

PARTILINK

HDMI 2.0 Multiview Video Wall Processor V23-H04H04



User Manual (201912 v.1)

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1. Overview

The Partilink V23-H04H04 is a HDMI 2.0 (4K@60Hz 4:4:4) Multiview Video Wall Processor with 4 HDMI inputs and 4 HDMI outputs. It provides various functions including video wall, multiview, matrix switch and scaling all-in-one unit and various type of control including web UI, Telnet, RS232, RS485 and RS422 to manage the video wall system.

Its compact & robust design, 24/7 reliability, multi-task features, flexibility for either simple digital signage display or large-scale control room video wall and up to 8K resolution video wall ability represent a perfect partner for system integrator to plan project solution easily.

2. Features

- Fast switching between input channels and combined multiple source images on video wall
- Display modes including video wall, multiview windowing and matrix
- Supports input resolution and output resolution up to 4K@60Hz 4:4:4 color sampling for each port
- Upscaling up to 4K@60Hz 4:4:4 color sampling and able to downscale
- Multiple windows displaying across multiple screen array without screen boundary.
- Able to build a 4K and even an 8K video wall system for supporting each output 4K@60Hz
- Able to build various video wall array system 1x4, 1x3, 1x2, 2x2, 4x1, 3x1, 2x1
- Supports PiP, PoP, quadview customized window layout configuration and rotation R90°/L90°when in single input video wall
- Control by web UI, Telnet, RS-232, RS-485 and RS-422
- Full HDCP1.4/2.2 support for input signals and output connections
- HDMI digital audio and HDMI audio de-embedding to analog stereo audio for output
- Firmware upgradeable via USB port
- Built-in power supply

3. Specification

MODEL NO.	V23-H04H04	
INPUT/OUTPUT	Inputs	4 x HDMI 2.0
	Output	4 x HDMI 2.0
	Audio Output	terminal block 3 pole, stereo
IMAGE PROCESSING	Display Mode	full screen, PIP, POP, rotation R90°/ L90°, cross screen, quadview, matrix
	Input Resolution	4096 x 2160p (60Hz, 50Hz, 24Hz) 3840 x 2160p (60Hz, 50Hz, 30Hz, 25Hz, 24Hz) 2560 x 1080p (60Hz) 1920 x 1080p (60Hz, 50Hz, 30Hz, 25Hz, 24Hz) 1920 x 1080i (60Hz, 50Hz) 1280 x 720p (60Hz) 720 x 480p (60Hz, 50Hz) 720 x 576p (50Hz) 640 x 480p (60Hz, 50Hz)
	Input Color format	4:4:4
	Output Resolutions	4096 x 2160p (60Hz, 50Hz, 24Hz) 3840 x 2160p (60Hz, 50Hz, 30Hz, 24Hz) 2048 x 2048p (57Hz) 1920 x 1200p (60Hz) 1920 x 1080p (60Hz, 50Hz, 30Hz, 24Hz) 1600 x 1200p (60Hz) 1280 x 720p (60Hz, 30Hz)
	Output Color Format	4:4:4
	Output Color Depth	24 bpp
	Scaler	scaling up to 4K @60Hz, 4:4:4 color sampling and downscaling as well
	Video Bandwidth	up to 18 Gbps
	HDMI Compliance	HDMI 1.4 And HDMI 2.0
	HDCP Compliance	HDCP 1.4 And HDCP 2.2
CONTROL METHODS	RS232 / Telnet	1 x D9 female connector / compatible with third party control system
	RS485 / RS422	5-pole terminal block
	Ethernet Port	1 x RJ45 / compatible with third party control system
	Web UI	browser / touch screen via smartphone or tablet
STABILITY	Safety	hardware structure, no risk of virus interference
	Running Time	no auto-reboot during 365 days/year, 7days/7, 24h/24
FIRMWARE	Possible Upgrade	1 X USB 2.0
POWER	Power Supply	100-240 VAC / 50/60 Hz
	Power Consumption	90W
	Redundant Power Supply	no
ENVIROMENT	Operating Temperature	0°C ~ 40°C
	Operating Temperature	0% ~ 80% RH
	Storage Temperature	-20°C ~ 60°C
PHYSICAL	Dimensions	440 x 370 x 88 mm (L x W x H)
	Weight	3.7 KG

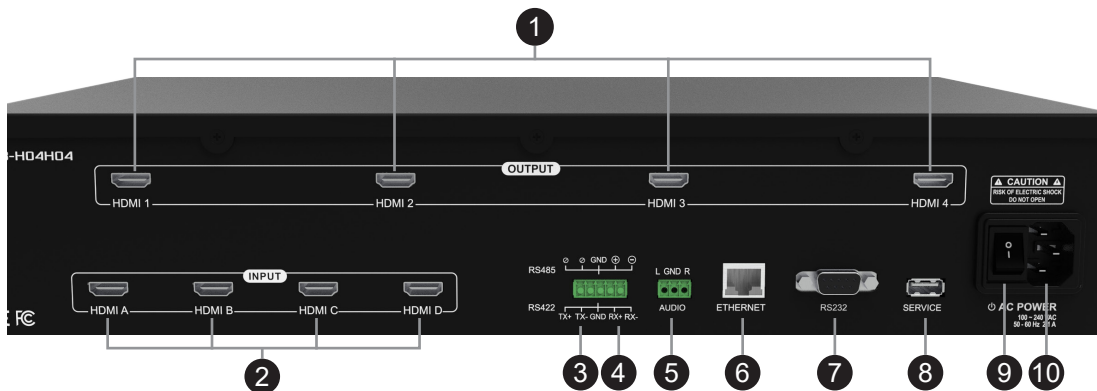
4. Hardware

4.1 Front Panel



No.	Feature	Description
1	Green LED Indicator	Indicate the status of power. The light is static on when power on but flashes when scaling is not working properly
2	Red LED Indicator	Indicate the status of fan. The light is static on when the fan working normally but flashes to alarm when fan not working properly

4.2 Rear Panel



No.	Feature	Description
1	Output	Connect to HDMI display devices (HDMI A ~ HDMI D)
2	Input	Connect to the HDMI sources (HDMI 1~HDMI 4)
3	RS485	5-pin connector. Connect to the PC, NB or other serial controller through IP network
4	RS482	5-pin connector. Connect to the PC, NB or other serial controller through IP network
5	Audio output	3-pin connector. Connect to the audio amplifier: Left, Ground, Right
6	Ethernet	Connect to the PC, NB or other serial controller through IP network
7	RS232/Telnet	DB-9 connector. Connect to the PC, NB or other controller
8	USB	Connect to the PC for firmware upgrade
9	Power Switch	Switch to turn the unit power on or off
10	Socket	Connect the power cord

5. Installation

5.1 Wiring Configuration



1. Connect up to four HDMI sources to the HDMI input port of the V23-H04H04 via HDMI cable
2. Connect up to four HDMI displays (such as monitor, TV, projector) to the output port of V23-H04H04 via HDMI cable
3. Connect the speaker or amplifier to the stereo audio terminal block connectors of V23-H04H04 via the stereo audio cable



4. Connect the power cord to the power socket
5. Connect the PC, network hub, switch or router to the Ethernet port of RJ-45 connector with CATx cable for operating via Ethernet
6. Connect the PC to RS232 D-sub 9 connector of V23-H04H04 via a 9-wire straight cable for control via RS232
7. Connect the PC to RS485/ RS422 connector of V23-H04H04 via a RS232 cable and RS232 to RS485/RS422 adapter.



5.2 Video Wall Wiring Configuration:

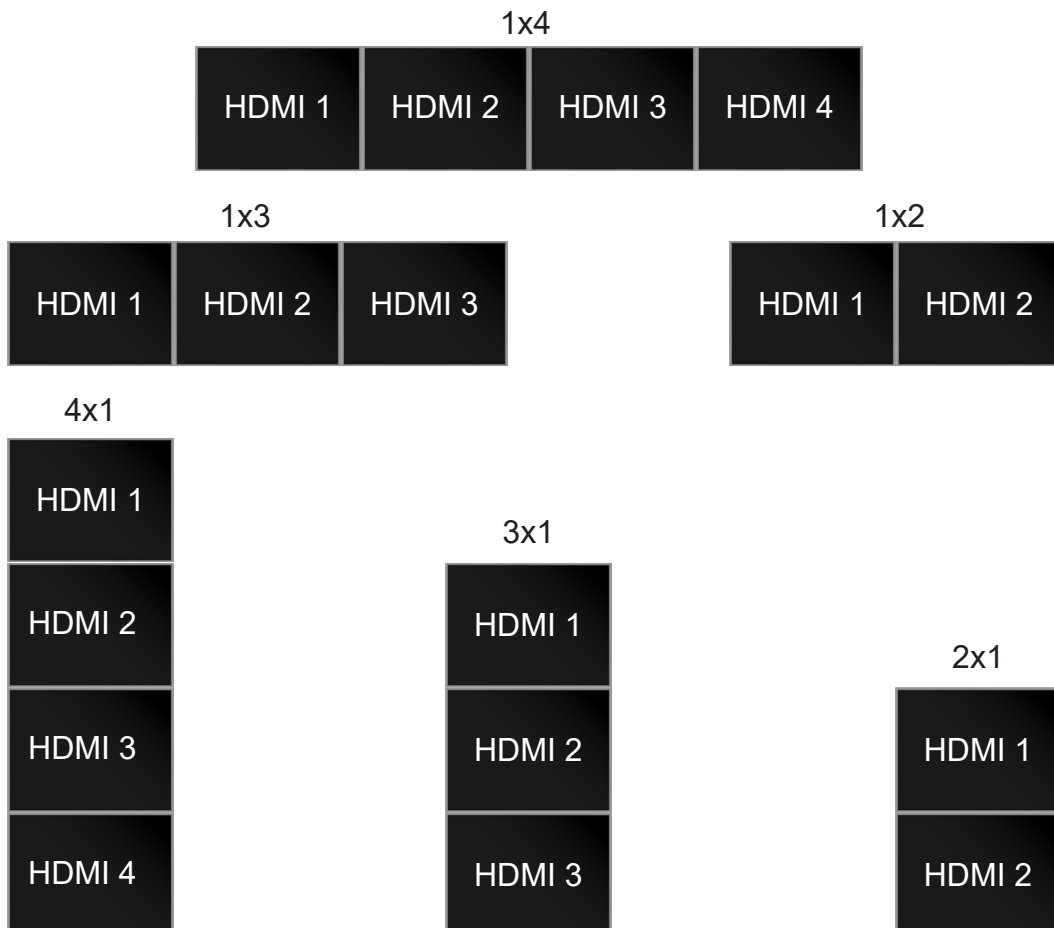
a) For a 2x2 video wall array system wiring setup please follow instruction below

- Connect output HDMI 1 to the top left display
- Connect output HDMI 2 to the top right display
- Connect output HDMI 3 to the bottom left display
- Connect output HDMI 4 to the bottom right display



b) For the 1x2, 1x3, 1x4, 4x1, 3x1, 2x1 video wall array system wiring setup please follow instruction below

- Connect output HDMI 1 to the top or first display
- Connect output HDMI 2, HDMI 3, HDMI 4 to the display in sequence based on the quantity of the video wall array as diagrams below



5.3 Rack Mount Installation:

Attach and screw the rack brackets to the right and left side of the 2U chassis



6. System Operation

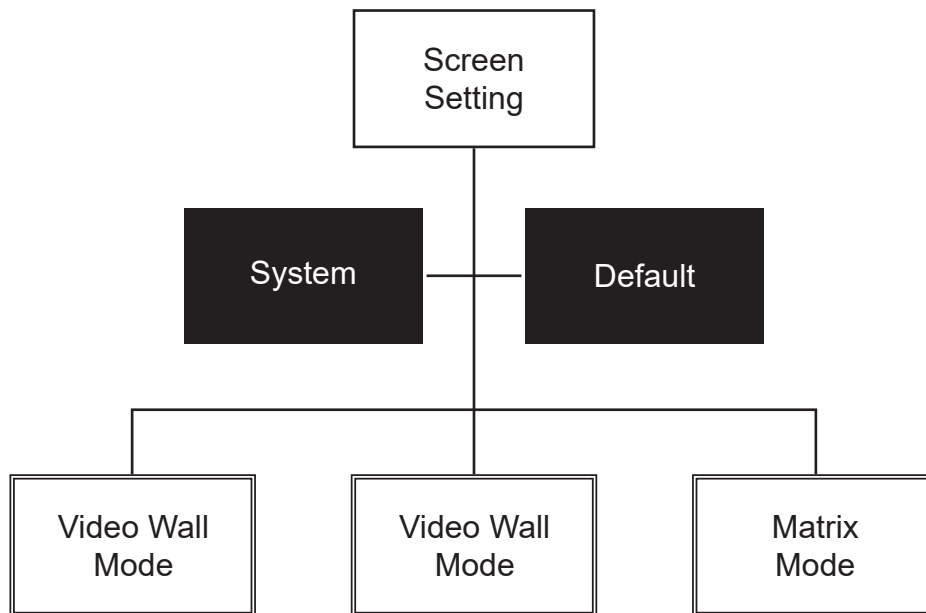
The V23-H04H04 is a multiple functions processor to apply as follows:

- Scaler
- Video Wall Controller
- Multiviewer
- Matrix Switcher

This chapter is system operation guide from screen setting to display mode selection. Please follow steps below to complete your first-time setup.

<<NOTE>> **More detail of web management, please see chapter 7.**

Setting System Operation Flow:



Start from Screen Setting because this is a setting for hardware. In most cases, hardware setting won't be changed frequently.

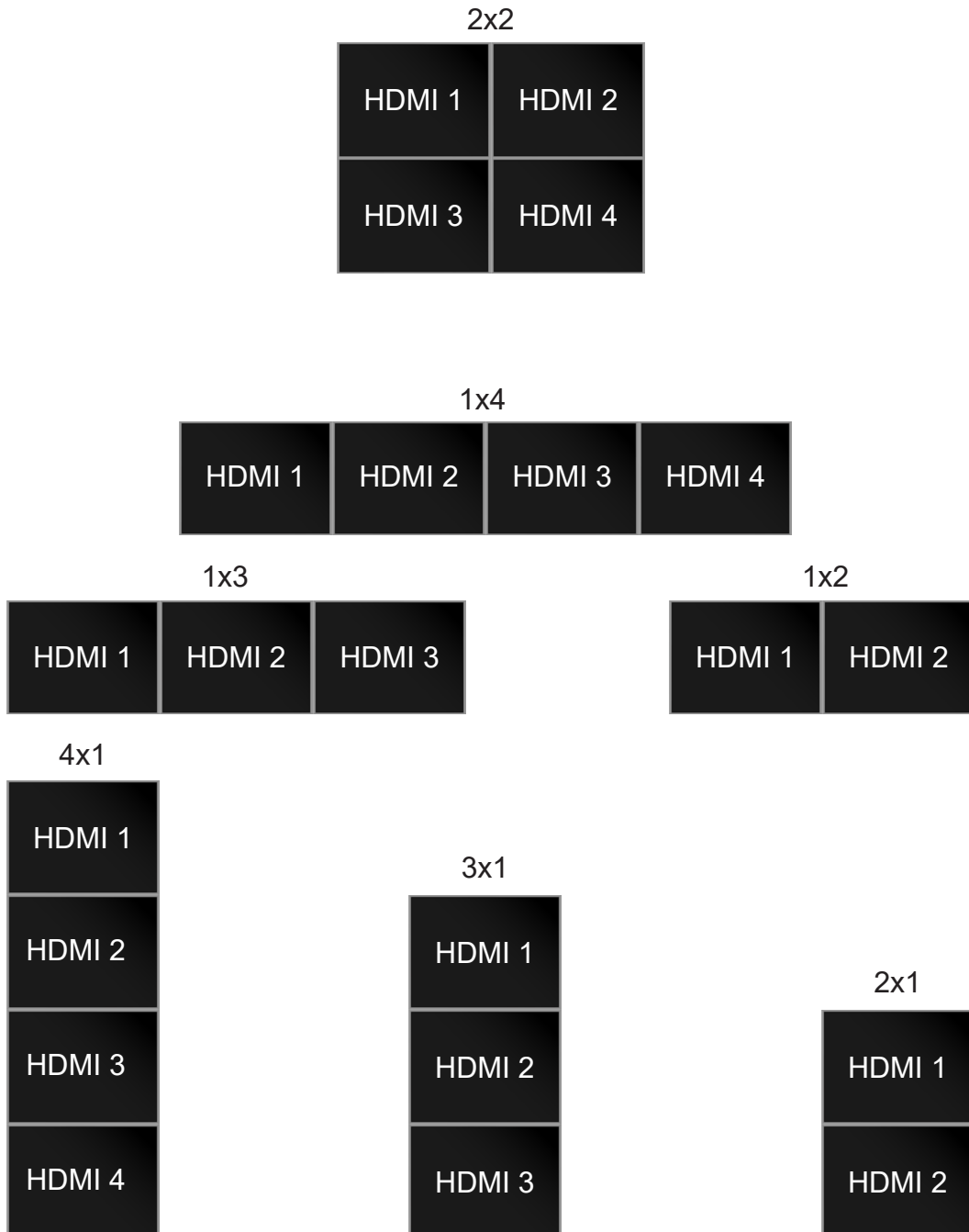
Then there are three display modes can be applied including **Video Wall**, **Multiview** and **Matrix**.

<<NOTE>> **Matrix mode works only when 2x2 screen layout is set.**

User can check the status or default of the processor system any time from System and Default in Web UI.

6.1 System Screen Layout Setting

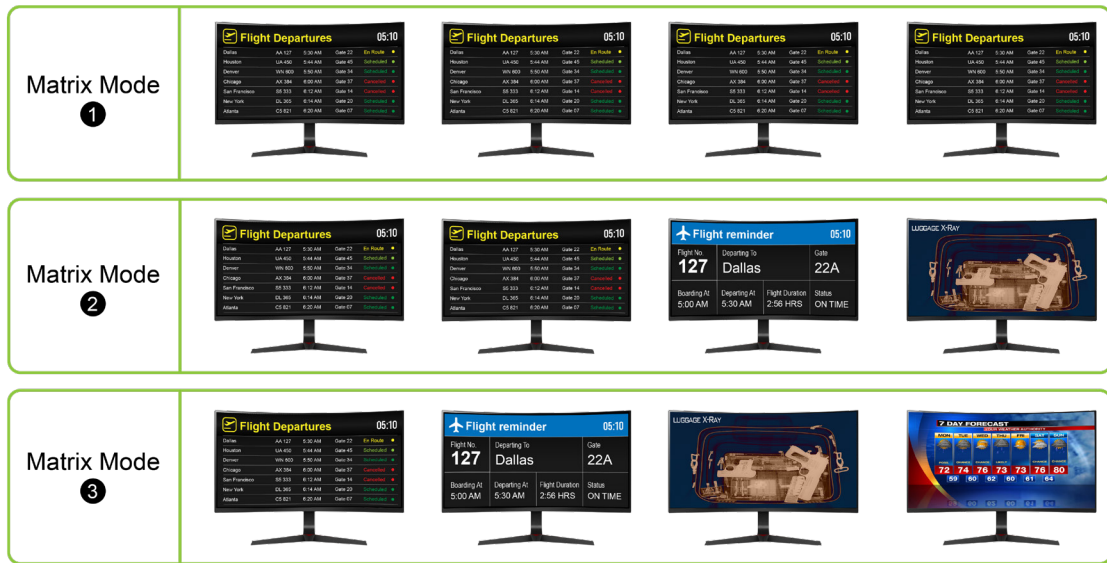
At the beginning, please set up the screen layout for the display system. The V23-H04H04 is capable to build the video wall array system 1x2, 1x3, 1x4, 2x2, 4x1, 3x1, 2x1 or matrix as diagram below. (Please see chapter 5.2 for wiring configuration and chapter 7.2.1 for screen setting)



Single Source Full Screen Display



Matrix Display



6.2 System Display Mode Setting

There are 3 display modes can be applied with V23-H04H04

- Video Wall
- Multiview windowing
- Matrix

Only one mode can be presented at the same time. See instruction for display mode in following session.

6.2.1 Video Wall Mode

The Video Wall mode here means ***the video wall system presenting video from ONE SOURCE only on the wall each time and up to 4 sources can be switched.*** And the video wall array can be built to 1x2, 1x3, 1x4, 2x2, 4x1, 3x1, 2x1 (Please see chapter 7.2.1 and 7.3 for the setting detail and refer to diagrams shown in Chapter 6.1)

6.2.2 Multiview Mode

The Multiview mode here means ***the multiview video wall which presenting multiple windows from maximum 4 sources on the video wall system simultaneously.*** The windows can be configured to display across the multi-screen array, resized and repositioned. (Please see chapter 7.4.3 for the setting detail)

Various screen layouts are available in Multiview mode:

- 5 sets of pre-defined layout mode
- 7 sets of custom multiview layout modes

*Multiview Mode
Pre-Defined Layout*



*Multiview Mode
Custom Layout*



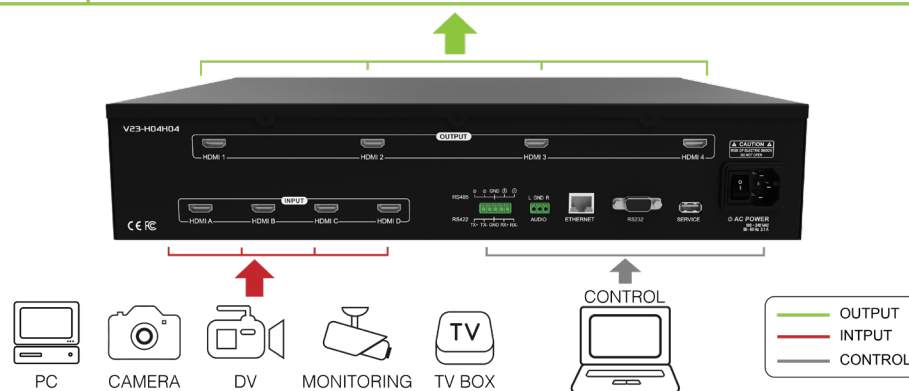
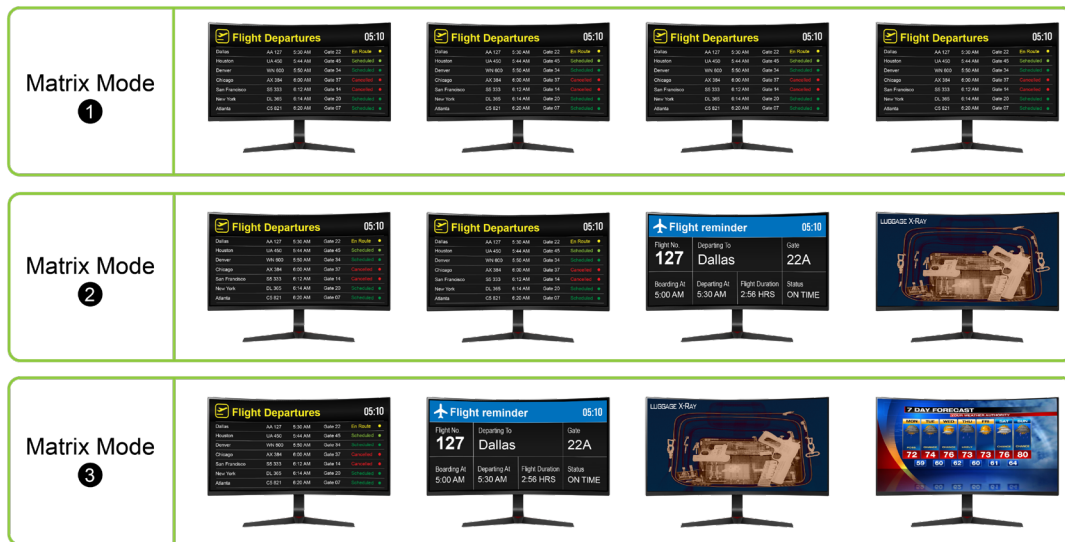
6.2.3 Matrix Mode

The Matrix mode here means **each connected screen presenting video from single source and full screen only without multiview**. The video presenting on each screen can be assigned from the same source or matrix switch. (Please see chapter 7.4.3.1 for setting)
<<NOTE>> To operate Matrix mode, it's a MUST to set up the screen layout as 2x2, i.e. column/ row with 2 screens FIRST. (Please see chapter 7.2.1 for setting)

Matrix Video Wall



Matrix



7. Web Management

To control the video display system via the web UI, please connect a PC to the V23-H04H04 for accessing the web UI via Ethernet directly to control and management. You can either connect the PC to the V23-H04H04 **(a)** via **Ethernet cable** (CATx cable with RJ-45 connector) directly or **(b)** via an **Ethernet hub/ Router with CATx cable** between the PC and the V23-H04H04.

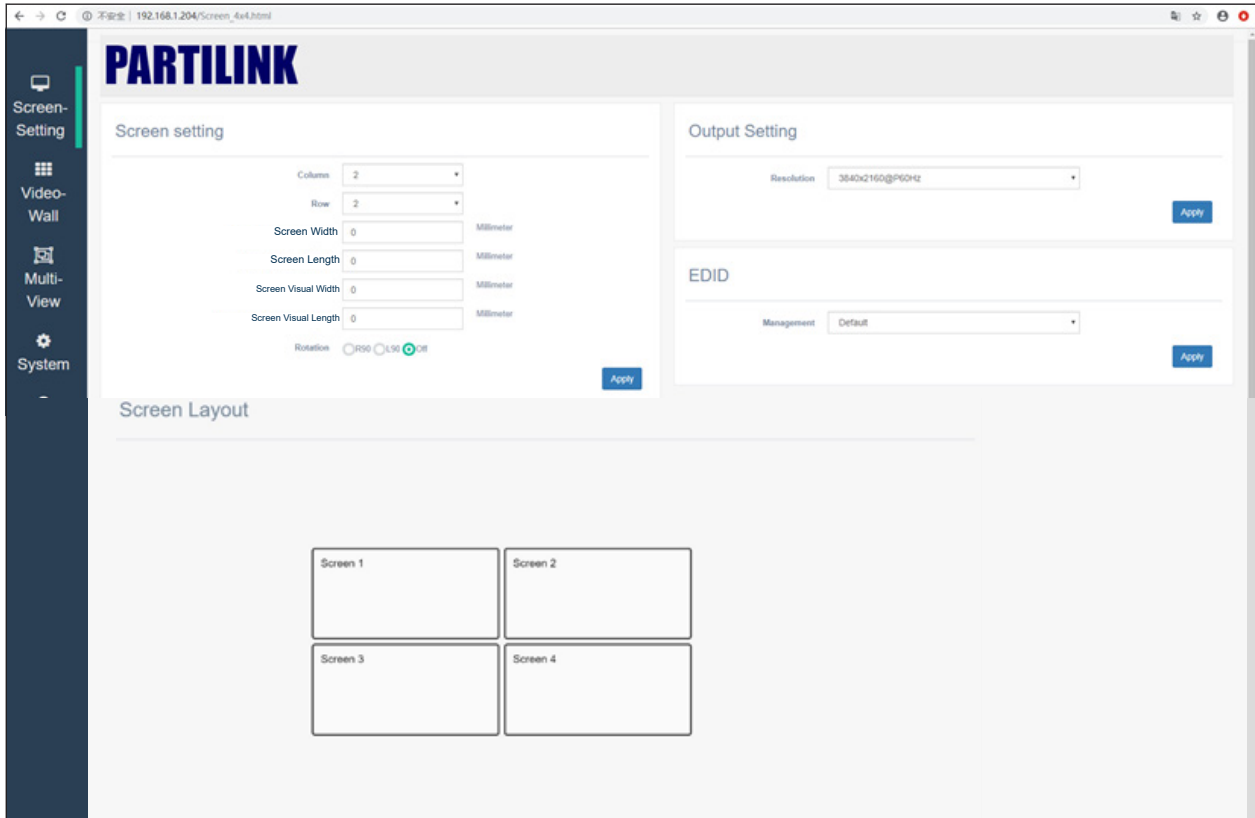
7.1 IP Setting

Access Web UI via Ethernet cable or Ethernet hub/ router, please follow steps below to configure your PC Ethernet IP setting **FIRST!**

- a. Click “Start” > “Control Panel” > “Network and Sharing Center”
- b. Click “Change Adapter Settings”
- c. Highlight the network adapter you want to use for connecting to the device and click “Change Settings” of this connection.
The “Local Area Connection Properties” window for the selected network adapter
- d. Highlight the Internet Protocol Version 4 (TCP/IPv4)
- e. Click “Properties”. The Internet Protocol Properties window is relevant to your IT system
- f. Select “Use the following IP address for static IP address” and fill the details.
For TCP/IPv4 you can use any **IP address within range from 192.168.1.1 to 192.168.1.255 (excluding 192.168.1.203)**
- g. Fill 255.255.255.0 in Subnet mask
- h. Click “OK”
- i. After above steps setting up the IP successfully, please **click into web UI by IP address 192.168.1.203** on IE or Chrome browser

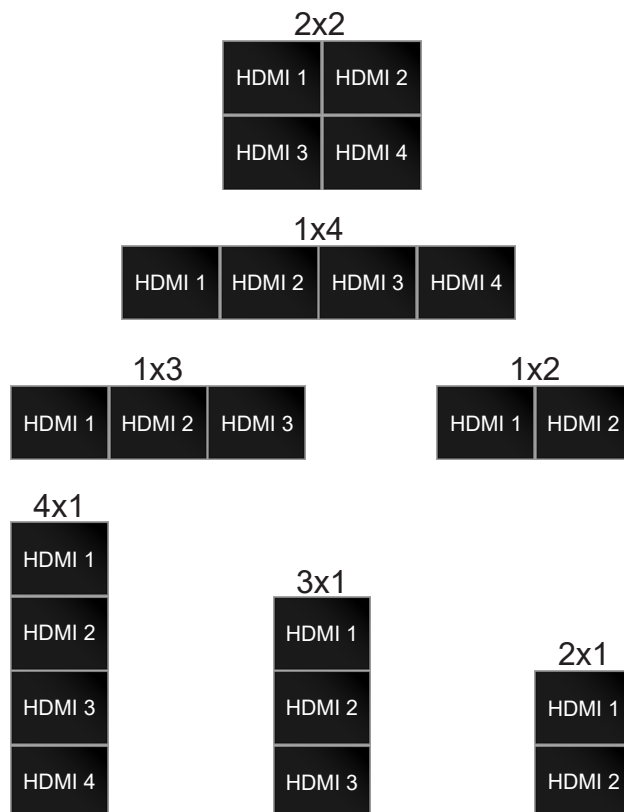


7.2 Screen Setting Page

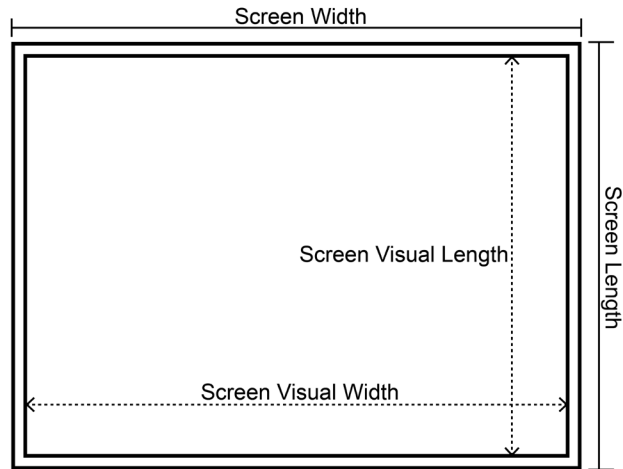


7.2.1 Screen Setting

- Video Wall Array: Input the number of displays in column and row to set up various video wall array including 1x1, 1x4, 1x3, 1x2, 2x2, 4x1, 3x1, 2x1 video wall system.



- **Bezel and Gap Compensation**
To avoid video display twisted, setting up the dimension of connected displays for bezel and gap compensation. Input the screen's outside screen width/ length (including the bezel) and inside visual width/length (excluding bezel) for auto compensation



Screen Setting

Column

Row

Screen Width Millimeter

Screen Length Millimeter

Screen Visual Width Millimeter

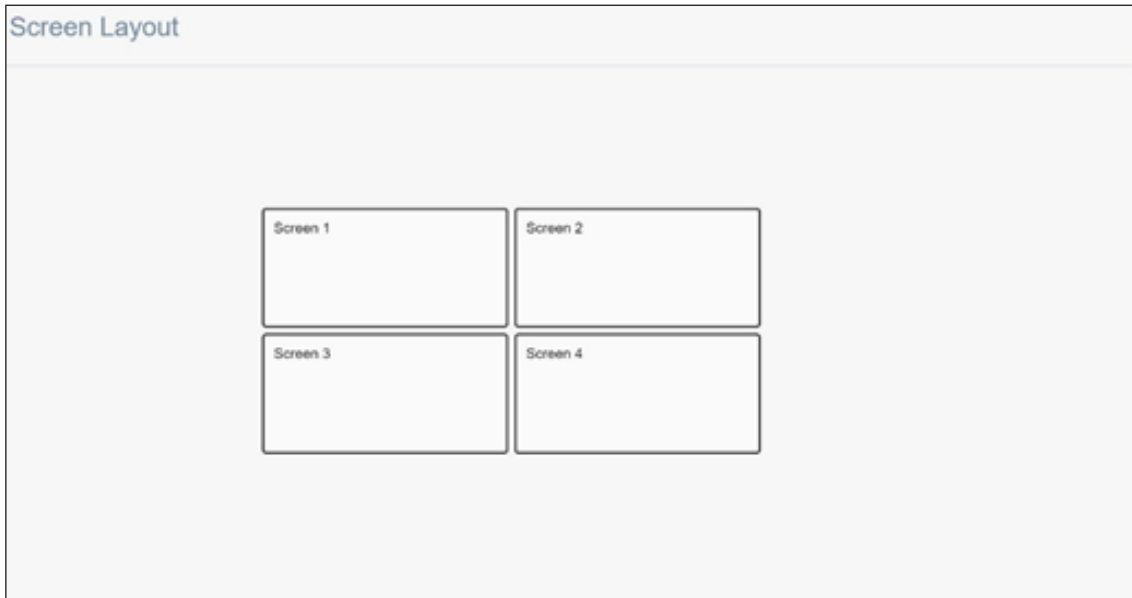
Screen Visual Length Millimeter

Rotation R90 L90 Off

[Apply](#)

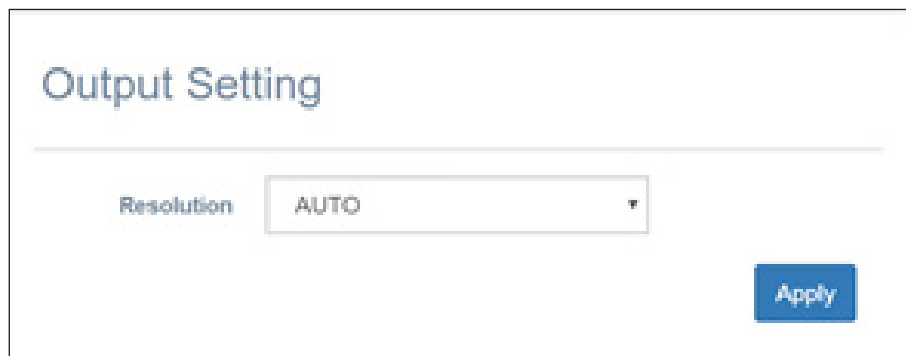
Screen Setting	
Column	Input display number in column
Row	Input display number in row
Screen Width	Input the width (horizontal) of the display (including the bezel of display)
Screen Length	Input the length (vertical) of the display (including the bezel of display)
Screen Visual Width	Input the visual width (horizontal) of the display (excluding the bezel o display)
Screen Visual Length	Input the visual length (vertical) of the display (excluding the bezel of display)
Rotation	Select rotation angle R90°, L90° or Off. The default is Off
Apply	Click “Apply” to confirm the setting

7.2.2 Screen Layout



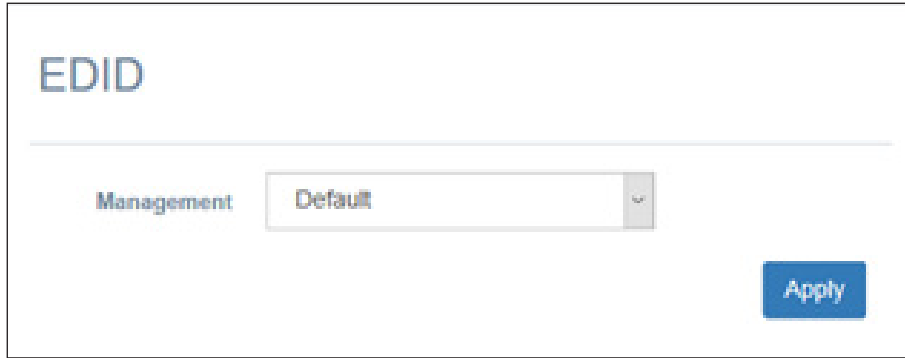
Screen Layout	
Screen Layout	Showing the layout of video wall array set actually

7.2.3 Output Setting



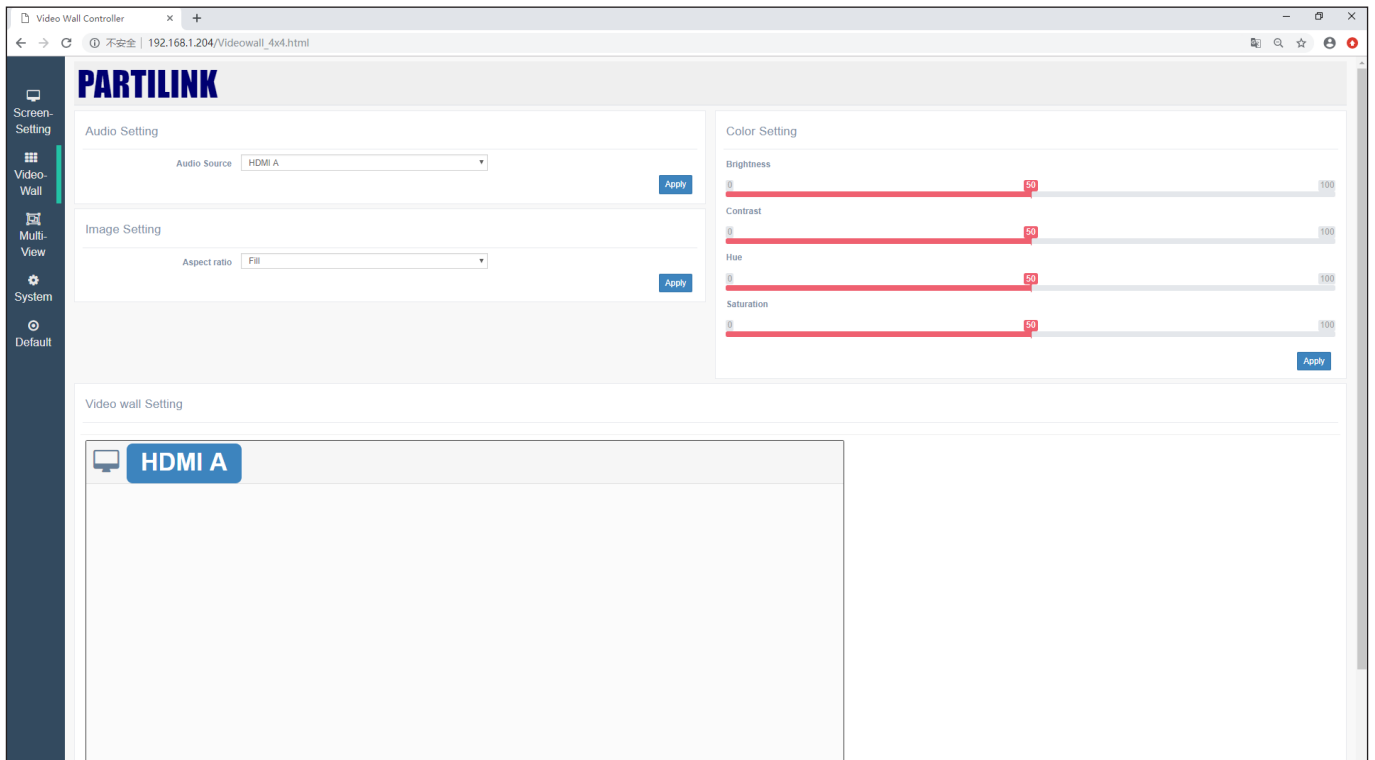
Output Setting	
Resolution	Select output resolution from the resolution table: auto (default) 4096x2160@60Hz, 4096x2160@50Hz, 4096x2160@24Hz, 3840x2160@60Hz, 3840x2160@50Hz, 3840x2160@30Hz, 3840x2160@24Hz, 1920x1080@60Hz, 1920x1080@50Hz, 1920x1080@30Hz, 1920x1080@24Hz, 1280x720@60Hz, 1280x720@30Hz, 1600x1200@60Hz, 1920x1200@60Hz, 2048x2048@57Hz
Apply	Click "Apply" to confirm the setting

7.2.4 EDID



EDID	
Management	Select EDID from the management table:
	Default: the default EDID
	Copy: copy the EDID from Output 1 and apply to all the output ports
Apply	Click "Apply" to confirm the setting

7.3 Video Wall Page



7.3.1 Audio Setting

Audio Setting	
Audio Source	Select source to output audio: HDMI A, HDMI B, HDMI C, HDMI D and Mute
Apply	Click "Apply" to confirm the setting

7.3.2 Image Setting

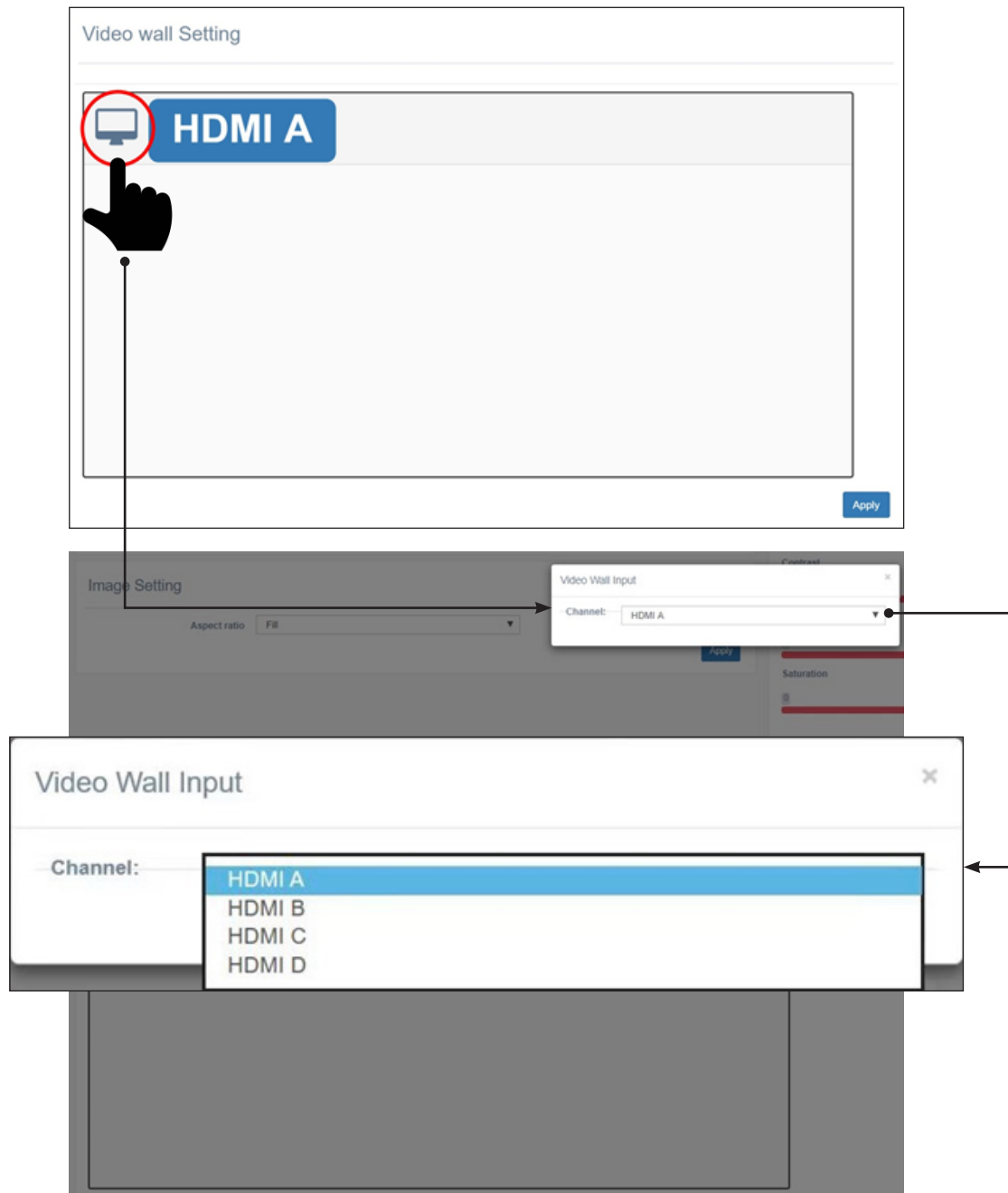
Image Setting	
Aspect Ratio	Select aspect ratio from the option table:
	Fill: Enlarge to full screen size
	Contain: Keep the original aspect ratio
	Cover: Keep the original aspect ratio and enlarge to fit the screen automatically either horizontal or vertical dimension
Apply	Click "Apply" to confirm the setting


7.3.3 Color Setting

The screenshot displays a 'Color Setting' interface with four sliders: Brightness, Contrast, Hue, and Saturation. Each slider has a red bar indicating the current value, which is 50 for all. The sliders are labeled with 0 on the left and 100 on the right. A blue 'Apply' button is located at the bottom right of the interface.

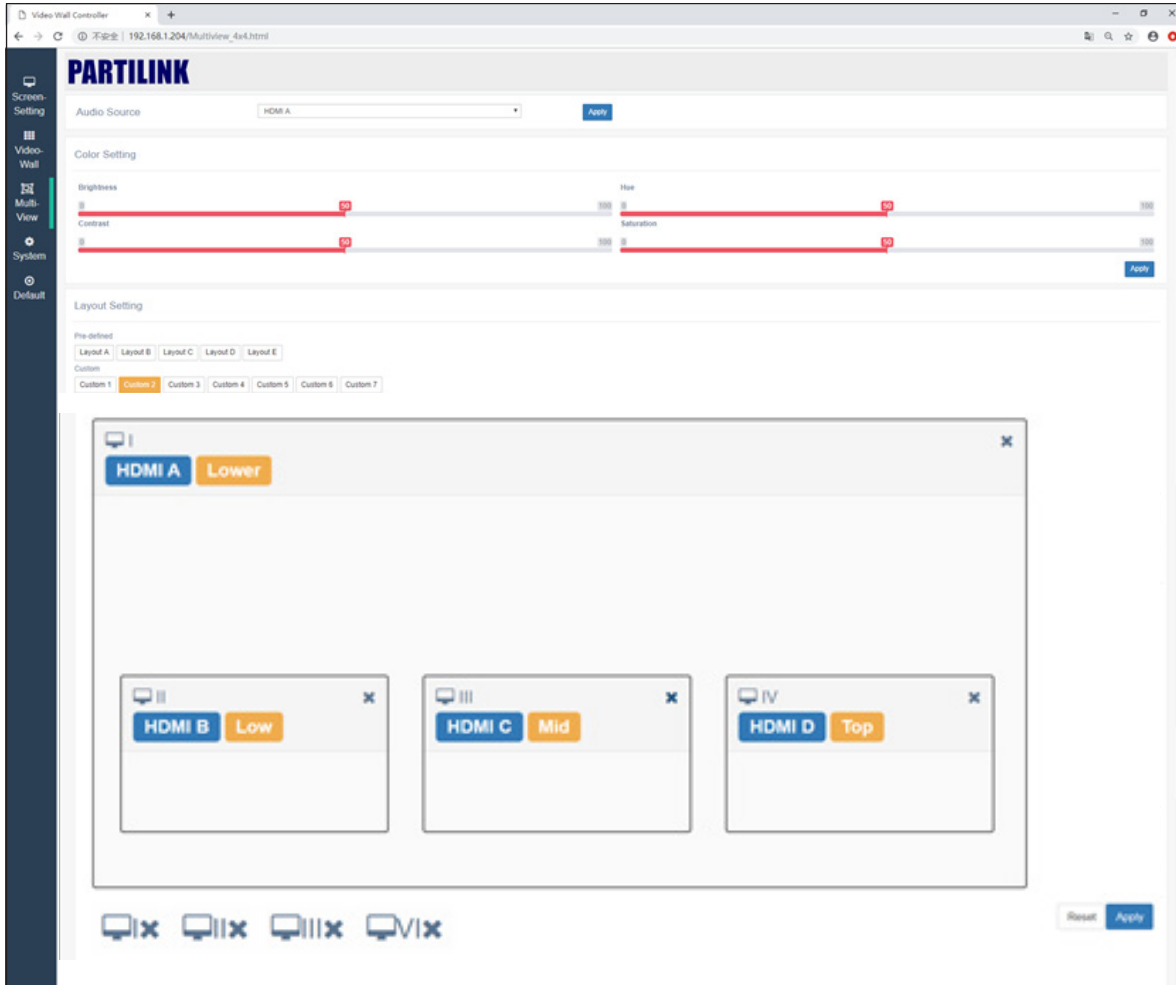
Color Setting	
Brightness	Adjust Brightness value between 0 ~ 100
Contrast	Adjust Contrast value between 0 ~ 100
Hue	Adjust Hue value between 0 ~ 100
Saturation	Adjust Saturation value between 0 ~ 100
Apply	Click "Apply" to confirm the setting

7.3.4 Video Wall Setting

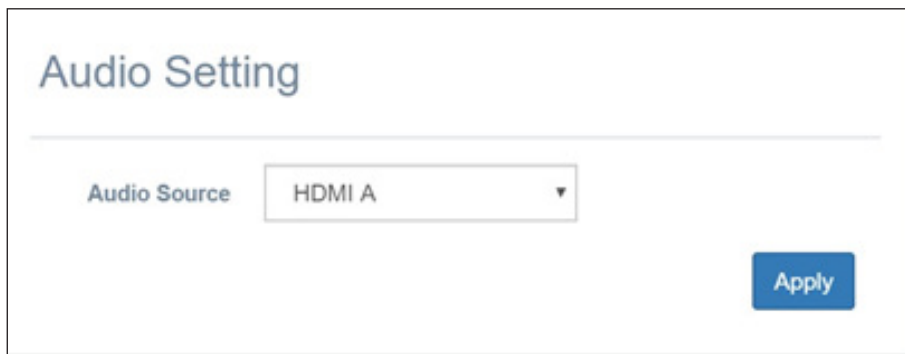


Video Wall Setting	
 Monitor Icon	Click on the icon of monitor (remarked in circle as the diagram shown), then the "Video Wall Input" platform will pop up for setting
Video Wall Input	To select the video source for output when in single source video wall display mode
Channel	Selection table including HDMI A, HDMI B, HDMI C, HDMI D
Apply	Click "Apply" to confirm the setting

7.4 Multi-View Page



7.4.1 Audio Setting



Audio Setting	
Audio Source	Select source to output audio: HDMI A, HDMI B, HDMI C, HDMI D and Mute
Apply	Click "Apply" to confirm the setting

7.4.2 Color Setting


Color Setting	
Brightness	Adjust Brightness value between 0 ~ 100
Contrast	Adjust Contrast value between 0 ~ 100
Hue	Adjust Hue value between 0 ~ 100
Saturation	Adjust Saturation value between 0 ~ 100
Apply	Click "Apply" to confirm the setting

7.4.3 Layout Setting

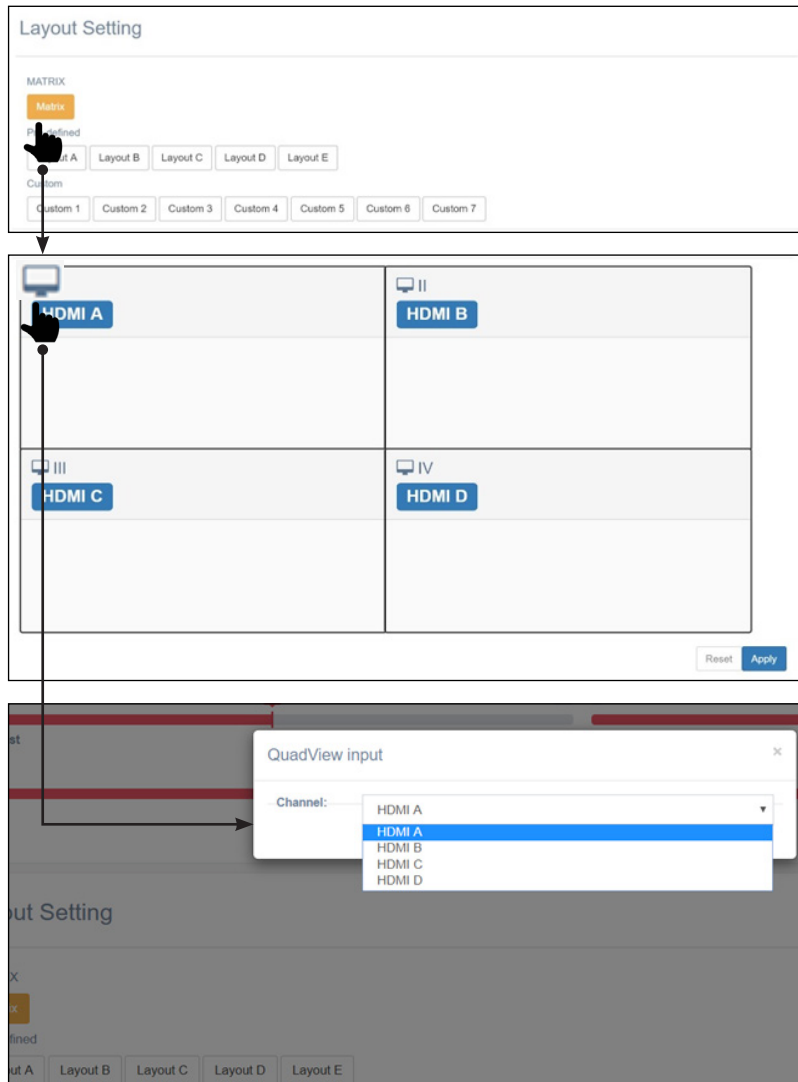
There are three modes to set up in screen layout setting



- Matrix
- Pre-Defined
- Custom

7.4.3.1 Martrix

<<NOTE>>The Matrix mode is available here for setting only when user set up the screen layout to  2x2 , i.e. 2 in column and 2 in row in Video Wall page previously. (Please see chapter 7.2.1 for the 2x2 setting)

Click on the Matrix first



Matrix	
Matrix	Click on the "Matrix" first to access Matrix mode before further setting
 Monitor Icon	Click on the icon of monitor showing in the graphic layout area, then the "Quad View Input" platform will pop up for setting the source.
QuadView Input	Set the source to output for each monitor. Please set up the monitor  I, II, III, IV individually individually
Channel	Selection table including source HDMI A, HDMI B, HDMI C, HDMI D
Apply	Click on "Apply" to confirm the setting

7.4.3.2 Pre-Defined

Layout Setting

MATRIX

Matrix

Pre-defined

Layout A **Layout B** Layout C Layout D Layout E

Custom

Custom 1 Custom 2 Custom 3 Custom 4 Custom 5 Custom 6 Custom 7

Aspect ratio: Fill

Border Color: Disable

HDMI A		
HDMI B	HDMI C	HDMI D

Reset Apply

When screen layout in Pre-Defined mode, the Image Setting will pop up for user to set the aspect ratio and border color






Pre-defined

Layout A Layout B Layout C Layout D Layout E

Custom 1 Custom 2 Custom 3 Custom 4 Custom 5 Custom 6 Custom 7

Aspect ratio: Contain

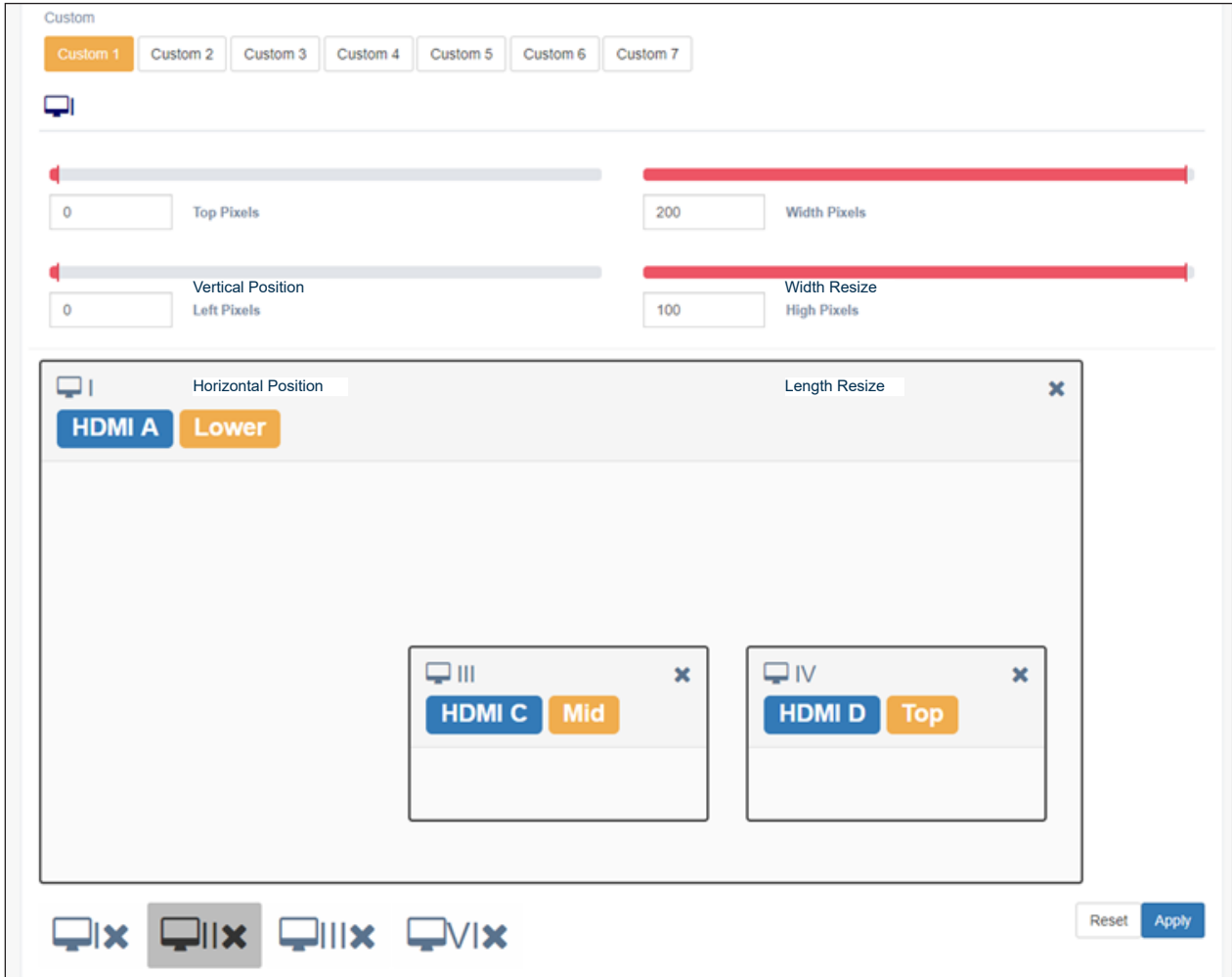
Border Color: Grey







Pre-Defined	
Layout	There are 5 sets pre-defined screen layout to select <div style="display: flex; justify-content: space-around;"> Layout A Layout B Layout C Layout D Layout E </div>
	Layout A 
	Layout B 
	Layout C 
	Layout D 
	Layout E 
<< NOTE >> In this setting, input sources are fixed to the corresponding window.	
Aspect Ratio	Select aspect ratio from the selection table:
	Fill Enlarge to full screen size
	Contain Keep the original aspect ratio
	Cover Keep the original aspect ratio and enlarge to fit the screen automatically either horizontal or vertical dimension
<< NOTE >> This platform pops up for setting after click on the pre-defined layout	
Border Color	Set the border from the selection table:
	Disable (default), White, Grey, Yellow, Blue, Green, Red, Purple, Orange, Pink, Black
	<< NOTE >> This platform pops up for setting after click on the pre-defined layout
Apply	Click "Apply" to confirm the setting

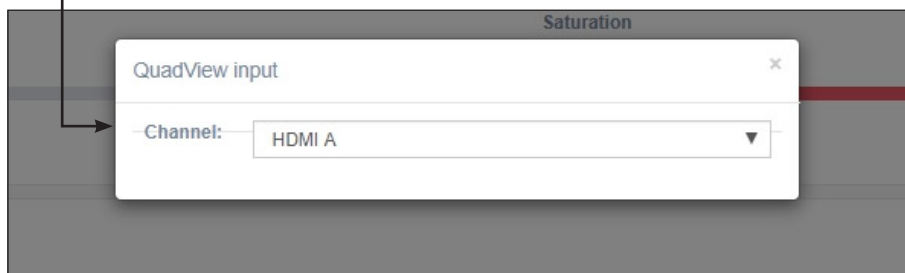
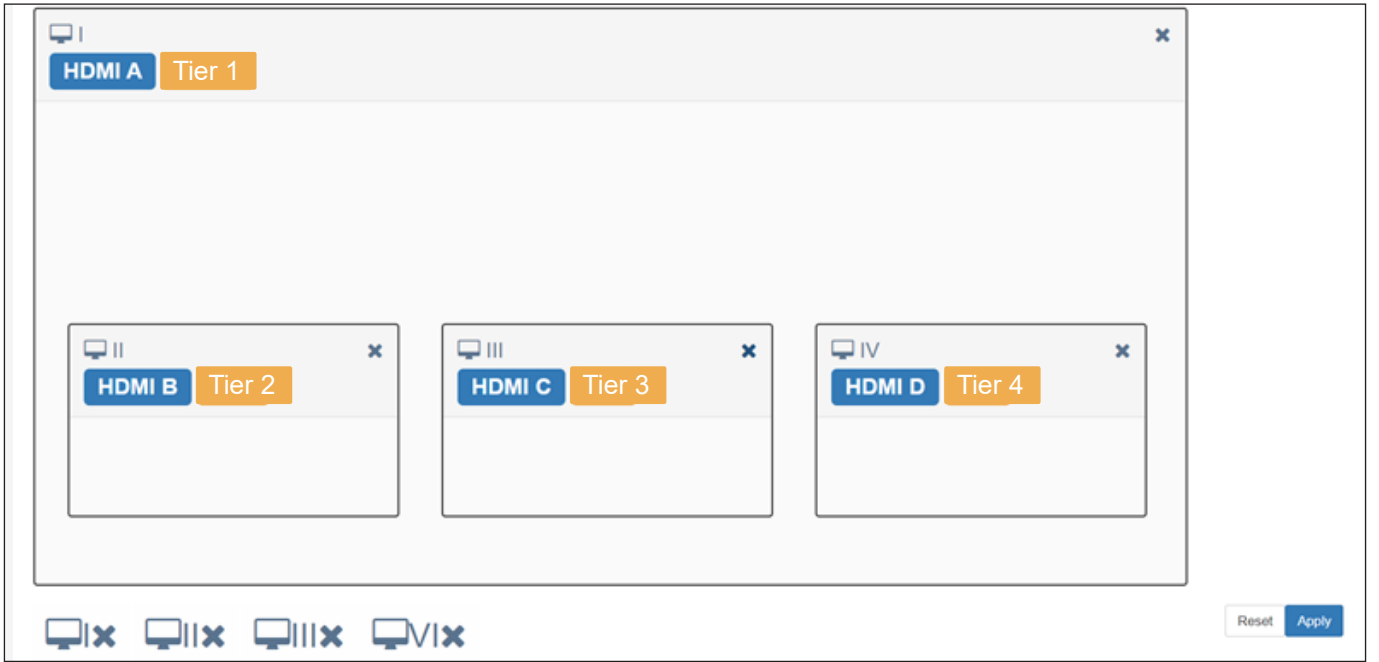
7.4.3.3 Custom

When screen layout in Custom mode, a platform will pop up for user to set the position and size of the windows of each custom screen layout saved from Custom 1 to Custom 7 individually.

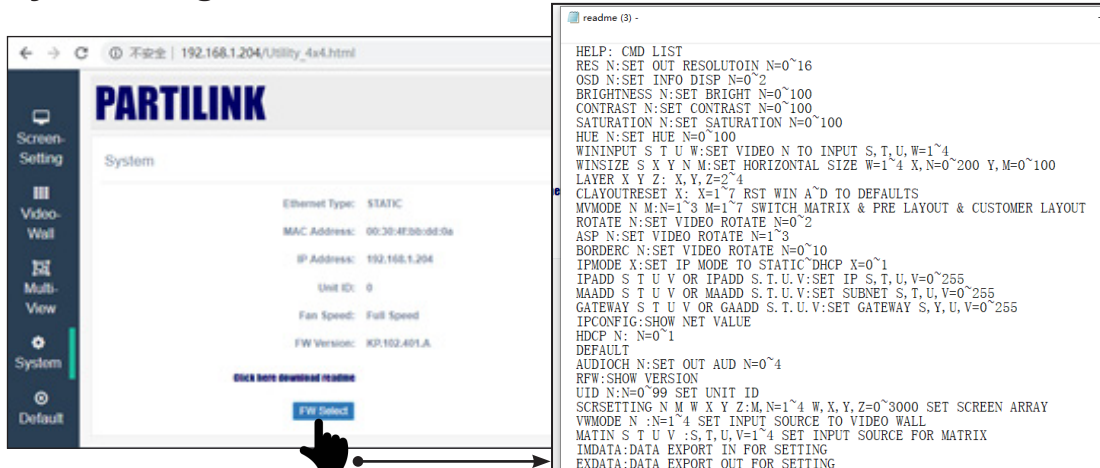
<<NOTE >>Setting for aspect ratio and border line are not available in custom screen layout mode



Custom	
Custom Layout	<p>Maximum 7 sets of custom screen layout can be defined and stored here to select. Users are free to reset and restore the custom screen layout for application.</p> <div style="display: flex; justify-content: center; gap: 10px;"> Custom 1 Custom 2 Custom 3 Custom 4 Custom 5 Custom 6 Custom 7 </div>
	<p>There are two ways to define the custom layout including:</p> <p>(a) drag the bar to set up the size and position of the windows individually</p> <p>(b) drag the windows shown in the graphic layout area by mouse to set up the size and position of the windows individually</p>
 Monitor Icon	<p>Click on the icon of monitor showing in the graphic layout area, then the "Quad View Input" platform will pop up for setting the source.</p>
Quadview Input	<p>Setting the source to output for each monitor. Please set up the monitor I, II, III, IV individually</p>
Channel	<p>Selection table including HDMI A, HDMI B, HDMI C, HDMI D</p>
Vertical Position	<p>Set the vertical position of selected window by dragging the bar to desired location</p>
Horizontal Position	<p>Set the horizontal position of selected window by dragging the bar to desired location</p>
Width Resize	<p>Set the width of selected window by dragging the bar to desired width</p>
Length Resize	<p>Set the length of selected window by dragging the bar to desired length</p>
<p><<NOTE>> The Pixel Bar platform pops up for setting in Custom mode only</p>	
Window Tier	<p>Indicate the tier of the overlapped windows with Tier 1 (bottom, i.e. the background layer), Tier 2, Tier 3 and Tier 4 (top). Click on the windows shown in the graphic layout area to adjust the tier individually</p>
Window Enable/Disable 	<p>To enable and disable the windows I/II/III/IV individually for each custom layout:</p> <p>(a) Click on the icon of each window shown in the bottom of web page to enable/ disable</p> <div style="display: flex; justify-content: center; gap: 10px;">     </div> <p>(b) Or click on the icon "X" of each window shown in the graphic layout area to disable individually</p>
	<p><<NOTE>> This platform pops up for setting in custom layout mode only</p>
Apply	<p>Click "Apply" to confirm the above setting</p>

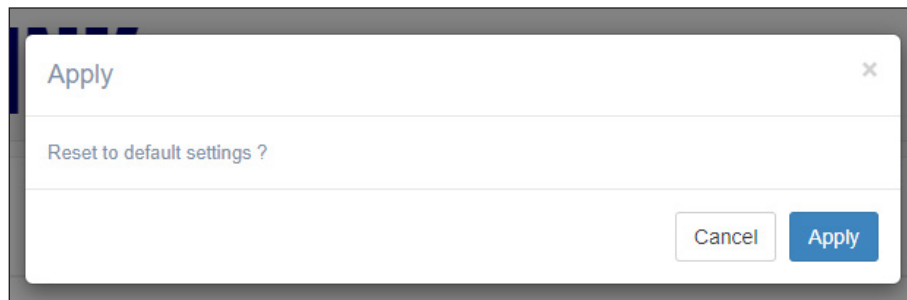


7.5 System Page



System	
Ethernet Type	Select Ethernet type STATIC or DHCP
Mac Address	Indicate the MAC address of the unit
IP Address	Indicate the IP address of the system currently
Unit ID	Indicate the ID of the unit. ID ranges between 00~99
Fan Speed	Indicate the operating fan speed currently. There are two speed modes including "Full Speed" and " Low Speed ". The fan speed is adjusted automatically based on the operating environment.
FW Version	Indicate the firmware version of the unit
FW Select	To update the firmware, please access and select the file of firmware stored in the connected PC which is applied to manage and control this video wall processor system for upgrade.
Click here download readme	Single click to download the command list and save in the desired space of connected PC

7.6 Default Page



Default	
Apply	Click "Apply" to confirm the setting back to default
Cancel	Click "Cancel" to stop the process to default

8. Serial/ Telnet Communication

The V23-H04H04 can be operated and controlled by the serial/Telnet commands

8.1 Series Port Setting

Please apply following information to set up the serial port communication

- Baud Rate: 19200bps
- Data Bit: 8 bits
- Parity: None
- Flow Control: None
- Stop Bit: 1

8.2 Telnet Setting

Please follow Chapter 7 to process IP address setting.

TPC port of Telnet: 23

8.3 Command List

The command is composed as format clarified below.

Command Format:

ID	Command	Parameter
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- ID: The default is 0
- Command: see command list below
- Parameter: see command list below

Example: Set Output resolution to Auto mode.

ID	Command	Parameter
0	RES	0

Click "Enter" after the command.

COMMAND LIST

Web UI	Action	Command	Parameter	Value	Note
Screen Setting	Screen Setting	SCRSETTING	N M W X Y Z	M: 1~4 N: 1~4 W: 1~3000 X: 1~3000 Y: 1~3000 Z: 1~3000	Screen layout N: Column M: Row Bezel W: Screen Width X: Screen Length Y: Screen Visual Width Z: Screen Visual Length
	Output Resolution	RES	N	N: 0~16 0: Auto (default) 1: 4096*2160@60Hz 2: 4096*2160@50Hz 3: 4096*2160@24Hz 4: 3840*2160@60Hz 5: 3840*2160@50Hz 6: 3840*2160@30Hz 7: 3840*2160@24Hz 8: 1920*1080@60Hz 9: 1920*1080@50Hz 10: 1920*1080@30Hz 11: 1920*1080@24Hz 12: 1280*720@60Hz 13: 1280*720@30Hz 14: 1600*1200@60Hz 15: 1920*1200@60Hz 16: 2048*2048@57Hz	
Video Wall	Video Wall Mode	VWMODE	N	N: 1~4, Input Channel 1: HDMI A 2: HDMI B 3: HDMI C 4: HDMI D	
	Audio Channel	AUDIOCH	N	N: 0~4 0: MUTE 1: HDMI A 2: HDMI B 3: HDMI C 4: HDMI D	Global
	Color Setting	BRIGHTNESS	N	N:0~100	Global
		CONTRAST	N	N:0~100	
		HUE	N	N:0~100	
SATURATION		N	N:0~100		
Rotation (clockwise)	ROTATE	N	N: 0~2 0: Off 1: R90 2:L90		
Aspect Ratio	VWASP	N	N: 1~3 1: Fill 2: Contain 3: Cover		

Multiview Page	Multiview Layout	MVMODE	N M	a) When N=1: Matrix mode M=N/A b) When N=2: Pre-defined Layout M=1~5: Pre-defined Layout A~E c) When N=3: Custom Layout M=1~7: Custom Layout 1~7	N:1~3 1: Matrix, available on 2x2 screen setting 2: Pre-defind Layout 3: Costom Layout M: 1~7
	Input Channel of Matrix	MATIN	S T U V	S: 1~4 T: 1~4 U: 1~4 V: 1~4	S: Quadrant I, 1~4 represents HDMI A~D, T: Quadrant II, 1~4 U: Quadrant III, 1~4 V: Quadrant IV, 1~4
	Audio Channel	AUDIOCH	N	N: 0~4: 0: MUTE 1: HDMI A 2: HDMI B 3: HDMI C 4: HDMI D	Global
	Color Setting	BRIGHTNESS	N	N:0~100	Global
		CONTRAST	N	N:0~100	
		HUE	N	N:0~100	
		SATURATION	N	N:0~100	
	Rotation (clockwise)	ROTATE	N	N: 0~2 0: Off 1: R90 2:L90	
	Aspect Ratio	MVASP	N	N: 1~3 1: Fill 2: Contain 3: Cover	
	Border Color	BORDERC	N	N: 0~10 0 white 1 gray 2 yellow 3 blue 4 green 5 red 6 purple 7 orange 8 pink 9 black 10 disable	Working on Pre-layout mode only
Window Size/ Position	WINSIZE	S X Y N M	X: 0~200 Y: 0~100 N: 0~200 M: 0~100	X: window's horizontal position Y: window's vertical position M: window's width N: window's length	
Input Channel of Window	WININPUT	S T U V	S: 1~4 T: 1~4 U: 1~4 V: 1~4	Available on Customer layout S: 1~4, input channel for Window I T: 1~4, input channel for Window II U: 1~4, input channel for Window III V: 1~4, input channel for Window IV	
Layer Priority	LAYER	X Y Z	X: 2~4 Y: 2~4 Z: 2~4	Tier1(Background) > Tier 2 > Tier 3 > Tier 4(Top) Tier 1 (Background): Window I (Fix) X: Tier 2, Window II/Window III/Window IV Y: Tier 3, Window II/Window III/Window IV Z: Tier 4 (Top), Window II/Window III/Window IV	
Custom Layout reset	CLAYOUTRESET	X	X:1~7	Reset Custom layout 1~7	

Web UI	Action	Command	Parameter	Value	Note
Others	SHP	HDCP	N	N:0~1 0: Off 1: On	
	IP Mode	IPMODE	X	X: 0~1 X: 0, Static X: 1, DHCP	X: 0, Static X: 1, DHCP
	IP Address	IPADD	S T U V S.T.U.V		IPADD 192 168 1 22 IPADD 192.168.1.22
	MA Address	MAADD	S T U V S T U V		
	Gateway	GATEWAY	S T U V S T U V		
	IPConfig	IPCONFIG			Show IP/MAC/Gateway address
	Unit ID	UID	N		N: 0~99
	FW Version	RFW			Show FW version
	OSD	OSD	N	N: 0~2	0: Always Off
					1: Always On
					2: Show 10 seconds
Export Data	EXDATA			Export setting to USB drive	
Import Data	IMDATA			Import setting to USB drive	

9. Package Contents

The V23-H04H04 package includes following items.

- 1) The video wall processor unit x 1 piece
- 2) Power cords including US x 1 piece and EU standard x 1 piece
- 3) Rack mount bracket x 1 set
- 4) M4 x 6mm screws x 10 pieces
- 5) Foot pad x 4 pieces
- 6) User manual x 1 piece

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V23-H04H04 User manual (201912 V.1)