

# **User Manual**

v1.0.1

Contents

Contents..... 2

Overview ..... 3

Features ..... 3

Package Contents..... 3

Specifications ..... 4

Panel Description..... 5

Installation..... 6

Wiring Diagram..... 7

Auto Switching ..... 8

OSD..... 9

Control of the Video Wall Processor ..... 10

## Overview

This product is an expandable video wall processor. It is mainly suitable for application scenarios such as advertising display, digital signage, digital menus, etc., aiming to provide customers with better video enjoyment. It is equipped with 2 HDMI IN ports, with the highest input resolution up to 4K@60Hz 4:4:4, and supports HDCP 2.3, EDID selection and other functions. 6 HDMI OUT ports allow users to create video wall layout modes including quick video wall mode and standard video wall mode, which are convenient for users to plug and play, and each HDMI OUT port supports independent auto scaler function to enable best quality output. At the same time, the device is also equipped with 1 Loop port for video wall cascading. Multiple control options including front panel buttons, RS232 and LAN (telnet & web UI) control enable the unit can meet different requirements.

## Features

- Supports quick video wall mode, including 1x4, 2x2, 3x2, 2x3, 4x1, 1x4 (90°), and 1x3 (60°) (all video wall layout modes are row x column), and select source between two HDMI inputs.
- Supports standard video wall mode, in which users can set M (row:  $M \leq 6$ ) x N (column:  $N \leq 6$ )  $\leq 6$  x cascade number (up to 6) video wall layout mode, and set rotation of each display.
- Supports HDMI 2.0 with 4K@60Hz 4:4:4 8bit, especially 3840 x 600, 5400x1920 wide-screen resolution.
- HDCP 2.3 and backwards compatible.
- EDID management including EDID presets, EDID copy and customized EDID.
- Each of the six HDMI OUT port supports an independent auto scaler for outputting the best quality video.
- One HDMI loop out for video-wall cascading connection.
- Supports auto switching between two HDMI inputs.
- Supports OSD function to display IP address, HDMI output, and cascading information (in cascading connection mode only).
- An analog audio output port outputs de-embedded audio from selected input, and can set audio output delay time.
- Supports power on/off the displays automatically via CEC function.
- Supports multiple control options, including front panel buttons, RS232 and LAN (telnet & web UI).

## Package Contents

- 1 x Video Wall Processor
- 1 x DC 20V Power Adapter
- 1 x AC Power Cord with US Pins
- 1 x AC Power Cord with EU Pins
- 1 x AC Power Cord with AU Pins
- 1 x AC Power Cord with UK Pins
- 1 x Phoenix Male Connector (3.5mm, 3 Pins)
- 1 x Phoenix Male Connector (3.5mm, 5 Pins)
- 2 x Mounting Brackets (with Screws)
- 1 x Quick Start Guide

## Specifications

### Technical

<b>Input/Output Ports</b>	2 x HDMI IN, 7 x HDMI OUT (including 1 HDMI loop out port), 1 x AUDIO OUT (3.5mm phoenix connector, 5 Pins), 1 x RS232, 1 x LAN, 1 x DC 20V
<b>Input/Output Video Type</b>	Max: 4K@60Hz 4:4:4 8bit, HDCP 2.3
<b>Input/Output Resolution Supported</b>	<p>Input Resolution:</p> <p>Wide-screen resolution: 5400x1920P<sup>5</sup>; 800 x 600<sup>8</sup>, 1024 x 768<sup>8</sup>, 1280x720P<sup>6,7,8</sup>, 1280 x 768<sup>8</sup>, 1280 x 800<sup>8</sup>, 1280 x 960<sup>8</sup>, 1280 x 1024<sup>8</sup>, 1360 x 768<sup>8</sup>, 1366 x 768<sup>8</sup>, 1440 x 900<sup>8</sup>, 1600 x 900<sup>8</sup>, 1600 x 1200<sup>8</sup>, 1680 x 1050<sup>8</sup>, 1920x1080P<sup>6,7,8</sup>, 1920 x 1200<sup>8</sup>, 3840x2160P<sup>2,3,5,8</sup>, 3840 x 600<sup>8</sup>, 4096x2160P<sup>2,3,5,8</sup></p> <p>Output Resolution:</p> <p>Auto Scaler: According to the EDID of the display to output the recommended resolution.</p> <p>Manual: 1280x720P<sup>6</sup>, 1280x720P<sup>8</sup>, 1920x1080<sup>6</sup>, 1920x1080<sup>8</sup>, 3840x2160<sup>5</sup>, 3840x2160<sup>8</sup>, 4096x2160<sup>5</sup>, 4096x2160<sup>8</sup></p> <p>2 = at 24 Hz, 3 = at 25 Hz, 5 = at 30 Hz, 6 = at 50 Hz, 7 = at 59.94 Hz, 8 = 60 Hz</p>
<b>Audio Format</b>	HDMI IN/OUT: PCM 2.0 AUDIO OUT: Stereo
<b>Maximum Data Rate</b>	18Gbps
<b>Control Method</b>	Front panel buttons, RS232, LAN (Telnet API & Web UI)

### General

<b>Operating Temperature/RH</b>	0°C ~ 45°C (32°F ~ 113°F)
<b>Storage Temperature/RH</b>	-20°C ~ 70°C (-4°F ~ 158°F)
<b>Humidity</b>	10% ~ 90%, non-condensing
<b>ESD Protection</b>	Human-body model: ±8kV (air-gap discharge)/ ±4kV (contact discharge)
<b>Power Supply</b>	DC 20V, 3A
<b>Power Consumption (max)</b>	35.98W
<b>Dimensions (W x H x D)</b>	320mm x 27mm x 180mm/12.60" x 1.06" x 7.09" (Without mounting brackets)
<b>Weight</b>	1.65kg/3.64lbs

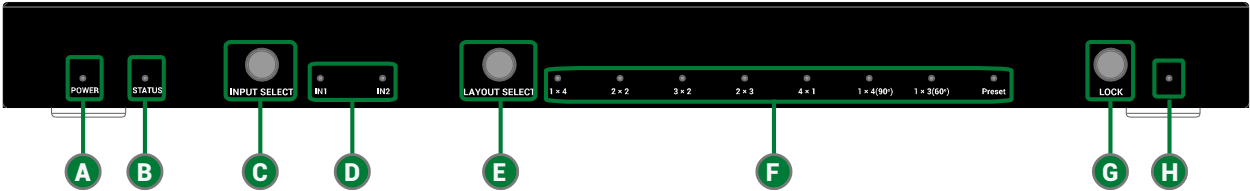
### Transmission Distance

<b>HDMI</b>	Input: 15m/50ft Output: 10m/33ft	1080P@60Hz 24bpp
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	Input/Output: 10m/33ft	4K@30Hz 4:4:4 24bpp 4K@60Hz 4:2:0 24bpp
	Input/Output: 5m/16ft	4K@60Hz 4:4:4 24bpp

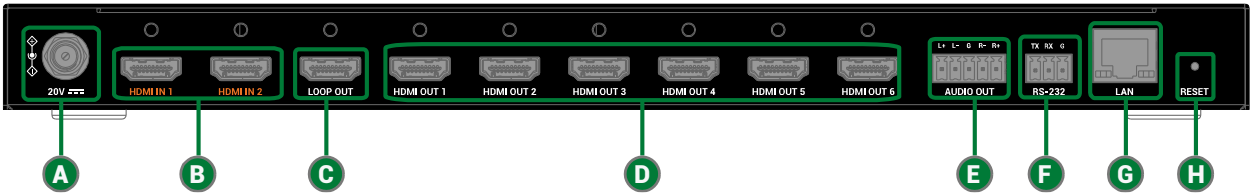
## Panel Description

### Front Panel



<b>A</b>	<b>POWER LED</b>	<ul style="list-style-type: none"> <li>On: The device is powered on.</li> <li>Off: The device is powered off.</li> </ul>
<b>B</b>	<b>STATUS LED</b>	<ul style="list-style-type: none"> <li>Blinking: The device is working properly.</li> <li>Off: The device is not working properly.</li> </ul>
<b>C</b>	<b>INPUT SELECT Button</b>	Press to select HDMI IN 1 or HDMI IN 2 as input source cyclically.
<b>D</b>	<b>IN 1 &amp; IN 2 LEDs</b>	<ul style="list-style-type: none"> <li>On: The corresponding HDMI input 1/2 is selected as input source.</li> <li>Off: The corresponding HDMI input 1/2 is not selected as input source.</li> </ul>
<b>E</b>	<b>LAYOUT SELECT Button</b>	Press to switch layout mode among 1x4, 2x2, 3x2, 2x3, 4x1, 1x4 (90° ), 1x3 (60° ) (Row x column), and Preset.
<b>F</b>	<b>LAYOUT LEDs</b>	<ul style="list-style-type: none"> <li>On: The corresponding layout mode is selected.</li> <li>Off: The corresponding layout mode is not selected.</li> </ul>
<b>G</b>	<b>LOCK Button</b>	<ul style="list-style-type: none"> <li>Press to lock front panel buttons to prevent accidental pressing.</li> <li>Hold the button for about 3s to exit lock mode.</li> </ul>
<b>H</b>	<b>LOCK LED</b>	<ul style="list-style-type: none"> <li>On: The device is in lock status.</li> <li>Off: The device is in unlock status.</li> </ul>

Rear Panel



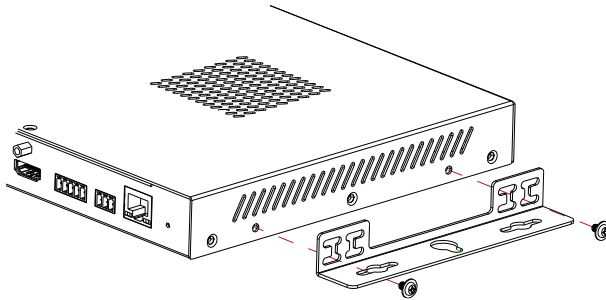
<b>A</b>	<b>DC 20V</b>	Connect to the provided DC 20V power adapter.
<b>B</b>	<b>HDMI IN 1 &amp; 2</b>	Connect to HDMI sources.
<b>C</b>	<b>LOOP OUT</b>	Connect to an HDMI display or connect to HDMI IN port of the next device for cascading connection.
<b>D</b>	<b>HDMI OUT 1~6</b>	Connect to HDMI displays for video wall connection.
<b>E</b>	<b>AUDIO OUT</b>	Connect to an audio receiver for outputting de-embedded audio.
<b>F</b>	<b>RS-232</b>	Connect to a RS232 enabled control device for API control.
<b>G</b>	<b>LAN</b>	Connect to a network device (e.g., network switch, router, computer, etc.) for LAN control (Web UI & Telnet).
<b>H</b>	<b>RESET</b>	Use a needle to insert into the hole: <ul style="list-style-type: none"><li>Hold it for about 5s: reset the IP mode to default settings (DHCP).</li><li>Hold it for about for about 15s: reset the device to factory defaults.</li></ul>

Installation

Note: Before installation, please ensure the device is disconnected from the power supply.

To install the device on a suitable place:

1. Attach the bracket to one side of the enclosure using the screws provided. The bracket is attached to the enclosure as shown.



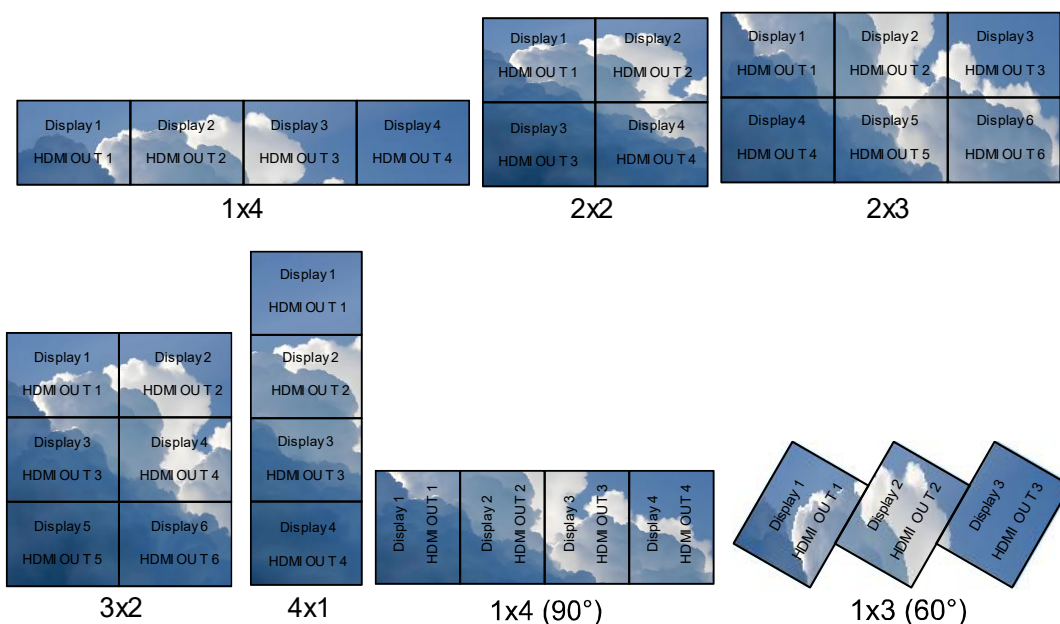
2. Repeat step 1 for the other side of the enclosure.
3. Attach the brackets to the surface or location desired using screws (not included in the package).

## Wiring Diagram

The video wall processor provides quick video wall mode, including 1x4, 2x2, 3x2, 2x3, 4x1, 1x4 (90°), and 1x3 (60°) (Row x column), and standard video wall mode, in which users can set M (row:  $M \leq 6$ ) x N (column:  $N \leq 6$ )  $\leq 6 \times 6$  cascade number video wall layout mode, and set rotation of each display.

Video Wall diagrams in Quick video wall mode:

Note: In quick video wall mode, displays must be connected to the corresponding HDMI output ports as the following preset, and can't be adjusted.

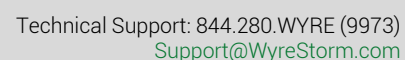


The device supports video wall expansion through LOOP port in standard video wall mode. Connect the LOOP OUT port of the first device to HDMI IN 1/2 port of the second device, the second device selects the input the LOOP port connected, the first device and the second device can form a larger video wall as requirement. It supports cascading up to 6 devices for creating video wall. In quick video wall mode, the device doesn't support cascading mode. In standard video wall mode, the device supports cascading connection.

In cascading connection, LAN control and RS232 control are available for the device the control devices connected only. Users can set output distribution for the video wall from all the outputs in the cascading connection via web UI.

Note: Please refer to the "[Web UI Control](#)" section or the separate document "[API Command Set\\_SW-0206-VW](#)" to get detail mode and configuration information.

Wiring 1: 1 x 4 (row x column) video wall mode in non-cascading mode



- 3) When the device is powered on again, if the source last time selected has active signal, this source will remain selected.

Note: Auto switch function can be set to enable/disable through API commands or Web UI, please refer to the separate document "API Command Set\_SW-0206-VW" or "[Web UI Control](#)" section to get detail information.

## OSD

The device supports OSD (On Screen Display) function. Users can set the function to enable or disable through web UI or API commands. Please refer to the "[Web UI Control](#)" section or the separate document "API Command Set\_SW-0206-VW" to get setting information.

- In cascading mode, the OSD information includes IP address, HDMI output, and cascading information.
- In non-cascading mode, the OSD information includes IP address and HDMI output. SW-0206-VW

In Cascading mode, take 2x2 (row x column) as example:



- IP Address: Shows the current IP address of the device the display connected.
- Output: Shows the HDMI output port the display connected.
- Cascading Info: take "03 - 05" as an example: 03: indicates the device's ID is 3; 05, indicates current connected HDMI output port. 03 - 05 indicates the current display is connected to the ID 3 device's HDMI OUT 5 port. The device's cascading ID can be set via web UI or API commands.

In non-cascading mode, take 1x4 layout mode as example:



## Control of the Video Wall Processor

The device supports multiple control options, including front panel buttons, RS232, LAN (web UI & telnet).

### Front Panel Button Control

The device features one SELECT button and one LAYOUT SELECT button on front panel for source selection and layout selection, and also equips with one LOCK button to lock the two buttons.

- Select Input source: Press the SELECT button to select HDMI IN 1/2 as input source, and the corresponding LED will be lit up.
- Select layout mode: Press LAYOUT SELECT button to select one layout mode among 1x4, 2x2, 3x2, 2x3, 4x1, 1x4 (90°), 1x3 (60°) (Row x column) and PRESET cyclically. PRESET video wall is the video wall layout after applying in standard video wall mode on the web UI. By default, it is not configured, and when switching to this mode, all displays connected display complete image.

Note: Please refer to "[Web UI Control](#)" section to get detail information about standard video wall mode.

- Lock/Unlock the front panel buttons: Press LOCK button, the SELECT button and LAYOUT SELECT button are locked and can't be operated. Hold the LOCK button for about 3s to exit the lock mode.

Note:

- The SELECT button and LAYOUT SELECT button will be locked after 5 minutes of applying the video wall configuration in web UI, no matter in quick video wall mode or standard video wall mode (including cascading connection).
- In lock status, users can also switch input and layout through web UI or API commands.

### Command Control

Advanced users may need to control the device via API commands. API commands can be obtained from the separate document "[API Command Set\\_SW-0206-VW](#)".

Two methods are provided for controlling this device through API commands:

#### 1. RS232.

Connect a control PC to the RS232 port of the device. Before sending API commands to control the device, ensure the serial ports between this device and PC are configured correctly. A professional RS232 serial interface software (e.g., Serial Assist) may be needed as well.

<b>Baud Rate</b>	115200 bps
<b>Data bits</b>	8 bits
<b>Parity</b>	None
<b>Stop bits</b>	1 bit
<b>Flow control</b>	None

#### 2. Telnet.

Connect a control PC to the LAN port of the device. Before you intend to control the device through telnet API, you shall establish connection between this device and your computer.

The form of the command for telnet connection is below:

*telnet ip (port)*

- *ip*: The device's IP address.
- *port*: The device's port number, this is non-required for some Telnet control tools. Default setting is 23.

For example, if the device's IP address is 192.168.11.143, the command for telnet connection shall be the following:

*telnet 192.168.11.143*

### 3. Obtain IP Address of the Device

To obtain the device's IP address:

- 4) Connect a control PC to the RS232 port of the device.
- 5) Configure RS232 parameters for the PC's serial port correctly through a RS232 serial port tool, such as Serial Assist.
- 6) Input the command *GET IPADDR<CR><LF>* and send. Users can get a response with IP address, see following example:

Input:

*GET IPADDR<CR><LF>*

Response:

*IPADDR 172.16.18.173 MASK 255.255.255.0 GATEWAY 172.16.18.1*

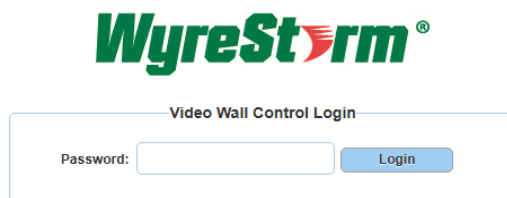
## Web UI Control

The Web UI designed for the video wall processor allows basic controls and advanced settings and can be accessed through a browser with latest version, e.g., Chrome, Safari, Firefox, Opera, IE10+, etc.

The default IP mode of the video wall processor is DHCP. Default login password for Web UI is "admin".

### To get access to Web UI

1. Connect the LAN port of the device to the ethernet switch with DHCP server, and connect the PC to the same ethernet switch.
2. Get the IP address through the "SmartSetGUI" tool on PC, OSD information on the display connected or sending command "*GET IPADDR<CR><LF>*" (see "[Obtain IP Address of the Device](#)" section).
3. Input the IP address obtained in the last step in the browser and press "Enter" key on keyboard.
4. The following window pops up. Input the password (default password: admin) and click Login:



When login web UI first time, after clicking "Login", users will enter the following window to change login password. Input new password and click "Apply" to enter the main page.

Change Password

Please change your password to continue

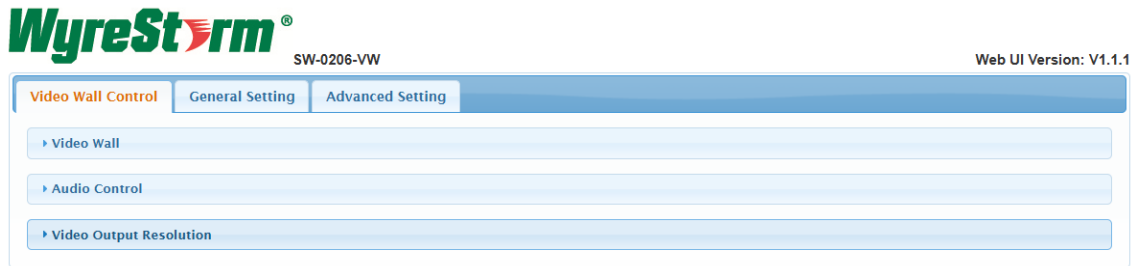
New Password

Confirm New Password

Apply

Note: Password must be 4 to 16 characters in length, alphanumeric only.

Note: The new password must be 4 to 16 characters in length, alphanumeric only.

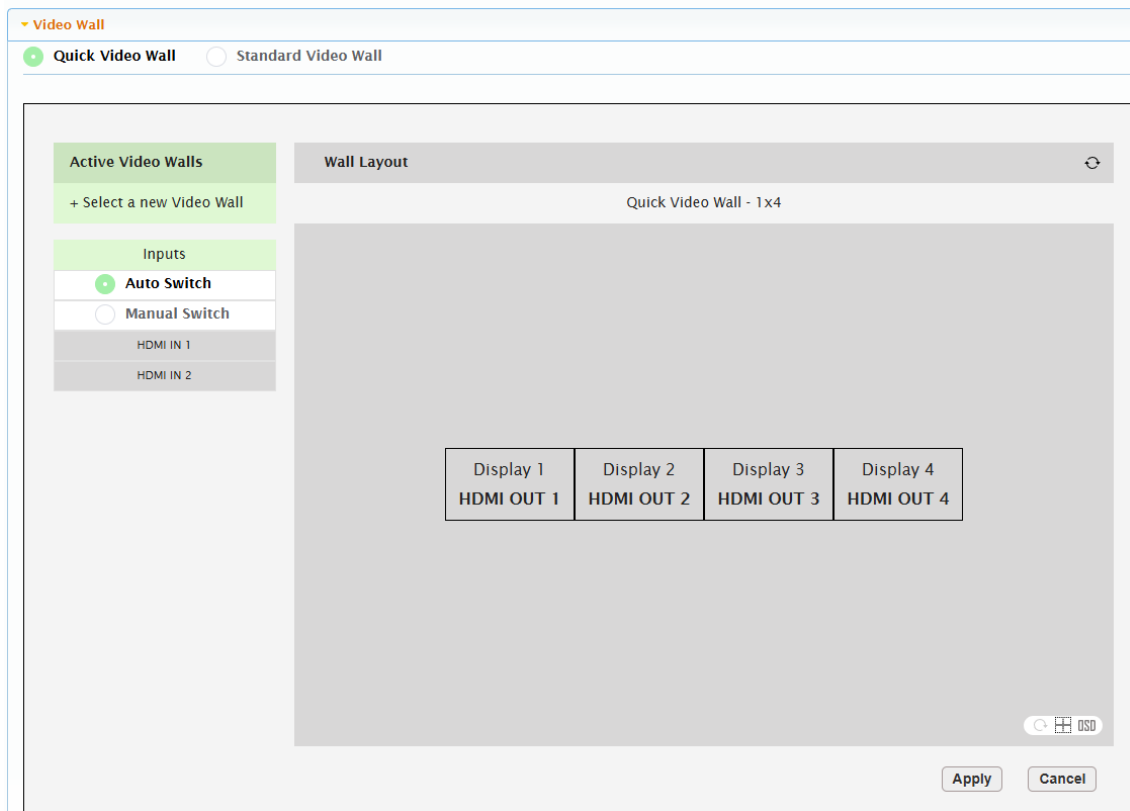


The main page includes three tabs: Video Wall Control, General Setting and Advanced Setting.

## Web UI Introduction

### 1. Video Wall Control

#### 1) Video Wall

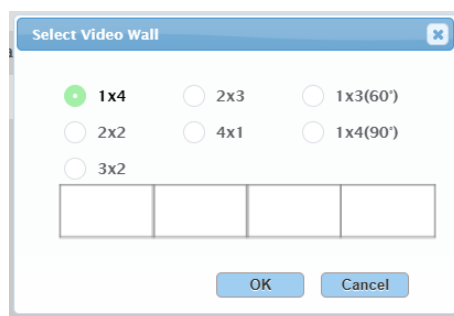


This section allows users to configure video wall between Quick Video Wall mode and Standard Video Wall mode.

### Quick Video Wall mode:

Quick Video Wall mode doesn't support cascading connection.

- Active Video Walls: Click "+ Select a new Video Wall" button in this field to enter "Select Video Wall" window, as shown in the following figure:




Click the circle in front of the layout mode names to set the video wall layout mode (the circle turns from white to green when the selection is done), and click "OK" to take effect. Default setting is 1x4 (row x column) layout mode. The selected layout mode diagram is displayed below all the layout names.

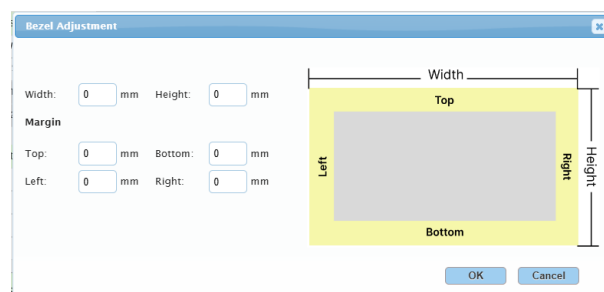
- Inputs: Select input selection mode between "Auto Switch" and "Manual Switch". Click the circle in front of "Auto Switch" and "Manual Switch" (the circle turns from white to green when the selection is done). Default setting: Auto Switch.

When select "Manual Switch", click "HDMI IN 1" or "HDMI IN 2" button to select HDMI IN 1 or 2 as input source (button turns from white to orange when the operation is done).

- Wall Layout: Shows current selected video wall mode, layout mode, layout mode diagram and corresponding connected outputs.

➤ : Click to refresh Wall Layout display.



➤ : Click to enter "Bezel Adjustment" window:



Bezel Adjustment: Set bezel compensation, so that there is no position deviation of image from each screen in the video wall. Default settings: 0; Range: 0-10000

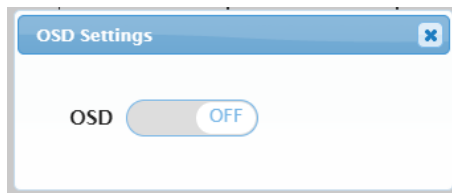
- ✓ Width (W): This is the outside vertical length (width) of each video wall display.
- ✓ Height (H): This is the outside horizontal length (height) of each video wall display.

### Margin:

- ✓  Top / Bottom: This is the top/bottom border width of each video wall display.
- ✓  Left / Right: This is the left/right border width of each video wall display.

✓ OK/Cancel: Click to apply the bezel correction settings.

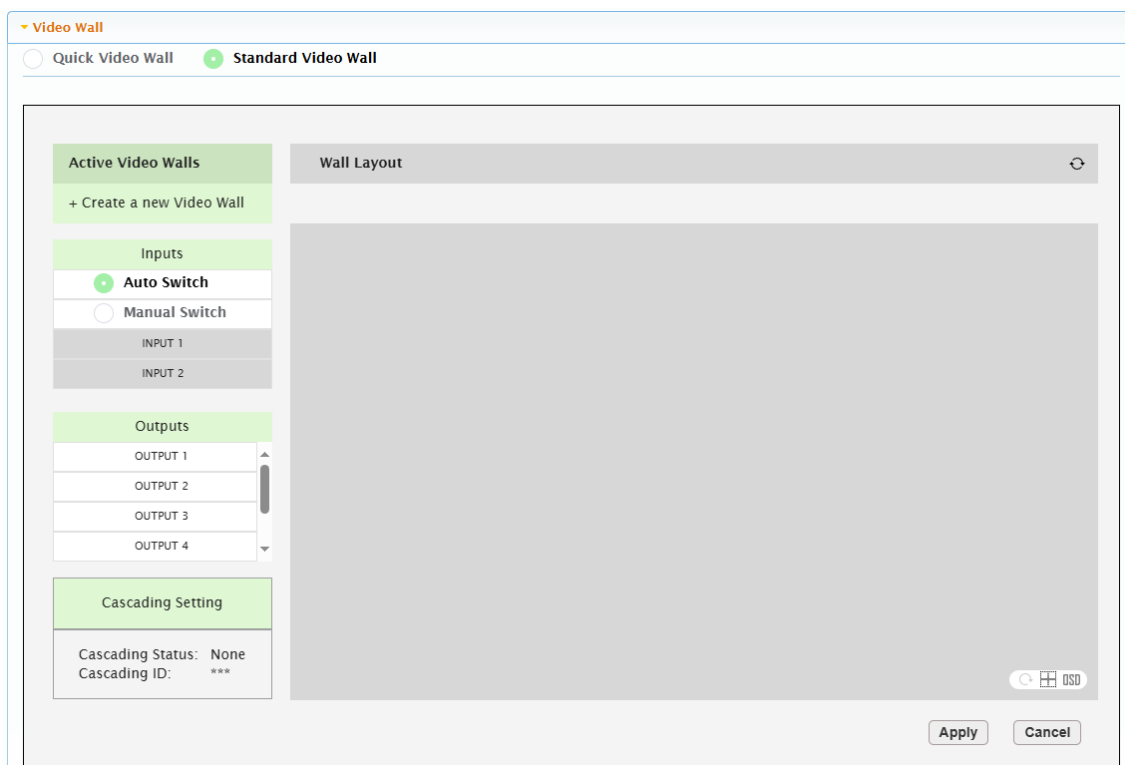
- : Click to enter "OSD" setting page:



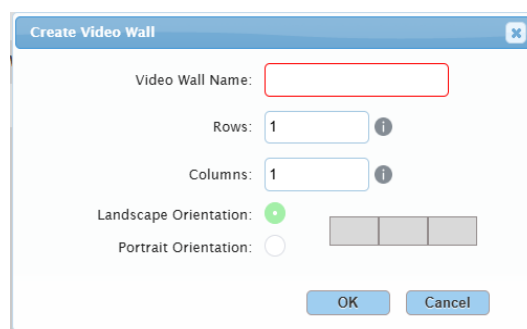
Click to set OSD function to on/off. Default setting: OFF. When set it to ON, all displays in the video wall will show the IP address and corresponding output at the bottom right corner.

- Apply/Cancel: Click to perform the quick video wall configurations or cancel the setting Quick Video Wall page.

### Standard Video Wall:



- Active Video Walls: Click "+ Create a new Video Wall" enter the create video wall window:



Users can create a video wall as required in this window.

- Video Wall Name: Enter a video wall name. The length of the name must be 1~31 characters.
- Rows/Columns: Enter a row/column number of the created video wall. The number must less or equal to 6. Move the mouse to "i" to show the indicating information.

The screenshot shows two input fields: "Rows:" with the value "1" and "Columns:" with the value "1". Each field has an information icon (i) to its right. A tooltip is displayed next to the "Rows:" field, stating: "To assure the quality of video resolution, Rows <= 6". A similar tooltip is shown for the "Columns:" field, stating: "To assure the quality of video resolution, Columns <= 6".

- Landscape Orientation/Portrait Orientation: Click the circle after the Landscape Orientation/Portrait Orientation to set the video orientation to landscape or portrait (circle turns from white to green after the operation is done). The diagram after the two items shows the selected video wall orientation.
- OK/Cancel: Click to take effect or cancel the setting.

Note: Only one video wall can be created. When create a new video wall, the previously created video wall will be removed.

- Inputs: Inputs: Select input selection mode between "Auto Switch" and "Manual Switch". Click the circle in front of "Auto Switch" and "Manual Switch" (the circle turns from white to green when the selection is done). Default setting: Auto Switch.

When select "Manual Switch", click "HDMI IN 1" or "HDMI IN 2" button to select HDMI IN 1 or 2 as input source (button turns from white to orange when the operation is done).

- Outputs: Drag the corresponding output to the display window on Wall Layout field to make the display show the corresponding image of the video wall.
- Cascading Setting: Click the button to enter "Cascading Window".

The screenshot shows the "Cascading Window" dialog box. It has two main sections: "All Devices" and "Selected Devices".

**All Devices:** A table with columns "Name" and "IP". It lists three devices:

Name	IP
VW0206-01020e	192.168.0.68
VW0206-01222f	192.168.1.2
VW0206-01022e	192.168.0.71

Below the table, it says "Total: 3". There is a "Refresh" button at the bottom.

**Selected Devices:** A table with columns "Name", "IP", "Status", and "Del". It lists one device:

Name	IP	Status	Del
VW0206-01020e	Dev-1:192.168.0.68		

Below the table, it says "video wall 1" and "Cas num: 0". There is a "Clear" button at the bottom.

At the bottom of the dialog box, there are "Cascade" and "Cancel" buttons.

- All Devices: Shows the current devices' names and IP addresses that can be cascaded. Double-click the name line of the device to select it to cascade, it will be displayed in "Selected Devices" field. When one device is cascaded already, the line of it will become grey and can't be selected. The current device line also shows grey.
- Refresh: Click to refresh the current devices that can be cascaded.
- Selected Devices: Shows the current selected devices to cascade. In the field, it also shows the video wall number and cascading number.
  - ✓ Status: Click the green button to enter the following window to change cascading ID of the device. Select the cascading ID from the drop-down menu and click "Save" to take effect or click "Cancel" to cancel the operation.

**Status**

MAC Address: 00:00:00:01:02:0e

IP: 192.168.0.68

Cascading ID: 1

Save Cancel

- ✓ Del: Click to delete the device from the cascading connection.
- ✓ Clear: Click to clear all the cascaded devices.
- Cascade/Cancel: Click to set the selected devices to cascade or cancel the operation.

Take creating a 4x4 layout video wall as an example:

1. Click "+Create a new Video Wall", enter the video wall name, and input row and column number in "Create Video Wall" window. Then click "OK" to perform the operation.

**Create Video Wall**

Video Wall Name: video wall 1

Rows: 4

Columns: 4

Landscape Orientation: ☒ Portrait Orientation: ☐

OK Cancel

2. Click "Cascading Setting" to configure cascading devices.

**Cascading Window**

**All Devices**

Name	IP
VW0206-01020e	192.168.0.68
VW0206-01222f	192.168.1.2
VW0206-01022e	192.168.0.71

Total: 3

Refresh

**Selected Devices**

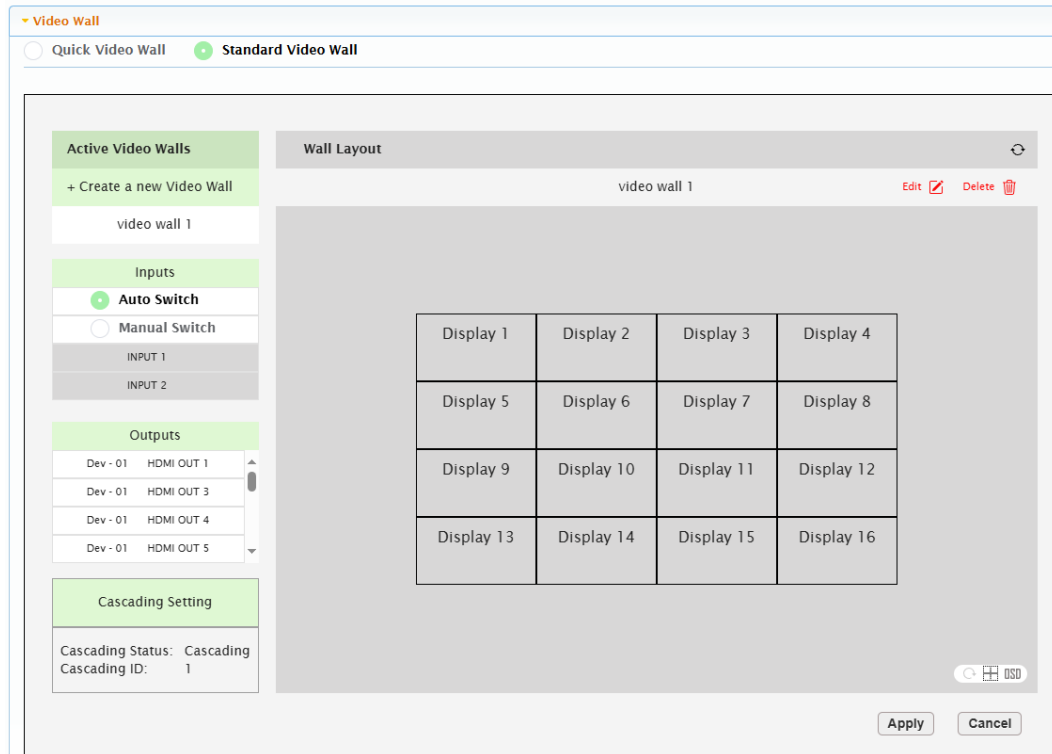
Name	IP	Status	Del
VW0206-01020e	Dev-1:192.168.0.68		
VW0206-01222f	Dev-2:192.168.1.2		
VW0206-01022e	Dev-3:192.168.0.71		

video wall 1

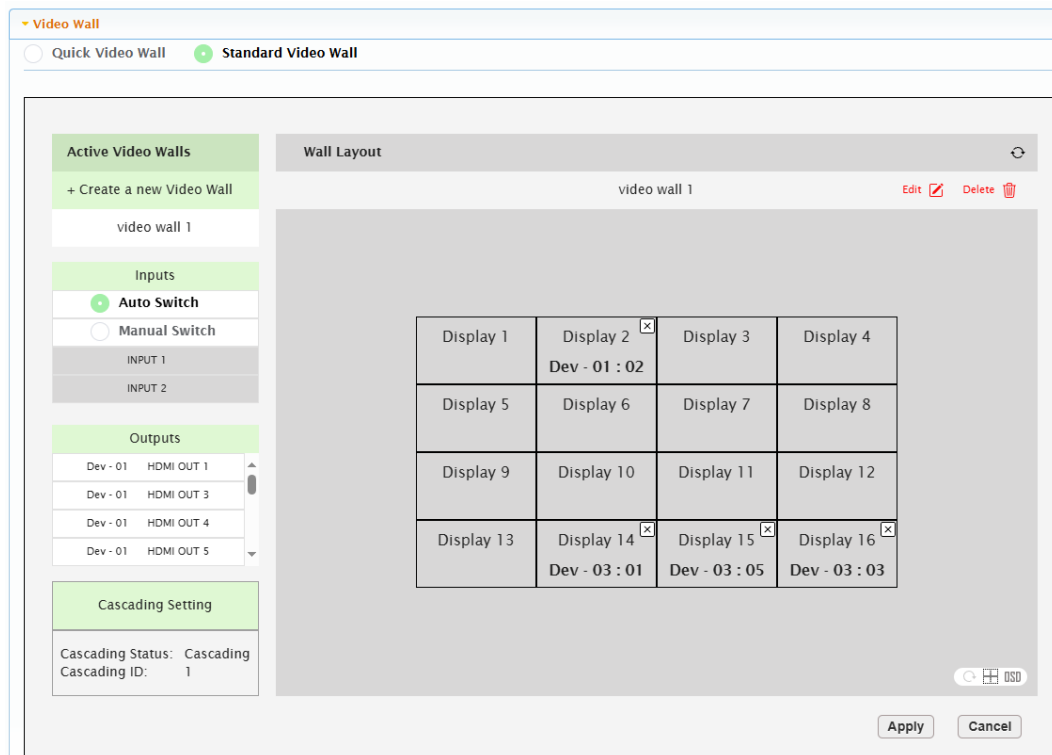
Cas num: 3

Clear


Cascade Cancel

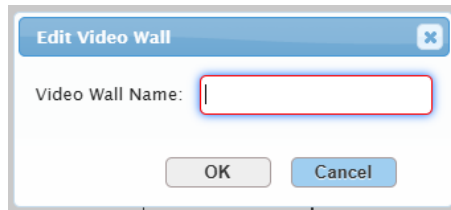


3. Drag the output name on "Outputs" field to the corresponding Display in "Wall Layout" field to make the display show the corresponding image of the video wall. The video wall is created.





4. Users can adjust the video wall created as the following instructions.

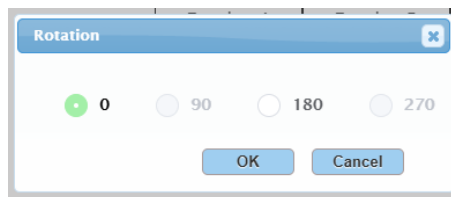
- Wall Layout: Shows the name of current created video wall and the video wall diagram and current selected output distribution.
  - : Click the button to enter the following window to change video wall name, and then click "OK" or "Cancel" to save or cancel the operation.



- : Click the button to remove the current created video wall.



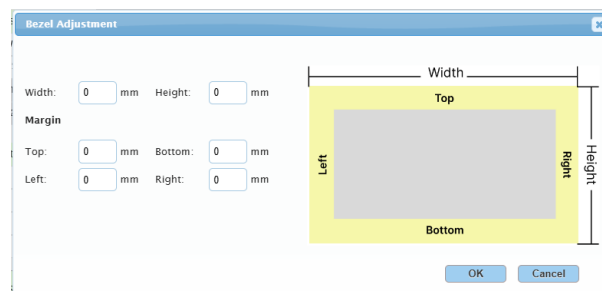
- : Click the button to delete the current configured OUTPUT port for the display in the video wall.
- : Click one display in the video wall diagram (turns from grey to yellow), and click the button to enter the following window to set the rotation of the image of this display.



Click the circle in front of the rotation angles (the circle turns from white to green) to set the image rotation according the orientation of the display, and then click "OK" or "Cancel" to perform the operation or cancel the operation.

Note: When the video wall is set to landscape orientation, 0° and 180° can be set. When the video wall is set to portrait orientation, 90° and 270° can be set.



- : Click to enter "Bezel Adjustment" window:




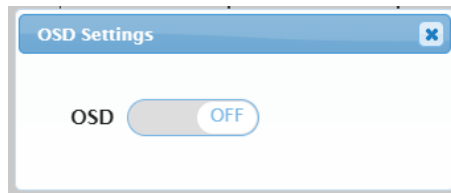
Bezel Adjustment: Set bezel compensation, so that there is no position deviation of image from each screen in the video wall. Default settings: 0; Range: 0-10000

- ✓ Width (W): This is the outside vertical length (width) of each video wall display.
- ✓ Height (H): This is the outside horizontal length (height) of each video wall display.

### Margin:

- ✓  Top / Bottom: This is the top/bottom width of each video wall display.
- ✓  Left / Right: This is the left/right width of each video wall display.
- ✓ OK/Cancel: Click to apply the bezel correction settings.

- : Click to enter "OSD" setting page:

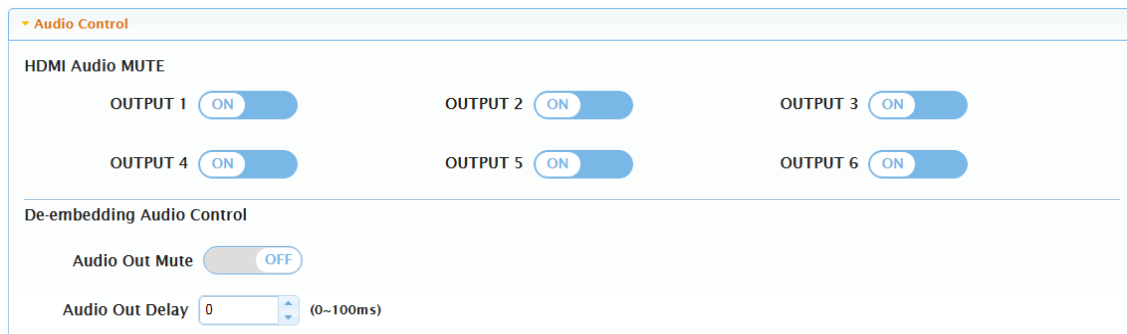


Click to set OSD function to on/off. Default setting: OFF. When set it to ON, all displays in the video wall will show the IP address and corresponding output at the bottom right corner.

- Apply/Cancel: Click to perform the standard video wall configurations or cancel the setting Standard Video Wall page.

Note: The video wall set in "Standard Video Wall" mode will be saved as preset mode, and can be switch to it via LAYOUT SELECT button.

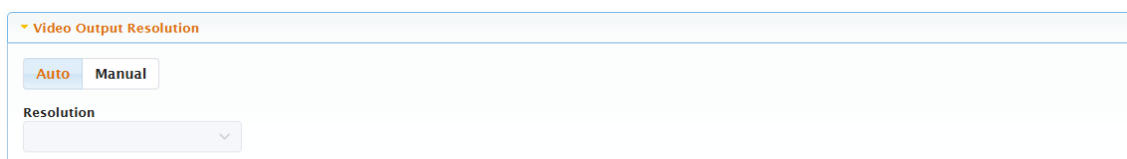
## 2) Audio Control

A screenshot of the "Audio Control" settings panel. It has a title bar with a dropdown arrow and the text "Audio Control". Below the title bar, there are two sections. The first section is "HDMI Audio MUTE" and contains six toggle switches labeled "OUTPUT 1" through "OUTPUT 6", all of which are currently set to "ON". The second section is "De-embedding Audio Control" and contains two controls: "Audio Out Mute" with a toggle switch set to "OFF", and "Audio Out Delay" with a numeric input field set to "0" and a range indicator "(0~100ms)".

This section allows users to set HDMI audio output to mute/unmute, set analog audio output to mute/unmute, and set delay time of analog audio output.

- HDMI Audio MUTE: Select to mute/unmute audio for selected HDMI output port. Default setting: ON (mute).
- De-embedding Audio Control:
  - Audio Out Mute: Click to set analog audio output to mute/unmute. Default setting: OFF (unmute).
  - Audio Out Delay (0~100ms): When De-embedding Audio Out Mute is set to ON, click the up and down arrow buttons to set audio out delay time. Default setting: 0ms.

## 3) Video Output Resolution

A screenshot of the "Video Output Resolution" settings panel. It has a title bar with a dropdown arrow and the text "Video Output Resolution". Below the title bar, there are two tabs: "Auto" (which is selected) and "Manual". Below the tabs, there is a label "Resolution" followed by a dropdown menu.

This section manages resolution configurations for output video wall. Two operation options are provided for each output.

- Auto (default): Select to automatically adapt to display EDID and resolution. E.g., if the display supports up to 4K@30Hz, the device will output signal with 4K@30Hz.
- Manual: Select a desired output resolution from the Resolution dropdown menu for the selected output port.

## 2. General Setting

### 1) Source Naming and Zone Naming

Source Naming

Input 1

Input 2

Note:

1. The length of alias name is limited to 15 characters total.  
2. Source Naming feature would not enable in cascading state.

Save

Reset

Zone Naming

Output 1

Output 2

Output 3

Output 4

Output 5

Output 6

Note:

1. The length of alias name is limited to 15 characters total.  
2. Zone Naming feature would not enable in cascading state.

Save

Reset

This section allows users to change to new input ports' names and output ports' names.

- Save: Click to save and apply all changes.
- Reset: Click to reset all changes.

Note: The length of each new name shall not exceed 15 characters. Source naming and Zone naming are not enabled in cascading state.

### 2) Video Details

Video Details

Input

Port

1

Refresh

Status

Connected

Signal

Valid

Resolution:

1920x1080

Frame Rate:

60

Color Space:

RGB

Color Depth:

8bit

HDCP Version

NO HDCP

Output

Port

1

Refresh

Status

Disconnected

Signal

NO

Resolution:

Null

Frame Rate:

Null

Color Space:

Null

Color Depth:

Null

HDCP Version

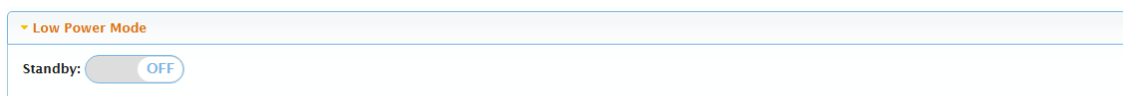
NO HDCP

This section allows users to get video details (such as connection status, signal and resolution) of input and output.

- Port: Click to select the input/output port to show its video details.
- Refresh: Click to refresh the current video information.

### 3. Advanced Setting

#### 1) Low Power Mode



▼ Low Power Mode

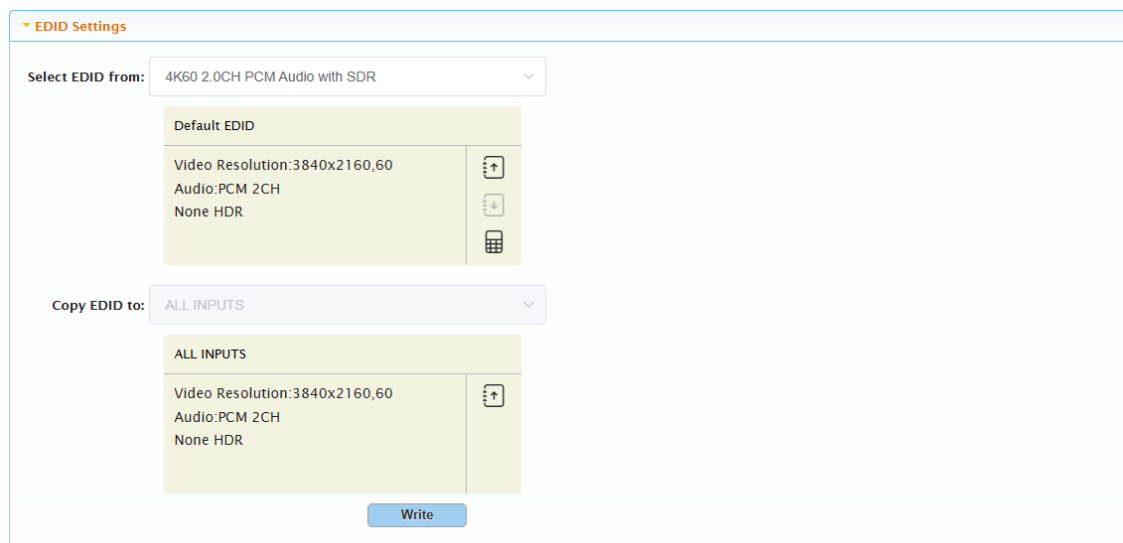
Standby: ☐ OFF

This section provides setting of Lower Power Mode. In Low Power Mode, the device will shut down all video outputs and enter standby status.

- ON: Select to turn on Lower Power Mode to make the device enter standby status.  
Note: When on is selected, the web UI page will log out, you need to re-login to enter the main page.
- OFF: Select to turn off Lower Power Mode to make the device work properly.

Default setting: OFF.

#### 2) EDID Settings



▼ EDID Settings

Select EDID from: 4K60 2.0CH PCM Audio with SDR

Default EDID

Video Resolution:3840x2160,60

Audio:PCM 2CH

None HDR

Copy EDID to: ALL INPUTS

ALL INPUTS

Video Resolution:3840x2160,60

Audio:PCM 2CH

None HDR

Write

This section allows users to manage EDID configurations.

- Select EDID from: Select an EDID from the drop-down menu for all inputs.

Selectable EDID includes:


Output Port:


HDMI OUT 1;

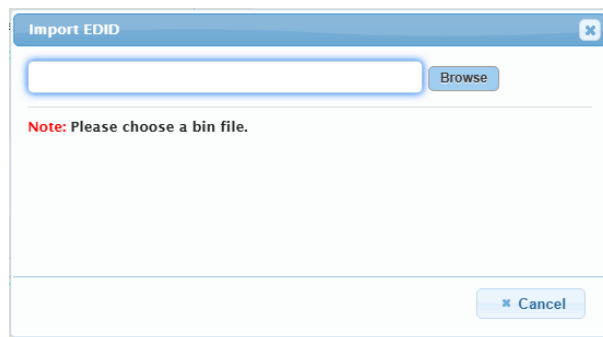
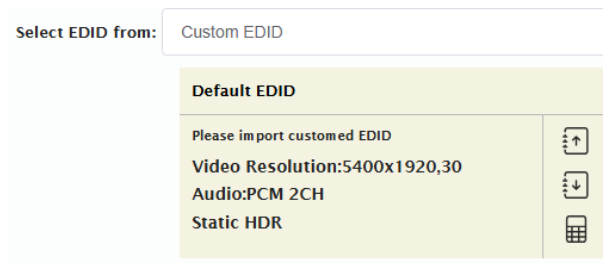
HDMI OUT 2;

Default EDID:

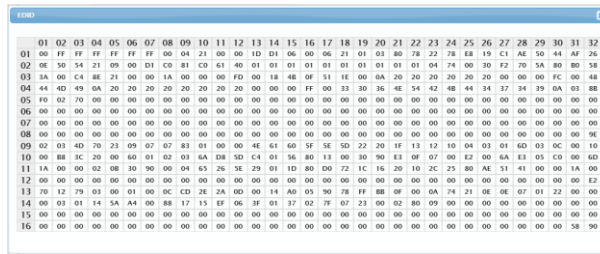
4K60 2.0CH PCM Audio with HDR;  
 4K60 2.0CH PCM Audio with SDR (default);  
 4K30 2.0CH PCM Audio with HDR;  
 4K30 2.0CH PCM Audio with SDR;  
 5400 x 1920 @ 30Hz 2.0CH PCM Audio with HDR;  
 5400 x 1920 @ 30Hz 2.0CH PCM Audio with SDR;  
 3840 x 600 @ 60Hz 2.0CH PCM Audio with HDR;  
 3840 x 600 @ 60Hz 2.0CH PCM Audio with SDR;  
 1080p @ 60 Hz 2.0CH PCM Audio with HDR;  
 1080p @ 60Hz 2.0CH PCM Audio with SDR;  
 1080p @ 50Hz 2.0CH PCM Audio with SDR;  
 Custom EDID.

➤  : Click to export the current selected EDID as a bin file to local PC.

➤  : When select custom EDID, click the button to import an EDID bin file.



➤  : Click to show the raw data of current selected EDID.



- Copy EDID to All INPUTS: Click "Write" to write the selected EDID in "Select EDID from" bar to both input 1 and input 2.



: Click to export the current written EDID as a bin file to local PC.

### 3) CEC Control

CEC Control

Output	Manual	On/Off	Auto Delay Time(1~30min)
OUTPUT 1	<div>Display On</div> <div>Display Off</div>	<div>OFF</div>	<div>2</div>
OUTPUT 2	<div>Display On</div> <div>Display Off</div>	<div>OFF</div>	<div>2</div>
OUTPUT 3	<div>Display On</div> <div>Display Off</div>	<div>OFF</div>	<div>2</div>
OUTPUT 4	<div>Display On</div> <div>Display Off</div>	<div>OFF</div>	<div>2</div>
OUTPUT 5	<div>Display On</div> <div>Display Off</div>	<div>OFF</div>	<div>2</div>
OUTPUT 6	<div>Display On</div> <div>Display Off</div>	<div>OFF</div>	<div>2</div>

- Display On: Click to power on the display connected to the output selected.
- Display Off: Click to power off the display connected to the output selected.
- Auto On/Off: Select to enable or disable CEC Auto Control.  
Default setting: Off.
- Auto Delay Time (1~30min): Click the up/down arrow to set the time for the display to power off automatically when no signal is present. For example, if the time is set to 2 minutes, the output display will power off automatically when there's no signal at the display for 2 minutes.

### 4) HDCP

HDCP

INPUT 1

ON

INPUT 2

ON

This section allows you to enable or disable HDCP encryption of each input port.

- ON: Select to enable HDCP encryption for the selected input port.
- OFF: Select to disable HDCP encryption for the selected input port.

Default setting: ON.

### 5) Change Login Password

▼ Change Login Password

Old Password

New Password

Confirm New Password

Note: Password must be 4 to 16 characters in length, alphanumeric only.

Save

This section is to change login password.

Default password: admin.

Note: Password must be 4 to 16 characters in length, alphanumeric only.

## 6) Network

▼ Network

IP Type

DHCP

IP Address

192.168.0.68

Subnet Mask

255.255.240.0

Default Gateway

192.168.2.1

Save

This section is to set between the static and dynamic IP address.

- IP Type:
  - DHCP: When enabled, the IP address of the device is assigned automatically by the DHCP server connected.
  - Static: When enabled, you need to set up the IP address manually.

Default setting: DHCP.

- Save: Click to save and perform the network setting, and the setting change will take effect immediately.

Note: When "Static" is selected, please ensure your PC is in the same network segment as the device.

## 7) Custom Web UI Logo

▼ Custom Web UI Logo

Browse

Note: You must upload an image in PNG format with a resolution of 300x60 pixels.

Apply

This section allows you to create your own logo for the Web UI.

To create customized Web UI logo: click "Browse" for the new logo file, and click "Apply".

Note: The new logo used should be in PNG format with a resolution of 300x60 pixels.

## 8) System Version

System Info

Firmware Version: Web UI ( V1.0.1 ) MCU ( V1.0.1 )

MAC Address ( 00:00:00:01:02:0e )

This section provides Web UI and MCU version and MAC address information.

## 9) FW Update

FW Update

File:

Browse

Update

Note: Do not power off the device before upgrading is completed.

This section allows users to upgrade firmware.

To update Firmware:

- Click "Browse" for the update bin file.
- Click "Update" to proceed. The update will be completed when the progress bar reaches 100%.

Note:

- The device will reboot automatically when firmware update is completed successfully. Please wait for about 2-3 minutes, then refresh and log in again.
- DO NOT power off the device during the updating process.

## 10) System

System

Reboot

Factory Reset

- Reboot: Click to reboot device.
- Factory Reset: Click to reset the device to factory default.

## 11) Log

Log

Export Log

Note: Please wait a few moments for log retrieval.

This section displays system setting change records. Click "Export Log" to download the log to your local computer.