

INSTRUCTIONS

X2s/X4s Controller

USER MANUAL

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Safety Information

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.

Electromagnetic Interference

This is a class A product. In a domestic environment, this product may cause radio interference in which case the user may be required to take adequate measures

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.

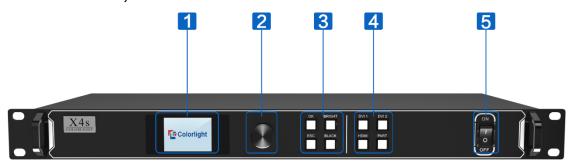
1 Overview

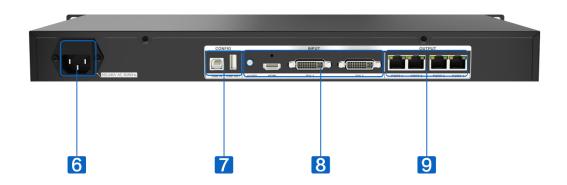
1.1 Overview

X2s/X4s is a professional LED display controller possessing powerful video signal receiving and processing capacity. It supports multiple signal inputs, of which the resolution is up to 1920×1200 pixels. It allows seamless switching between video sources and arbitrary scaling and cropping of signal images.

1.2 Structure

X4s –Front Panel, Back Panel





1	Full-color LCD Display the operation menu
2	Knob In the main interface, press the knob to enter the operation menu. In the menu, you can turn the knob to scroll to an item or adjust parameters, and press the knob to confirm your selection or adjustment.

	Function Keys	
3	OK: Enter key	
	ESC: Exit the current menu or operation	
	BRIGHT: Brightness adjustment. Press the key and rotate the knob to adjust	
	screen brightness, and then press the knob/ OK to confirm the current	
	brightness.	
	BLACK: Blackout	
4	Selection Keys	
	HDMI/DVI1/DVI2: Video source selection	
	PART: Turn on the cropping function. Press the key and the image will be	
	cropped according to the cropping setting in the software. You can cancel	
	cropping by pressing the key for a second time.	
	Power Switch	
5	Switch on or off the power supply	
	Power Connector	
6	AC 100-240V, 50/60Hz	
	USB IN/OUT	
7		
8	USB IN, connecting to PC for debugging	
	USB OUT, for cascading with the next controller	
	AUDIO	
	Audio input	
9	HDMI/DVI1/DVI2	
	Support resolution up to 1920×1200@60Hz	
	Gigabit Ethernet Outputs	
10	X2s—2×RJ45 Gigabit Ethernet ports	
	X4s—4×RJ45 Gigabit Ethernet ports	
Other Specifications		
Operating Temperature: -20°C~60°C		
Anti-static design, low EMI radiation		

2 Operation Instructions

The following are operation instructions taking the X4s controller as an example.

2.1 Signal Connection

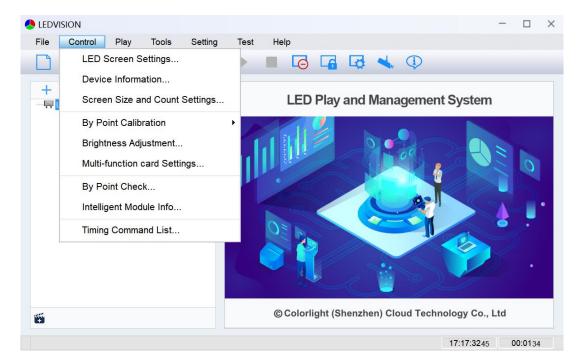


2.2 Power On

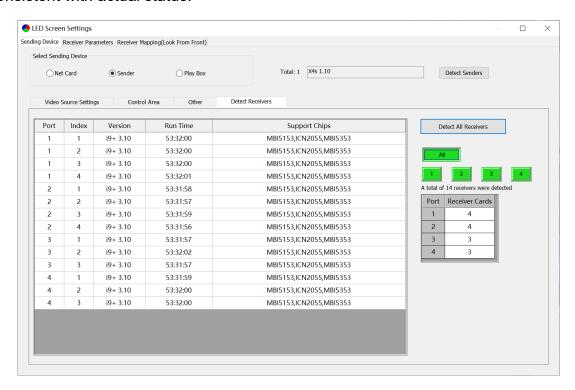
Press the power switch on the front panel, and the device will be turned on and enter the self-test status, and then all the button lights will light up in sequence until booting successfully. The device will display the last saved settings while the device never debugged will display the factory default settings.

2.3 Software Control

1. Open LEDVISION software, click **Control > LED Screen Settings**, or click to enter the **LED Screen Settings** window. The authorized password is "168".



 Click Sending Device > Sender > Detect Senders > Detect Receivers > Detect All Receivers. Please check the corresponding cable if the number of receiver cards are inconsistent with actual status.



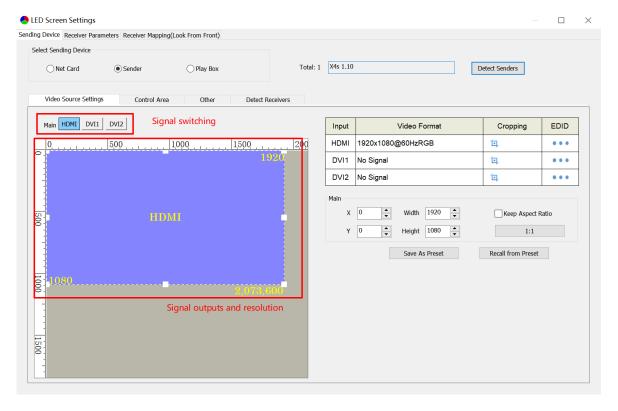
2.3.1 Sending Device Settings

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

1. Video Source Settings

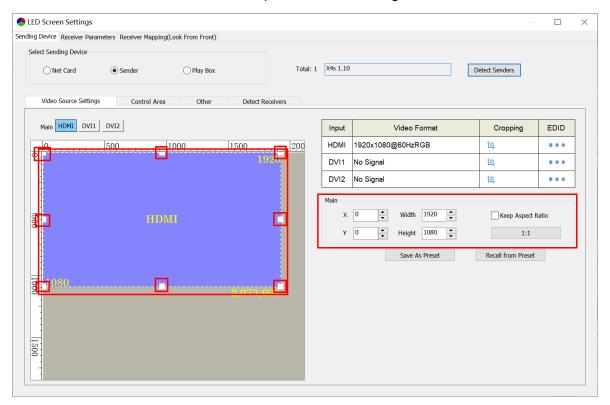
① Signal Source Selection

When the input of signal source of the X4s controller is normal, the information of input signals obtained by the software can be displayed in the upper-right corner of the **Video Source Settings** page. You can select a specified signal source (HDMI/DVI1/DVI2) based on your own need in the upper-left corner of the page, and then the selected signal source will be displayed in the canvas area.



2 Main Image Output

In the canvas area, select the image that you want to scale up or down, and set the row starting point(X), column starting point(Y), width and height in the **Main** area, or drag the frame of the selected window to scale up or down the image.

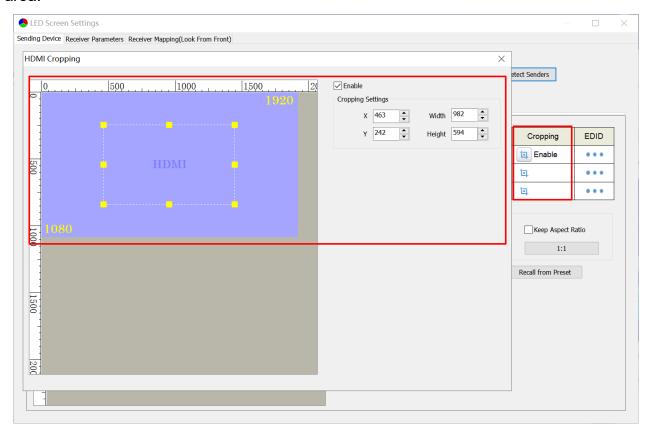


Note: A. **1:1**: Pixel to pixel output, which means output resolution equates to input resolution.

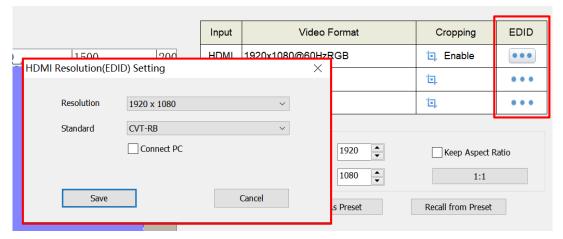
B. **Keep Aspect Ratio**: Select the check box to keep the aspect ratio of output resolution the same as that of input resolution.

③ Cropping and EDID

Select a signal source in the upper-left corner of the page, and then click the cropping icon of the selected signal on the upper-right side of the page to enter the cropping setting window. In the cropping setting window, select the **Enable** check box, and set the row starting point(X), column starting point(Y), width and height in the **Cropping Settings** area.



Click . In the pop-up resolution setting dialog box, click the dropdown icon to select resolution and standard.

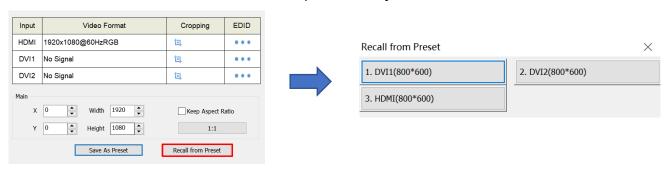


Saving and Recalling Preset Parameters

Click Save as Preset, select an item, modify the name of the preset, and then click OK.

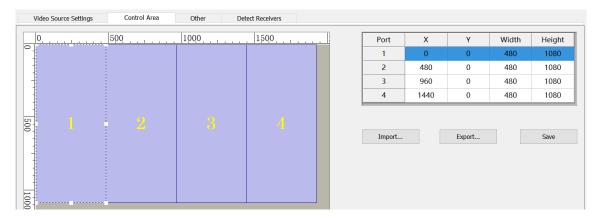


Click **Recall from Preset**, and select the preset that you want to load.



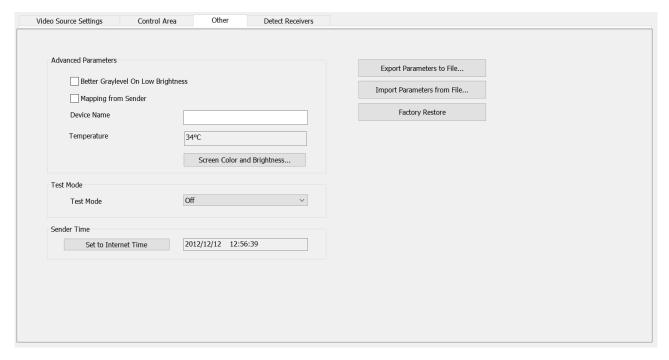
2.Control Area

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



3.Other

- A. **Better Graylevel On Low Brightness**: Improving the display effect at low brightness.
- B. Mapping from Sender: Adopting the mapping saved in the sender
- C. **Device Name**: Entering the name of the sender
- D. **Temperature**: Displaying the operation temperature of the device
- E. **Screen Color and Brightness**: Accurately adjusting screen temperature by entering the value of RGB coordinates and brightness of the screen
- F. **Test Mode**: Testing the display of the screen with the built-in test image in the sender
- G. Sender Time: Synchronizing the sender time with the Internet time
- H. **Import or Export Parameters**: Loading the configuration of the sender from a file or saving the current configuration to a file
- I. Factory Restore: Resetting the sender



3 LCD Operation Instruction

3.1 Operation Instructions (X4s)

Knob/OK:

- In the main interface, press the knob/**OK** to enter the operation menu.
- On the operation menu, rotate the knob to scroll to a menu item, press the knob/OK to select the item or enter its submenu.
- Rotate the knob to adjust parameters after selecting the menu item with the parameter and press the knob/**OK** to save the parameter.

3.2 Main Interface

After starting up the X4s controller, the main interface of the LCD display is as follows:



First row: Company name

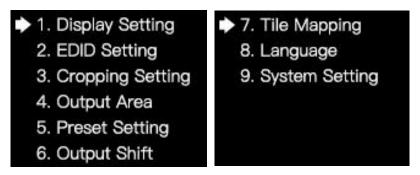
Second row: Self-defined name of the controller

Third row: Image resolution

Fourth row: Brightness, Temperature

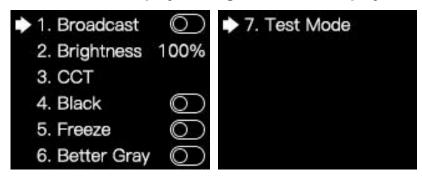
3.3 Menu Operation

Press the knob/OK to enter the operation menu, which includes 9 operation items: Display Setting, EDID Setting, Cropping Setting, Output Area, Preset Setting, Output Shift, Tile Mapping, Language and System Setting.



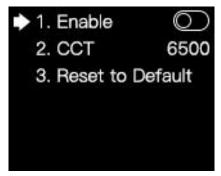
3.3.1 Display Setting

Rotate the knob and select **Display Setting** to enter the **Display Setting** submenu.



- 1. **Broadcast**: Press the knob/**OK** to turn on or off the **Broadcast** function. If the broadcast function is turned on, the setting of the menu items in this submenu (**Brightness**, **CCT**, **Black**, **Freeze**, **Better Gray**, **Test Mode**) will be synchronously sent to the devices cascaded with this controller.
 - 2. Brightness: Rotate the knob to change brightness.

3. **CCT**: Press the knob/**OK** to turn on or off **Enable**. If **Enable** is turned on, you can rotate the knob to change the value of color temperature (range: 2000-10000), or select **Reset to Default** to reset the value of color temperature as 6500.



- 4. **Black**: Press the knob/**OK** to turn on or off the LED screen.
- 5. **Freeze**: Press the Knob/**OK** to freeze or unfreeze the image of the LED screen.
- 6. Better Gray: Press the knob/OK to turn on or off the Better Gray function.
- 7. **Test Mode**: In the **Test Mode** menu, you can rotate the knob and select a test mode.

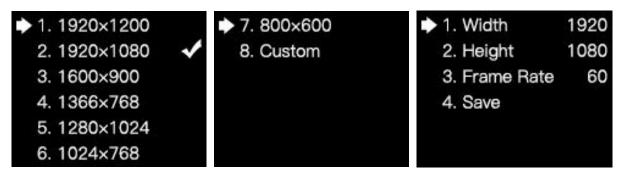


3.3.2 EDID Setting

Rotate the knob and select **EDID Setting** to enter the **EDID Setting** submenu.



In the EDID setting submenu of **HDMI**, **DVI1 or DVI2**, you can rotate the knob and select a conventional resolution to save the selected resolution to the sender, or select **Custom** and set the width, height and frame rate, and then select **Save** to save the setting to the sender.

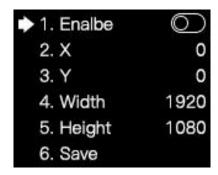


3.3.3 Cropping Setting

Rotate the knob and select Cropping Setting to enter the Cropping Setting submenu.

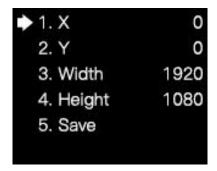


In the cropping setting submenu of **HDMI**, **DVI1** or **DIVI2**, press the knob/**OK** to turn the cropping function on or off. If **Enable** has been switched on, you can rotate the knob to set the row starting point (**X**), column starting point (**Y**), and the width and height of the input image, and then select **Save**.



3.3.4 Output Area

Rotate the knob and select **Output Area** to enter the **Output Area** submenu, in which you can view and set the row starting point, column starting point, and the width and height of the output image. Finally select **Save**.



3.3.5 Preset Setting

Rotate the knob and select **Preset Setting** to enter the **Preset Setting** submenu.

In the submenu, you can turn the **Broadcast** function on or off; or select **Load Preset** and choose an item to load preset parameters; or select **Save to Preset** to save the parameters of the current image.



3.3.6 Output Shift

Rotate the knob and select **Output Shift** to enter the **Output Shift** submenu.



Output shift contains two selections: **Whole** and **By Port**. On the submenu of **Whole**, you can rotate the knob to set the row starting point (**X**) and the column starting point (**Y**) of the whole image and save the setting; On the submenu of **By Port**, you can respectively set the row starting point (**X**) and the column starting point (**Y**) of the image of the 4 Ethernet ports and save the setting.



3.3.7 Tile Mapping

Rotate the knob and select **Tile Mapping** to enter the **Tile Mapping** submenu. In the submenu, press the knob/**OK** to set the sender as the connection source. Then select **Set by Port** to enter the submenu, in which you can choose the Ethernet port from 1 to 4 that needs setting mapping, and set the row offset value(X) and column offset value(Y) of the port, and the width, height, row number, column number and link type of the corresponding cabinets. Finally select **Save** to save the mapping.



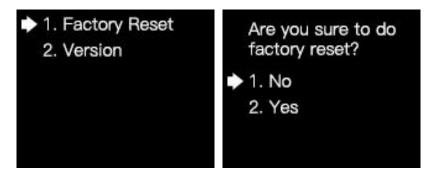
3.3.8 Language

In the Language menu, you can switch languages.



3.3.9 System Setting

In the **System Setting** menu, you can restore factory settings and view the detailed information of the current version.





Visual Future

Colorlight (Shenzhen) Cloud Technology Co., Ltd.

www.colorlightinside.com