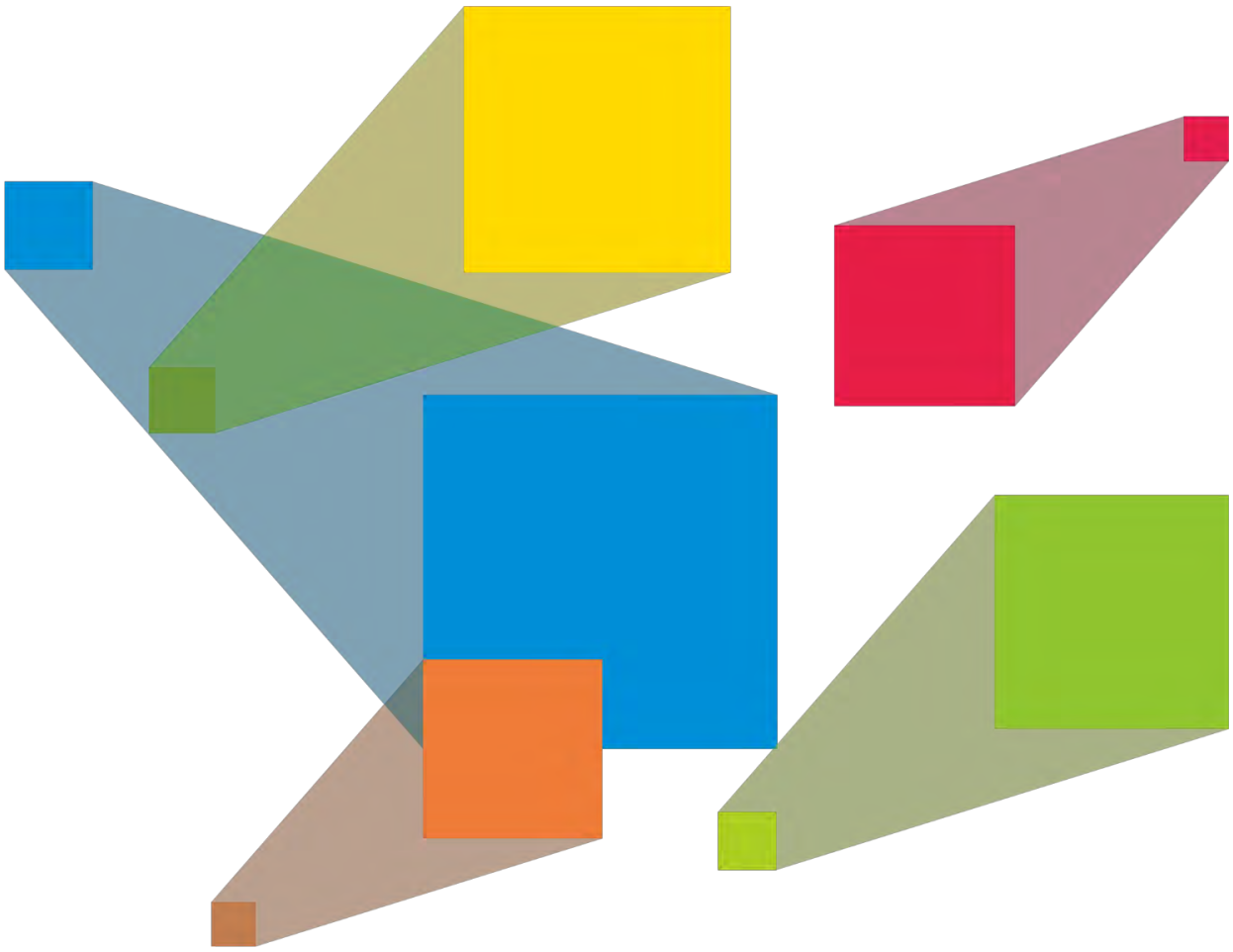
VX Pro Series

All-in-One Controller



User Manual

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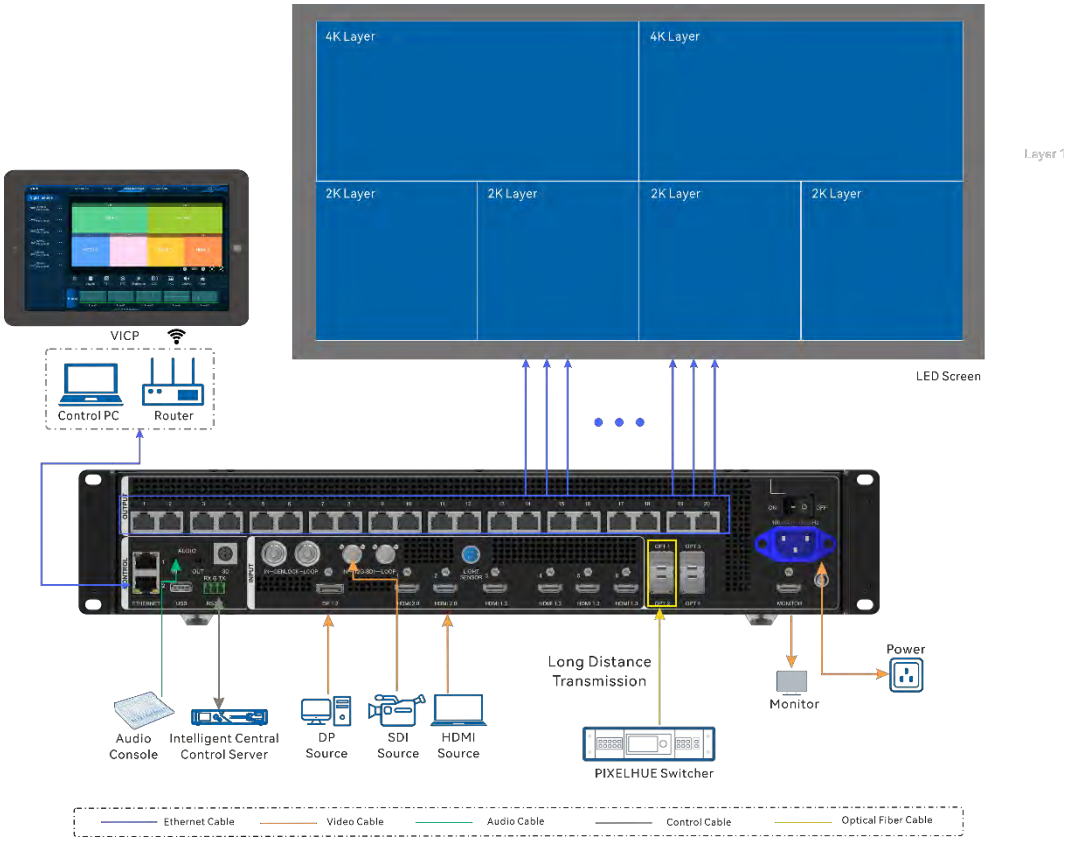
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1 Change History

Document Version	Release Date	Description
V1.0.0	2024-12-16	Update Unico-related information.
V1.0.0	2024-12-10	First release

2 Applications

The application diagram takes the VX2000 Pro as an example.



3 Home Screen

This chapter takes the VX2000 Pro as an example.

3.1 Home Screen

Figure 3-1 Home Screen (VX2000 Pro)



No.	Content	Description
1	VX2000 Pro	The device name
		• Hold down the knob and BACK button simultaneously to lock or unlock the front panel buttons. • After the buttons are locked, all the button operations will not take effect and the icon will appear. • After the buttons are unlocked, the  icon will disappear.
	192.168.0.10	The device IP address
2	• Layer 1 • Layer 2 • Layer 3	Displays the opened layer information, including the layer number, input source, input resolution and frame rate
3	1920×1080@60	Displays the resolution and frame rate of the configured screen.
		The screen brightness

No.	Content		Description
4			The Ethernet port is connected.
			The Ethernet port is not connected.
			• The Ethernet port is connected and serves as the backup output port. • When the backup icon at the bottom flashes, there is data transmission on the port.
5	Synchronization		The sync function is enabled and the synchronization succeeded.
			The sync function is not enabled.
			The sync function is enabled and the synchronization is in progress.
			The sync function is enabled but the synchronization failed.
	Display control		The output is black.
			The test pattern is shown.
			The output image is displayed.
			The output image is frozen.
	Connection method		The device is connected to the control PC via an Ethernet port.
			The device is not connected to the control PC.
			The device is connected to the control PC via a USB cable.
	USB insertion status		USB drive inserted.
			No USB drive inserted.

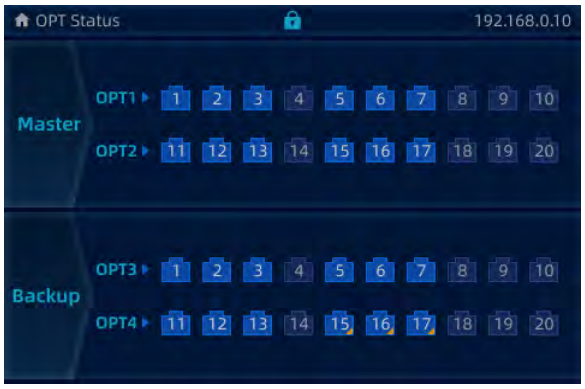
3.2 Second Home Screen

3.2.1 OPT Status Screen

When the device is in **Video Controller** mode, this page may vary according to the device connected to the OPT port, as well as the OPT 3/4 working mode and the OPT loop mode.

- When a fiber converter is connected to OPT 1/OPT 2, the port is used as an output connector. The OPT status page displays the connection and backup statuses of the Ethernet ports on the fiber converter connected to the VX2000 Pro, as shown in Figure 3-2.

Figure 3-2 OPT Status screen



- When a PIXELHUE video processor is connected to OPT 1/OPT 2, the port is used an input connector. The OPT status page displays the resolution and frame rate of the accessed OPT source and the connection and backup statuses of the Ethernet ports on the fiber converter connected to the VX2000 Pro, as shown in Figure 3-3.

Figure 3-3 OPT input



- When OPT loop mode is enabled, the OPT status page is shown as follows.

Figure 3-4 OPT Loop



Note

You can set the working mode of OPT 3 and OPT 4 to **Copy** or **Backup**. The OPT status screen page will display the set working mode.

3.2.2 Fiber Converter Screen

When the device working mode is set to **Fiber Converter**, OPT 1~4 are all used for input and Ethernet ports are used for output. OPT 1 and OPT 2 serve as the primary connectors, while OPT 3 and OPT 4 serve as backup ones. The fiber converter screen page displays the data transmission status of Ethernet ports on the fiber converter.

Figure 3-5 Fiber converter screen



- : There is data transmission on Ethernet port.
- : No data transmission on Ethernet ports

4 Menu Operations

Note

Knob:

- On the home screen, press the knob to enter the operation menu screen.
- On the operation menu screen, rotate the knob to select a menu item and press the knob to confirm the selection or enter the submenu.
- When a menu item with parameters is selected, you can rotate the knob to adjust the parameters. Please note that after the adjustment, you need to press the knob again to confirm the adjustment.

BACK: Exit the current menu or cancel an operation.

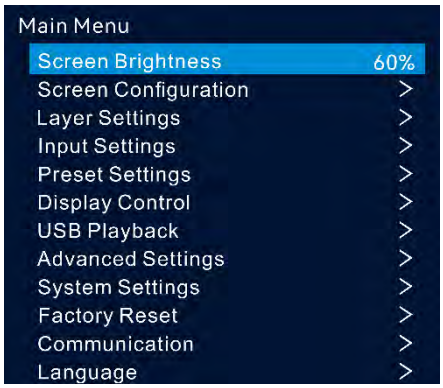
4.1 Screen Brightness

Screen brightness allows you to adjust the LED screen brightness in an eye-friendly way according to the current ambient illuminance. Besides, the brightness parameters can be saved to the receiving cards.

Prerequisites

The device is connected to a screen.

Screen Example



Operating Procedure

Step 1 On the home screen, press the knob to enter the main menu screen.

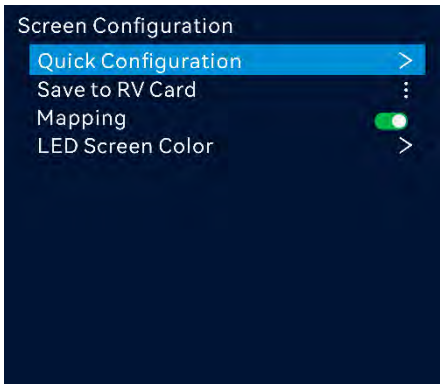
Step 2 Select **Screen Brightness** and press the knob to confirm the selection.

Step 3 Rotate the knob to adjust the brightness value. You can see the adjustment result on the LED screen in real time. Press the knob to apply the brightness you set when you are satisfied with it.

4.2 Screen Configuration

Screen configuration allows you to perform the following operations, including configuring the screen, saving configuration to the receiving card and setting output mapping.

Figure 4-1 Screen configuration



4.2.1 Quick Configuration

When the LED screen is a regular one composed of cabinets from the same batch, you can use the quick configuration function to configure the LED screen.

Prerequisites

- The LED screen must be a regular one.
- The cabinets of the screen must be regular cabinets with the same resolution.
- The following data flow settings are supported. During data flow settings, ensure that each port's physical connection is along the same direction and downward to the next one.
- During data flow settings, ensure that Ethernet Port 1 is at the beginning of the actual physical connection.

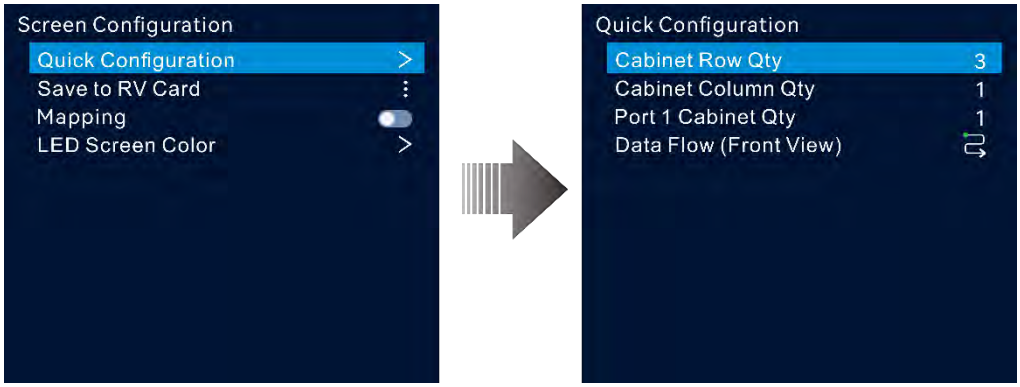
Figure 4-2 Data flow



Notes

- Cabinets loaded by Ethernet port 1 ≥ cabinets loaded by Ethernet port 2 ≥ ... ≥ cabinets loaded by Ethernet port n ("n" represents the maximum port number.)
- The number of cabinets loaded by each Ethernet port must be an integer multiple of **Cabinet Row Qty** or **Cabinet Column Qty** of the screen.
- The total pixels of the cabinets loaded by Ethernet port 1 cannot exceed 650,000.

Screen Example



Operating Procedure

Step 1 On the main menu screen, rotate the knob to go to **Screen Configuration** > **Quick Configuration** to enter the quick configuration screen.

Step 2 Set **Cabinet Row Qty** and **Cabinet Column Qty** according to the cabinets' actual row and column quantities.

Step 3 Rotate the knob to select **Port 1 Cabinet Qty** to set the quantity of the cabinets loaded by Ethernet port 1.

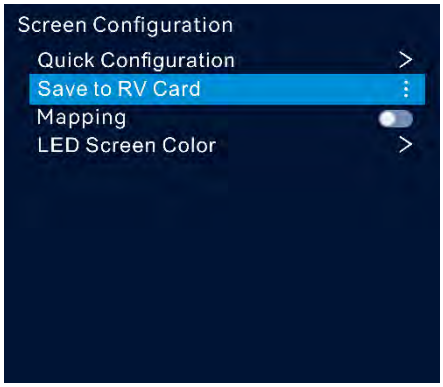
Step 4 Rotate the knob to select **Data Flow (Front View)** and press the knob to confirm. Select a physical connection for the cabinets.

During data flow settings, you can see the result on the LED screen in real-time. If the entire screen displays content correctly, that is, no overlapping or repetition, press the knob to save the settings.

4.2.2 Save to RV Card

After the screen configuration information is sent to the receiving card, you can save the configuration to the card by using this function so that the configuration data will not be lost after a power failure.

Screen Example



Operating Procedure

On the main menu screen, go to **Screen Configuration** > **Save to RV Card** and press the knob to confirm.

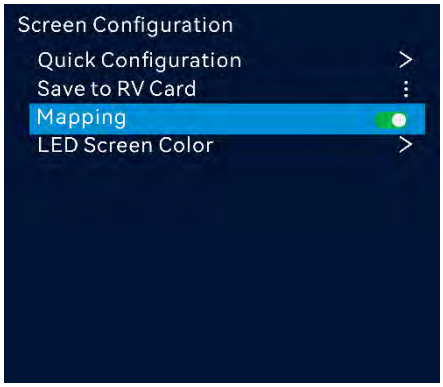
4.2.3 Mapping

Mapping is used to show the relations between the cabinets of the LED screen and the sending devices so that you can view or check the connections between the cabinets.

Notes

The receiving cards that are connected to the device must support the Mapping function. For the supported models of the receiving cards, please visit our official website at www.novastar.tech.

Screen Example



Operating Procedure

On the main menu screen, go to **Screen Configuration** > **Mapping** and turn on the function.

Figure 4-3 Mapping

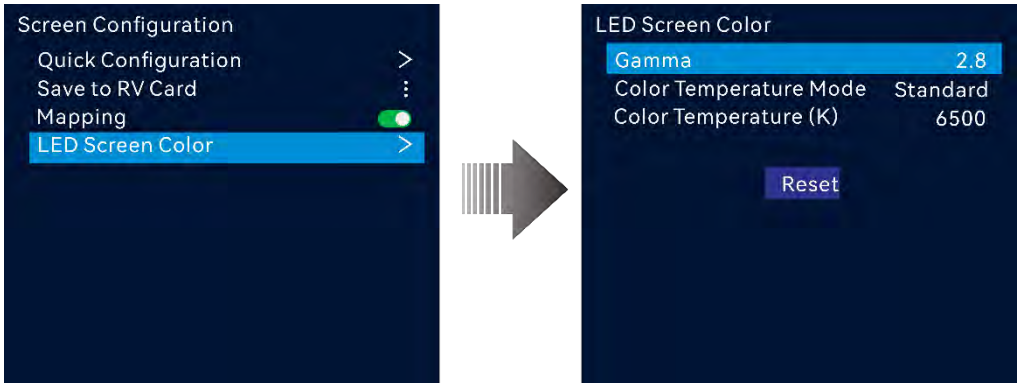


Example: **S:01** stands for the sending card number, **P:01** stands for the Ethernet port number and **#001** stands for the cabinet number.

4.2.4 LED Screen Color

This function allows you to adjust the color temperature and Gamma value of the LED screen to make the images displayed on the screen more clear and vivid.

Screen Example



Operating Procedure

On the main menu screen, go to **Screen Configuration** > **More Settings** to enter the screen color settings screen.

- Select **Gamma** and press the knob to confirm. Rotate the knob to adjust the Gamma value and press the knob to confirm when you are satisfied with it.
- Rotate the knob to select **Color Temperature Mode** and press the knob to confirm. Rotate the knob to adjust the temperature mode, including **Standard**, **Cool**, **Warm** and **Custom**, and then press the knob to confirm when you are satisfied with it.

  When **Custom** is selected, you can customize the color temperature value.

Parameter Descriptions

Parameter	Description
Gamma	Adjust the image distortion degree from the input to output. The greater the value is, the more distorted the image will be. The value ranges from 0.25 to 4.00 and defaults to 2.8.
Color Temperature Mode	Adjust the cool or warm degree of images displayed on the LED screen. When **Custom** is selected, you can customize the color temperature value.

4.3 Layer Settings

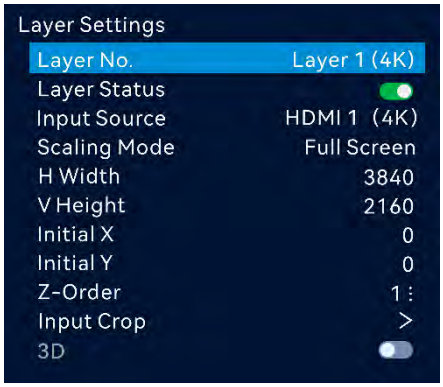
4.3.1 Add Layers

Notes

The maximum number of layers that can be added depends on the connected device.

Device Model	Number of Supported Layers (2K×1K)
VX2000 Pro	12

Screen Example



Operating Procedure

Step 1 On the home screen, press the knob to enter the main menu screen.

Step 2 Rotate the knob to select **Layer Settings** and press the knob to enter the layer settings screen.

Step 3 Rotate the knob to select **Layer No.** and press the knob to display the layer list.

Note

- In the layer list, both the current opened layers and the layers to be opened are displayed.
- Layer name displayed in the layer list: Opened layer: Layer n (capacity), unopened layer: Layer n, and “n” represents the layer number.

Step 4 Rotate the knob to select the desired layer number and press the knob to confirm.

Step 5 Rotate the knob to select **Layer Status** and press the knob to turn on the switch.

Step 6 Rotate the knob to select **Input Source** and select the desired input source for the layer.

Step 7 Rotate the knob to select other layer parameters and set them if needed. The layer parameter descriptions are shown in Figure 4-4.

Figure 4-4 Layer parameter descriptions



Step 8 Rotate the knob to select **Z-Order** and set the layer z-order.

The greater the priority number is, the higher priority the layer has.

4.3.2 Set Layer Properties

Parameter Descriptions

Table 4-1 Layer properties

Menu	Description
Layer No.	The layer number
Layer Status	Open or close the layer Note By default, layer 1 is opened and uses the first input source.
Input source	Select an input source for the current layer. Note Press an input source button in the **SOURCE** area on the device front panel to quickly select an input source for the layer.

Menu	Description
Scaling Mode	The layer supports the following three scaling modes. • Full Screen: The layer image fills the whole screen. • Pixel to Pixel: The layer image is not scaled but displayed in the original size of the input source or the cropped source. • Custom: Customize the layer size and the output image is scaled according to the layer size.
H Width	Set the layer size in the horizontal direction. The width value ranges from 64 to 131070.
V Height	Set the layer size in the vertical direction. The height value ranges from 64 to 131070.
Initial X	Set the horizontal distance between the top left corner of the layer and the top left corner of the screen. The value ranges from -250000 to 248080.
Initial Y	Set the vertical distance between the top left corner of the layer and the top left corner of the screen. The value ranges from -250000 to 248080.
Z-Order	The layer priority • Up: Bring the selected layer forward. • Down: Send the selected layer backward. • Top: Bring the selected layer to the front. • Bottom: Send the selected layer to the back.
Input Crop	Crop the input source image and display the cropped part on full screen. • Status: Turn on or turn off the function. • H Width: The size of the copped part in the horizontal direction • V Height: The size of the copped part in the vertical direction. • Initial X: Set the start position for the cropping in the horizontal direction. The value defaults to 0. • Initial Y: Set the start position for the cropping in the vertical direction. The value defaults to 0.
3D	Turn on or turn off the function. • On:  • Off: 

4.3.3 Input Crop

This function allows you to crop the input source image and make the cropped part display on full screen.

Prerequisites

A fine signal is connected to the input connector.

Notes

- The status and capacity of the cropped source remain consistent with the original one.
- The input cropping and 3D functions cannot be enabled at the same time.

Screen Example



Operating Procedure

Step 1 On the home screen, press the knob to enter the main menu screen.

Step 2 Go to **Layer Settings** > **Input Source** and press the knob to display the input source list.

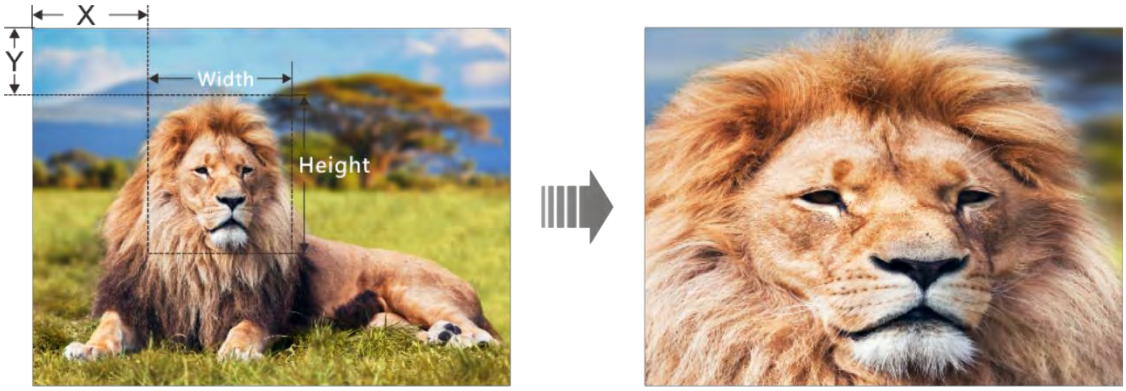
Step 3 Rotate the knob to select the desired input source and press the knob to confirm.

Step 4 Rotate the knob to select **Input Crop** and press the knob to enter the input source cropping screen.

Step 5 Select **Status** and press the knob to turn on the function.

Step 6 Rotate the knob to configure the cropping parameters and set them if needed. The cropping parameter descriptions are shown in Table 4-1 and Figure 4-5.

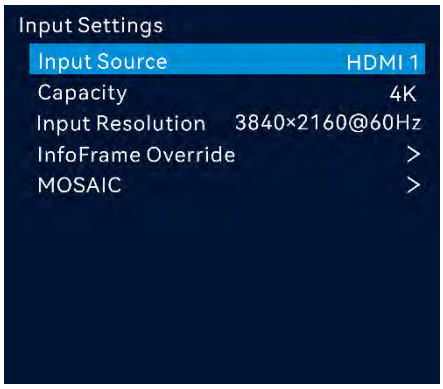
Figure 4-5 Input crop effect



4.4 Input Settings

The input settings allow you to switch the input connector capacity, set input resolution and InfoFrame override parameters, as well as configure mosaic sources.

Figure 4-6 Input settings



4.4.1 Switch Connector Capacity

Switch the input connector capacity to allow the device to calculate the number of layers that can be added based on the capacity.

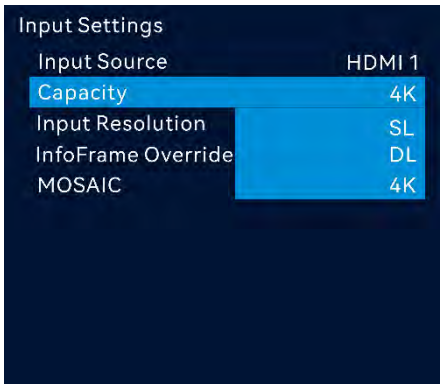
Prerequisites

You have selected an input source.

Notes

Changing the connector capacity of the OPT source is not supported.

Screen Example



Operating Procedure

Step 1 On the input settings screen, rotate the knob to select **Input Source** and press the knob to display the input source list.

Step 2 Rotate the knob to select the desired input source and press the knob to confirm.

Step 3 Rotate the knob to select **Capacity** and press the knob to display the capacity list.

Descriptions of the connector capacity:

- SL: 1920×1080@60Hz
- DL: 3840×1080@60Hz
- 4K: 3840×2160@60Hz

Step 4 Rotate the knob to select the target capacity and press the knob to confirm.

4.4.2 Set Input Resolution

Set the input resolution and frame rate. The options include **Standard** and **Custom**.

Prerequisites

- The front-end device outputs the video source from the graphics card.

- You have selected an HDMI or DP source. SDI does not support this function.

Screen Example

Figure 4-7 Standard resolution

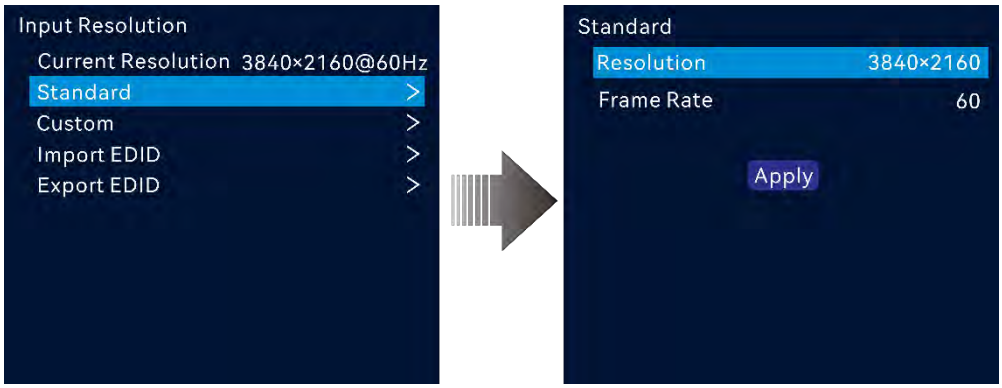
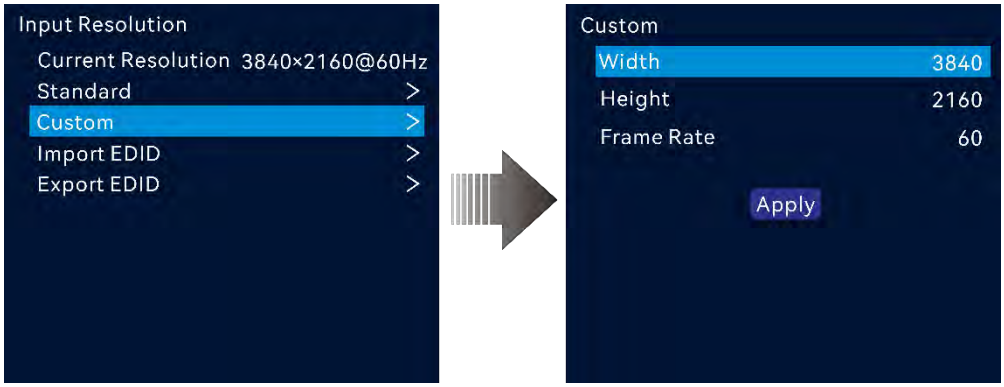


Figure 4-8 Custom resolution



Operating Procedure (Standard Res)

Step 1 On the input settings screen, select the desired input source and press the knob to confirm.

Step 2 On the input resolution settings screen, select **Standard**.

Step 3 Rotate the knob to select **Resolution**, and press the knob to show the resolution list.

Step 4 Rotate the knob to select the desired resolution from the list and then press the knob to confirm.

Step 5 Rotate the knob to select the desired frame rate from the list and then press the knob to confirm.

Step 6 Rotate the knob to select **Apply** and press the knob to complete the standard resolution settings.

Operating Procedure (Custom Res)

Step 1 On the input settings screen, select the desired input source and press the knob to confirm.

Step 2 On the input resolution settings screen, select **Custom**.

Step 3 Rotate the knob to select **Width** and press the knob to confirm. Rotate the knob again to select the desired width and press the knob to confirm.

Step 4 Rotate the knob to select **Height** and press the knob to confirm. Rotate the knob again to select the desired height and press the knob to confirm.

Step 5 Rotate the knob to select **Frame Rate** and press the knob to show the frame list. Rotate the knob again to select the desired frame rate and press the knob to confirm.

Step 6 Rotate the knob to select **Apply** and press the knob to complete the custom resolution settings.

4.4.3 Import and Export EDID

If you encounter a compatibility problem with an input connector, you can resolve it by importing a compatible EDID file into the device. You can also export an EDID file from the device and providing it to other devices or input connectors.

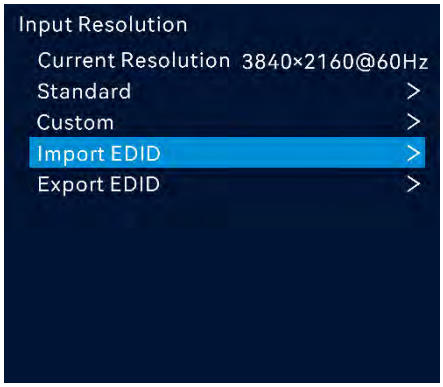
Prerequisites

- Before importing the EDID file, you have saved the file (.bin and .dat) to the root directory in an USB drive and inserted it into the device USB port.
- Before exporting the EDID file, you have inserted an USB drive into the device USB port.
- You have selected an accessed input source. SDI connector does support this function.

Notes

- Each input connector supports importing one EDID file only.
- Once the EDID file is imported, the input connector will recognize and apply the parameters from the file.

Screen Example



Operating Procedure (Import EDID)

Step 1 On the input resolution settings screen, rotate the knob to select **Import EDID** and press the knob to enter the EDID file list screen.

Step 2 Select the desired file and press the knob to confirm

Step 3 In the popup dialog, select **OK** to import the EDID file.

Operating Procedure (Export EDID)

Step 1 On the input resolution settings screen, rotate the knob to select **Export EDID** and press the knob to enter the EDID file exporting screen.

Step 2 Select the file format (.bin or .dat) and press the knob to confirm.

Step 3 Select **Apply** to apply the parameters saved in the file.

Note

If you need to modify the content of an imported EDID file, just modify it and then re-import it to overwrite the original one.

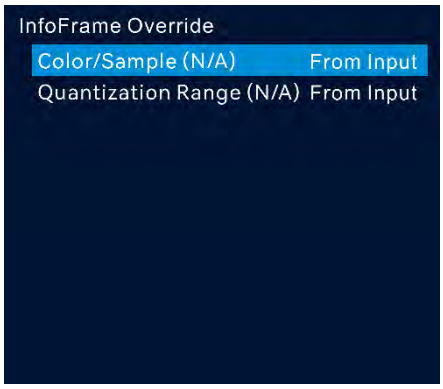
4.4.4 Configure InfoFrame Override Parameters

Set the InfoFrame override parameters for the input source, allowing the device to use them during calculations. This won't alter the input source's original parameter values.

Parameter Description

You have selected an HDMI or DP source. SDI does not support this function.

Screen Example



Operating Procedure

Step 1 On the input settings page, rotate the knob to select **InfoFrame Override** and press the knob to enter the corresponding screen.

Step 2 Rotate the knob to set the color/sample of the input source and press the knob to confirm.

Step 3 Rotate the knob to set the quantization range of the input source and press the knob to confirm.

Parameter Descriptions

Menu	Description
Color/Sample	The sampling format of the input
Quantization Range	The quantization range of the input The supported options include **From Input**, **Limited** and **Full**. Note Select **From Input** and the device will read the attribute values that come with the input source.

4.4.5 Configure Mosaic Sources

Both HDMI and OPT sources support mosaicing.

Notes

- Only the VX2000 Pro supports this function.
- Only the input sources of the same connector type support mosaicing, and the frame rates of sub-source must be the same.

Screen Example



Operating Procedure

Step 1 On the input settings screen, rotate the knob to select **MOSAIC** and press the knob to enter the mosaic source settings screen.

Step 2 Rotate the knob to select **Source Type** and press the knob to confirm.

Step 3 Select the desired mosaic layout.

Step 4 Set **Width** and **Height** for each mosaic area.

- If the input source width or height is less than the width or height value you set, the blank area will be filled with solid black.
- If the input source width or height is larger than the width or height value you set, the input source image will be cropped. The cropping takes the top left corner of the input source image as the reference point and then crops the image according to the set width and height values.
- The total width and height of the mosaic source will be displayed.

Step 5 Rotate the knob to select the mosaic layout area and press the knob to select sub-sources of each mosaic area.

Step 6 Rotate the knob to select **Apply** to make the settings take effect; otherwise, select **Reset** to reset the settings to defaults.

Parameter Descriptions

Parameter	Description
Source type	The connector type of the sub sources The supported options include **HDMI 2.0**, **HDMI 1.3** or **OPT**. Note Each OPT port supports transmission of 2x SL or 1x DL source.
Layout	The mosaic layout The layout varies depending on the source type. • For **HDMI 2.0**, three layouts are supported: " ", "" and "" • For **HDMI 1.3**, eight layouts are supported: "", "", "", "", "", "", "" and "" • For **OPT**, eight layouts are supported: "", "", "", "", "", "", "" and ""
Width	The width of the individual mosaic area Default value: 1920 pixels
Height	The height of the individual mosaic area Default value: 1080 pixels
Mosaic Size	The size of the mosaic source • Max. width: 8192 pixels • Max. height: 8192 pixels • Max. width and height: 4096×2160

Note

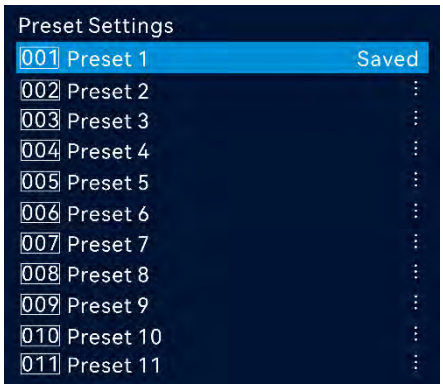
The mosaic source capacity depends on the max capacity and number of sub-sources, that is, the capacity of a mosaic source composed of two DL sub-sources or SL+4K sub-sources is 4K.

4.5 Preset Settings

A preset is a set of parameters that save the layer and layer-related information. The VX Pro series supports 256 user-defined presets. After a preset is saved, you can load the preset simply by its name. The preset operations include **Save**, **Load** and **Delete**.

Screen Example

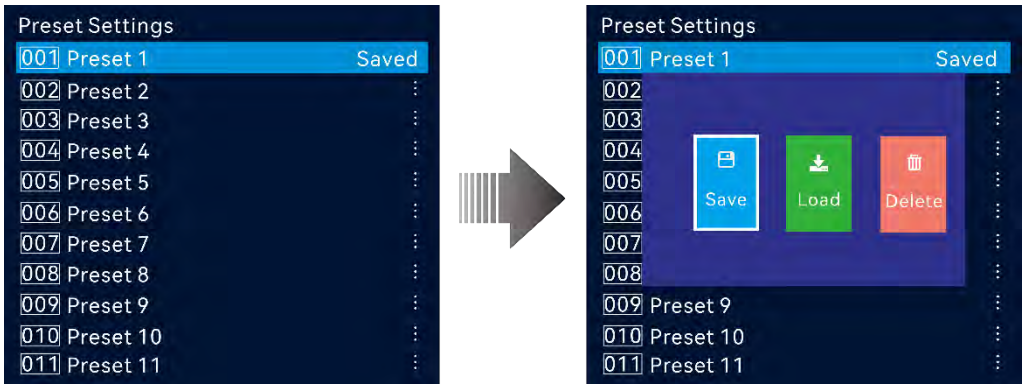
Figure 4-9 Preset settings



4.5.1 Save Presets

After the layer settings, you can save those settings as a preset.

Screen Example



Operating Procedure

Step 1 On the preset settings screen, rotate the knob to select a preset.

Step 2 Press the knob to open the preset operations window.

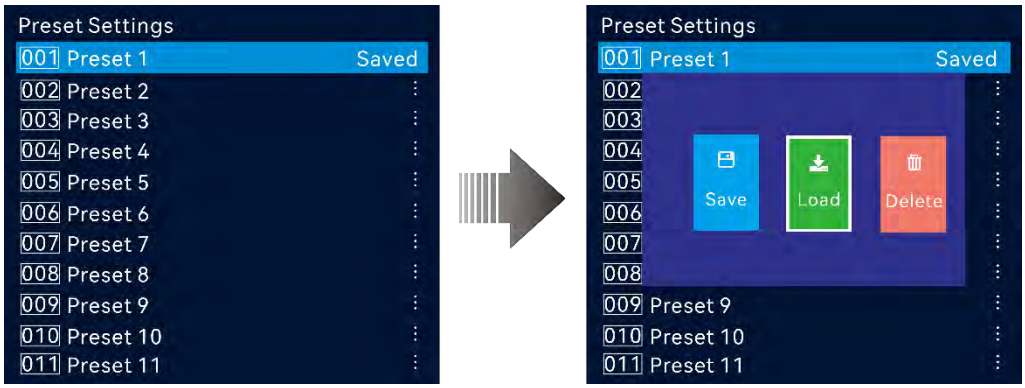
Step 3 Rotate the knob to select Save and press the knob to save the layer settings to this preset.

After a preset is saved, the preset status on the right side changes to **Saved**.

4.5.2 Load Presets

This operation allows you to send a saved preset to an LED screen.

Screen Example



Operating Procedure

Step 1 On the preset settings screen, rotate the knob to select a saved preset.

Step 2 Press the knob to open the preset operations window.

Step 3 Rotate the knob to select **Load** and press the knob to load the preset.

After a preset is loaded, the preset status on the right side changes to **In Use**.

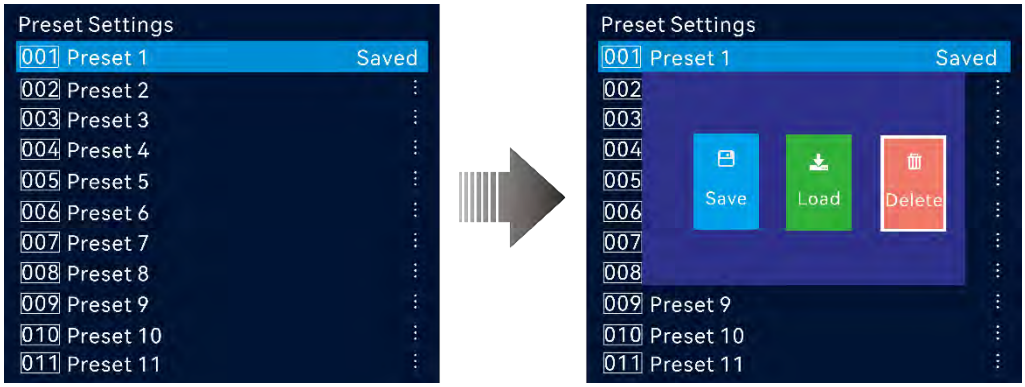
Note

Press the PRESET button on the front panel to quickly enter the preset setting screen. You can press a number button to quickly load the corresponding preset.

4.5.3 Delete Presets

This operation allows you to clear the data saved in the preset. The preset name will not be cleared.

Screen Example



Operating Procedure

Step 1 On the preset settings screen, rotate the knob to select a saved preset.

Step 2 Press the knob to open the preset operations window.

Step 3 Rotate the knob to select **Delete** and press the knob to open a confirmation window.

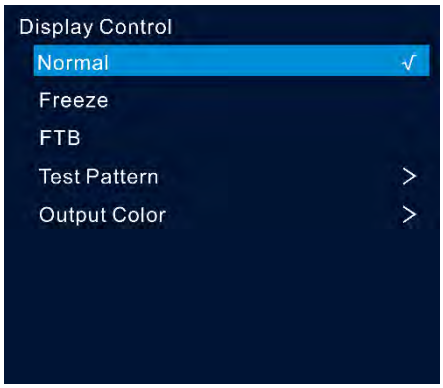
Step 4 Rotate the knob to select **Yes** and press the knob to delete the preset.

4.6 Display Control

Notes

If the freeze or FTB function is turned on, the test pattern function is unavailable.

Screen Example



Parameter Descriptions

Menu	Sub-Menu	Description
Normal	-	Display the content of the current input source.
Freeze	-	Freeze the current frame of the output image.
FTB	-	Make the output image fade to black.
Test Pattern	Pure Color	The pure color test pattern
	Gradient	The gradient test pattern
	Grid	The grid test pattern
	Brightness	The brightness of the test pattern
	Spacing Level	Set the spacing between different color areas. If a multi-color test pattern is selected, this parameter is available.
	Spacing (px)	Set the spacing between the lines. If a grid test pattern is selected, this parameter is available.
	Line Width	Set the width of the grid lines. If a grid test pattern is selected, this parameter is available.
	Speed	Set the moving speed of the lines. If a grid test pattern is selected, this parameter is available.
Output Color	Brightness	The shading of lights in the image Adjust the brightness value either as a whole or individually adjust the RGB components.
	Contrast	The ratio of the luminance of the brightest color to that of the darkest color Adjust the contrast value either as a whole or individually adjust the RGB components.
	Saturation	The color purity of the image The higher the value, the more vivid the color.
	Hue	The relative degree of how bright or dark the image is