

PIXELAB LED Controller



- 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 rackmount chassis of 1 U height and half width 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 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 4 channels of loading output with the maximum loading capacity of 2.6 MP. The maximum width is 32760 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 the RGB and YUV 444 image loading output without image quality loss.
- 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 the video wall configuration and window visualization.
- Supports 1 channel of subtitle. You can set the color, font, and scrolling speed for the subtitle and add the picture.
- 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 dual backup of the power supplies, dual backup of LED controller network ports, dual backup of LED controllers, and dual backup of receiving cards.
- 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.
- Supporting 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.
- 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.
- Provides built-in Android 12 system, 4 GB memory and 32 GB storage and supports multi-media playing.

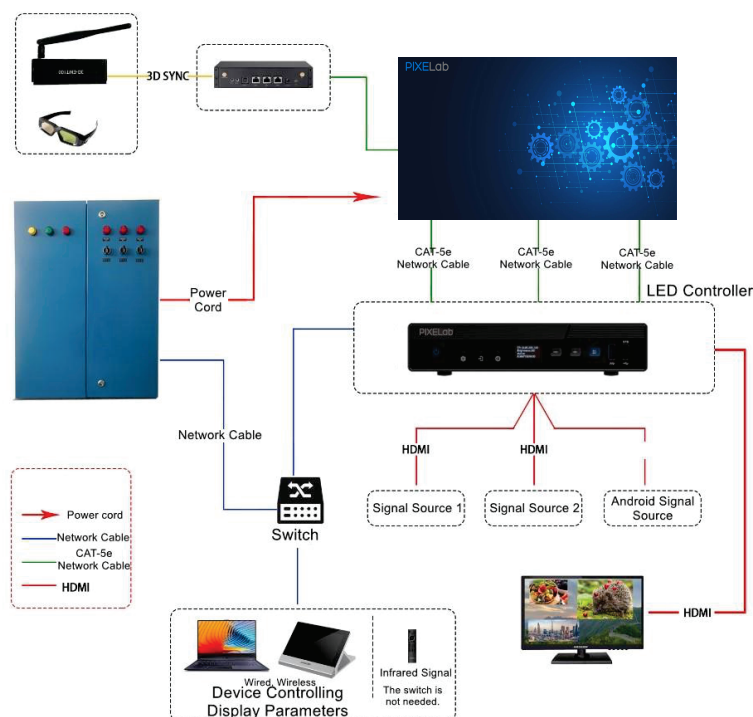
Specification

Product Model	
Product Model	PXL-LC02HI-04NO
Processing Performance	
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
Chassis	
Chassis Height	1 U
Chassis Width	Half-width
Product Type	
Product Type	LED controller
LED Controller Power	
Average Consumption	≤16.5 W
Power Interface Quantity	1
Power Interface	100 to 240 VAC, 50/60 Hz
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
Storage Humidity	10% to 90%
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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	1.04 kg (2.29 lb.)
Gross Weight	1.58 kg (3.48 lb.)
Dimensions (W × H × D)	210 mm × 42 mm × 180 mm (8.26 inch × 1.65 inch × 7.08 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 × bar antenna, 1 × RF remote control

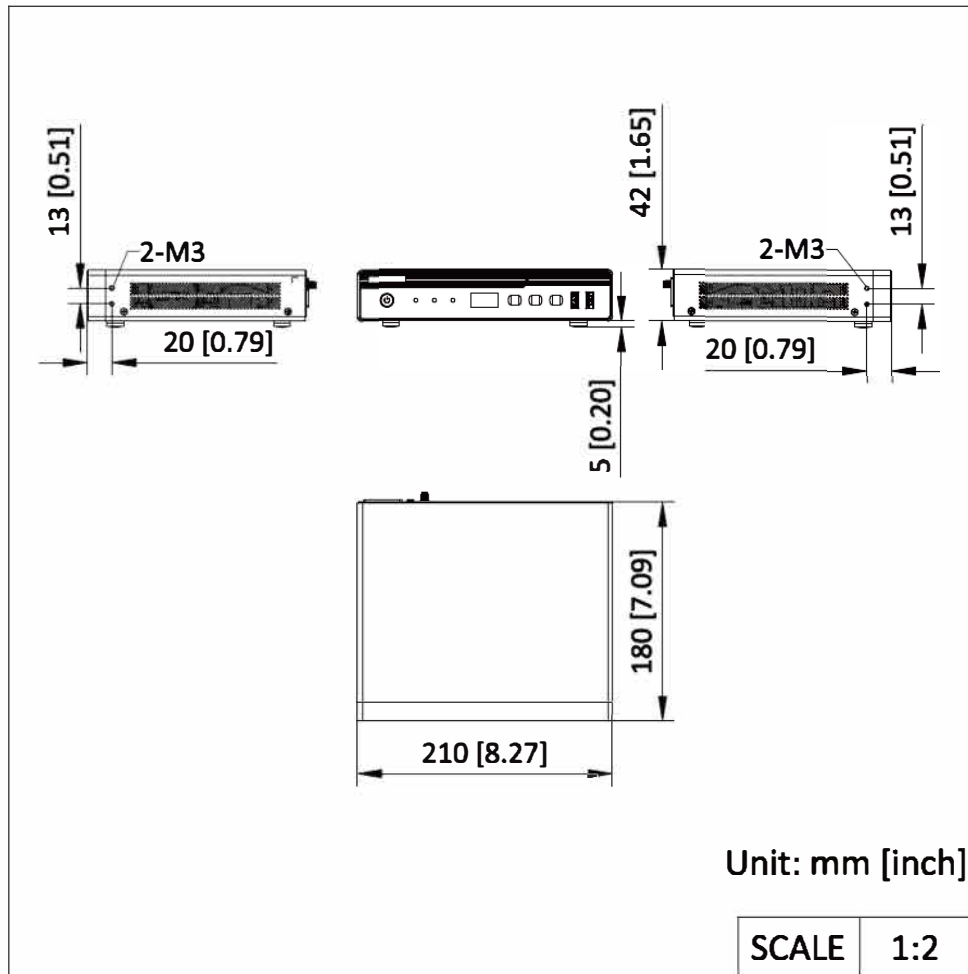
Audio Input	
Audio Input Interfaces	3
Audio Input Interface Type	2 HDMI1.4 + 1 channel of embedded Android
Video Input	
Video Input Interfaces	3
Video Input Interface Type	2 HDMI 1.4 + 1 embedded Android
Max. Video Input Resolution	HDMI1.4: 1080p
Video Input Resolution	HDMI 1.4 port Max. resolution: 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
Video Output	
Max. Video Output Resolution	2.6 MP
Video Output Resolution	RJ-45
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 Capacity for Video Output to LED	Loading per port: 650000 Width: 320 to 32760; pixel alignment: must be a multiple of 2 Height: 64 to 5120; pixel alignment: must be a multiple of 1
LED Loading Interfaces	4
Audio Output	
Audio Output Interfaces	1
Audio Output Interface Type	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	
WIFI	2.4 GHz
Bluetooth	Bluetooth 4.0

Antenna	1 × bar antenna
Remote Control	Supports IR remote control
Front Panel	
Screen	128 × 64, OLED screen
USB Port	1 channel of USB 2.0 + 1 channel of USB 3.0
Button	+: increase brightness -: decrease brightness Source: change signal source
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	
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
Power Switch	Button switch

Typical Application



Dimension



Accessory Optional

