

DS-B31-16H32H**16-Channel HDMI Input+32-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. 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 16 channels of HD video encoding.
- Supports 256 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 32 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 512 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.

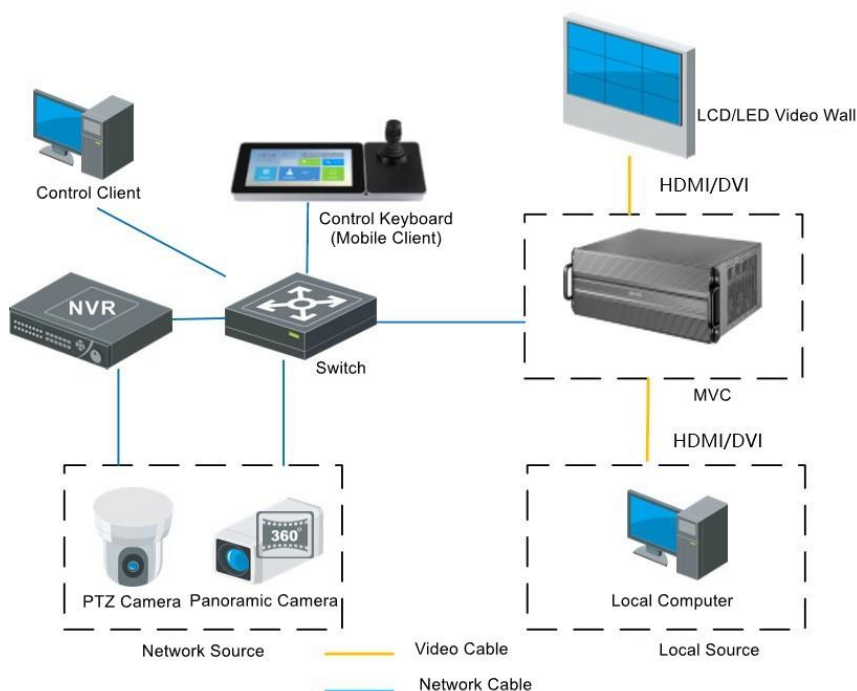
▪ Specification

Chassis	
Chassis Height	3 U
Bus Type	Gigabit network switching
Main Control Board Slot	1
Installed Main Control Boards	1
Power Supply Slot	2
Installed Power Supplies	1
Service Board Slot	6
Installed Service Boards	6
Device Decoding Capability	256 channels of 1080p 30 fps
Device Encoding Capability	16 channels of 1080p 60 fps
Device Splicing Capability	32 channels
Fan	14 (2 fan boards, 7 fans per fan board)
Interface	
USB Interface	2 × USB 2.0
Serial Interface	1 × Console port (RJ-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 Interface	100 to 240 VAC, 50/60 Hz
Device Consumption	≤ 300 W
Video Wall	
Video Walls	8
Video Wall Scale	≤ 32
Open Windows	512
Window Division per Screen	1/4/6/8/9/16/25
Input Source Copy Capability	Supported
Layers Per Screen	4 × 1080p or 2 × 4K
Layers per Device	128
Scenes	128
Signal Source Live View	Supported
Scene Auto-Switch Delay	3 s
Preview Channels	2
Preview Resolution	CIF(352 × 288)/QCIF(176 × 144)/HCIF(704 × 288)/DCIF(528 × 384)/FCIF(704 × 576)
Background Image	≤ 8, single background image resolution: 1280 × 720 to 7680 × 4320, background 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 Source on Video Wall	120 ms
General	
Working Temperature	0 °C to 50 °C
Working Humidity	10% to 90%
Net Weight	≤ 9.4 kg (20.72 lb.)

Gross Weight	≤ 18 kg (39.68 lb.)
Dimensions (W × H × D)	442.4 mm × 128 mm × 341.6 mm (17.42 inch × 5.04 inch × 13.45 inch)
Packing List	1 × serial port cable, 1 × AC power cord, 1 × grounding cable, 1 × M4 screw, 1 × HDMI bracket, several HDMI snap fittings, 1 × regulatory compliance and safety information manual
Audio Input	
Audio Input Interfaces	16
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@50 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 Resolution: 0.48 MP to 2.3 MP
Video Input Interface Type	HDMI 1.4
Max. Video Input Resolution	4K (Only odd-numbered ports)
Video Input Interfaces	16
Video Encoding	
Video Encoding Channels	16
Video Encoding Capability	Sub-stream and main stream encoding; Sub-stream encoding contains: CIF(352 × 288)/FCIF(704 × 576), Main stream encoding contains: 720p(1280 × 720)/XVGA(1280 × 960)/ UXGA(1600 × 1200)/1080p(1920 × 1080)/XGA(1024 × 768)/ WXGA(1360 × 768)/SXGA(1280 × 1024)/SXGA(1400 × 1050)/ WSXGA(1440 × 900)/WSXGA+(1680 × 1050)/1920 × 1200/3840 × 2160
Video Output	
Video Output Interface Type	HDMI 1.4
Video Output Interfaces	32
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
Video Decoding	
Video Decoding Format	H.264, H.265, Smart264, Smart265, MJPEG
Video Decoding Channels	512
Video Decoding Capability	H.264/H.265/Smart264/Smart265 format: 16 channels of 32 MP/24 MP, 32 channels of 16 MP, 48 channels of 12 MP, 64 channels of 8 MP, 80 channels of 6 MP, 128 channels of 4 MP, 256 channels of 1080p, or 512 channels of 720p/D1 or lower resolution (One group of 4 outputs shares decoding capability) MJPEG format: 32 channels of 2 MP

Audio Output	
Audio Output Interfaces	32
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

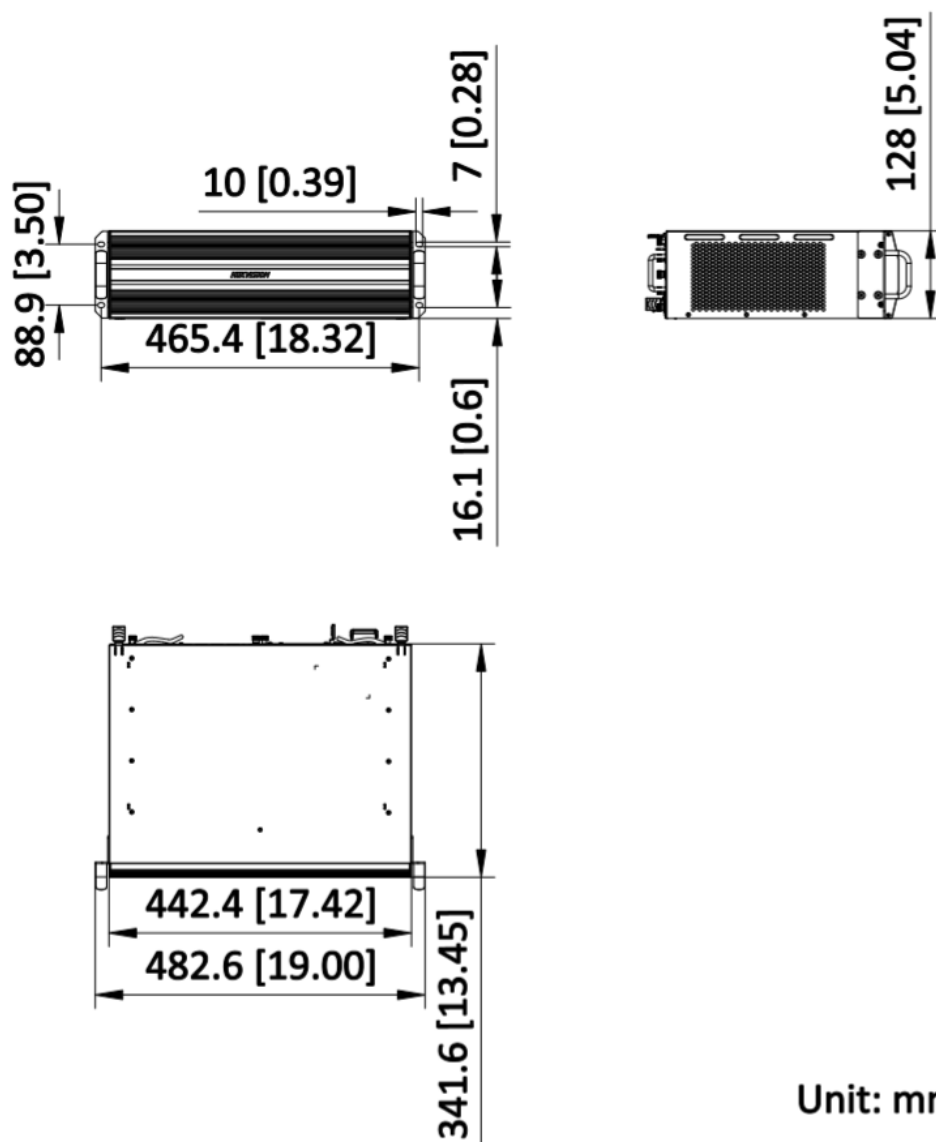
▪ Typical Application



▪ Available Model

DS-B31-16H32H

▪ Dimension



Unit: mm [inch]

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