DS-DT60P-02HDI20NO/U
20-Port P Series LED Controller



The DS-DT60P-02HDI20NO/U 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.

- Provides a full-color OLED non-touch screen with the resolution of 128 × 64. Thus, you can view device status at any time and the device maintenance become easier.
- Adopts the 1 U rackmount chassis and industrial grade chassis system.
- Provides buttons on the front panel to change brightness and other parameters.
- Provides indicators on the front panel to indicate the power status, signal access status, and running status.
- Supports 2 channels of video signal input. The DVI resolution is 1920 × 1200@60 Hz. The HDMI 2.0 resolution is 4096 × 2160@60 Hz.
- Supports the RGB and YUV 444 image loading output without image quality loss.
- Supports 20 channels of loading output with the maximum loading capacity of 13 MP. The maximum width is 8192 pixels and maximum height is 8192 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, custom changing, and custom splicing.
- Supports opening the signal source windows on the display and roaming window.
- Supports 1 channel of subtitle. You can set the color, font, and scrolling speed for the subtitle and add the picture.
- Supports the video wall configuration and window visualization.
- Supports up to 10 scenes. Thus, the saved scene can be used directly in the future.
- Supports displaying 7 windows (3 signal source windows + 2 image windows + 1 scrolling text window + 1 background window) and customizing the window layout for all windows except for the background window.
- Supports high-bandwidth digital content protection technology of HDCP 2.2 protocol.
- Supports custom EDID settings.
- Supports dual backup of the power supplies and dual backup of LED controller network ports.
- Supports custom cable alignment without rectangular frame limit.
- Supports the operation through the client or the LED controller web page.
- Supports configuring the background.
- Supports configuring the startup logo.
- Supports configuring the screen dehumidification.
- Supports using the remote control to control the screen to display the remote UI menu.

- Supports adjusting the brightness, contrast, hue, and other parameters of the output image.
- 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 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 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.
- Provides built-in Android 12 system, 4 GB memory and 32 GB storage and supports multi-media playing.
- Supports HDMI 2.0 and DVI loop output. The maximum HDMI loop output is 4096 × 2160 @60 Hz and the maximum DVI loop output is 1920 × 1200@60 Hz.
- Supports frame rate self-adaption ranging from 25 Hz to 120 Hz for image collection.
- Supports WonderCast application via PC, mobile devices, screen casting devices, etc.
- Supports program playback via USB flash drive.

▪ Specification

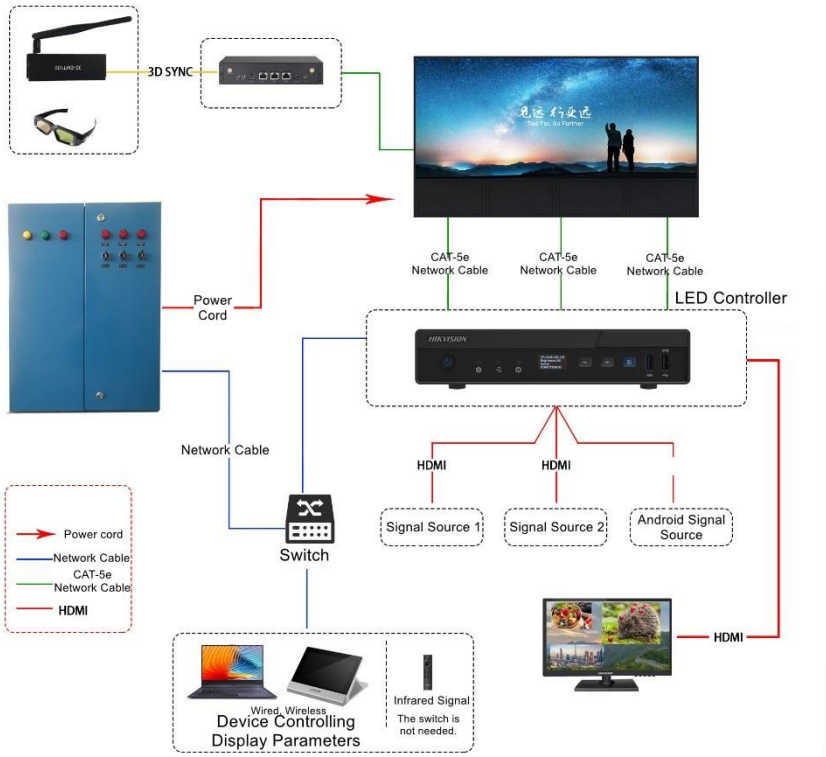
Product Model	
Product Model	DS-DT60P-02HDI20NO/U
Product Type	
Product Type	LED controller
Processing Performance	
Brightness Control	1 to 100 tunable (level-by-level white balance)
Input Frame Rate	25 Hz to 120 Hz
Grey Level	256
Display Color	16 MP
Processing Depth	8 bit
Image Scaling	Supported
Chassis	
Chassis Height	1 U
Chassis Width	440 mm (17.32 inch)
Sending Card Interface	
Light Sensor Port	Supported
LED Controller Power	
Average Consumption	≤45 W
Power Interface Quantity	1
Power Interface	100 to 240 VAC, 50/60 Hz
Interface	
USB Interface	1 channel of USB 2.0 + 1 channel of USB 3.0
Network	
Control Network Port	2 × 10/100/1000 Mbps auto-sensing Ethernet port (RJ-45) Connects to the external network.
Video Wall	
Open Windows	3 signal source windows + 2 image windows + 1 scrolling text window + 1 background window
Layers per Device	7
Scenes	10
Background Images	1
Background Resolution	Min.: 640 × 480, Max.: 1920 × 1200
Background Format	JPG/JPEG
Subtitles	1
Subtitle Width	32760
Subtitle Font	Supports Xiaomi font and custom font
General	
Working Temperature	-10°C to 50°C
Screen	128 × 64, OLED screen
Storage Humidity	10% to 90%
Working Humidity	10% to 90%
Storage Temperature	-10°C to 50°C
Packaging Size (W × H × D)	589 mm × 103 mm × 410 mm (23.19 inch × 4.06 inch × 16.14 inch)
Net Weight	3.3 kg (7.28 lb)
Gross Weight	4.47 kg (9.85 lb)

Dimensions (W × H × D)	440 mm × 44.5 mm × 320.8 mm (17.32 inch × 1.75 inch × 12.63 inch)
Packing List	1 × AC power cord, 1 × mounting bracket, 2 × RS-485 green Phoenix contact for central control device, 1 × regulatory compliance and safety information manual, 3 × bar antenna, 1 × RF remote control
Audio Input	
Audio Input Interfaces	2
Audio Input Interface Type	1 HDMI 2.0 + 1 embedded Android
Video Input	
Video Input Interfaces	3
Video Input Interface Type	1 HDMI2.0 + 1 DVI + 1 channel of embedded Android
Max. Video Input Resolution	HDMI 2.0: 4K; DVI: 1080P
Video Input Resolution	Embedded Android: 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: 144 to 4096, alignment: 2 alignment Max. height: 144 to 4096, alignment: 1 alignment Supports HDCP 1.4. Interlacing signal input is not supported. DVI 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: 144 to 4096, alignment: 2 alignment Max. height: 144 to 4096, alignment: 1 alignment Supports HDCP 1.4. Interlacing signal input is not supported. HDMI 2.0 port: Max. resolution: 4096 × 2160@60 Hz Min. resolution: 320 × 180@60 Hz Supports custom resolution. Total resolution should be no more than 8.84 MP@60 Hz Max. width: 144 to 8192, alignment: 2 alignment Max. height: 144 to 8192, alignment: 1 alignment Supports HDCP 2.2. Interlacing signal input is not supported.
Video Input Processing Feature	Processing depth: 8 bit Sampling format: RGB: 444 YUV: 444 YUV: 422 YUV: 420
Video Output	
Max. Video Output Resolution	13000000
Loading Capacity for Video Output to LED	Single port load 650000, Width 144 - 8192, Height 64 - 8192, Width must be a multiple of 2 and height must be a multiple of 1
LED Loading Interfaces	20

LED Loading Interface Type	RJ-45
Video Loop Output Interface	2
Type of Video Loop Output Interface	1 channel of HDMI 2.0 + 1 channel of DVI
Video Loop Output Resolution	DVI port: Max. resolution: 1920 × 1200@60 Hz Min. resolution: 320 × 180@60 Hz Supports custom resolution, total resolution not exceeding 2.6 MP@60 Hz. Max. width: 144 to 4096, width must be a multiple of 2. Max. height: 144 to 4096, height must be a multiple of 1. Supports HDCP 1.4. HDMI 2.0 port: Max. resolution: 4096 × 2160@60 Hz Min. resolution: 320 × 180@60 Hz Supports custom resolution. Total resolution should be no more than 8.84 MP@60Hz Max. width: 144 to 8192, alignment: 2 alignment Max. heihgt: 144 to 8192, alignment: 1 alignment Supports HDCP 2.2.
Video Live View Output Interfaces	1
Type of Video Live View Output Interface	HDMI 1.4
Video Live View Output Resolution	720p@60 Hz
Loading Mode	Mini loading: single port load 650000 Standard loading: single port load 2925000 (available on any network port)
Audio Output	
Audio Output Interfaces	1
Audio Output Interface	3.5 mm audio output
System	
System	Android 12
Memory Capacity	4 GB
Storage Capacity	32 GB
CPU	4-core 64-bit ARM cortex-A55 2.0 GHz
Wireless	
Wi-Fi	STA 2.4 GHz, AP 2.4&5 GHz
Bluetooth	Bluetooth 4.0
Antenna	3 × bar antenna
Remote Control	Supports IR remote control and RF remote control
Device Parameters	
Button	+: increase brightness -: decrease brightness Source: change signal source

Serial Interface	1 × debugging serial port (4-pin connector) + 1 × RS-485 central control serial port (green Phoenix contact) + 1 × RS-485 serial port for light perception (green Phoenix contact) Baud rate: 115200, data bit: 8
Power Switch	Button switch
Broadcast Control Feature	
File Format	Video, image, webpage, document, clock, text, and background music
Video Playback Performance	1-channel 4096 × 2160@60 Hz, 4-channel 1920 × 1080@60 Hz, 6-channel 1280 × 720@60 Hz
WonderCast Client	Supported
Front Panel	
Indicator	Active: The device is running. Source: The signal source is accessed. Error: The device operation exception occurs.
Power Switch	On: The device is started and running. Off: The device is not powered on or is not started.
Control Interface	
IR Input	1 × 3.5 mm connector Supports the access of IR remote control.

▪ Typical Application

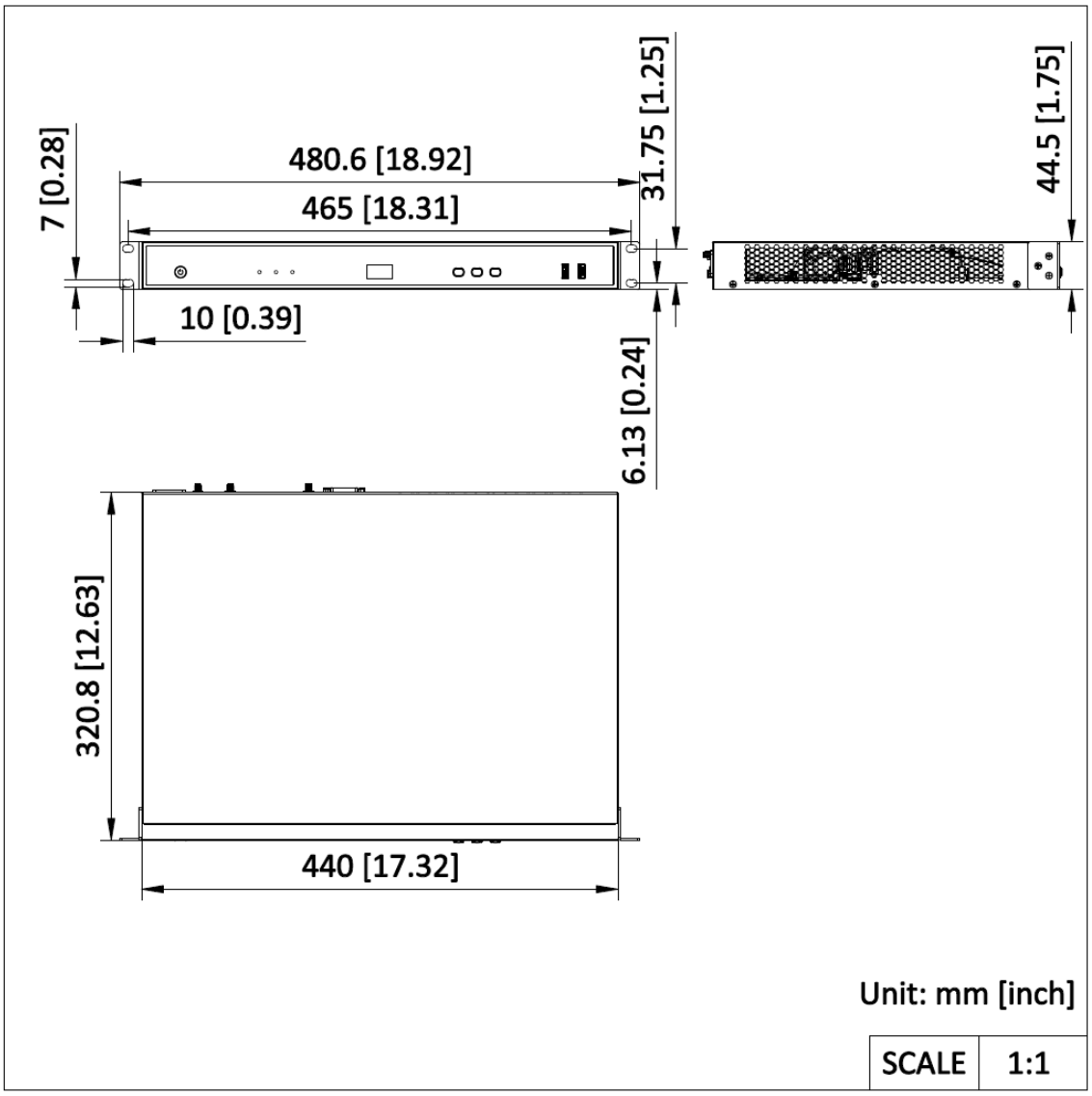


▪ Available Model

DS-DT60P-02HDI20NO/U

DS-DT60P-02HDI20NO/U(JPN-H)

▪ Dimension



▪ Accessory

▪ Optional

DS-D4009CW-2FA	DS-D4012FW-2FB	DS-D4015FW-2FB
		

See Far, Go Further

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