

DS-B31-12H24H/UHK 12-Channel HDMI Input+24-Channel HDMI Output



Designed with reference to the Advanced Telecommunications Computing Architecture (ATCA), the Multi-Functional Video Center (hereinafter referred to as the device) supports matrix switching of analog and digital videos, video encoding and decoding, and network real-time preview. It integrates image processing, network functions, log management and device maintenance, simplifies the installation, maintenance and the whole system, and has good compatibility and expandability. Auto decryption of HDCP encrypted sources is available, Thus, the device can be widely used in various video system and command control system.

- Adopts the 3 U standard rackmount chassis and ATCA chassis system for small to medium-sized surveillance.
- Adopts the plug-in modular design to provide flexible choice of model according to needs.
- Supports auto temperature adjustment of the intelligent fan to ensure system stability and reliability.
- Supports HDMI signal input and output.
- Supports the default H.265 encoding and H.264 encoding.
- Supports H.265, H.264, MJPEG and other mainstream encoding formats.
- Supports 12 channels of HD video encoding.
- Supports 192 channels of HD video decoding.
- Supports the maximum LED loading capacity of 2.6 MP per port.
- Supports 32 MP HD video decoding.
- Supports any splicing of 24 screens according to needs.
- Supports the division of 1, 4, 6, 8, 9, 16, and 25 per output port window.
- Supports opening a maximum of 384 windows on the video walls, opening a maximum of four 1080p layers or two 4K layers on a single screen, and floating windows.
- Supports live view of video wall.
- Supports up to 128 scenes. You can customize the video wall layout and save it as a scene.
- Supports up to 8 subtitles for the video wall controller and up to 3 subtitles for one video wall.
- Supports the access and operation via the mobile client (Android or iOS), PC client, and web client.
- Support using the ONVIF protocol to access devices for decoding.



Specification

Chassis Height Bus Type Gigabit network switching Main Control Board Slot Installed Main Control Boards 1 Power Supply Slot Installed Power Supplies 5 Envice Boards 1 Device Decoding Capability 192 channels of 1080p 30 fps Device Decoding Capability 192 channels of 1080p 60 fps Device Encoding Capability 24 channels Fan 14 (2 fan boards, 7 fans per fan board) Interface USB Interface USB Interface USB Interface 2 × USB 2.0 Serial Interface 2 × USB 2.0 Serial Interface 1 × Console port (RI-45) + 1 × reserved port for debugging + 2 × RS-485/RS-232 multiplex ports (RJ-45) Network Interface 2 × 10/100/1000 Mbps self-adaptive Ethernet interface (RJ-45) Power Power Power Video Wall Video Wall Video Wall Video Wall Video Wall Scale 2 × 240 W Video Wall Scale 3 × 244 Qpen Windows 3 × 44 Window Division per Screen 1 × 10/46/8/9/16/25 Input Source Copy Capability Layers Per Screen 4 × 1080p or 2 × 4K Layers per Screen 1 × 128 Signal Source Live View Supported Scene Auto-Switch Delay Preview Channels 2 × 8 single background image resolution: 1280 × 720 to 7680 × 4320, background image format: 1GP/IPEG. Subtitles 3 subtitles on the video walls; ≤ 3 subtitles on a single video wall Input Imput Image Clipping Delay of Displaying Local Signal	Chassis		
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Background Image image format: JGP/JPEG. Subtitles ≤ 8 subtitles on the video walls; ≤ 3 subtitles on a single video wall Input Image Clipping Supported, 200 pixels on the left, right, top and bottom edges. Delay of Displaying Local Signal	Preview Resolution	CIF(352 × 288)/QCIF(176 × 144)/HCIF(704 × 288)/DCIF(528 × 384)/FCIF(704 × 576)	
Input Image Clipping Supported, 200 pixels on the left, right, top and bottom edges. Delay of Displaying Local Signal	Background Image		
Delay of Displaying Local Signal	Subtitles	≤ 8 subtitles on the video walls; ≤ 3 subtitles on a single video wall	
Delay of Displaying Local Signal	Input Image Clipping	Supported, 200 pixels on the left, right, top and bottom edges.	
120	Delay of Displaying Local Signal	420	
Source on Video Wall	Source on Video Wall	12U ms	
General	General		
Working Temperature 0 °C to 50 °C	Working Temperature	0 °C to 50 °C	
Working Humidity 10% to 90%	Working Humidity	10% to 90%	
Net Weight ≤ 8.5 kg (18.74 lb.)	Net Weight	≤ 8.5 kg (18.74 lb.)	

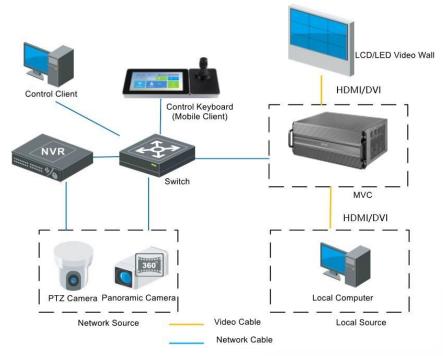


Gross Weight	≤ 16.7 kg (36.82 lb.)
Dimensions (W \times H \times D)	442.4 mm × 128 mm × 341.6 mm (17.42 inch × 5.04 inch × 13.45 inch)
Packing List	$1 \times$ serial port cable, $1 \times$ AC power cord, $1 \times$ grounding cable, $1 \times$ M4 screw, $1 \times$ HDMI bracket, several HDMI snap fittings, $1 \times$ regulatory compliance and safety information manual
Audio Input	
Audio Input Interfaces	12
Audio Input Interface Type	HDMI embedded
Video Input	
Video Input Resolution	1024 × 768@60 Hz, 1280 × 1024@60 Hz, 1366 × 768@60 Hz, 1440 × 900@60 Hz, 1680 × 1050@60 Hz, 1280 × 960@60 Hz, 1600 × 1200@60 Hz, 1280 × 720p@60 Hz, 1920 × 1080p@50 Hz, 1920 × 1080p@60 Hz, 1920 × 1200@60 Hz, 3840 × 2160@30 Hz (only odd-numbered ports) Supports custom resolution. Width: 800 to 1920, pixel alignment: must be a multiple of 4 Height: 600 to 1200, pixel alignment: must be a multiple of 2 60 fps (Decimal frame rates supported) Resolution: 0.48 MP to 2.3 MP
Video Input Interface Type	HDMI 1.4
Max. Video Input Resolution	4K
Video Input Interfaces	12
Video Encoding	
Video Encoding Channels	12
Video Encoding Capability	Sub-stream and main stream encoding; Sub-stream encoding contains: CIF(352 \times 288)/FCIF(704 \times 576), Main stream encoding contains: 720p(1280 \times 720)/XVGA(1280 \times 960)/ UXGA(1600 \times 1200)/1080p(1920 \times 1080)/XGA(1024 \times 768)/ WXGA(1360 \times 768)/SXGA(1280 \times 1024)/SXGA(1400 \times 1050)/ WSXGA(1440 \times 900)/WSXGA+(1680 \times 1050)/1920 \times 1200/3840 \times 2160
Video Output	
Video Output Interface Type	HDMI 1.4
Video Output Interfaces	24
Max. Video Output Resolution	4K
Video Output Resolution	XGA_60 Hz(1024 × 768@60 Hz)/SXGA_60 Hz(1280 × 1024@60 Hz)/ 720P_60 Hz(1280 × 720@60 Hz)/UXGA_60 Hz(1600 × 1200@60 Hz)/ WSXGA_60 Hz(1680 × 1050@60 Hz)/WUXGA_60 Hz(1920 × 1200@60 Hz)/ 1080P_60 Hz(1920 × 1080@60 Hz)/4K_30 Hz(3840 × 2160@30 Hz)
Loading Capacity for Video Output to LED	Loading per port: 2600000 Width: 288 to 3840; pixel alignment: must be a multiple of 2 Height: 288 to 2160; pixel alignment: must be a multiple of 2
High Dynamic Range	Yes, Version (10)
Hybrid Log-Gamma	Yes
Video Decoding	
Video Decoding Format	H.264, H.265, Smart264, Smart265, MJPEG
Video Decoding Channels	384



Video Decoding Capability	H.264/H.265/Smart264/Smart265 format: 12 channels of 32 MP/24 MP, 24 channels of 16 MP, 30 channels of 12 MP, 48 channels of 8 MP, 60 channels of 6 MP, 96 channels of 4 MP, 192 channels of 1080p, or 384 channels of 720p/D1 or lower resolution (One group of 4 outputs shares decoding capability) MJPEG format: 24 channels of 2 MP	
Audio Output		
Audio Output Interfaces	24	
Audio Output Interface Type	HDMI embedded	
Encoding and Decoding		
Audio Decoding Format	G711-A, G711-U, G722.1, G726-16/U/A, MPG, AAC-LC	
Encoding and Decoding		
Video Encoding Format	H.265(default) , H.264	

Typical Application

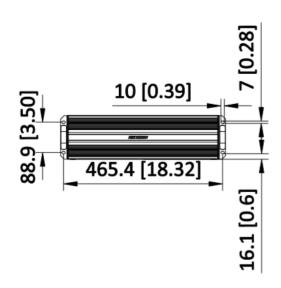


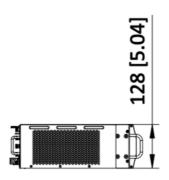
Available Model

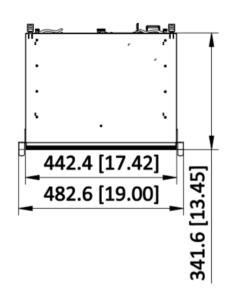
DS-B31-12H24H/UHK

Dimension









Unit: mm [inch]

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