Colorlight

X6 / X7

LED Video Controller

Quick Start Guide V1.4

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Cautions

To prevent personal injury and to protect the device from damage, read and follow these safety precautions.

- Do not remove the cover
  To avoid personal injury, do not remove the top cover.
- Only use the power supply and accessories specified by the manufacturer
  The operating voltage of this product is 100V-240V AC. Only use the power cord provided with the product or the power cord that meets the appropriate local rating standards.
- Prevent function interfaces from contact with charged objects
  This is an electric product. The circuit elements may be damaged if the function interfaces contact charged objects.
- Grounding
  To avoid electrical shock, ensure that the product is grounded.
- 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 interfere nce that may cause undesired operation.
- Environmental Condition
  Use only at altitudes not more than 5000m above sea level.
- Avoid Moisture
  This product is not waterproof, so avoid contact with liquid or operating the product in a humid environment.
- Keep the product away from flammable and explosive hazardous substances

Unpacking and Inspection

After unpacking, checking the items according to the packing list in the box. Please contact the salesman in time if you find the accessories are incomplete.

1. Introduction

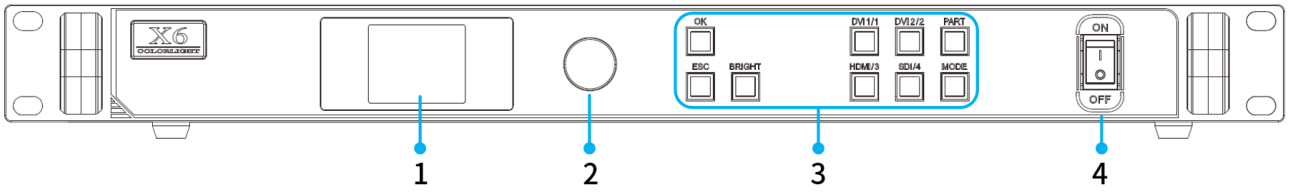
1.1 Overview

X6 / X7 is a professional LED display controller, featuring powerful video signal receiving and processing capacity. It is shipped with various video signal inputs, supports resolution up to 1920×1200 pixels and their seamless switching, allowing user-definable signal images scaling and cropping.

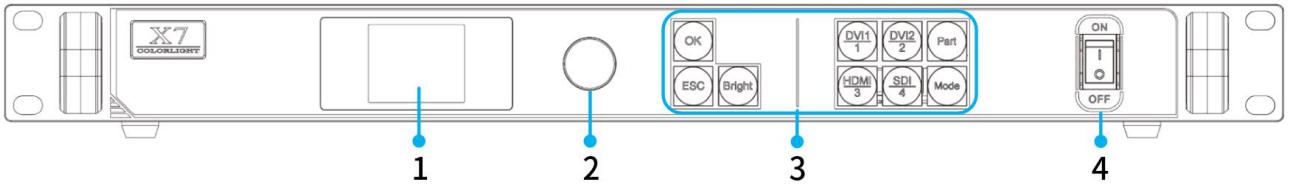
1.2 Hardware

Front panel

1) X6



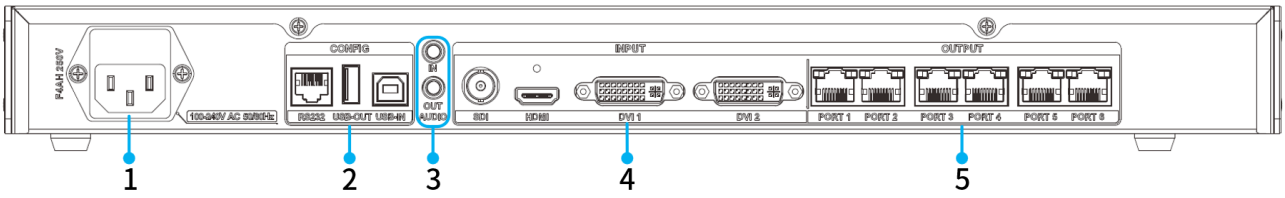
2) X7



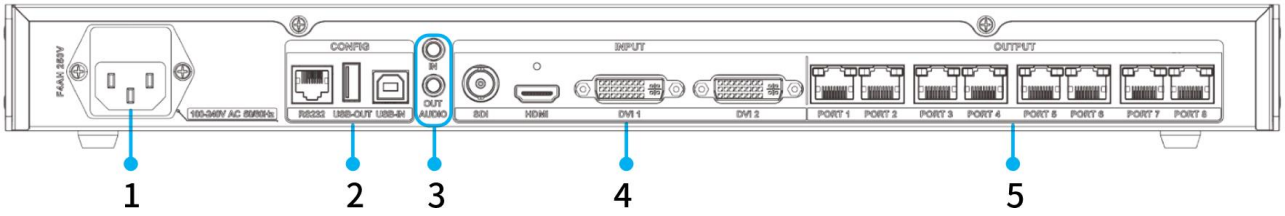
No	Item	Function
1	LCD	Display the operation menu and system information.
2	Knob	Select an item or adjust the parameter, press the knob to confirm your selection or adjustment.
3	Function keys	• **OK**: Confirm button. • **ESC**: Exit the current operation or back to previous menu. • **Bright**: Tune brightness. • **Part**: Crop the picture. • **Mode**: Select a preset. • **1~4**: Quick selection of preset.
4	Selection keys	**DVI 1** / **DVI 2** / **HDMI** / **SDI**: Set input source.
5	Power button	Switch On / Off.

Rear panel

1) X6

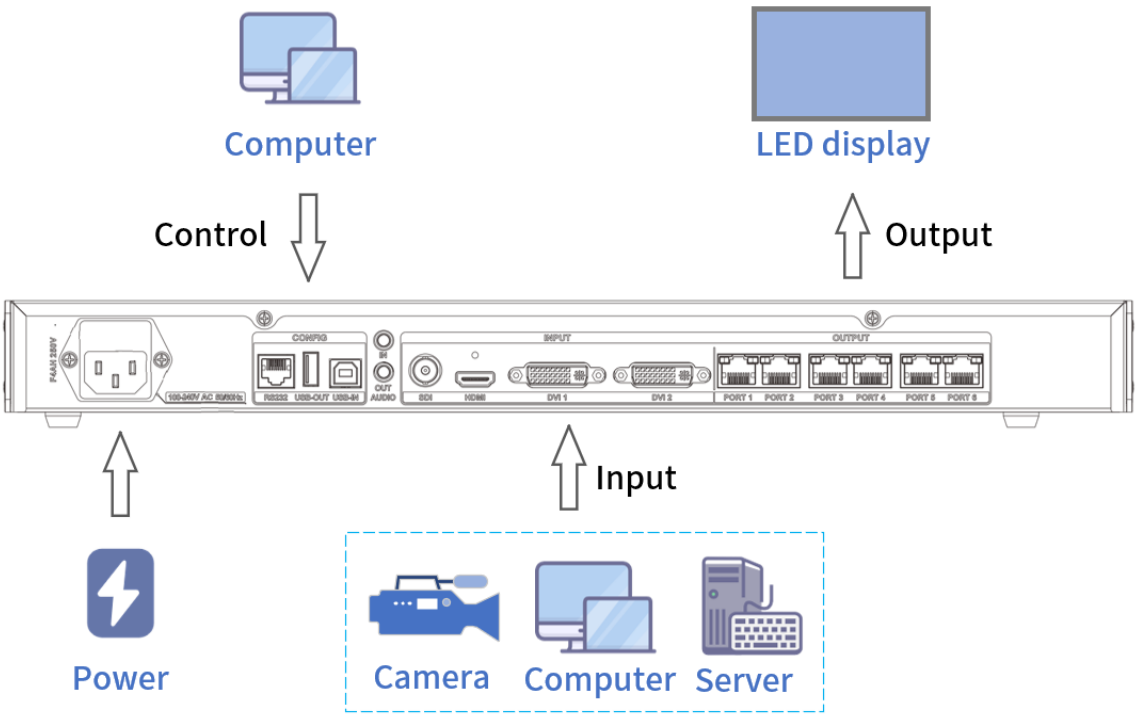


2) X7



Power		
1	MAINS INPUT	AC 100~240V, 50 / 60Hz, connect to AC power supply, built-in fuse.
Control		
2	RS232	RJ11 port(6p6c), connect to third-party device.
	USB IN	USB port input, connect to a PC for debugging or cascading input.
	USB OUT	USB port output, as cascading output.
Audio		
3	AUDIO IN	• Interface type: 3.5mm. • Receive audio signals from computers or other audio sources.
	AUDIO OUT	• Interface type: 3.5mm. • Support HDMI audio decoding and output audio signals to devices such as active speakers.
Input		
4	DVI 1, DVI 2	2× DVI input.
	HDMI	1× HDMI1.4 input.
	SDI	1× SDI input, support 3G-SDI standard and de-interlacing.
Output		
5	PORT 1-6	RJ45, 6× 1G Ethernet ports output.
	PORT 1-8	RJ45, 8× 1G Ethernet ports output.

2.Hardware connection



* This picture takes X6 as an example, the equipment shown in the picture is for reference only.

3. Software operation

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

- Please make sure the LED screens were set up with correct receiver cards parameters.
- Before setting the parameters, ensure that the hardware is connected correctly, which means the sender and all receiver cards can be detected via software.
- Visit www.colorlightinside.com to download and install the LEDVISION software.

3.1 Power on

Press the power switch on the front panel, the device will turn on and enter the self-test status, then all the button lights will light up in sequence until booting successfully. The device will restore to the last saved settings.

3.2 Screen Settings

Run **LEDVISION** software, choose **Control** > **Led Screen Settings** (enter the authorized password **168**.)

- On the **Sending Device** tab page, select **Sender** as sending device and click **Detect Senders**.
- On the **Detect Receivers** page, click **All**.
- Enter the **Receiver Mapping** (**Look From Front**), add corresponding number and size of

receiver cards for each port probed.

- Click a **port index**, and add connectivity relationship of receiver cards, according to its actual panel connections.
- Send the connectivity relationship to the screen, and check its display.
  Save if the display is correct.

  * If the screen doesn't display properly, check send and save the connectivity relationship.

3.2.1 Send Device Settings

The setting of sending device includes three aspects: **Video Source Settings**, **Control Area** and **Others**.

3.2.1.1 Video Source Settings

3.2.1.1.1 Signal Source Selection

The software will acquire automatically current input signals, and display the status in signal table on the **Video Source Settings** page.

- You can select any from the signal inputs (DVI1 / DVI2 / HDMI / SDI), it will be displayed in the canvas view.

3.2.1.1.2 Main Image Output

To change the presentation of the input signal on the LED screen.

- In the canvas view, select the input signal rectangle and input the row starting point (X), column starting point (Y), width and height.
- Manipulate the rectangle with the mouse.

1:1: Pixel to pixel output.

Keep Aspect Ratio: Keep output aspect ratio to the input signal.

Picture Adjustment: Adjust the hue, saturation, brightness compensation and contrast to optimize the display effect.

3.2.1.1.3 Cropping and EDID

Click the cropping icon of a signal to crop its input image.

- Check the Enable box, and manually input the row starting point (X), column starting point (Y), width and height in the Cropping Settings.

To edit the EDID, click of a signal.

- In the pop-up HDMI Resolution Setting window, select a resolution and standard.

3.2.1.1.4 Save and Recall a Preset

To save current settings, click **Save as Preset**, select an item and modify it as desired.
To load a preset, click the Recall from Preset, and select a preset.

3.2.1.2 Control Area

On the **Control Area**, you can manually adjust the control area of Ethernet ports.

3.2.1.3 Others

- **Better Grayscale at Low Brightness**: Improving the display effect at low brightness.
- **Mapping from Sender**: Using the mapping saved in the sender.
- **Device Name**: Naming the sender.
- **Screen Color and Brightness**: Accurately adjusting screen color temperature by entering the value of RGB coordinates and brightness of the screen.
- **Test Mode**: Testing the display of the screen with the built-in test image in the sender.
- **Sender Time**: Synchronizing the sender time with the Internet time.
- **Import / Export Parameters**: Loading the configuration of the sender from a file or saving the current configuration to a file.
- **Restore Factory Setting**: Resetting the sender.

4 Troubleshooting

Phenomenon	Potential Cause	Method
LCD screen does not light up, no response.	Poor power input contact.	Check the power connector and make sure it's making good contact.
	Device is powered off.	Make sure the POWER button is on.
Poor image display such as ghosting.	HDMI cable quality is not up to standard.	Replace with good quality wire.
	HDMI cable is too long.	Reduce signal resolution or shorten HDMI wire length.
No image output after switching signal.	Target input source is not connected.	Make sure the signal source is connected properly.
	Poor wire contacts.	Check input and output wires and ensure good contact.

Unable to use this device.	Internal damage to the host.	Contact our support team.

Statement

This guide is for reference only and does not constitute a promise of any kind. Please refer to the actual products (including but not limited to colour, size, screen display, etc.).

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