DS-C60S-S6

6-Slot Chassis

As a new-generation FPGA-based pure hardware image processing device, the DS-C60S video wall controller (hereinafter referred as the device) supports the input, processing, and output of multi-channel HD and ultra-HD signals. The device adopts the structure of main control board, input boards, and output boards to achieve multi-screen management. The device is mainly used for large screen splicing control system, and is the core control device of the system.

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 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.

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 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.
- 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 composite audio output.
- 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.

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 3 background images and 1 background image on a single video wall. The resolution is 1080p.
- Supports 3 video walls.
- Supports up to 9 subtitles for the whole device and up to 3 subtitles on a single video wall. Supports setting background color/transparency, font type/color/size/direction, and scrolling speed, and adding clock subtitles.
- Supports up to 128 preset scenes. The users can customize the video wall layout of each scene.
- Supports up to 128 plan auto-switch groups. Supports auto-switch 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 screen, including screen switch, screen signal source changing, and the adjustment on brightness, contrast, color, sharpness, picture horizontal position, and picture vertical position.

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.
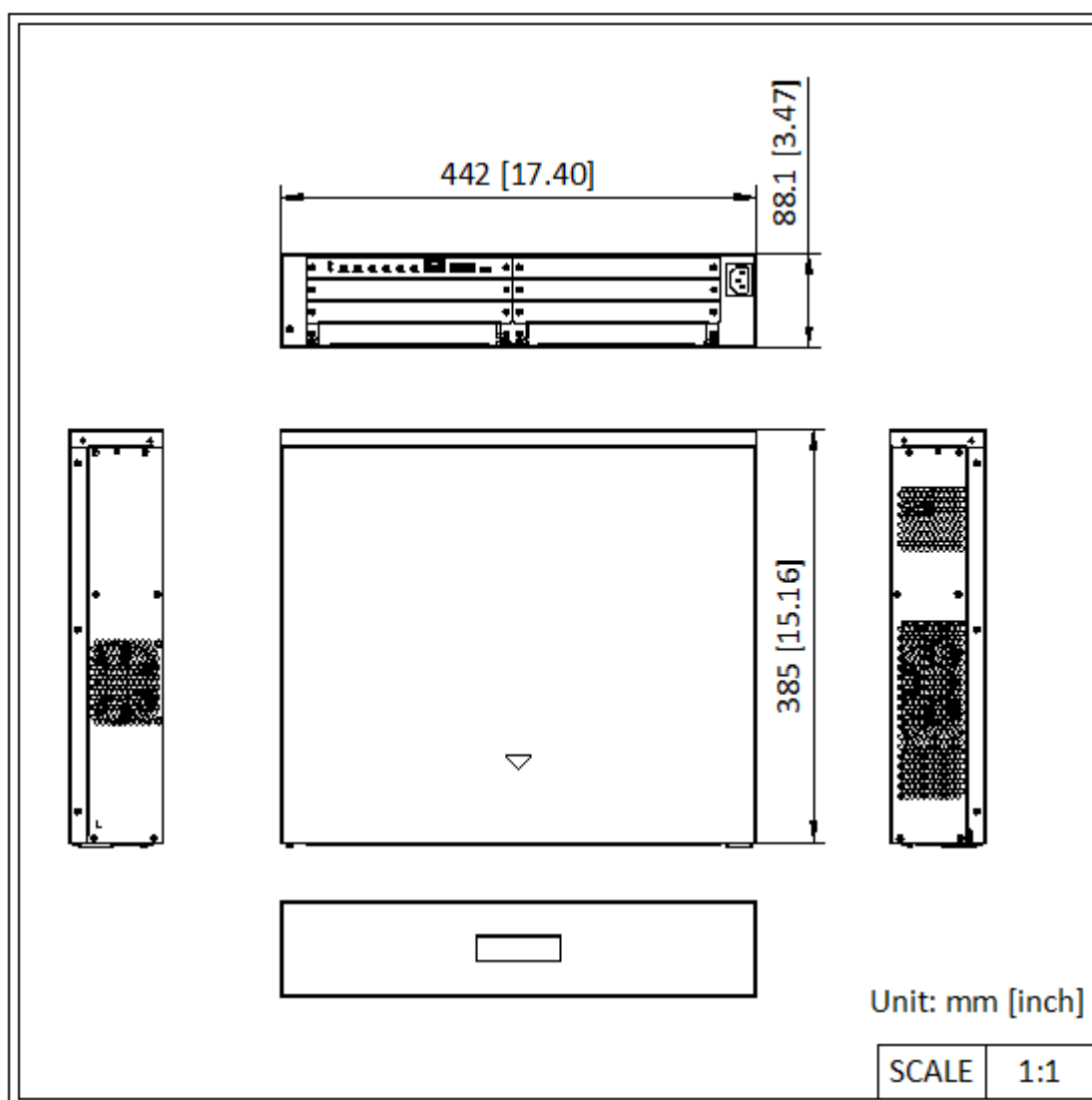- Supports manual time sync or NTP time sync.

▪ Specification

Model		DS-C60S-S6
Chassis	Chassis Height	2 U
	Bus Type	High speed bus
	Signal Sampling Quality	YUV 444
	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
	Device Splicing Capability	16 channels
	Installed Power Supplies	1
	Fan	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
Network	Transmission Protocol	Hikvision SDK, ISAPI
Video Wall	Video Walls	3
	Video Wall Scale	16
	Open Windows	Supports 8 windows of a single port
	Window Division per Screen	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 Per Screen	8 layers (4K/2K)
	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 °C to 50 °C
	Dimensions (W × H × D)	Chassis: 442 mm × 88.1 mm × 385 mm (17.40 inch × 3.47 inch × 15.16 inch) Board: 192 mm × 20.1 mm × 223.5 mm (7.56 inch × 0.79 inch × 8.80 inch)
	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
	Power Consumption	≤ 150 W (full configuration)

▪ Available Model
DS-C60S-S6

▪ Dimension

442 [17.40]

88.1 [3.47]

385 [15.16]

Unit: mm [inch]

SCALE	1:1

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