

DMX 1600 Smatrix



The DMX 1600 Smatrix is a hybrid VideoIP appliance with integrated storage system. Using a release code the basic version with 8 variable configurable video channels can be expanded by up to 8 further variable configurable video channels. Up to 8 IP based video channels can be activated additionally.

The DMX 1600 Smatrix 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.

Hybrid Appliance Up to 24 Channels Low Power Consumption Integrated Storage System RAID System

- Up to 24 variable configurable channels (analogue, SD-IP, HD-IP)
- Simultaneous real-time recording and streaming, live display, playback, and remote access ¹⁾
- Hybrid recording H.264, MPEG-4, MJPEG
- Audio compression MPEG-1 Layer 2
- Bit rate up to 2 Mbps with analogue cameras and up to 6 Mbps with IP cameras
- Resolution SD (up to D1), HD (up to 1080p) and megapixel up to 8MP
- Frame rate per channel up to 25 fps with analogue cameras, up to 25 fps with IP cameras
- Evaluation with SeMSy® or PView 7 via Ethernet
- Integrated Privacy Zones for analogue cameras
- Integrated motion detection for analogue and Dallmeier IP cameras
- Integrated live browser access and UTC compatibility
- Integrated storage system with up to 10x HDDs (2.5")
- RAID functionality with level 5 / 6 ²⁾
- Easy-change functionality in case of HDD failure (hot-swap)
- Linux operating system on flash memory
- Low power consumption max. 80W
- DIN EN 50130-4 compliant

¹⁾ Live display, playback, and remote access with SeMSy® or PView 7 via Ethernet.
²⁾ Using the RAID configuration a connection to an UPS is necessary.

Variants	
Item number	
202.016.0000.0008	DMX 1600 Smatrix without HDDs 8x free allocatable video channels
202.016.0000.0016	DMX 1600 Smatrix without HDDs 16x free allocatable video channels

Activations	
Item number	
022.002.2FS	Activation of additional 2 free allocatable video channels (DMX)
200.116FS	Audio for all channels
200.120FS	Dual Stream
200.122FS	PRemote advance

Technical Specifications

Max. video channels	24x variably configurable channels (16x analogue, SD-IP and HD-IP) (8x SD-IP and HD-IP)
Supported cameras	Analogue and IP cameras of Dallmeier and of third-party supplier incl. megapixel and high-definition cameras
Video/audio compression	H.264, MPEG-4, MJPEG / MPEG-1 Layer 2
Operating mode	Recording, streaming, live display, playback, remote access
Split display (analogue cameras)	1, 4, 9, 16 (only via PView7)
Split display via PView (IP cameras)	1, 4, 9, 16 (only via PView7)
Recording resolution	SD, HD (720p, 1080i, 1080p), up to 8MP
Recording mode	Permanent, motion, contact, timer, variable recording mode (VRM)
Display resolution	D1, 4CIF, Half D1, 2CIF, CIF, QCIF
Frame rate per analogue channel	Up to 25 fps at 4CIF Up to 25 fps at DCIF Up to 25 fps at 2CIF Up to 25 fps at CIF Up to 25 fps at QCIF
Frame rate per IP based channel	6.25 / 12.5 / 25 fps
Max. 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 / optional functions

Management software	PView 7 Light
Configuration software	NetConfig2
SNMP	Integrated
UTC control	Integrated
Privacy Zones	Integrated
Motion detection	Integrated
SEDOR® camera sabotage protection	Integrated
Dual Stream	Optional activation ³⁾
PRemote	Optional activation ³⁾
SmartFinder	Integrated
SmartFinder advance	Optional activation
Audio for all channels	Optional activation
DCCP - Protocol	Integrated
Track modes	Automatic, manual
RAID 5	Integrated
RAID 6	Integrated ³⁾
D/N-RC (Day/Night Remote Control)	Optional activation
Activation additional video channels	Up to 8x variably configurable channels and 8x IP channels

Interfaces

Camera inputs	16x CVBS / BNC, with loop-through
Video outputs	1x VGA (only for configuration)
Aux-Line IN/Mic IN/Audio OUT	1x 3.5 mm phone jack / 1x 3.5 mm phone jack / 1x 3.5 mm phone jack
Audio inputs	16x
Ethernet	1x RJ45, 10/100/1000 Mbps
Ethernet protocols	IPv4, TCP, UDP, ARP, ICMP, DHCP, NTP, HTTP, HTTPS
Contact IN camera	16x, each 4 functions
Contact IN global	6x, each 4 functions
Relay OUT	5x, configurable as NO or NC
Serial / parallel / USB / PS/2	1x RS232 D-SUB, 4x RS232, 1x RS485 / - / 3x USB 2.0 / -

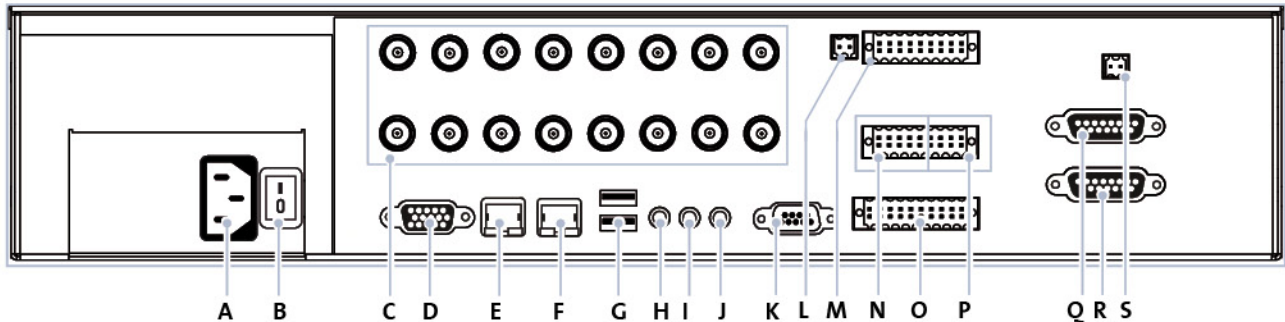
Further specifications

Exchangeable hard disks	Up to 10x 2.5" HDDs
Max. storage capacity	Currently up to 5 TB (without RAID)
Voltage supply	110/230 V AC +/-10%, 50/60Hz
Power consumption	Max. 80 W
Thermal power	Max. 273 BTU/h
Dimensions (W x H x D)	Approx. 483 x 88 (2HU) x 436 mm
Operating temperature	5° - 40° C, 20° - 25° C recommended
Humidity	5 - 70% RH non-condensing
Atmospheric load	Dust-free
Weight	Approx. 12 kg
Fan	3x with automatic speed adaptation
Operating system	Linux
Languages	German, English, French, Spanish (others on request)
Approvals/certifications	CE

³⁾ Function is projected

* Trademarks which are designated by ® are registered trademarks of Dallmeier electronic.

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 Mains Connection

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

B Mains Switch

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

RJ45, 10/100/1000 Mbps

F Not Active

RJ45

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 Contact 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)

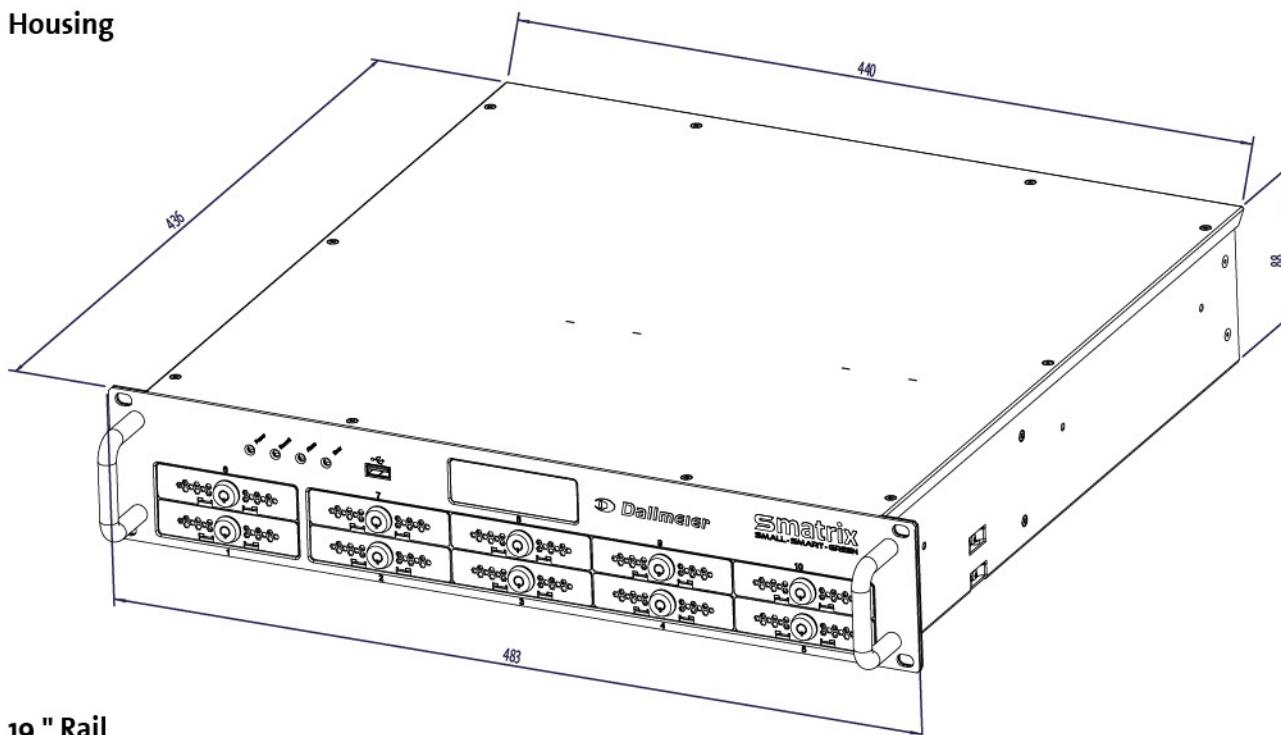
R Audio IN (9-16)

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

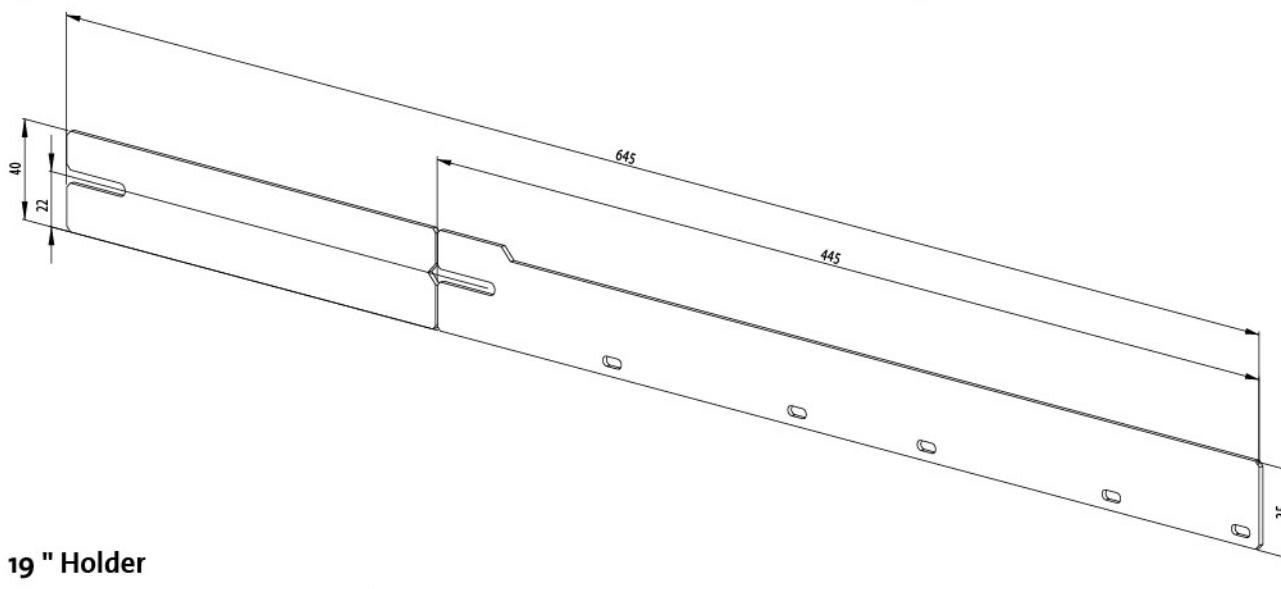
S Serial Interface COM 1

Weidmüller, 2 pins, RS485 (only for Dallmeier PTZ Dome cameras)

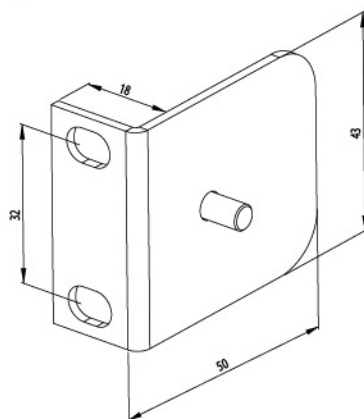
Housing



19 " Rail



19 " Holder



Measures in millimetre (mm).