

## DS-DT60B-01HI12NO/U 12-Port B Series LED Controller



The 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.

- Provide 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.
- Adopt the 1 U rackmount chassis and industrial grade chassis system.
- Provide buttons on the front panel to adjust the brightness and switch the signal source.
- Provide indicators on the front panel to indicate the power status, signal access status, and running status.
- Support one HDMI 2.0 input channel at 4096 × 2160@60 Hz resolution.
- Support the RGB and YUV 444 image loading output without image quality loss.
- Support 12 channels of loading output with the maximum loading capacity of 7.8 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.
- Support input of mixed HDMI audio and video stream, and 3.5 mm audio output.
- Support full-screen zoom and custom zoom for video signal input, and signal sources switching.
- Support up to 10 scenes. Thus, the saved scene can be used directly in the future.
- Support high-bandwidth digital content protection technology of HDCP 2.2 protocol.
- Support custom EDID settings.
- Support redundant backup for power supplies, LED controller network ports, and LED controller/receiving card combinations.
- Support custom cable alignment without rectangular frame limit.
- Support the operation through the client or the LED controller web page.
- Support configuring the background.
- Support configuring the startup logo.
- Support configuring the screen dehumidification.
- Support using the remote control to control the screen to display the remote UI menu.
- Support adjustment of output image parameters including brightness, contrast, and color temperature.

- Support pixel-level screen correction to effectively eliminate color difference and improve the quality of the display.
- Support changing the display mode, including general, text, advertisement, video, cinema, security, and etc.
- Support selecting the color temperature adjustment mode such as standard, warm color, and cold color and customizing color temperature.
- Support eye protection mode to protect the vision of the viewer.
- Support high refresh rate output at 3840 Hz, nanosecond response time, and smooth video picture.
- Support monitoring load relationships between the device and LED display.
- Support locating display abnormalities during operation.
- Support checking parameters such as device running status, device memory, CPU usage, device running temperature, and network port usage.
- Support abnormal cabinet voltage detection, cabinet temperature detection, and device temperature detection.
- Support connecting to the central control device and IoT device through RS-485 port.
- Support docking device command and managing device by using the control network port and the protocols such as OTAP.
- Support using the control network port to connect to the multi-function card to realize environment temperature detection, environment humidity detection, and the cooperation between the human presence sensor and display control.
- Integrate Android 12 OS with 4GB RAM and 64GB storage to support multimedia playback.
- Support HDMI 2.0 loop-through output, with a maximum resolution of 4096 × 2160@60 Hz.
- Adapt to frame rates from 25Hz to 120Hz for image capture.
- Support decoding of either 1 channel of 4K video or 6 channels of 1080p@30 Hz video.
- Support program playback via USB flash drive.

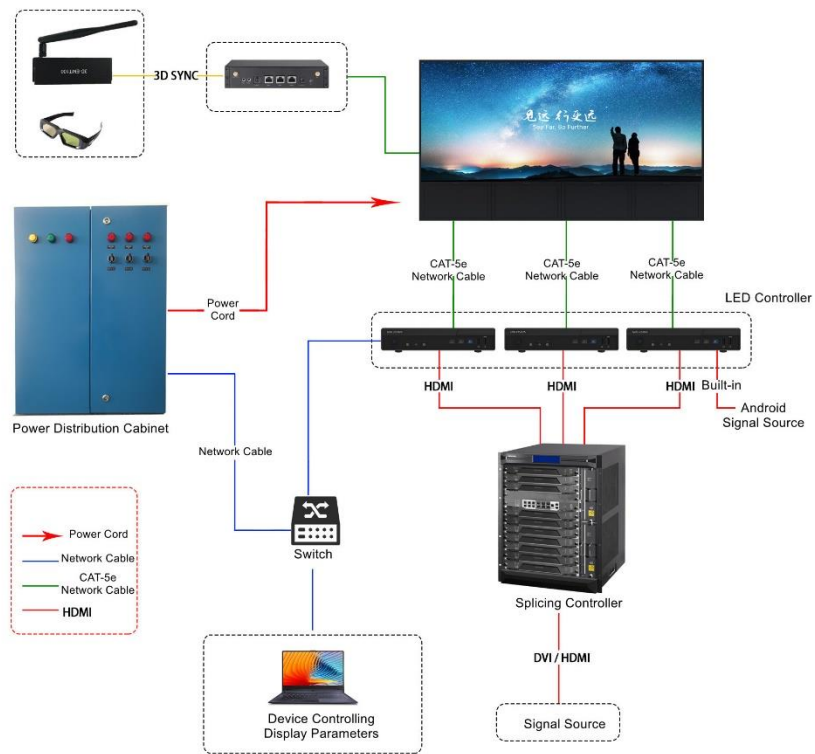
## ▪ Specification

<b>Product Model</b>	
Product Model	DS-DT60B-01HI12NO/U
<b>Product Type</b>	
Product Type	LED controller
<b>Processing Performance</b>	
Brightness Control	1 to 100 tunable (level-by-level white balance)
Input Frame Rate	25 Hz to 120 Hz
Grey Level	1024
Display Color	1 Gigapixel
Processing Depth	10 bit
Image Scaling	Supported
<b>Chassis</b>	
Chassis Height	1 U
Chassis Width	440 mm(17.32 inch)
<b>LED Controller Interface</b>	
Light Sensor Port	Supported
<b>LED Controller Power</b>	
Average Consumption	≤29 W
<b>Interface</b>	
USB Interface	1 × USB 2.0 + 1 × USB 3.0
Serial Interface	1 × debugging port (4-pin connector)+ 1× RS-485 central control port (green Phoenix contact) + 1 × RS-485 light sensor port (green Phoenix contact) Baud rate: 115200, data bit: 8
<b>Power</b>	
Power Interface	1, 100 VAC to 240 VAC, 50/60 Hz
<b>Network</b>	
Control Network Port	2 × 10/100/1000 Mbps auto-sensing Ethernet port (RJ-45),Connects to the external network and supports multi-device network cascade management.
<b>Video Wall</b>	
Scenes	10
Background Image	Supported (quantity: 1, max. resolution:1920 × 1200, min. resolution:640 × 480, format: JPG/JPEG)
<b>General</b>	
Working Temperature	-10°C to 50°C(14°F to 122°F)
Screen	Screen type: OLED, resolution:128 × 64
Storage Humidity	10% RH to 90% RH, no condensation
Working Humidity	10% RH to 90% RH, no condensation
Storage Temperature	-10°C to 50°C(14°F to 122°F)
Packaging Size (W × H × D)	589 mm × 103 mm × 410 mm (23.19 inch × 4.06 inch × 16.14inch)
Net Weight	3.322 kg (7.32 lb)
Gross Weight	4.488 kg (9.89 lb)
Dimensions (W × H × D)	440 mm × 44.5 mm × 320.8 mm (17.32 inch × 17.5 inch × 12.63 inch)

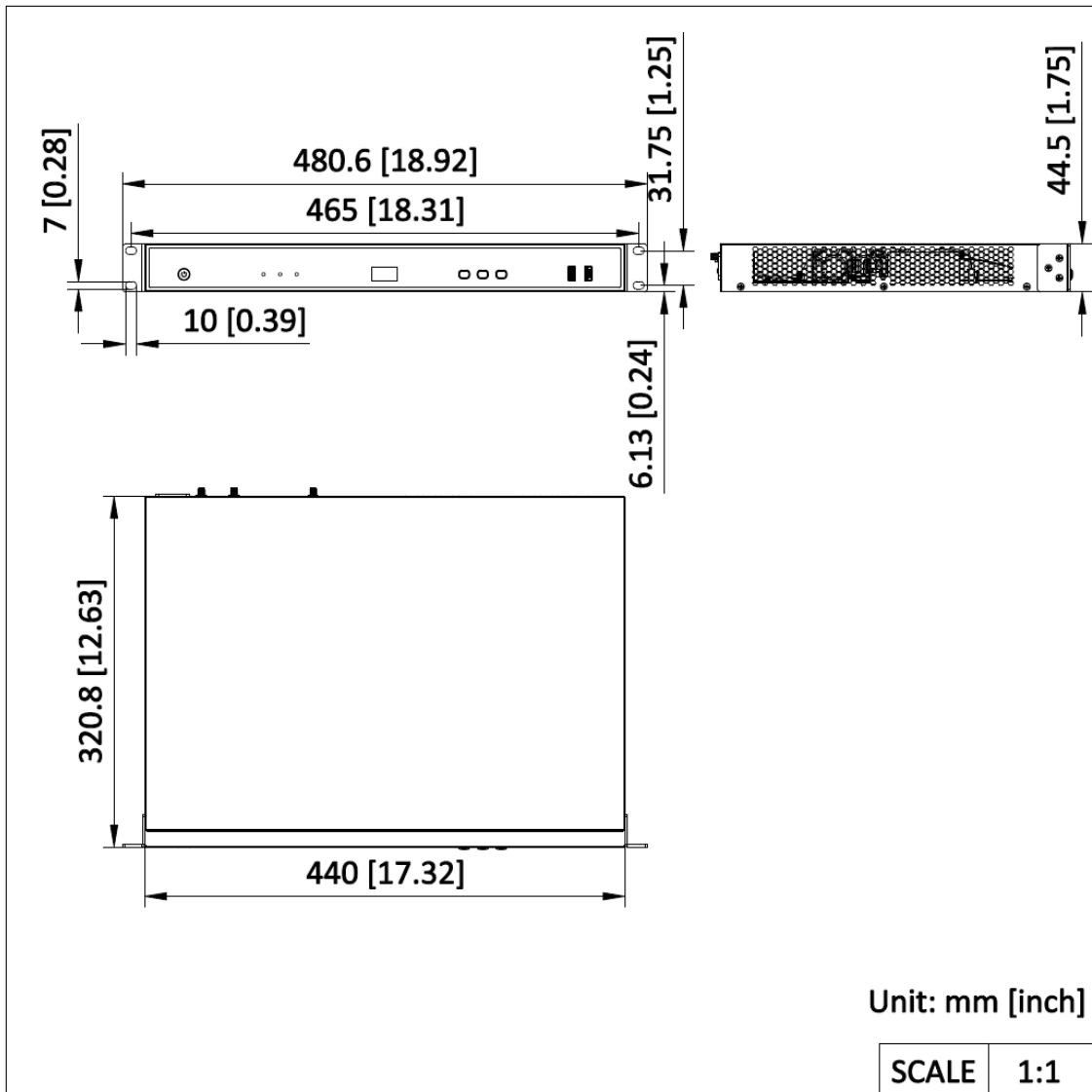
Packing List	1 × AC power cord, 1 × mounting bracket, 2 × RS-485 green Phoenix contact for central control device, 1 × regulatory compliance and safety information manual, 3 × bar antenna, 1× RF remote control
<b>Audio Input</b>	
Audio Input Interface	1-channel HDMI 2.0 + 1-channel embedded Android
<b>Video Input</b>	
Video Input Interface Type	1-channel HDMI 2.0 or 1-channel embedded Android
Video Input Interfaces	2
Max. Video Input Resolution	HDMI2.0: 4K
Video Input Resolution	HDMI2.0 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: 10 bit Sampling format: RGB: 444 YUV: 444 YUV: 422 YUV: 420
Video Input Preview	Supported
Built-in Android Resolution	4K
<b>Video Output</b>	
Max. Video Output Resolution	7800000
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	12
LED Loading Interface Type	RJ-45
Video Loop Output Interface	1-channel HDMI2.0
Video Loop Output Resolution	HDMI2.0 port: Max. resolution: 4096 × 2160@60 Hz Min. resolution: 320 × 180@60 Hz Output resolution matches the video input resolution. Max. width: 144 to 8192, width must be a multiple of 2. Max. height: 144 to 8192, height must be a multiple of 1. Supports HDCP2.2
Loading Mode	Single port load 0.65 MP
<b>Audio Output</b>	
Audio Output Interface	1 × 3.5 mm audio
<b>System</b>	
System	Android 12
Memory Capacity	4 GB

Storage Capacity	64 GB
CPU	4-core 64-bit ARM cortex-A55 2.0 GHz
<b>Wireless</b>	
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
<b>Device Parameters</b>	
Button	+: increase brightness -: decrease brightness Source: change signal source
Power Switch	Button switch
<b>Broadcast Control Feature</b>	
Program Material Type	Video, image, audio, document, text, stream media, clock
Program Playback	Supports play, stop, fast forward, and rewind in the material window. Supports play and stop in program playback.
Playback Attribute	Supports configuration of window size, position, and playback time. Supports configuration of programs and schedule. Supports real-time playback control and asynchronous signal transmission configuration.
Video Playback Performance	Supports 1 channel of 4K@60 Hz, 4 channels of 1080p@60 Hz, or 6 channels of 720p@60 Hz multimedia video playback.
<b>Front Panel</b>	
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.
<b>Control Interface</b>	
IR Input	1 × 3.5 mm connector Supports the access of IR remote control.

▪ Typical Application



▪ Dimension



# See Far, Go Further



[www.hikvision.com](http://www.hikvision.com)  
[support@hikvision.com](mailto:support@hikvision.com)

