

X8m/X12m

LED Video Controller

Quick Start Guide V1.0

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Safety Information

To avoid personal injury and equipment damage, please comply with the following precautions:

- **Do not remove the top cover**

Do not attempt to remove the top cover, as it may lead to personal injury. This must be undertaken by Colorlight service technicians.

- **Only use power supply and accessories specified by the manufacturer**

The device is designed to operate safely and properly within the voltage range of 100–240V AC. Please use the power cords provided with this package or standard-compliant power cords.

- **Avoid direct contact with charged objects**

This product is an electronic device. Direct contact between physical interfaces and charged objects may cause damage to circuit elements, affecting normal product use.

- **Grounding Instructions**

- This product must be grounded. When equipment fails, the protective grounding contact in the power socket should be reliably connected to the protective grounding terminal in the equipment. This product is equipped with a power cord with a grounding plug. The plug must be plugged into an outlet that is properly installed and grounded in accordance with all local codes ordinances.
- Improper connection of equipment grounding is able to result in a risk of electric shock. Check with a qualified electrician if you are in doubt as to whether the product is properly grounded. Do not modify the plug included with the product. If the plug is not suitable for the socket, please have a qualified electrician install a suitable socket.

- **FCC statement**

This device complies with part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) this device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

- **Environmental notice**

This product is only suitable for safe use at altitudes no higher than 5000m above sea level.

- **Avoid moisture**

This product is not designed to be waterproof. Please avoid direct contact with liquids and do not use the equipment in a wet environment.

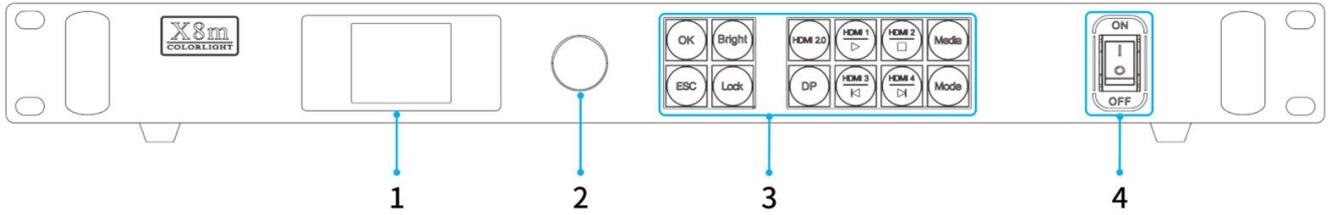
- **Keep away from flammable, explosive and otherwise hazardous materials**

Unpacking and inspection

After unpacking the equipment, please check the items according to the packing list and contact the sales team in case of incomplete order.

1 Appearance

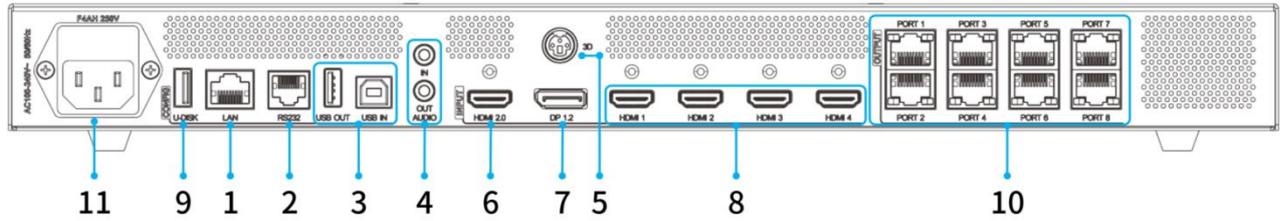
1.1 Front Panel



No.	Name	Description
1	LCD screen	Show operation menu and system info
2	Knob	Press the knob to enter the submenu or confirm the selection. Rotate the knob to scroll through the menu items or adjust the parameters
3	Shortcuts	<p>OK: Confirmation</p> <p>Bright: Tune brightness</p> <p>ESC: Exit current interface</p> <p>Lock: Lock the buttons on the front panel</p> <p>HDMI 2.0 / DP / HDMI 1 / HDMI 2 / HDMI 3 / HDMI 4:</p> <ul style="list-style-type: none"> - Click the button to switch directly to the corresponding signal - Play/pause ►, stop ■, previous ◀, next ▶ are available, when playing on U disk <p>Media: Enable media playback function</p> <p>Mode: Select a preset scene</p>
4	Power button	Switch the device ON/OFF

* The picture takes X8m as an example and is for illustration purposes only. Please refer to the actual product.

1.2 Rear Panel



Control		
1	LAN	RJ45, LAN connector
2	RS232	RJ11(6P6C) connector, which can be connected to a central control
3	USB IN	USB2.0 Type B connector. Connect to computer for device management or cascading input
	USB OUT	USB2.0 Type A connector for cascading output
Audio		
4	AUDIO IN	3.5mm connector. Receive audio signals from computers and other devices
	AUDIO OUT	3.5mm connector. Output audio signal to active speakers and other devices (Support HDMI, DP audio resolving output)
3D		
5	3D connector*	Output 3D synchronization signal (Work with active 3D glasses, optional)
Input		
6	HDMI 2.0	<ul style="list-style-type: none"> • 1× HDMI2.0. Compatible with HDMI1.4 and HDMI1.3 • Max input resolution: 4096×2160@60Hz; Min input resolution: 800×600@60Hz; Max pixel clock: 600MHz • Custom resolution: <ul style="list-style-type: none"> - Max width 8192 (8192×1080@60Hz) - Max height 8192 (1080×8192@60Hz) • Support independent EDID setting with Version 1.3 compatible • Audio input supported • HDR not supported • Deinterlacing display not supported
7	DP 1.2	<ul style="list-style-type: none"> • 1× DP1.2 • Max input resolution: 4096×2160@60Hz; Min input resolution: 800×600@60Hz; Max pixel clock: 600MHz • Custom resolution: <ul style="list-style-type: none"> - Max width 8192 (8192×1080@60Hz) - Max height 8192 (1080×8192@60Hz) • Support independent EDID setting with Version 1.3 compatible • Audio input supported • HDR not supported • Deinterlacing display not supported
8	HDMI 1	<ul style="list-style-type: none"> • 4× HDMI1.4

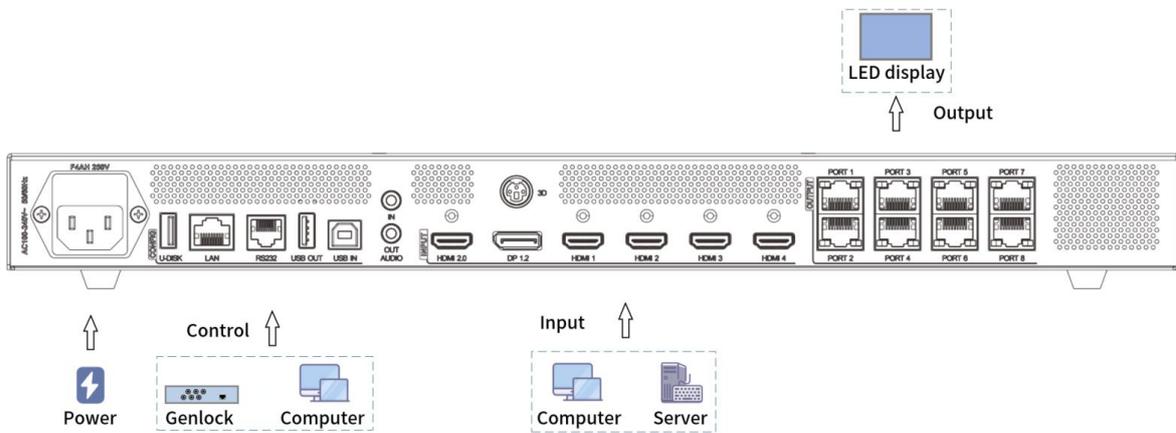
	HDMI 2 HDMI 3 HDMI 4	<ul style="list-style-type: none"> • Max resolution: 1920×1200@60Hz; Min input resolution: 800×600@60Hz; Max pixel clock: 165MHz • Custom resolution: <ul style="list-style-type: none"> - Max width 4096 (4096×512@60Hz) - Max height 4096 (512×4096@60Hz) • Support independent EDID setting with Version 1.3 compatible • Audio input supported • HDCP1.4 supported • Deinterlacing display not supported
9	U-DISK	<ul style="list-style-type: none"> • U disk connector. Support hot plug and video/picture playback via the U disk • U disk format: NTFS、FAT32、exFAT • Picture format: JPEG、BMP、PNG、WEBP、GIF <ul style="list-style-type: none"> - Max resolution: 4096×2160@60Hz • Video format: 3GP、AVI、FLV、M4V、MKV、MP4、TP、TS、VOB、WMV、MPEG <ul style="list-style-type: none"> - Video encoding: MPEG-1/2、MPEG-4、H.264/AVC、H.265/HEVC、GOOGLE VP8、MOTION JPEG - Audio encoding: MPEG Audio、Windows Media Audio、AAC Audio、AMR Audio • Video resolution: <ul style="list-style-type: none"> - For H.264/AVC、MVC、H.265/HEVC formats: Max 4096×2160@60Hz - For MPEG-1/2、MPEG-4、GOOGLE VP8、VC-1 formats: Max 1920×1080@60Hz
Output		
10	PORT 1-8 PORT 1-12	<ul style="list-style-type: none"> • X8m&X12m load capacity per Ethernet port: <ul style="list-style-type: none"> - Per Ethernet port: 655360 pixels - Output at 60Hz, 8bit: 650,000 pixels - Output at 120Hz, 8bit: 320,000 pixels - Output at 60Hz, 8bit: 160,000 pixels • X8m: 8× 1G Ethernet port <ul style="list-style-type: none"> - Total load capacity: 5,240,000 pixels - Output at 60Hz, 8bit: 5,240,000 pixels - Output at 120Hz, 8bit: 2,620,000 pixels - Output at 240Hz, 8bit: 1,310,000 pixels - Max width: 16384 pixels; Max height: 8192 pixels • X12m: 12× 1G Ethernet port <ul style="list-style-type: none"> - Total load capacity: 7,860,000 pixels - Output at 60Hz, 8bit: 7,860,000 pixels - Output at 120Hz, 8bit: 3,930,000 pixels - Output at 240Hz, 8bit: 1,960,000 pixels - Max width: 16384 pixels; Max height: 8192 pixels • For CAT5e, the communication distance is recommended not to exceed 100m. • Support redundancy backup
Power		
11	AC100-240V	Power input with built-in power protection device, 100-240V, 50/60Hz

		<ul style="list-style-type: none"> - Fuse (F4AH) input voltage is AC250V/4A <ul style="list-style-type: none"> ◇ There is a spare fuse in the fuse box ◇ To replace the fuse, please unplug the external power cord first, then open the fuse slot under the power connector. Replace the old fuse with a new one and reinstall the fuse slot when finished - Appliance coupler or plug used as disconnect device
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* The picture takes X8m as an example and is for illustration purposes only. Please refer to the actual product.

2 Connection

Before using the equipment, connect the **Input**, **Output** and **Control ports** according to hardware interfaces, then connect the **power cord**.



Ethernet Port Output: When using an Ethernet port board, the port is directly connected to the LED screen via a network cable.

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3 Operating Software

Please use LEDVISION to configure the screen and set up the device display.

- Before, please ensure the display of LED screen and the correct parameters are saved to receivers.
- Before setting the parameters, please connect the hardware correctly to make sure all the senders and receivers can be detected using the software.
- Please download LEDVISION software from Colorlight official website:
www.colorlightinside.com

3.1 Configure Screen

Open **LEDVISION** software and select **Control > LED Screen Settings** (enter password 168 or 777).

- Open the **Sending Device** page, then select a sending device as the **Sender** and click **Detect**.
- Enter **detect receiver page to detect all receivers**.
- Enter the **Receiver Mapping (Look From Front)** page, and add the receivers corresponding in amount and size according to the actual Ethernet ports detected.
- Click on the **port number** to draw the corresponding cabinet string according to the actual mapping.
- Send cabinet mapping to the LED screen for testing. If it displays properly, save the cabinet mapping.
 - * If the LED screen does not display normally, save the cabinet mapping to senders and receivers.

3.2 Detect Devices

Type the IP address 192.168.1.10 in your browser to enter the VideoStationWeb login interface, then finish the display settings for the device.

- Enter the account number and password (Initial account number is 123456 and initial password is 123456). Click Login to enter the VideoStation Web operation interface and device names are automatically identified.
 - * If the device is not detected, please check whether the network cable is connected properly or whether the relevant driver is installed correctly.
 - * For PC network cable access, you may need to set the IP address of the corresponding PC end.

3.3 Set Input Window

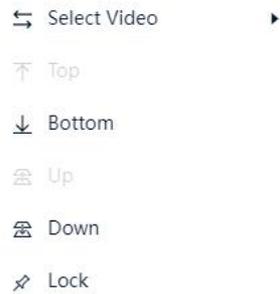
View the input video source information of the current device in the **Input List** on the left side of the **Canvas View**.

- In the **Input List**, each input of the current device is displayed. The indicator will show  (green light) when there is a signal input.



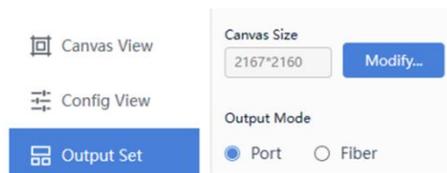
Click the input in the list and drag it to the canvas view area on the right, then a signal source window will be generated automatically.

- Right click the input window to select video, set layer position and window size as needed in the pop-up menu.



3.4 Set Output Window

Click **Output Set** to modify the canvas, select the output mode, set the port/Fiber port, and perform other operations.



3.5 Input Port Settings

Enter the **Device View** and select the input port to set the **Input Format**, **EDID** and **Cropping**.

Input Format (HDMI2)	>
EDID Settings	>
Cropping	>

3.6 Overall Settings

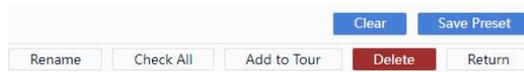
Enter the **Device View** and select the whole device (click on non-input and output positions) to set up the **Syn Signal**, **Test Mode**, **Precise Color Management**, **3D** (optional), **Audio**, and **Other Settings** for the whole device output.

Sync Signal Settings	>
Test Mode	>
Precise Color Management	>
3D Settings	>
Audio Settings	>
Other Settings	>

3.7 Preset and Tour

Go to **canvas view** and set the input source, then click **Save Preset**.

- After clicking **Edit**, select the preset you want to add and click **Add to Tour**.



- Set the **Tour Interval** and click **Start**.



3.8 Device Settings

3.8.1 Basic Settings

Select **Basic Settings**, then you can set the **Device Name** and **Device IP**, **Import and Export Device Parameters**, and **Restore Factory settings**.

3.8.2 Device Version

Select the **Version** tab to enter the device program and version page, then you can upgrade Device, Upgrade Font, and Upgrade LOGO.



3.8.3 Encryption and Decryption

Click  to select **Authorization** on the main screen and enter 168.

- Select **Device Settings > Encryption/Decryption** to **Encrypt**, **Decrypt** and **Synchronize Internet Time**.

4 Troubleshooting

Problem	Possible cause	Remedy
No image display on the LED screen.	Poor power contact.	Check the power connector and make sure the good contact.
	Device powered off.	Make sure the POWER button is on.
Poor image quality such as “double image.”	Unqualified HDMI cable.	Replace with high-quality cable.
	HDMI cable is too long.	Lower the signal resolution or shorten the cable.
No image output after signal switching.	No signal source input for the channel after switching.	Check the proper signal input.
	Poor cable contact.	Check the input and output cables and ensure good contact.
Unable to use.	Internal damage of the device.	Technical Support.

Statement

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