Colorlight

INSTRUCTIONS

X2s/X4s

USER MANUAL

Content

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, please 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**
  It is an electric product. The circuit elements may be damaged if the function interfaces contact charged objects, thus affecting the regular use of the product.
- **Grounding**
  To avoid electrical shock, ensure that the product is well grounded.
- **Electromagnetic Interference**
  It is a class A product. In a residential environment, this product may cause radio interference. In such cases, the user may be required to take appropriate measures to address the issue.
- **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, check 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

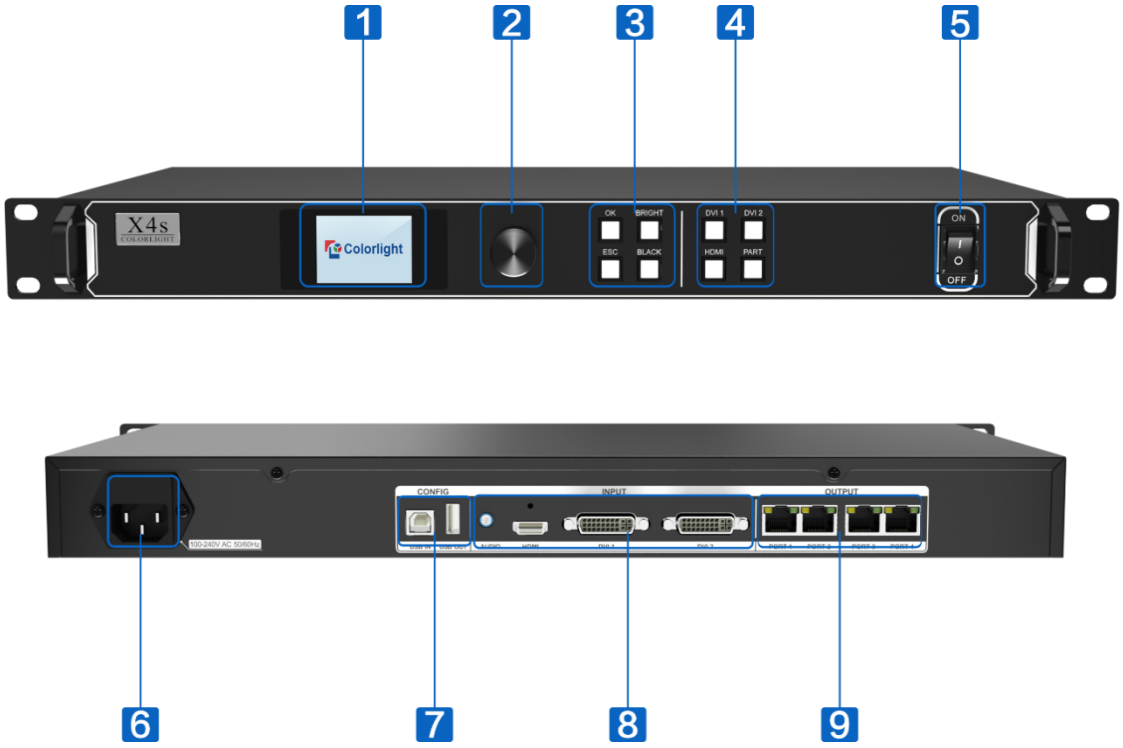
1.1 Overview

X2s/X4s is a professional LED display controller possessing powerful video signal receiving and processing capacity.

- Support multiple signal inputs, of which the resolution is up to 1920×1200 pixels.
- Allow 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.

3	Function Keys 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.
5	Power Switch Switch on or off the power supply
6	Power Interface AC 100-240V, 50/60Hz
7	USB IN/OUT USB IN, connecting to PC for debugging USB OUT, for cascading with the next controller
8	AUDIO Audio input HDMI/DVI1/DVI2 Support resolution up to 1920×1200@60Hz
9	Gigabit Ethernet Outputs 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 Application

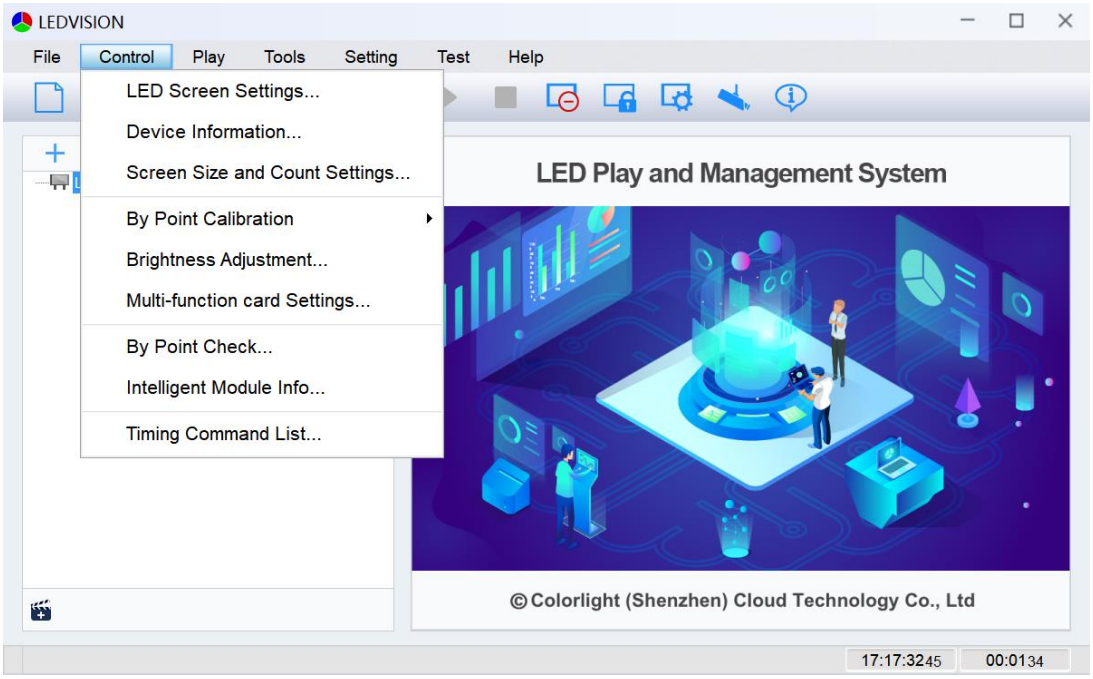
2.2 Power On

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.

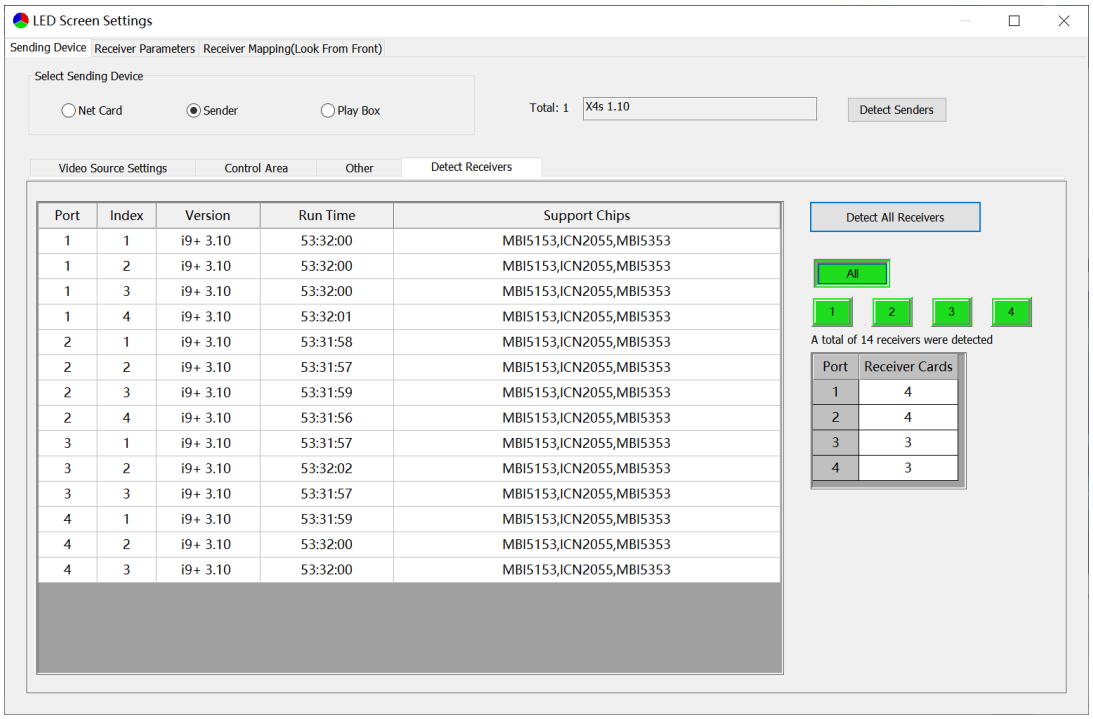
The device will display the last saved settings while the device never debugged will display the factory default settings.

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’.



2. 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

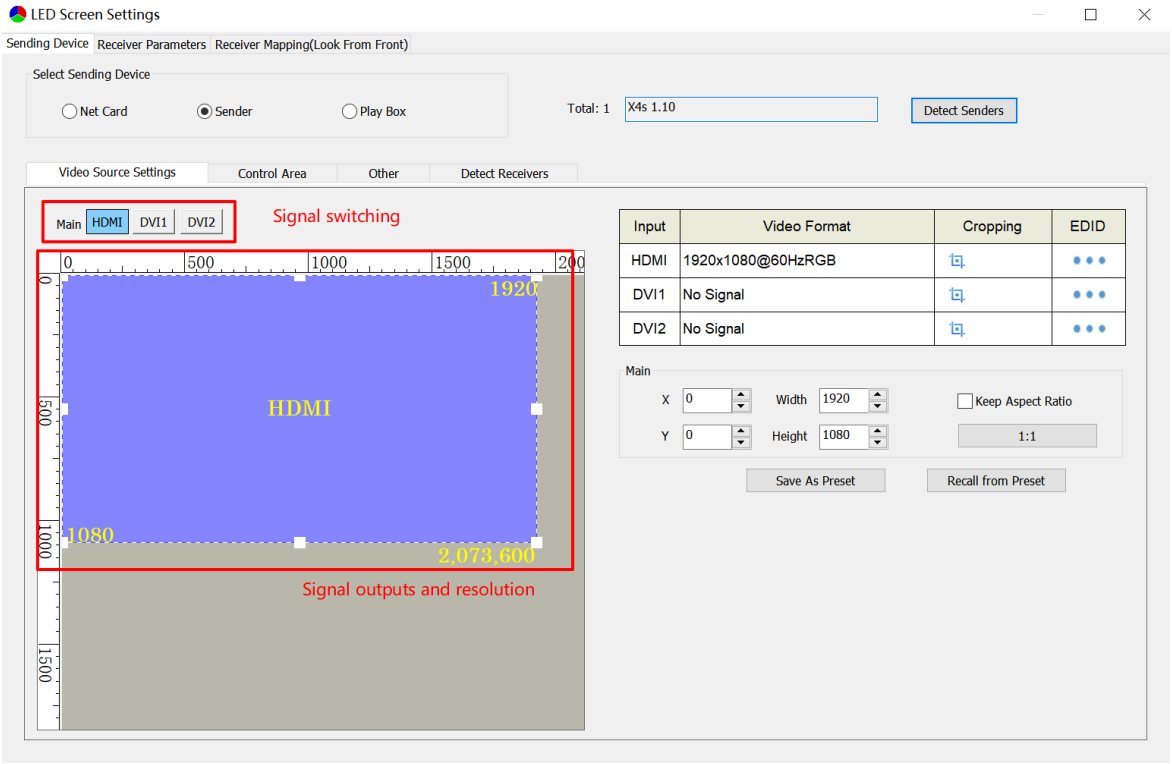
The setting of sending device consists of three parts: **Video Source Settings**, **Control Area** and **Other**.

1.Video Source Settings

① Signal Source Selection

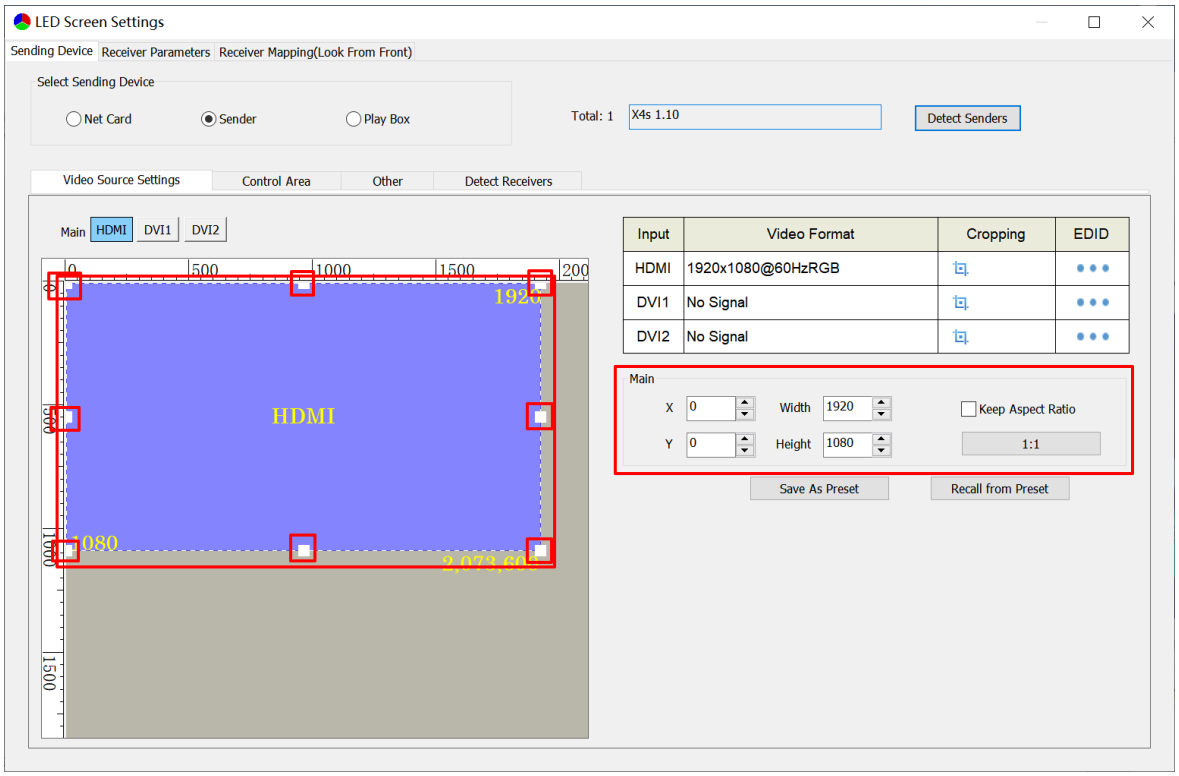
When the input of signal source of the X4s controller is normal, the information of input signals obtained by the software can be displayed in the upper-right corner of the **Video Source Settings** page.

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:

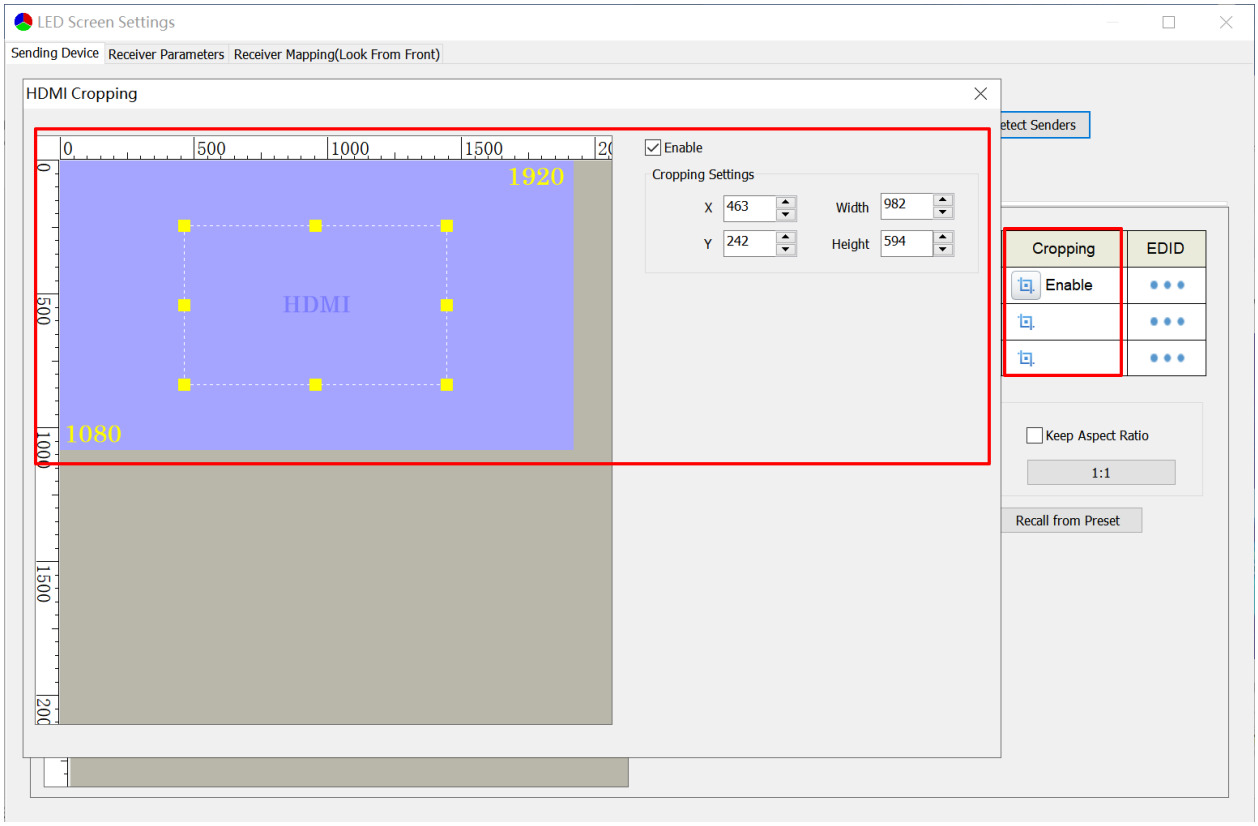
A. **1:1**: Pixel to pixel output, which means output resolution equates to input resolution.

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

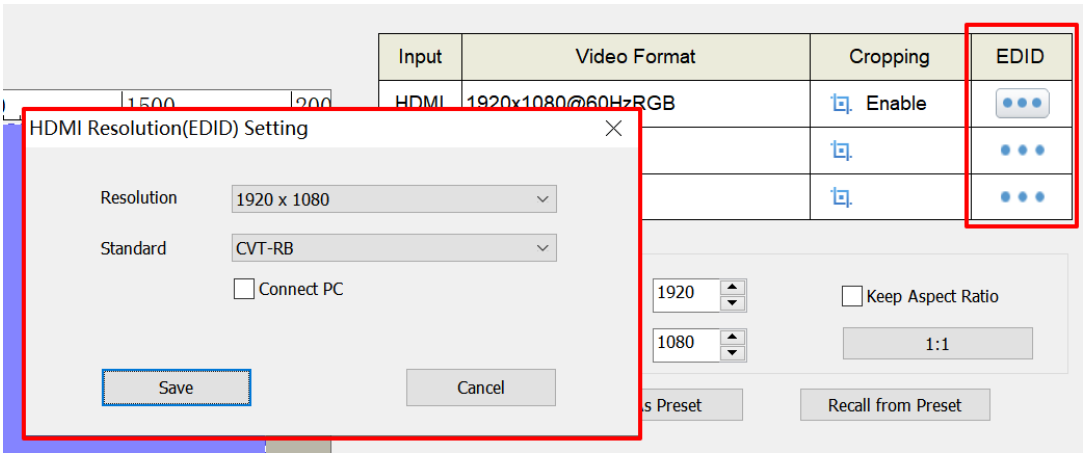
③ Cropping and EDID

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.

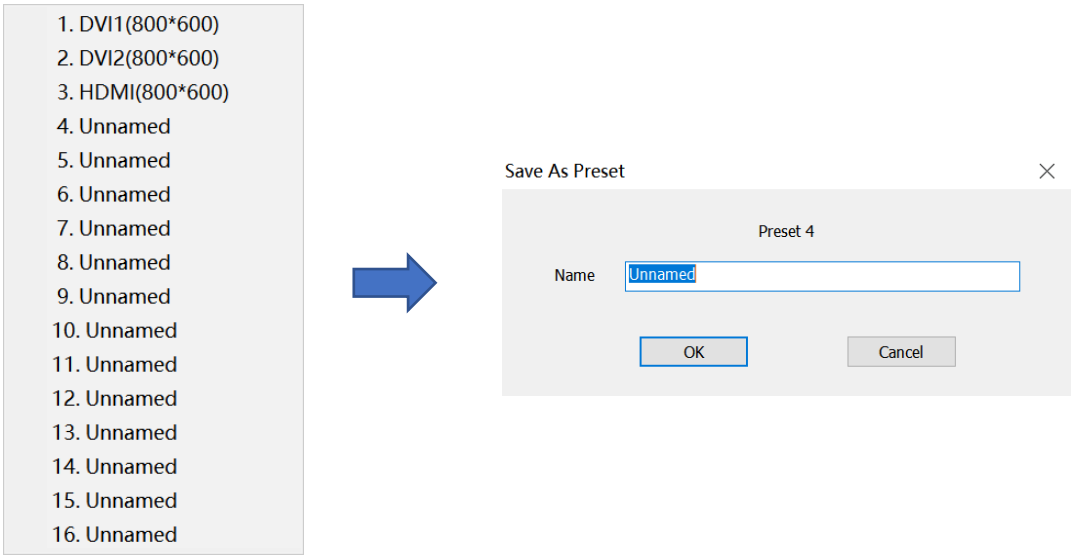


Click , in the pop-up resolution setting dialog box, click the dropdown icon to select resolution and standard.

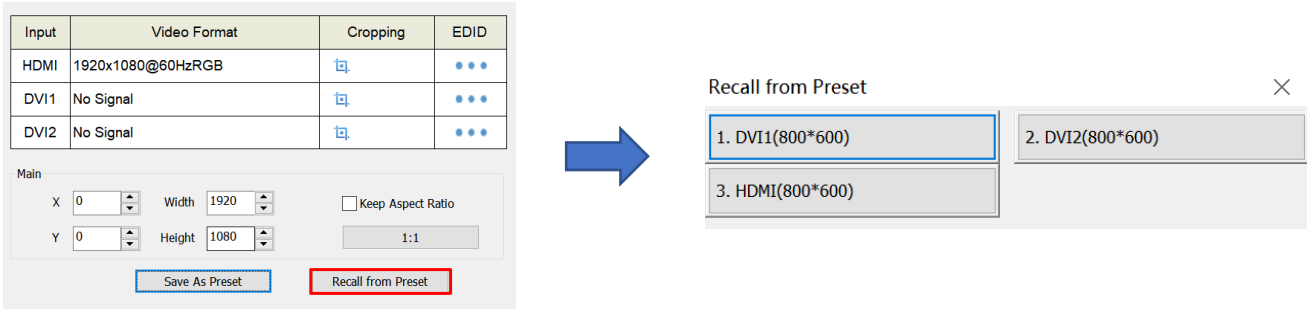


④ Saving and Recalling Preset Parameters

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

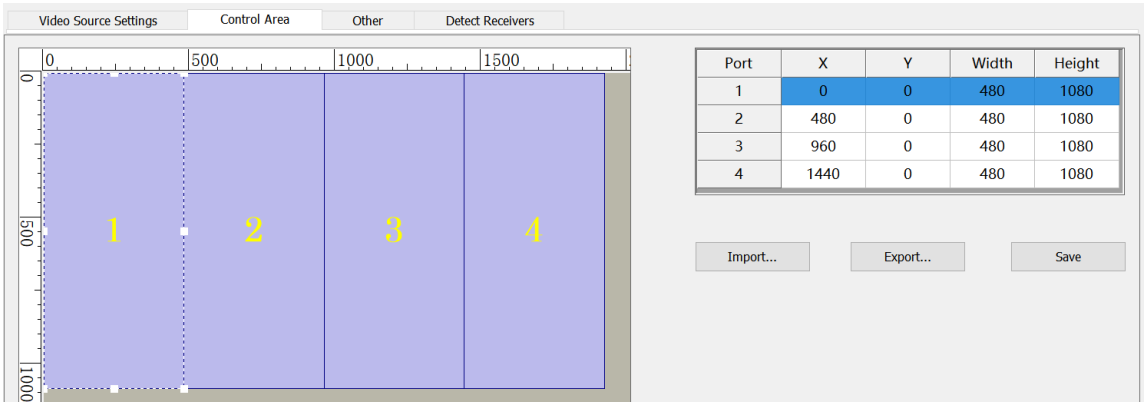


Click **Recall from Preset**, and select the preset that you want to load.



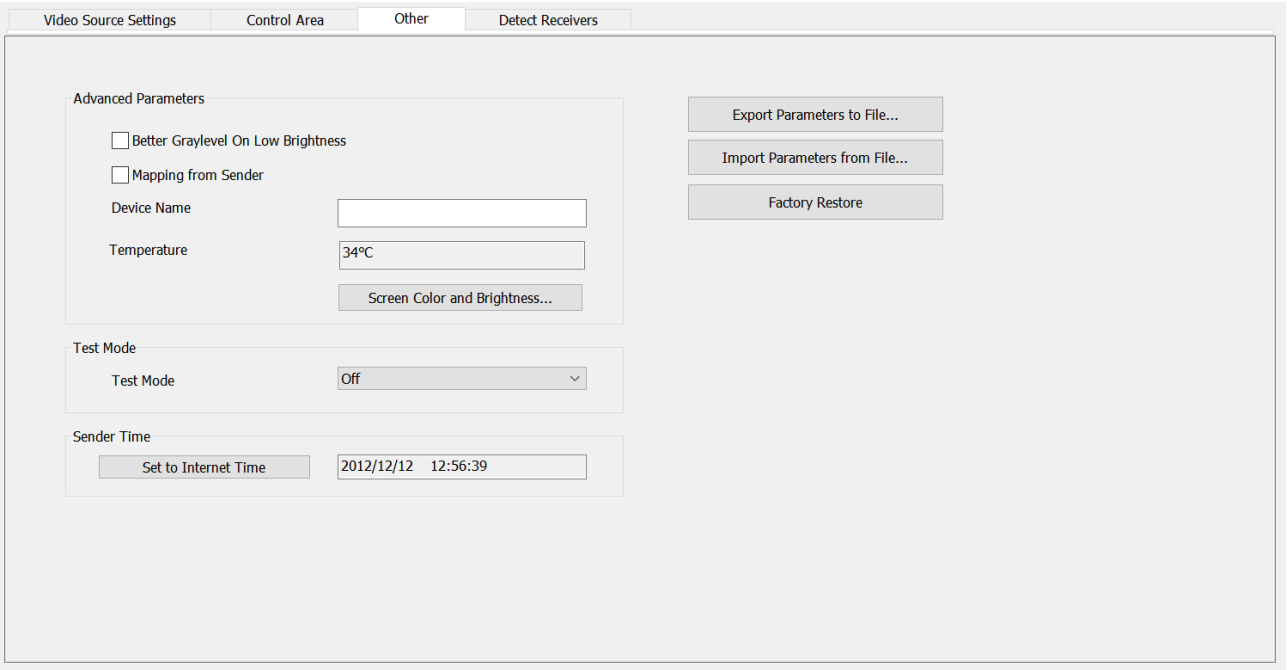
2.Control Area

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



3.Other

A. **Better Graylevel at Low Brightness**: Improving the display effect at low brightness.
B. **Mapping from Sender**: Adopting the mapping saved in the sender .
C. **Device Name**: Naming the current 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

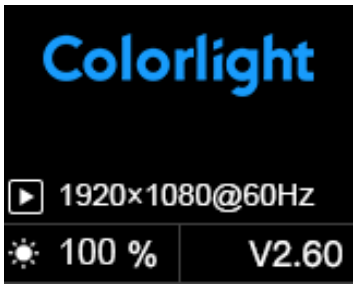
3.1 Operation Instructions（X4s）

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:



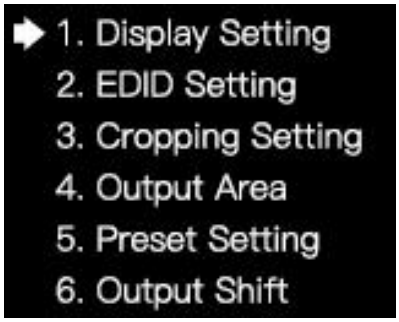
First row: Company name

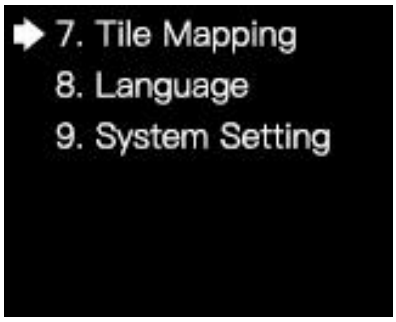
Second row: Image resolution

Third row: Brightness, Version

3.3 Menu Operation

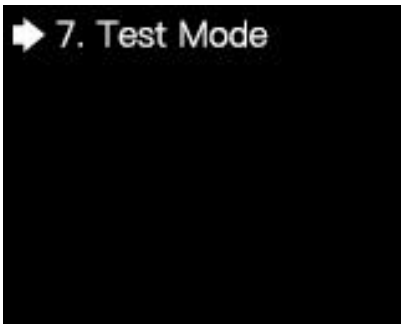
Press the knob/**OK** to enter the operation menu, which includes 9 operation items: **Display Setting**, **EDID Setting**, **Cropping Setting**, **Output Area**, **Preset Setting**, **Output Shift**, **Tile Mapping**, **Language** and **System Setting**.





3.3.1 Display Setting

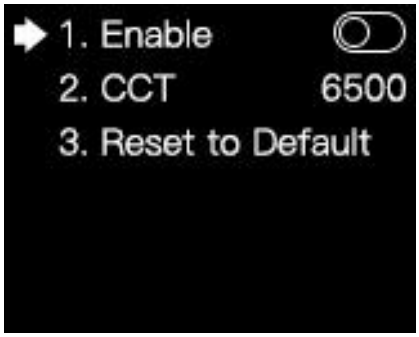
Rotate the knob and select **Display Setting** to enter the **Display Setting** submenu.



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.

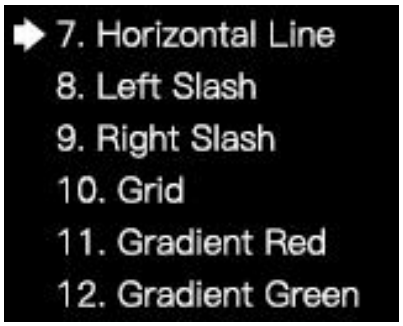


4. **Black**: Press the knob/**OK** to turn on or off the LED screen.

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.

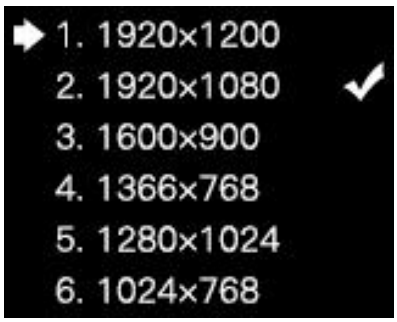
7. **Test Mode**: In the **Test Mode** menu, you can rotate the knob and select a test mode.



3.3.2 EDID Setting

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

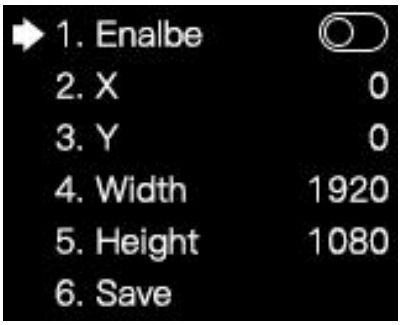
In the EDID setting submenu of **HDMI, DVI1 or DVI2**, you can rotate the knob and select a conventional resolution to save the selected resolution to the sender, or select **Custom** and set the width, height and frame rate, and then select **Save** to save the setting to the sender.



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

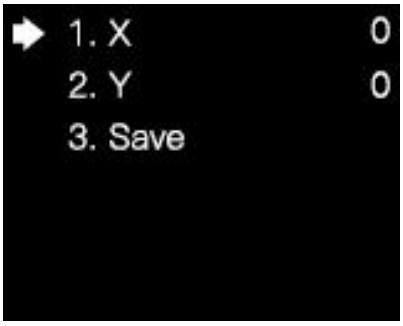
Rotate the knob and select **Preset Setting** to enter the **Preset Setting** submenu.

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

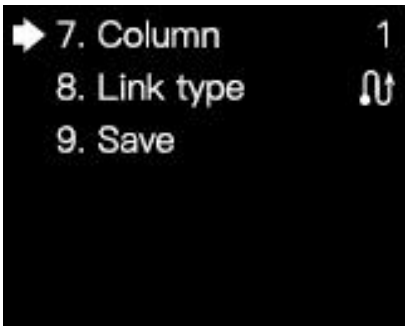
Rotate the knob and select **Output Shift** to enter the **Output Shift** submenu.

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. 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, 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.

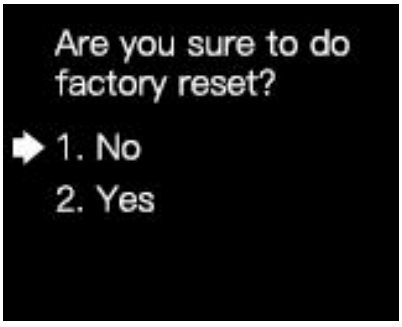


3.3.8 Language

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 Cloud Tech Ltd

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