DS-6920UDI-U(D)

Decoder Server (4-Channel HDMI Input + 20-Channel HDMI Output)



The decoder server is designed specifically for high-definition network cameras, making it suitable for various video security system projects. It offers exceptional video processing capabilities and a seamless video decoding experience.

- Adopts 2U standard chassis with ATCA architecture for small to medium-scale surveillance.
- Supports auto temperature adjustment of the intelligent fan to ensure system stability and reliability.
- Supports HDMI signal input and output, and 2K/4K input/out boards.
- Supports H.264 and H.265 video encoding (H.265 by default), with maximum capacity of 4 encoding channels.
- Supports H.265, H.264, MJPEG and other mainstream encoding formats.
- Supports up to 360 decoding channels system-wise; supports simultaneous decoding of 180 channels at 1080p@30 Hz or 360 channels at 720p@30 Hz.
- Supports the maximum LED loading capacity of 2.6 MP per port.
- Supports the division of 1, 4, 6, 8, 9, 16, 25, and 36 per output port window, with customizable layout by numbers of rows and columns.
- Supports 32 MP video decoding of panoramic, fisheye, and standard network cameras, DVRs , NVRs, and XVRs; compatible with mainstream third-party security devices.
- Supports live view of video wall.
- Supports the access and operation via the PC client, and web client (requires Chrome 45 or above).
- Supports up to 128 scenes with customizable video wall layouts.
- Supports up to 9 subtitles in total (max. 4 per video wall).
- Compatible with devices accessed via ONVIF protocol.

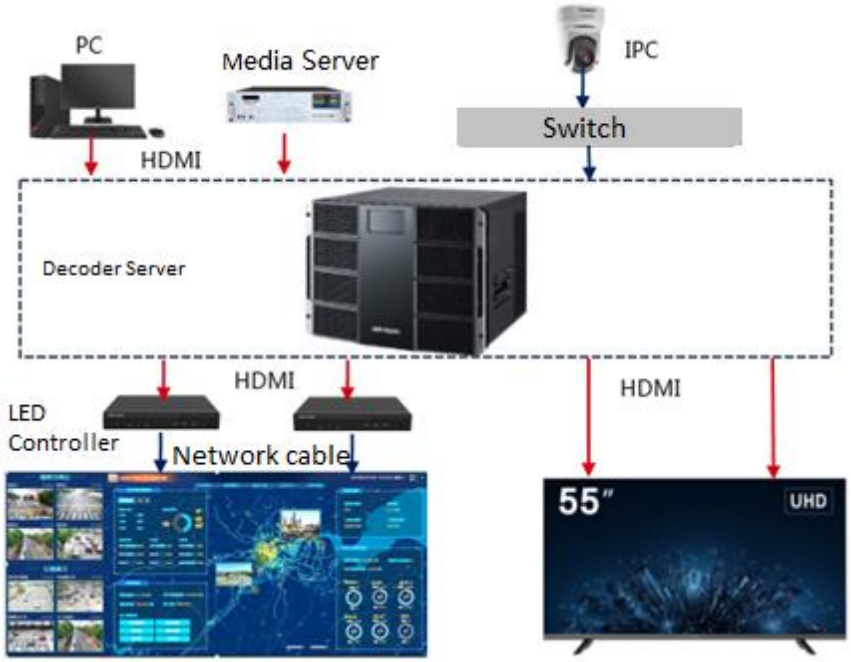
▪ Specification

Chassis	
Chassis Height	2 U
Bus Type	Network switching
Main Control Board Slot	2
Installed Main Control Boards	1
Power Supply Slot	1
Installed Power Supplies	1
Service Board Slot	Input slots: 1, output slots: 5, mixed slots: 0, empty slots: 0
Installed Service Boards	6
Fans	1
Interface	
Optical Interface	1 × 10 Gigabit optical port (SFP+)
Electrical Interface	2 × 1000 Mbps Ethernet port (RJ-45)
USB Interface	1 × USB 2.0
Power	
Power Interface	1, 100 VAC to 240 VAC, 50/60 Hz
Device Power Consumption	200 W
Video Wall	
Video Walls	8
Video Wall Scale	≤16
Open Windows	360
Window Division	1, 4, 6, 8, 9, 16, 25, 36
Input Source Copy Capability	Supported
Layers	36 × 720p, 18 × 1080p
Layers per Device	360
Scenes	128
Scene Auto-Switch Delay	3 s
Video Wall Live View	Supported(4 channels)
Live View Resolution	CIF (352 × 288), QCIF (176 × 144), HCIF (704 × 288), DCIF (528 × 384), FCIF (704 × 576)
Background Image	Supported (quantity: 4, max. resolution: 8129 × 4320, min. resolution: 1280 × 720, format: JPG/JPEG)
Subtitles	Quantity per video wall: 4
Input Image Clipping	Supported (200 pixels on the left, right, top and bottom edges.)
Local Signal Source Decoding Delay	90 ms
General	
Working Humidity	10% RH to 90% RH, no condensation
Net Weight	8.27 kg (18.23 lb)
Gross Weight	11.22 kg (24.74 lb)
Dimensions (W × H × D)	442 mm × 88.1 mm × 385 mm (17.40 inch × 3.47 inch × 15.16 inch)
Packing List	1 × device, 1 × AC power cord, 1 × grounding cable, 1 × set of pads, 1 × regulatory compliance and safety information manual
Audio Input	
Audio Input Interface	HDMI embedded audio

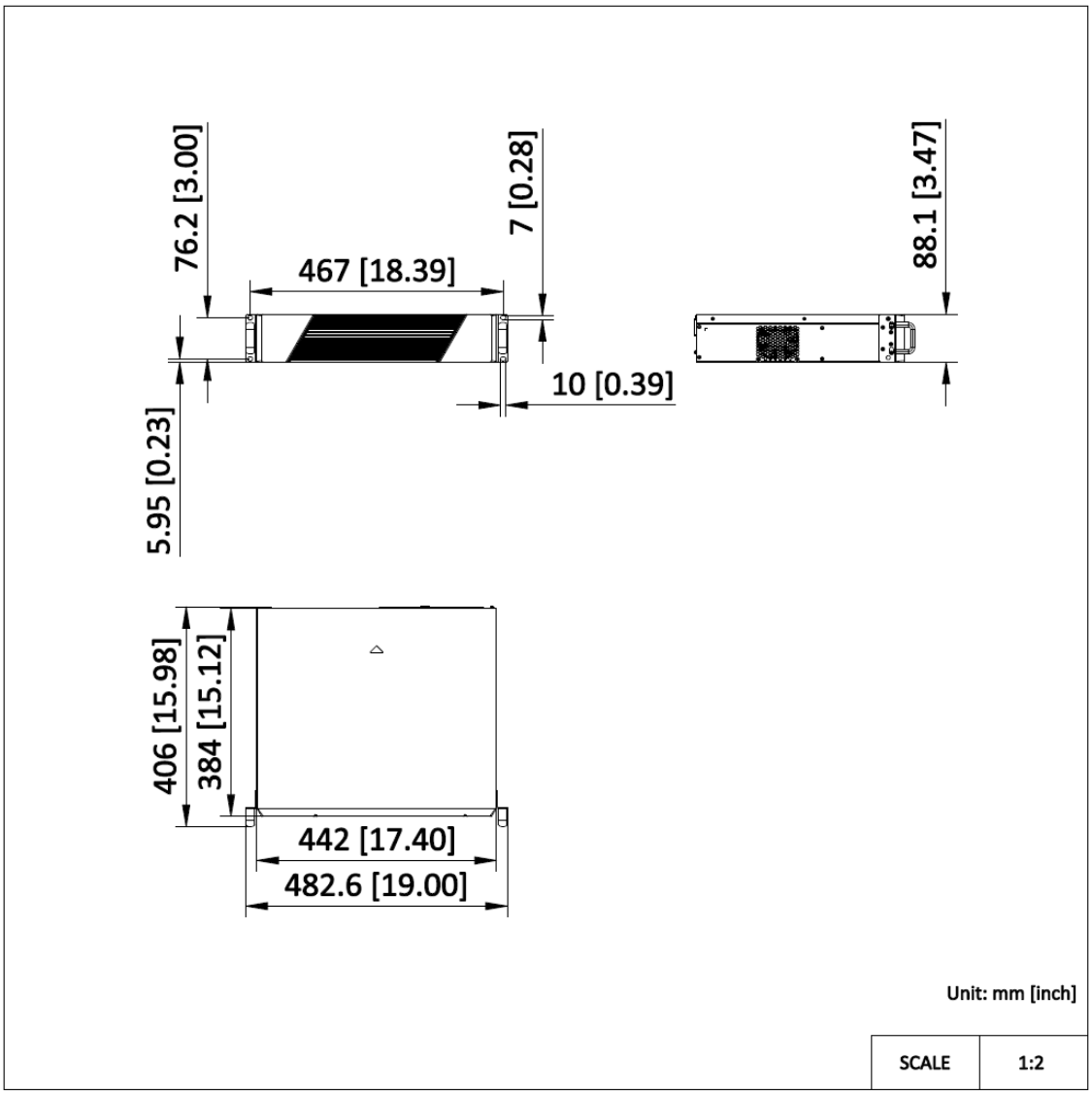
Video Input	
Video Input Interface Type	HDMI1.4
Video Input Interfaces	4
Max. Video Input Resolution	4K(Odd-numbered ports only)
Video Input Resolution	1024×768@60 Hz, 1280×1024@60 Hz, 1360×768@60 Hz, 1440×900@60 Hz, 1680×1050@60 Hz, 1280×960@60 Hz, 1600×1200@60 Hz, 1280×720@50 Hz, 1280×720@60 Hz, 1920×1080@50 Hz, 1920×1080@60 Hz, 1920×1200@60 Hz, 3840×2160@30 Hz (odd-numbered ports only). Supports custom input resolution (odd-numbered ports only): Even-numbered ports: Width: 800 to 4096 (a multiple of 4); height: 600 to 2160 (a multiple of 4); refresh rate: 30 Hz/60 Hz (weidth × height ≤ 1920×1200); Odd-numbered ports: Width: 800 to 4096 (a multiple of 4); height: 600 to 2160 (a multiple of 4); refresh rate: 30 Hz/60 Hz (weigth × height ≤ 1920×1200), 30 Hz (1920×1200 < width × height ≤ 4096×2160).
Video Encoding	
Video Encoding Format	H.265 (default), H.264
Video Encoding Channels	4
Video Encoding Capability	4 channels of 1080p
Audio Encoding	
Audio Encoding Format	G722.1, G711_U, G711_A, AAC
Video Output	
Video Output Interface Type	HDMI1.4
Video Output Interfaces	20
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	Single port load 2600000, Width 144 - 3840, Height 144 - 2160, Width must be a multiple of 2 and height must be a multiple of 2.
Video Decoding	
Video Decoding Format	H.264, H.265, Smart264, Smart265, HIK264, MPEG2, MPEG4
Video Decoding Channels	360
Video Decoding Capability	H.264/H.265/Smart264/Smart265: 10 channels of 32 MP/24 MP, 20 channels of 16 MP/12 MP, 40 channels of 8 MP, 60 channels of 6 MP/5 MP, 90 channels of 4 MP, 180 channels of 1080p, or 360 channels of 720p/D1 or lower resolution @ 30 fps HIK264: 20 channels of 720p @ 30 fps MPEG4: 40 channels of 720p @ 30 fps (does not support resolutions above 720p) MPEG2: 20 channels of 720p @ 30 fps (does not support resolutions above 720p)
Audio Output	
Audio Output Interface	20 × HDMI embedded audio
Audio Decoding	
Audio Decoding Format	G711-A, G711-U, G722.1, G726-16/U/A, AAC-LC
Device Parameters	
Device Splicing Capability	20 channels

Device Decoding Capability	180 channels of 1080p 30 fps

▪ Typical Application



▪ Dimension


76.2 [3.00]
467 [18.39]
7 [0.28]
88.1 [3.47]
10 [0.39]
5.95 [0.23]
406 [15.98]
384 [15.12]
442 [17.40]
482.6 [19.00]
Unit: mm [inch]
SCALE
1:2

See Far, Go Further

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