DS-C60S-S6
6-Slot Chassis

The video wall controller is mainly used for screen splicing control system, and is the core control device of the system. As a new-generation FPGA-based pure hardware image processing device, it adopts the structure of main control board and service boards. It supports the video input and video output via various ports. It supports the network encoding and real-time preview of signal sources. It supports the decoding and output of various network signal sources. It supports the high-definition (HD) video splicing and fusion. It supports the window splicing, roaming window, and other operations. It supports the management on users, network, operation, alarm and logs.

Hardware Structure

- Adopts 2 U standard rack design and supports the mixed installation of input boards and output boards in some slots of the chassis.
- Adopts a 3.33-inch non-touch screen panel to allow you to view the device status information at any time.
- Adopts 1 fan, left air duct, and right air duct for ventilation.
- Adopts the plug-in modular design and hot swappable service boards to allow the flexible device extension and easy device maintenance.
- Supports 2 channels of 3.5 mm audio input and 4 channels of 3.5 mm audio output.

Video Input

- Supports video input signal sources such as computers, video conference terminals, and ultra high definition servers. Supports DVI, HDMI, 4K HDMI, and 4K DP signal input, and custom resolution input.
- Supports composite audio input and independent audio input. The audio input supports 16 bit and 32 KHz or 48 KHz sampling, and dual channel.
- Adopts RGB 888 image collection and output without image quality loss.
- Supports ultra-high resolution fusion and up to eight 4K ultra-HD signal access.
- Supports OSD on the input.
- Supports input image clipping to cut the black edge of the input image.

Video Output

- Supports DVI, HDMI, and 4K HDMI video signal output and the video signal output via network ports.
- The 2K board supports 4 channels of 1080p@60 Hz output, and the 4K board supports 2 channels of 4K output. Supports LCD output, LED output, and custom output resolution.
- Supports independent audio ouput via the main control board and composite audio output via HDMI boards.
- Adopts frame synchronization technology to ensure that the images of all output ports are completely synchronized, with complete picture and smooth playback, and without lag, frame loss, tearing, or splicing.
- Supports both mini loading and standard loading modes via an LED controller board. The standard loading mode requires compatible screen support.

Video Decoding

- Supports using the installed decoding board to decode the signal sources of network cameras and NVRs.

Video Wall Function

- Supports any large screen splicing of 16 screens when the device is fully installed with input and output boards.
- Supports window opening and floating windows. A single port supports window opening of any layer.
- Supports 1/4/6/8/9/16 window division.
- Supports using the installed preview board in the chassis to display the image of a video wall on the connected screen(s) or to preview the image of a video wall on a client.
- Supports 3 background images. The resolution of each background image is 1080p.
- Supports 3 video walls. Each video wall allows one background image.
- Supports up to 128 scenes. You can customize the video wall layout and save it as a scene.
- Supports the auto-switching of up to 64 signal source groups. Supports auto-switching on a single window, on some windows, and on all windows. You can save all auto-switch resources in the scenes and customize the location, scene, and time in each plan.
- Supports double-clicking the sub-window to enlarge its window size and double-clicking the sub-window again to restore its original window size.

Device Access and Control

- Supports using the network keyboard or serial port keyboard to control the device, and to realize sub-window changing, group operation and scene changing.
- Supports using the software to control LCD screens, including screen switch, screen signal source changing, and the adjustment on brightness, contrast, color, sharpness, picture horizontal position, and picture vertical position.
- Supports using the ONVIF protocol to access the network source devices for decoding.

Maintenance and Management

- Supports the access and operation via the control client and web client. The web browser should be Chrome 45 and higher version.
- Supports the access and operation via the mobile client (Android or iOS).
- Supports obtaining and configuring parameters remotely, importing parameters remotely, and exporting parameters remotely.
- Supports obtaining system running status and system logs remotely.
- Supports restarting the device remotely, restoring the default settings, and upgrading the device.
- Supports auto detection and alarm for failures and the device exception alarm function when the boards are online, including network disconnection, IP conflict, invalid access, temperature threshold exceeding, and fan exception.
- Supports user permission management. Different users are assigned with different permissions to use the specified resources and operate the specified video wall modules.
- Supports manual time sync or NTP time sync.

▪ Specification

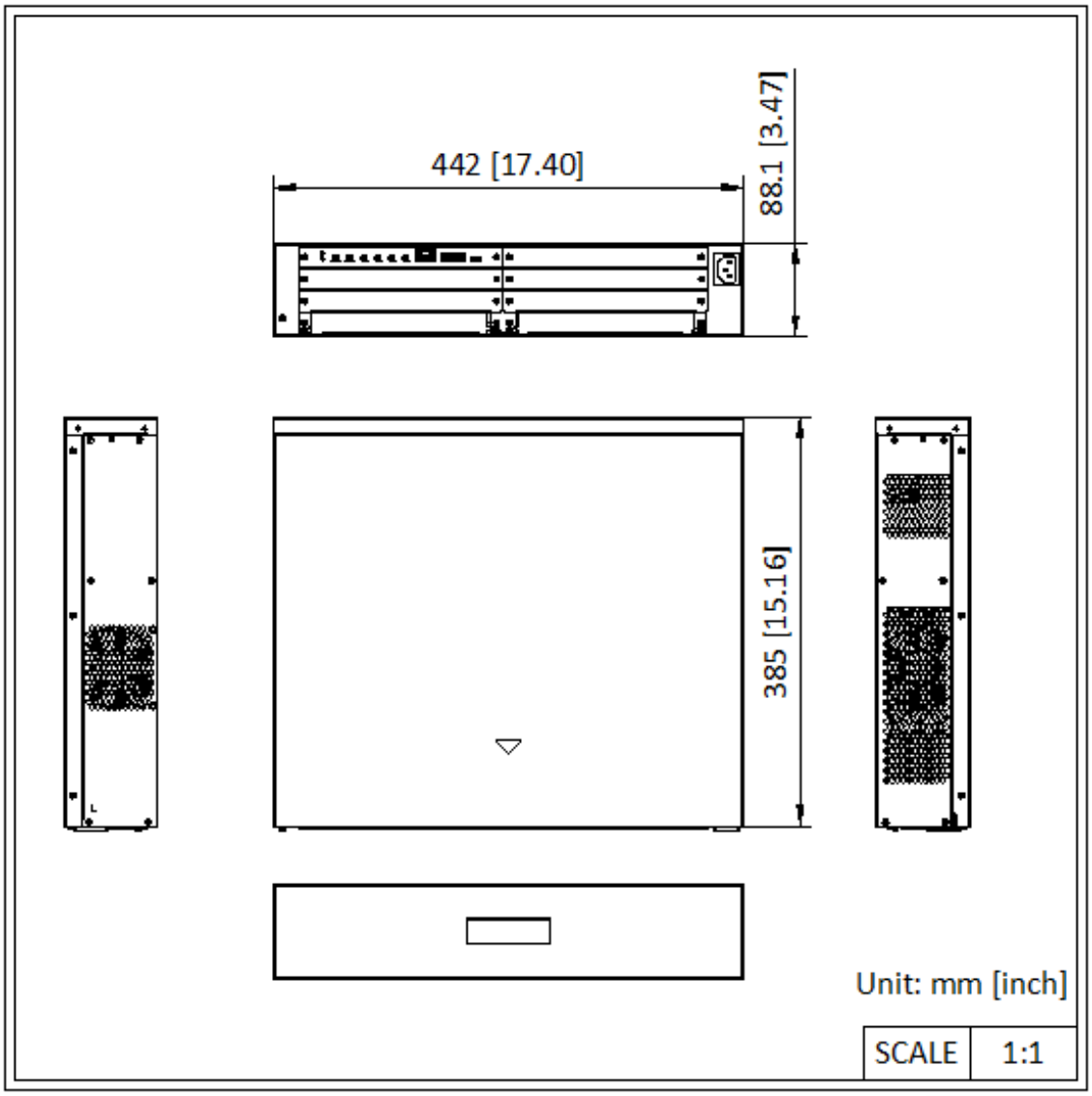
Chassis	
Chassis Height	2U
Bus Type	High speed bus
Signal Sampling Quality	RGB 888
Mixed Installation of Service Boards	Total 6 slots (2 input slots for input boards + 2 output slots for output boards + 2 mixed slots for input and output boards)
Main Control Board Slot	1
Service Board Slot	6
Installed Main Control Boards	1
Max. Input Slot	4
Max. Output Slot	4
Installed Power Supplies	1
Fans	1
Dual Device Hot Backup	Supported
Interface	
Serial Interface	1 × debug serial port + 1 × RS-485 port (Phoenix contact, baud rate: 115200; valid data bit: 8 bits) + 1 × RS-232 port (Phoenix contact, baud rate: 115200; valid data bit: 8 bits)
Screen Type	3.33 inch LCD screen, resolution: 192 × 64
Power	
Power Interface	100 VAC to 240 VAC, 50/60 Hz
Device Power Consumption	≤ 150 W (full configuration)
Network	
Control Network Port	1 × 10/100/1000 Mbps auto-sensing Ethernet port (RJ-45)
Transmission Protocol	Hikvision SDK, ISAPI
Video Wall	
Video Walls	3
Video Wall Scale	16
Window Division per Output Port	1/4/6/8/9/16
Input Source Copy Capability	(1) 60Hz: The 4K input board supports displaying 2 channels on the video wall, and the 2K input board supports displaying 6 channels on the video wall. (2) 30Hz: The 4K input board supports displaying 3 channels on the wall, and the 2K input board supports displaying 12 channels on the video wall.
Layers	LED controller board: 16 layers per board (2K/4K) Output board: 16 layers per port (2K/4K)
Layers per Device	48 (Full configuration of output boards)
Scenes	128
Scene Auto-Switch Delay	400 ms
Plans	128
UHD Fusions	Up to 4 channels
Background Images	Total: 3; single wall: 1, resolution: 1080 p
Subtitles	Total: 9, single wall: 3
Input OSD	Supported
Input Image Clipping	Supported, clipping value range at the top, bottom, left and right: 0 to 200 pixels

Local Signal Source Decoding Delay	50 ms
General	
Working Humidity	10% to 90%
Working Temperature	0 ℃ to 50 ℃
Dimensions (W × H × D)	442 mm × 88.1 mm × 385 mm (17.4 inch × 3.47 inch × 15.16inch)
Net Weight	≤ 7.6 kg (16.76 lb.) Full configuration, chassis net weight: 5.21 kg (11.49 lb.), net weight for each board: 0.46 kg (1.01 lb.)
Gross Weight	≤ 11.4 kg (25.13 lb.) Full configuration, chassis net weight: 7.94 kg (17.50 lb.), net weight for each board: 0.67 kg (1.48 lb.)
Packing List	1 × mounting bracket, 1 × grounding cable, 1 × Phoenix terminal, 1 × AC power cord, 1 ×regulatory compliance and safety information manual
Audio Input	
Audio Input Interface	2 × 3.5 mm audio
Audio Output	
Audio Output Interface	4 × 3.5 mm audio
Device Parameters	
Device Splicing Capability	16 channels

▪ Available Model

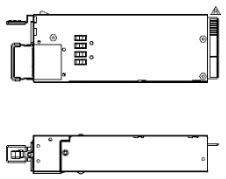
DS-C60S-S6

▪ Dimension



▪ Accessory

▪ Included

DS-C31S-PWR


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