DS-C66S-S12
12-Slot Chassis

Hardware Structure

- The device adopts a 4U standard rack-mounted design with a 12-slot chassis supporting 6 input and 6 output slots.
- The 4U chassis features 1 fan with left-right airflow cooling.
- The chassis supports button operations, including 2 custom scene switch buttons and 2 scene switch buttons.
- The device features a plug-and-play modular design for flexible expansion and hot-swappable service boards for easy maintenance.
- The 4U chassis features a 7-inch touch IPS LCD panel, supporting real-time monitoring of chassis and sub-board status.
- The chassis supports 2 × 3.5mm audio input and 2 × 3.5mm audio output.

Video Input

- The device supports video input from computers, video conferencing terminals, and ultra-high-resolution servers, is compatible with DVI, HDMI, HDMI 4K, DP 4K, and SDI signal inputs, and allows custom resolution input.
- The device supports both composite and standalone audio input, with 16-bit, 32K/48K sampling, and dual-channel capabilities.
- Both image capture and output support RGB888 for lossless image quality, with support for up to RGB101010.
- The device supports ultra-high-resolution fusion, accommodating up to sixteen 4K ultra-high-definition signal inputs.
- The device supports input OSD overlay and input image cropping to remove black borders.

Video Output

- The device supports DVI, HDMI, and HDMI 4K video signal output and the video signal output via network ports.
- 2K sub-board supports 4 × 1080P60 outputs and 4K sub-board supports 2 × 4K outputs. Output is compatible with LCD and LED displays, with customizable output resolution.
- The main control board supports standalone audio and HDMI sub-boards support composite audio.
- The device utilizes frame synchronization technology to ensure all output ports display completely synchronized, intact, and smooth images without stuttering, frame loss, tearing, or seams.
- The LED controller board supports mini loading (0.65MP per network port) and standard loading modes (2.925MP per network port). Standard load mode requires compatible screen support.

Video Wall Function

- The device supports video wall preview and joint source preview with an optional preview board.
- The 12-slot chassis supports arbitrary large-screen splicing for up to 24 displays when fully configured with all boards.

- The device supports windowing, roaming functions, and arbitrary layer windowing on a single interface.
- The device supports 3 background images, with 1 per wall at 1920 × 1080 resolution.
- The device supports multiple video walls, with support for up to 8 video walls.
- The device supports up to 128 preset scenes, allowing users to customize the video wall layout for each scene.
- The device supports 24 signal source group auto-switching (including single-window, partial-window, and full-window modes), allows saving all auto-switching resources in scenes, and enables custom settings for location, scene, and time per plan.
- The device supports double-click to zoom in/out on split-screen sub-windows.

Operation and Maintenance

- The device supports exporting logs to a USB drive via the front panel USB port.
- The device supports access and operation via PC client and Web interface, compatible with browsers such as Chrome 45 and above.
- The device supports access and operation via Android and iOS clients.
- The device supports remote parameter retrieval, configuration, and the remote export and import of parameters.
- The device supports remote monitoring of system operation status and logs, as well as remote restart, restore to default settings, upgrades, and other daily maintenance operations.
- The device supports automatic fault detection and alerts, including abnormal device alarms for sub-board online status such as network disconnection, IP conflict, unauthorized access, temperature exceedance, and abnormal fan status.
- The device supports user permission management, allowing users with different permissions to access specified resources and operate designated video wall modules.
- The device supports manual time synchronization or NTP time synchronization.

Video Decoding

- Decoding boards support decoding of network sources such as network cameras and NVRs.

Device Access

- The device supports access to network source devices for decoding via ONVIF standard protocol.
- The device supports device control via network keyboards, serial port keyboards, or tablets, enabling functions like video split-screen switching and scene switching.

Advanced Features

- The device supports LCD control via software, including screen on/off, signal source switching, and adjustments for brightness, contrast, color, sharpness, and horizontal/vertical image positioning.
- The device supports HDR10, HLG, and HDCP access.
- The device supports 8-bit/10-bit and adapts to input sources with frame rates ranging from 24Hz to 120Hz, featuring adaptive frame rate support.
- The device supports reverse control of ultra-high-resolution server keyboard and mouse via the USB port on the main control board.
- The device supports Genlock synchronization port.

▪ Specification

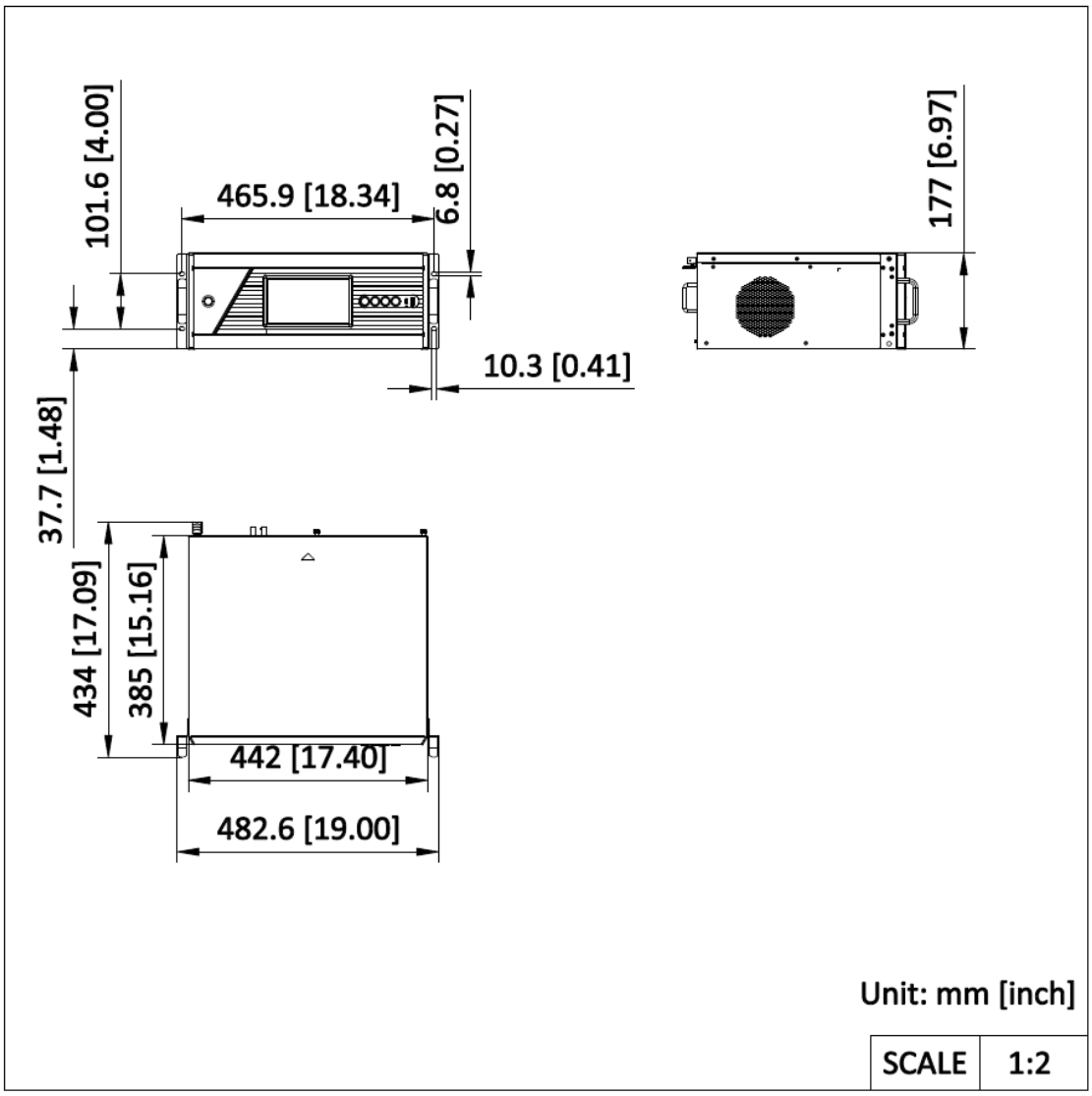
Processing Performance	
Processing Depth	8/10 bit
Device Feature	
Hot Swapping	Supported
Chassis	
Chassis Height	4 U
Bus Type	Network switching
Signal Sampling Quality	Up to RGB101010
Service Board Slot	12
Main Control Board Slot	1
Installed Main Control Boards	1
Max. Input Slot	6
Power Supply Slot	2
Installed Power Supplies	1
Fans	1
Interface	
USB Interface No.	2 × USB 2.0+1 × Type-C
Screen Type	7 inch, 1024 × 600, full-color touch LCD panel
Power	
Power Interface	100 VAC to 240 VAC, 50/60 Hz
Device Power Consumption	550 W
Network	
Control Network Port	1 × 1000 Mbps Ethernet port (RJ-45)
Transmission Protocol	SDK, RTSP, ONVIF
Video Wall	
Video Walls	8
Split Window	Supported(1/4/9/16)
Input Source Copy Capability	1) 4-channel 2K input board: supports 8 outputs to video wall (1 input can be replicated to 8 outputs). 2) 2-channel 4K input board: At 30Hz: supports 3 outputs to video wall (1 input can be replicated to 3 outputs). At 60Hz: supports 2 outputs to video wall (1 input can be replicated to 2 outputs). 3) SDI input board: supports 5 outputs to video wall (1 input can be replicated to 5 outputs).
Layers	Output board: 16 layers per port LED controller board: 16 layers per board
Display Video Wall Image	Supported with the installation of preview board
Scenes	128
Scene Auto-Switch Delay	300 ms
Plans	64 in total, 8 per video wall
Live View Resolution	16-channel D1, 32-channel CIF
UHD Fusions	Supported (up to 16 channels)
Background Image	Supported, 3 × 2K background images, JPG/JPEG
Subtitles	24 in total, 3 per video wall, 2 per port. Each subtitle supports up to 512 characters.
Input Image Clipping	Supported (up to 200 pixels on each side)

Local Signal Source Decoding Delay	50 ms
Network Signal Source Decoding Delay	300 ms
Window Division	1/4/6/8/9/16
General	
Working Humidity	10% RH to 90% RH, no condensation
Working Temperature	0℃ to 50℃(0℉ to 122℉)
Net Weight	16.28 kg(35.89 lb), full configuration, chassis 10.28 kg(22.67 lb), each sub-board 0.5 kg(1.1 lb)
Gross Weight	19.28 kg(42.51 lb), full configuration, chassis 10.28 kg(22.67 lb), each sub-board 0.5 kg(1.1 lb)
Dimensions (W × H × D)	442 mm × 177 mm × 385 mm (17.40 inch × 6.97 inch × 15.16 inch)
Packing List	1 × AC power cord, 1 ×regulatory compliance and safety information manual
Device Parameters	
Button	1 × power button, 2 × scene switch button, 2 × custom scene switch button
Serial Interface	RS-232/485
Device Decoding Capability	48 channels of 1080p 30 fps
Device Splicing Capability	24 channels
Control Interface	
Genlock Interface	1 input port + 1 loop-through output port

▪ Available Model

DS-C66S-S12

▪ Dimension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SCALE
1:2

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