integrated
Privacy Zones	Integrated (for analogue cameras)
Motion detection	Integrated (for analogue cameras and Dallmeier IP cameras)
SEDOR® camera sabotage protection	Integrated
SmartFinder	Integrated
DCCP – Protocol	Integrated
Audio for IP based channels	Integrated
iPhone server	Integrated (PRemote required)

Software

Operating system	Linux (proprietary, hardened)
Application	Dallmeier recorder software
Language application	English, German, French, Spanish, Italian (others on request)
External management software	PView7, SeMSy® III
External configuration software	NetConfig2

Hardware

Flash module	1 GB (for operating system only)
Hard disks	Max. 10× 2.5" HDD (optional)
Max. storage capacity	Currently up to 5 TB (without RAID)
	Currently up to 4 TB (with RAID 5)
Fan	3× with automatic speed adaptation
Power supply unit 1	Integrated
Power supply unit 2	Optional (ex factory only)

Interfaces

Video IN	16× CVBS / BNC, 75 Ohm, with loop-through
Video OUT	1× VGA (for configuration only)
Audio IN (cameras)	16× Cinch (via D-SUB/Cinch adapter)
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	3× USB 2.0
Ethernet	1× RJ45, 10/100/1000 Mbps
Ethernet protocols	IPv4, TCP, UDP, ARP, ICMP, DHCP, NTP, HTTP
Contact IN camera	16×, each 4 functions
Contact IN global	6×, each 4 functions
Relay OUT	5×, as NO or NC
Serial	4× RS232
	1× RS485
PS/2	–

Electrical Data

Voltage supply	110/230 V AC +/- 10%, 50/60Hz
Power consumption	Max. 80 W
Thermal output	Max. 273 BTU/h

Mechanical Data

Dimensions (W x H x D)	Approx. 483 × 88 × 436 mm (19.0 × 3.45 × 17.15 inches)
Weight	Approx. 12 kg (26.45 lb) with 10 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

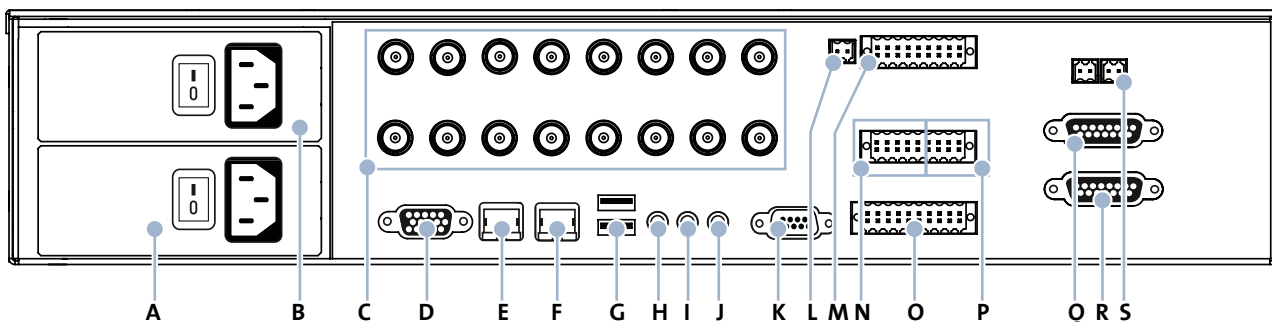|	
Approvals and Certifications	CE, FCC, ACA, DIN EN 50130-4, LGC Forensics

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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, 110 / 230 V AC +/− 10 %, 50 / 60 Hz

B **Power Supply Unit 2**

IEC C14 socket, 110 / 230 V AC +/− 10 %, 50 / 60 Hz

C **Video IN** (1-16)

BNC, 75 Ohm, 1 Vpp, with loop-through, CVBS

D **Video OUT VGA**

Mini-D-SUB, 15 pole, VGA, 1024 x 768 (only configuration, no video)

E **Ethernet Interface 1**

RJ45, 10/100/1000 mbps

F **Ethernet Interface 2**

RJ45, 10/100/1000 mbps

G **USB Interface**

2x USB 2.0, type A

H **AUX / Line IN**

3.5 mm phone jack, 16 kOhm, 2.828 Vpp (for intercom)

I **Audio OUT**

3.5 mm phone jack, 1 kOhm, 2.828 Vpp

J **Microphone IN**

3.5 mm phone jack, red, 4.3 kOhm, 2.828 Vpp (for intercom)

K **Serial Interface COM 2**

D-SUB, 9 pins, RS232

L **Not Active**

Weidmüller, 2 pins

M **Contact IN Cameras** (1-16)

Weidmüller, 18 pins

N **Relay OUT** (1-5)

11 pins on Weidmüller 18 pins

O **Serial Interface COM 3 - COM 6**

Weidmüller 20 pins, RS232

P **Contakt IN global** (1-6)

7 pins on Weidmüller 18 pins

Q **Audio IN** (1-8)

D-SUB, 15 pole, 1 kOhm, 2.828 Vpp (for D-SUB/Cinch adapter cable)

R **Audio IN** (9-16)

D-SUB, 15 pole, 1 kOhm, 2.828 Vpp (for D-SUB/Cinch adapter cable)
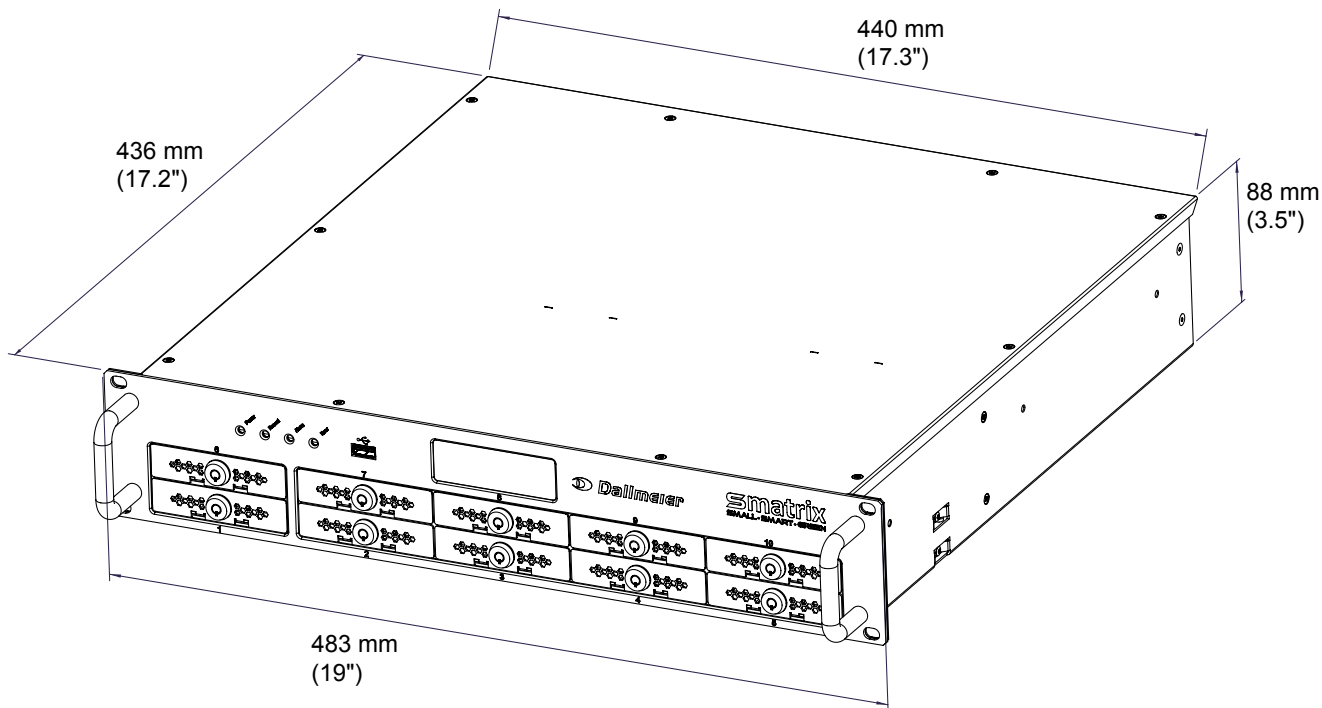
S **Serial Interface COM 1**

2 × 2 pins, RS485, +/- = left/right (for Dallmeier PTZ dome cameras only)

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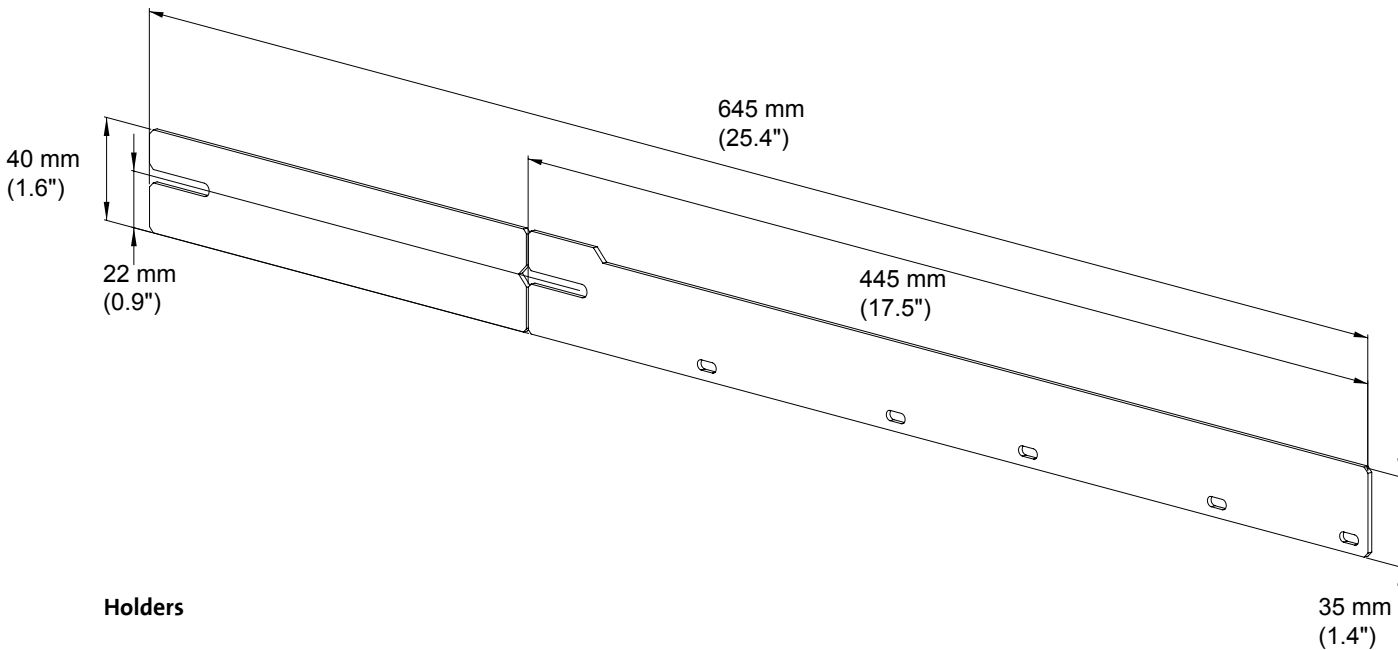
Dimensions

Housing

440 mm
(17.3")

436 mm
(17.2")

88 mm
(3.5")

483 mm
(19")

19" Bracket

Rails

645 mm
(25.4")

40 mm
(1.6")

22 mm
(0.9")

445 mm
(17.5")

35 mm
(1.4")

Holders

18 mm
(0.7")

43 mm
(1.7")

32 mm
(1.2")

50 mm
(2.0")