

## **DS-DT20C-01HI04NO LED Controller**



The DS-DT20C-01HI04NO LED controller is used with the full-color LED display. It provides seamless splicing display of large screens of any size. It is suitable for multiple occasions, such as conference rooms, studios, stadiums, airport stations, banks, advertisements, and home cinemas.

- Adopts the rackmount chassis of 1 U height and half width and industrial grade chassis system.
- Provides indicators on the front panel to indicate the power status.
- Supports 1 channel of HDMI 1.4 video signal input. The resolution is 1920 × 1200@60 Hz.
- Supports frame rate self-adaption ranging from 25 Hz to 60 Hz for image collection.
- Supports the RGB and YUV 444 image loading output without image quality loss.
- Supports 4 channels of loading output with the maximum loading capacity of 2.6 MP. The maximum width is 5120 pixels and maximum height is 5120 pixels for a single device and the maximum loading capacity of each network port is 0.65 MP.
- Supports input of mixed HDMI audio and video stream, and 3.5 mm audio output.
- Supports full-screen zoom and custom zoom for video signal input.
- Supports cascading management and unified control of multiple LED controllers through the network.
- Supports high-bandwidth digital content protection technology of HDCP 2.2 protocol.
- Supports custom EDID settings.
- Supports hot backup and backup between devices and network ports.
- Supports custom cable alignment without rectangular frame limit.
- Supports the operation through the client or the LED controller web page.
- Supports displaying the last frame when the signal is lost.
- Supports configuring and changing the background.
- Supports configuring the screen saver and startup logo.

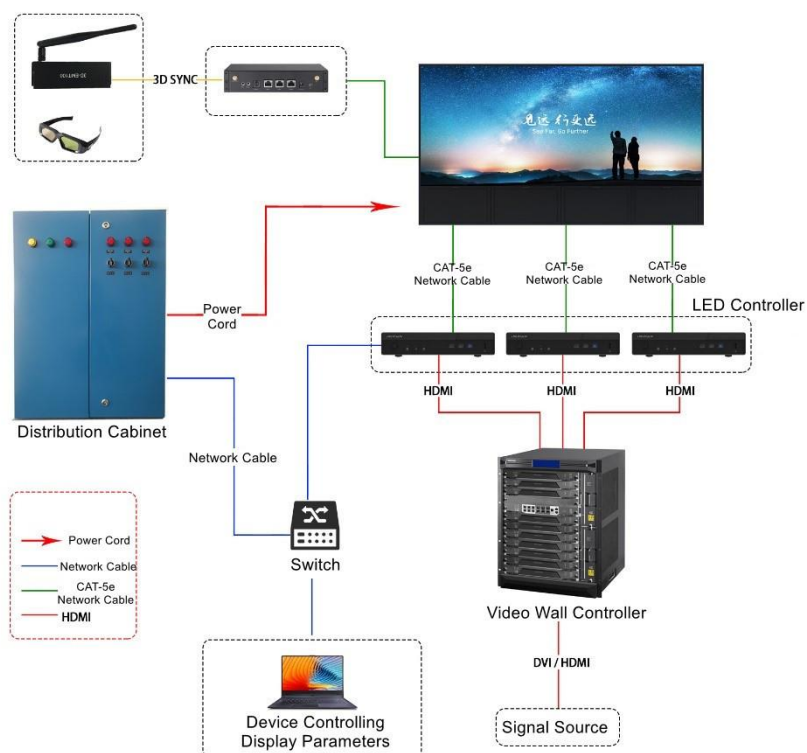
- Supports configuring the screen dehumidification.
- Supports using the remote control to control the screen to display the remote UI menu.
- Supports pixel-level screen correction to effectively eliminate color difference and improve the quality of the display.
- Supports changing the display mode, including general, text, advertisement, video, cinema, security, and etc.
- Supports the HDR output to greatly enhance the image quality of the display, make the picture color more real and vivid, and make the details clearer.
- Supports selecting the color temperature adjustment mode such as standard, warm color, and cold color and customizing color temperature.
- Supports eye protection mode to protect the vision of the viewer.
- Supports high refresh rate output at 3840 Hz, nanosecond response time, and smooth video picture.
- Supports viewing the loading relationship between the device and LED screen.
- Supports viewing abnormal screen positioning during running.
- Supports checking parameters such as device running status, device memory, CPU usage, device running temperature, and network port usage.
- Supports abnormal screen voltage detection, screen temperature detection, and device temperature detection.
- Supports connecting to the central control device and IoT device through RS-485 port.
- Supports docking device command and managing device by using the control network port and the protocols such as SDK and OTAP.
- Supports using the control network port to connect to the multi-functional card to realize environment temperature detection, environment humidity detection, and the cooperation between the human body temperature monitoring and screen control.

## ▪ Specification

<b>Processing Performance</b>	
Brightness Control	1 to 100 tunable (level-by-level white balance)
Frame Frequency	25 Hz to 60 Hz
Grey Level	256
Display Color	16 MP
Processing Depth	8 bit
Image Scaling	Supported
<b>Product Model</b>	
Product Model	DS-DT20C-01HI04NO
<b>Chassis</b>	
Chassis Height	1 U
Chassis Width	Half-width
<b>Product Type</b>	
Product Type	LED controller (The LED controller supports controlling only the receiving cards that use the hub ports.)
<b>LED Controller Power</b>	
Average Consumption	≤ 13 W
Power Interface Quantity	1
Power Interface	100 to 240 VAC, 50/60 Hz
<b>Video Wall</b>	
Background Images	2
Background Resolution	Min.: 640 × 480, Max.: 1920 × 1200
Background Format	JGP/JPEG
<b>General</b>	
Working Temperature	-10°C to 50°C
Storage Humidity	10% to 90%
Working Humidity	10% to 90%
Storage Temperature	-10°C to 50°C
Packaging Size (W × H × D)	353 mm × 89 mm × 237 mm (13.90 inch × 3.50 inch × 9.33 inch)
Net Weight	0.86 kg (1.89 lb.)
Gross Weight	1.38 kg (3.04 lb.)
Dimensions (W × H × D)	210 mm × 42 mm × 177.4 mm (8.27 inch × 1.65 inch × 6.98 inch)
Packing List	1 × AC power cord, 1 × connecting bracket, 1 × mounting bracket, 1 × RS-485 green Phoenix contact for central control device, 1 × regulatory compliance and safety information manual, 1 × RF remote control
<b>Audio</b>	
Audio Input Interfaces	1
Audio Input Interface Type	1 channel of embedded HDMI input
Audio Output Interfaces	1
Audio Output Interface Type	3.5 mm audio output
<b>Video Input</b>	
Video Input Interfaces	1
Video Input Interface Type	HDMI 1.4
Max. Video Input Resolution	HDMI1.4: 1080p

Video Input Resolution	HDMI 1.4 port Max. resolution: 1920 × 1200@60 Hz Min. resolution: 320 × 180@60 Hz Supports custom resolution. Total resolution should be no more than 2.6 MP@60 Hz Max. width: 320 to 3840, alignment: 2 alignment Max. height: 180 to 3840, alignment: 1 alignment Supports HDCP 1.4 Interlacing signal input is not supported.
Video Input Processing Feature	Processing depth: 8 bit Sampling format: RGB: 444 YUV: 444 YUV: 422
<b>Video Output</b>	
Max. Video Output Resolution	2.6 MP
Loading Capacity for Video Output to LED	Single port loading: 0.65 MP Width: 320 to 5120; alignment: 2 alignment Height: 64 to 5120; alignment: 1 alignment
LED Loading Interfaces	4
LED Loading Interface Type	RJ-45
<b>Wireless</b>	
Remote Control	Supports IR remote control
<b>Front Panel</b>	
USB Port	1 channel of USB 2.0
Indicator	Active: The device is running
Power Switch	On: The device is started and running. Off: The device is not powered on or is not started.
<b>Control Interface</b>	
Control Network Port	2 × 10/100/1000 Mbps self-adaptive Ethernet port (RJ-45) Connects to the external network and supports multi-device network cascade management.
IR Input	1 × 3.5 mm connector Supports the access of IR remote control.
Serial Interface	1 × debugging serial port (4-pin connector) + 1 × RS-485 central control serial port (green Phoenix contact) Baud rate: 115200, data bit: 8

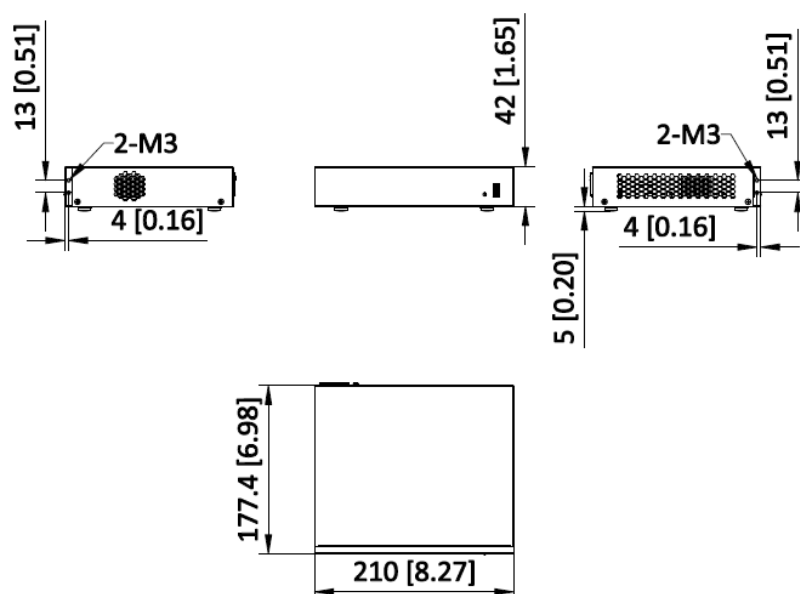
## ▪ Typical Application



## ▪ Available Model

DS-DT20C-01HI04NO

## Dimension



Unit: mm [inch]

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