🌿 Manuals+

☰

VigilLink VLVW-MX24P HDMI 2.0 Videowall Processor User Manual 📄

Contents [hide]

VigilLink VLVW-MX24P HDMI 2.0 Videowall Processor

Introduction

This product is an HDMI 2.0 Video Wall controller with 2 HDMI input, 2 HDMI loop out, and 4 HDMI scaling out for video wall processing. The Toslink jack terminal provides analog L/R audio and digital SPDIF audio output. 5-pin Phoenix jacket provides balanced L/R audio output, with PC Tool or RS232 commands to control the product for different wall displays.

Features

- HDMI 2.0 and HDCP 2.2 compliant
- Supports multi-resolution up to 3840×2160@60Hz video output for video wall
- Supports 2 channels HDMI loop out
- Supports Bezel Compensation with two modes
- Supports 180º rotation
- Supports PIP on a video wall
- Supports RS-232 and TCP/IP control
- Supports CEC control with displayer by PC Tool or commands

Package Contents

1. 1 x Ultra HD Video Wall Processor
2. 1 x 12V/3A Power Adapter
3. 1 x 5-pin Phoenix Connector
4. 2 x 3-pin Phoenix Connector
5. 1× RS232 to Phoenix Cable
6. 1× CAT6 cable
7. 1× USB to RS232 Cable
8. 1× User Manual

Technical	
HDMI Compliance	HDMI 2.0
HDCP Compliance	HDCP 2.2/1.4
RS-232	Baud rate: 57600, Data bit: 8, Stop bit: 1, no parity

Input Video Formats	4096x2160p 24/25/30/50/60Hz	1400×1050 60Hz
	3840x2160p 24/25/30/50/60Hz	1366×768 60Hz
	1080p 24/25/30/50/60Hz	1360×768 60Hz
	1080i 50/60Hz 1920×1200 60Hz	1280×1024 60Hz 1280×960 60Hz
	1680×1050 60Hz	1280×800 60Hz
	1600×1200 60Hz	1024×768 60Hz
	1440×900 60Hz	1280x720p50/60Hz
Audio Format	2.0 channel, 5.1 channel, LPCM, Dolby, AC3, DTS	
ESD Protection	Human-body Model: ±8kV (Air-gap discharge) , ±4kV (Contact discharge)	
Mechanical		
Housing	Metal Enclosure	
Color	Black	
Dimensions	218mm (W)×146mm (D)×43mm (H)	
Weight	2Kg	
Supply Voltage	+12V/3A	
Power Consumption	25W (Max)	
Operating Temperature	0°C ~ 40°C / 32°F ~ 104°F	
Storage Temperature	-20°C ~ 70°C / -4°F ~ 158°F	

Relative Humidity	10%~50% RH (Non-Condensation)

Operation Controls and Functions

Front Panel
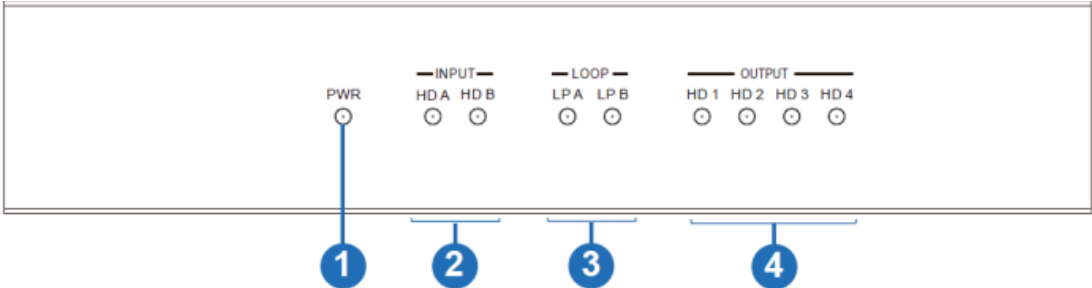
| No.	Name	Function Description
1	Power LED	The power LED will be on when the unit is powered on.
2	INPUT LED	The LED will be on when the corresponding HDMI input port is connected to an active HDMI source device.
3	LOOP LED	The LED will be on when the corresponding LOOP OUT port is connected to the HDMI display device.
4	OUTPUT LED	The LED will be on when the corresponding HDMI output port is connected to the HDMI display device.

Rear Panel
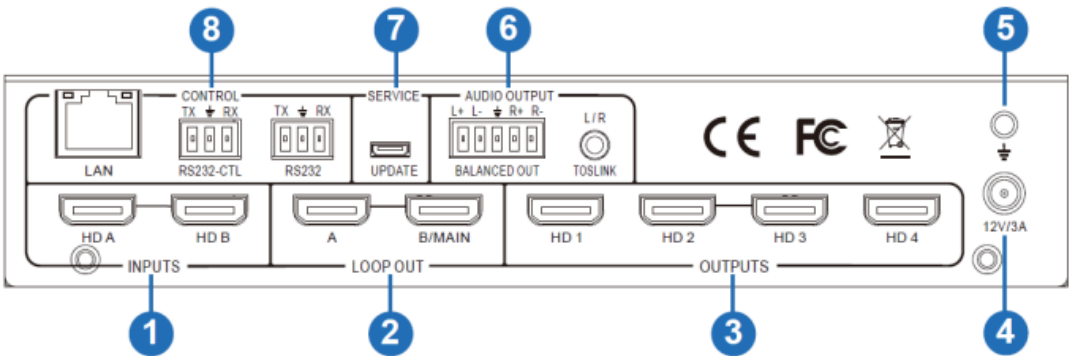
No.	Name	Function Description
1	INPUTS	HDMI signal input ports connect to HDMI source devices such as DVD or PS4 with HDMI cable.
2	LOOP OUT	HDMI signal loops out ports. Loop out HDMI A/B signal downstream.
3	OUTPUTS	HDMI signal scaling output for video wall.
4	12V/3A	DC 12V/3A power supply port.
5	GND	Ground the product housing.

| 6	AUDIO OUTPUT	TOSLINK: • Analog L/R audio output 3.5mm Stereo Jack. 20Hz ~ 20kHz, 1.5Vrms max • Digital SPDIF audio output
		BALANCED OUT: Balanced audio output port. 5-pin phoenix connector, 20Hz ~ 20kHz, 1.5Vrms max.
7	SERVICE	Firmware update port.
8	CONTROL	RS232: Loop out the RS232-CTL control command.
		RS232-CTL: External RS232 control, Baud Rate: 57600 Data Bits:8, Parity: None Stop Bits:1
		LAN: Network port for TCP/IP control. Connect to an active Ethernet link with an RJ45 cable.

RS232/LAN Control Connection

RS232 Control Connection

The product supports RS232 control. Connect the RS232-CTL port of the product to a PC via a serial cable, as shown in the following figure:
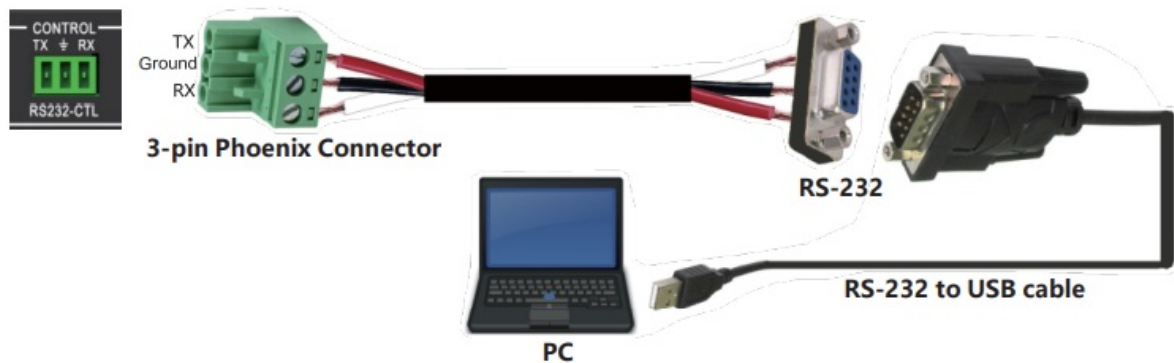

Network Control Connection

The product also supports Network control. Connect the LAN port of the product to a PC via a UTP cable, as shown in the following figure:
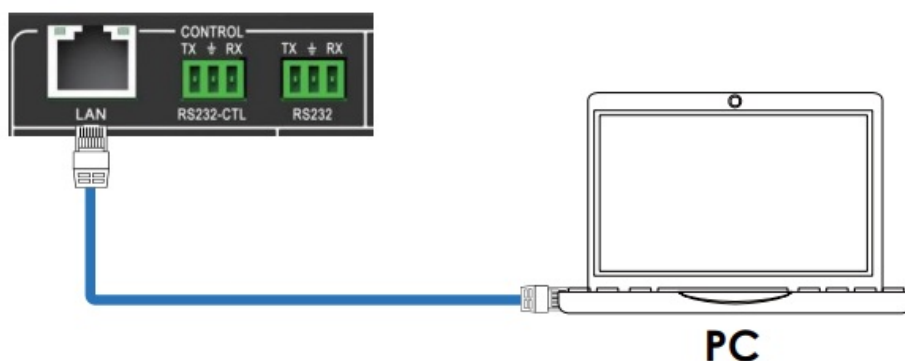

PC Tool User Guide

The PC tool is an installation-free control software that supports both UART and network control. It consists of five parts: Matrix Switch, Signal Setting, FineTune: PQ, Video Wall, and CEC Control. The UI is as follows:
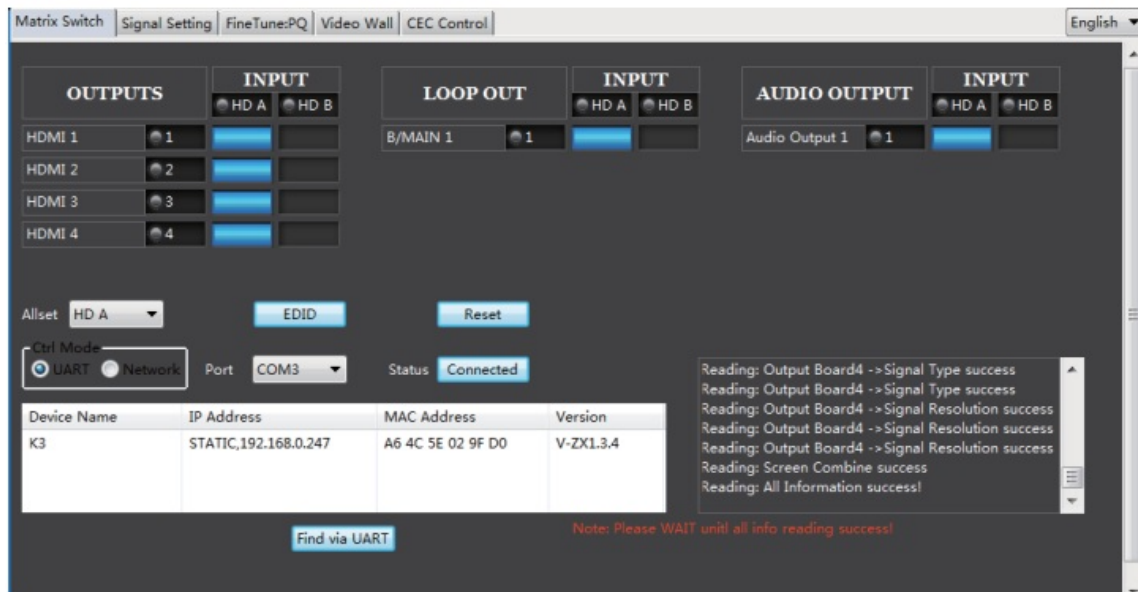
Matrix Switch Page

1. You can select UART (with RS232 cable) or Network to connect the device; the baud rate is 57600 bps.
2. Select the input source for each scaling output port.
3. AllSet" function: Select HD A or B input source to all the scaling output.
4. Select the input source for the B/MAIN output port.
5. Select the audio source for balanced audio output and Mini Toslink output.
6. Reset: The PC tool supports a reset system to recover factory configuration.
7. EDID Control: Click the "EDID" button on the Matrix Switch page, and there will be a pop-up EDID control window.
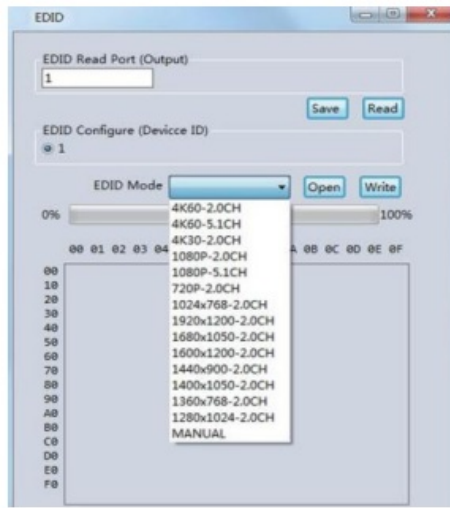
- Read each scaling output port downstream EDID and save it as a BIN file.
- Open an existing EDID file and write to the HDMI A and B input port as Manual EDID.
- Select predefined EDID and write to HDMI A and B input ports.

Predefined EDID option like below:

4K60-2.0CH	1920×1200-2.0CH
4K60-5.1CH	1680×1050-2.0CH
4K30-2.0CH	1600×1200-2.0CH
4K30-5.1CH	1440×900-2.0CH
1080P-2.0CH	1400×1050-2.0CH
1080P-5.1CH	1360×768-2.0CH
720P-2.0CH	1280×1024-2.0CH
1024×768-2.0CH	Manual

Signal Setting Page
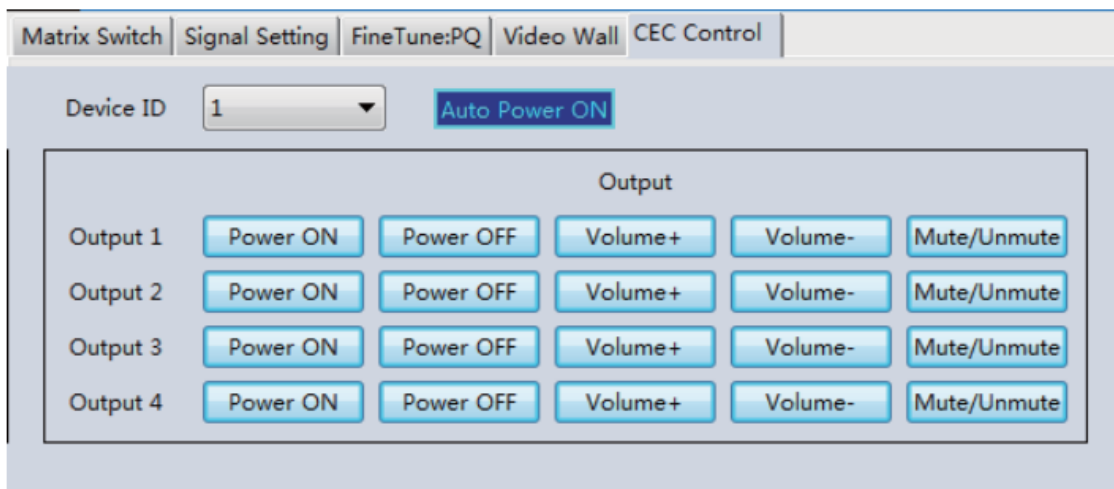
Users can read the resolution of each input port and set the resolution of each scaling output.

Available output resolutions:

No.	Output Resolution Setting	No.	Output Resolution Setting
1	3840x2160p 60Hz	9	1440×1050 60Hz
2	3840x2160p 50Hz	10	1366×768 60Hz
3	3840x2160p 30Hz	11	1360×768 60Hz
4	3840x2160p 25Hz	12	1280×1024 60Hz
5	1920×1200 60Hz	13	1280×768 60Hz
6	1920x1080p 60Hz	14	1280x720p 60Hz
7	1920x1080p 50Hz	15	1280x720p 50Hz
8	1600×1200 60Hz	16	1024×768 60Hz

Note: 3840×2160 25/30Hz can only be used for standalone display, not video wall.
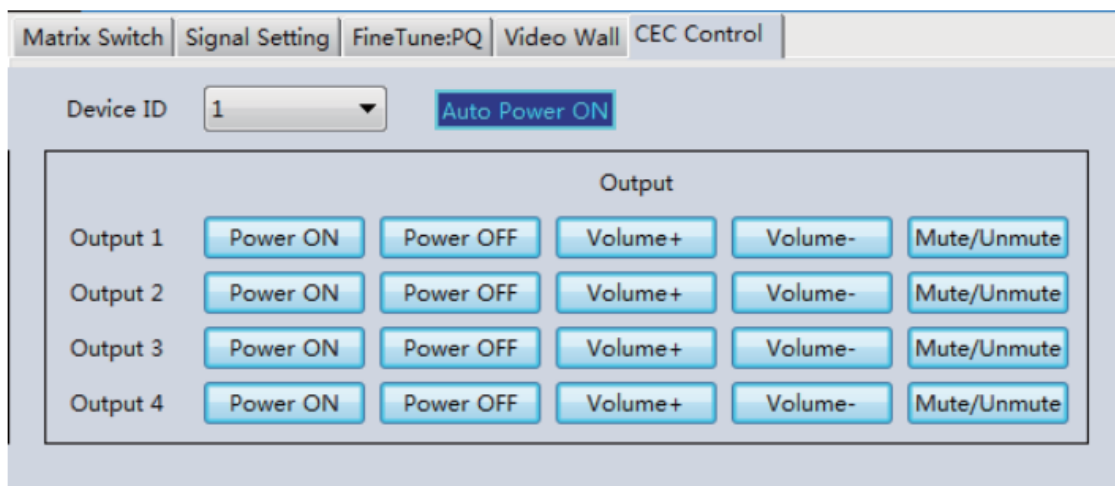
FineTune: PQ Page

You can read and set each output's Brightness/Contrast/Saturation/Sharpness.
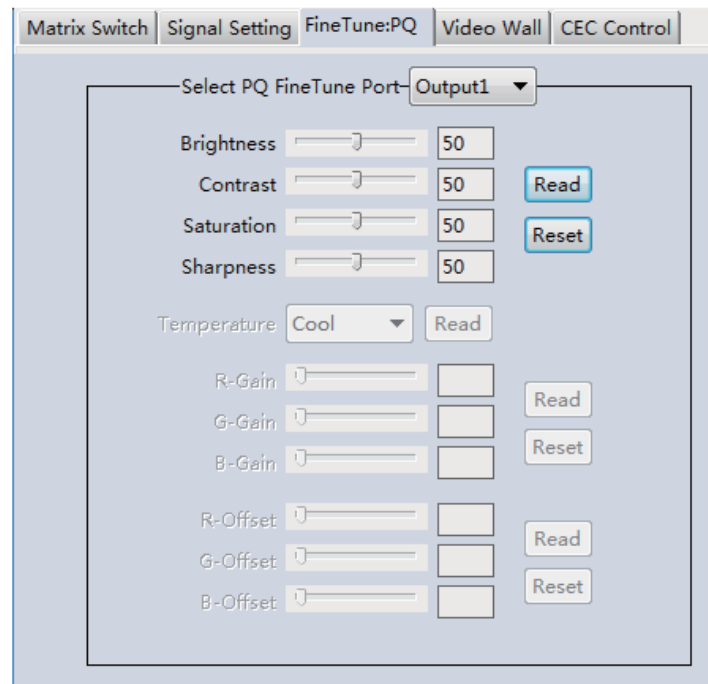
Suggest always use the default setting 50/50/50/50. Do not change the default settings without special conditions; If there is a problem after changing, click "Reset" to return to the factory settings.
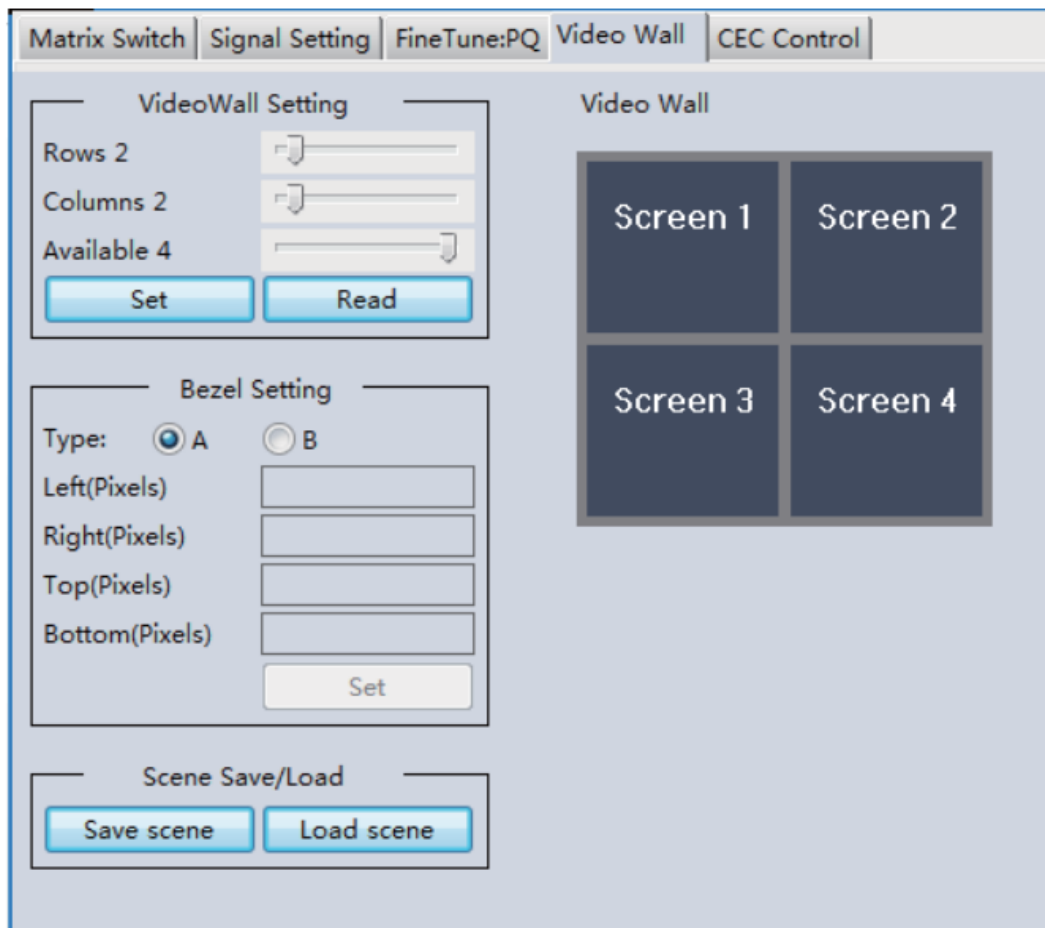
CEC Control Page

If **Auto Power On** is enabled, whenever the product is turned on, it will turn on all displayers connected to it. The product supports CEC functions, including Power on/off, Volume+/-, and Mute/Unmute.

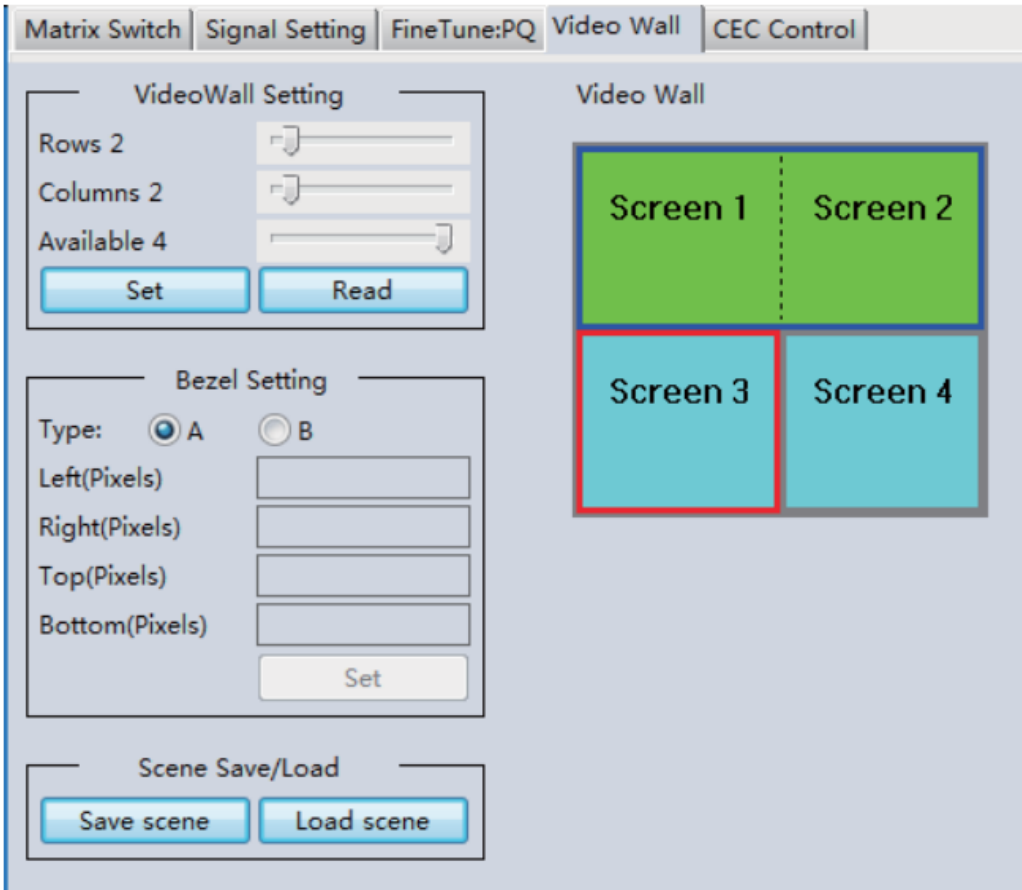**Video Wall Page**

This page is used to configure a group of outputs to function as a video wall.

| Matrix Switch | Signal Setting | FineTune:PQ | Video Wall | CEC Control |

VideoWall Setting

Rows 2

Columns 2

Available 4

Set   Read

Bezel Setting

Type: ⦿ A   ◯ B

Left(Pixels)

Right(Pixels)

Top(Pixels)

Bottom(Pixels)

Set

Scene Save/Load

Save scene   Load scene

Video Wall
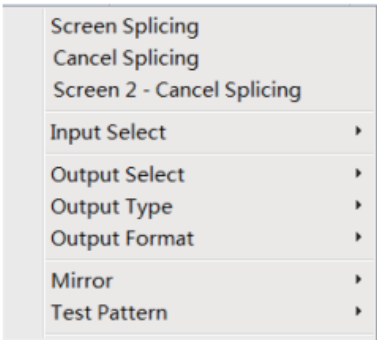
Screen 1   Screen 2

Screen 3   Screen 4

1. Use the Video Wall Setting controls to change how the displays are arranged on the Video Wall page:

- Adjust the Rows and Columns sliders to change the displayed screen arrangement to permit proper Drag-and-Select of the desired screens for the video wall.
- Change the Available slider to set how many outputs will be used for the Video Wall.
- Click the "Set" button to change the Screen configuration.

2. Use the left mouse button to drag-select the screens set for video wall mode. The selected screens will be shown as bright blue.

3. Use the right mouse button to open a menu.

4. Select "Screen Stitching" from the menu to program the video wall mode. The selected screens will now be shown as bright green.

5. To change the displayed image: right-click to open the pop-up menu and select the desired input from the "Input Select" menu option.

6. Repeating steps 2 ~ 5 above with different outputs allows for creating a second video wall.However, changing the Rows, Columns, and Available sliders will automatically delete the current video wall set up when the "Set" button is clicked. The following

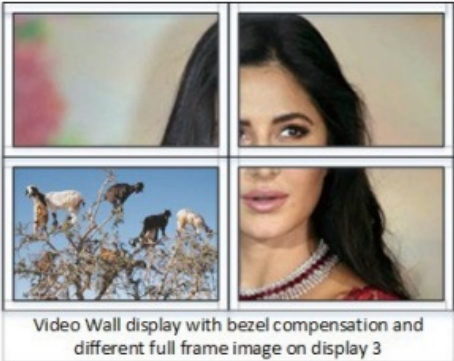example shows a more unusual video wall set-up of two video walls with two 2×1 configurations:

Video Wall Context Menu

Right-clicking on any of the screen icons will display the following context menu:


Bezel Setting

-

Screen Stitching	This option connects the selected screens into a video wall configuration.
Cancel Stitching	Return the Video Wall configuration to normal outputs.
Screen x – Cancel Stitching	Remove the single screen x from the video wall to allow the displaying of another full-frame image within the video wall configuration, as shown in this example: Video Wall display with bezel compensation and different full frame image on display 3
Input Select	Use the sub-menu to select the input to display on the video wall or the second input image shown in the above example.
Output Select	This option is only available for any screen not assigned to avideo wall mode.
Output Type	This option is only available for any screen not assigned to avideo wall mode.
Output Format	This option is only available for any screen not assigned to a videowall mode. It allows the setting of the output resolution for the selected screen output.
Mirror	Two sub-options: OFF (default), ON (H+V Mirror) When you select "ON," you can make a 180° rotation with the selected screen.
Test Pattern	The output will display the Color Bar pattern when Test Pattern is enabled.

The Bezel Setting section allows the entry of values to compensate for the display bezel thickness. These values may be entered as pixels (Type A) or millimeters (Type B). Type A Bezel Settings

- The image size will be adjusted to allow for the number of pixels entered in each entry box. Click the "Set" button to view the effect of the new values.

- Type B Bezel Settings

- The image size will be adjusted to allow for the Inner and Outer display dimensions in each entry box. Click the "Set" button to view the effect of the new values.

Bezel Compensation

- The following images demonstrate the effect of not having bezel compensation and what correctly configured bezel compensation settings should produce:
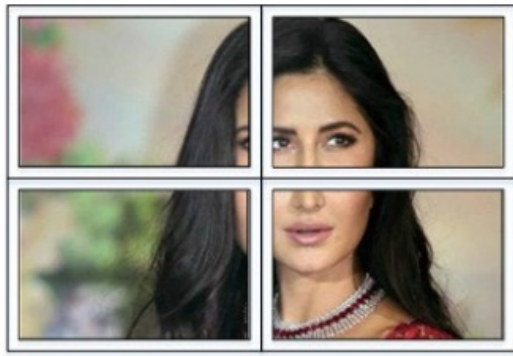
No Bezel Compensation

Correct Bezel Compensation

Layout Save/Load

The Save Scene/Layout and Load Scene/Layout buttons allow a video wall configuration to be saved or recalled at any time. Up to 10 configurations, each with its name, can be saved or recalled. Each Scene can optionally be given a name to identify that video wall scene set-up when saving.

Safety Instructions

To ensure this product's reliable operation and protect the safety of any person using or handling this device while powered, please observe the following instructions.

1. Do not operate either of these products outside the specified temperature and humidity range given in the above specifications.
2. Ensure there is adequate ventilation to allow this product to operate efficiently.
3. Qualified professionals should only repair the equipment as these products contain sensitive devices that any mistreatment may damage.
4. Only use this product in a dry environment. Do not allow any liquids or harmful chemicals to come into contact with these products.

Connection Diagram
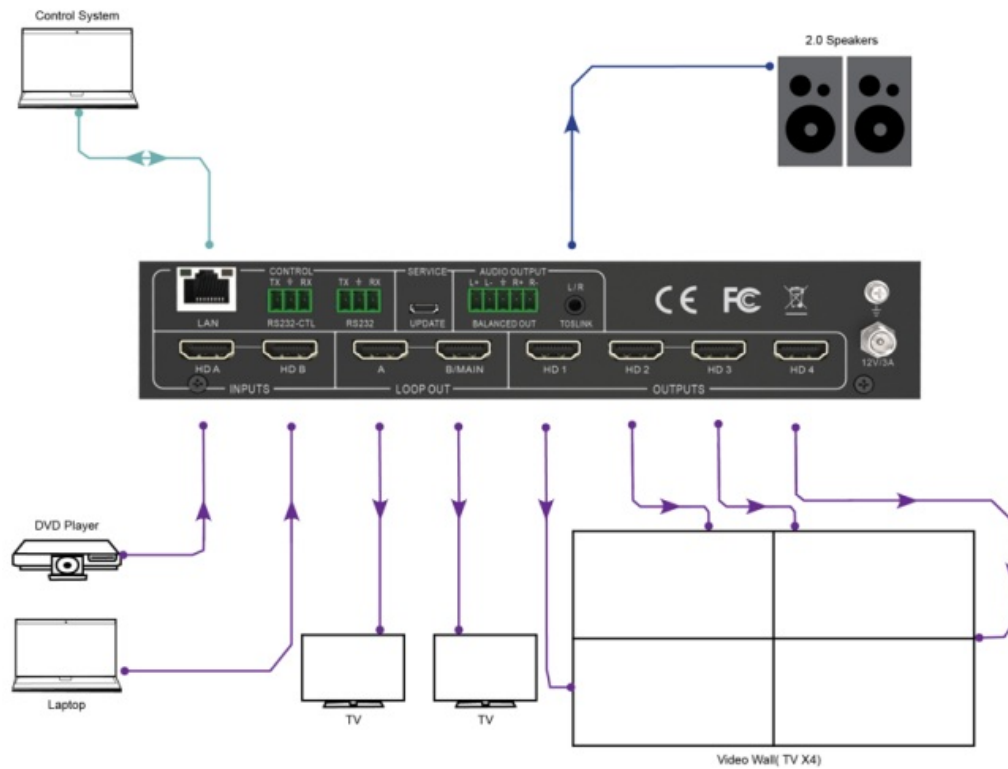
FAQS

Q: Is a surge protection device necessary for this product?

A: Yes, a surge protection device is recommended to protect the equipment from electrical spikes.

Q: What audio formats are supported by this product?

A: The product supports 2.0 channel, 5.1 channel, LPCM, Dolby, AC3, and DTS audio formats.

Documents / Resources

VigilLink VLVW-MX24P HDMI 2.0 Videowall Processor [pdf] User Manual MX24P, VLVW-MX24P HDMI 2.0 Videowall Processor, VLVW-MX24P, HDMI 2.0 Videowall Processor, Videowall Processor, Processor

References

- [User Manual](#)

📁 VigilLink

🏷️ HDMI 2.0 Videowall Processor, MX24P, Processor, Videowall Processor, VigilLink, VLVW-MX24P, VLVW-MX24P HDMI 2.0 Videowall Processor

---

Leave a comment

Your email address will not be published. Required fields are marked *

Comment *

Name

Email

Website

☐ Save my name, email, and website in this browser for the next time I comment.

Post Comment

Search:

e.g. whirlpool wrf535swhz   **Search**