VW-HDMI-4K

1x4 HDMI 4K Video Wall Splitter (Cascadable)

SAFETY INFORMATION

1. To ensure the best results from this product, please read this manual and all other documentation before operating your equipment. Retain all documentation for future reference.

2. Follow all instructions printed on unit chassis for proper operation.

3. To reduce the risk of fire, do not spill water or other liquids into or on the unit, or operate the unit while standing in liquid.

4. Make sure power outlets conform to the power requirements listed on the back of the unit. Keep unit protected from rain, water and excessive moisture.

5. Do not attempt to clean the unit with chemical solvents or aerosol cleaners, as this may damage the unit. Dust with a clean dry cloth.

6. Do not use the unit if the electrical power cord is frayed or broken. The power supply cords should be routed so that they are not likely to be walked on or pinched by items placed upon or against them, paying particular attention to cords and plugs, convenience receptacles, and the point where they exit from the appliance.

7. Do not force switched or external connections in any way. They should all connect easily, without needing to be forced.

8. Always operate the unit with the AC ground wire connected to the electrical system ground. Precautions should be taken so that the means of grounding of a piece of equipment is not defeated.

9. AC voltage must be correct and the same as that printed on the rear of the unit. Damage caused by connection to improper AC voltage is not covered by any warranty.

10. Turn power off and disconnect unit from AC current before making connections.

11. Never hold a power switch in the "ON" position.

12. This unit should be installed in a cool dry place, away from sources of excessive heat, vibration, dust, moisture and cold. Do not use the unit near stoves, heat registers, radiators, or other heat producing devices.

13. Do not block fan intake or exhaust ports. Do not operate equipment on a surface or in an environment which may impede the normal flow of air around the unit, such as a bed, rug, carpet, or completely enclosed rack. If the unit is used in an extremely dusty or smoky environment, the unit should be periodically "blown free" of foreign dust and matter.

14. To reduce the risk of electric shock, do not remove the cover. There are no user serviceable parts inside. Refer all servicing to qualified service personnel. There are no user serviceable parts inside.

15. When moving the unit, disconnect input ports first, then remove the power cable; finally, disconnect the interconnecting cables to other devices.

16. Do not drive the inputs with a signal level greater than that required to drive equipment to full output.

17. The equipment power cord should be unplugged from the outlet when left unused for a long period of time.

18. Save the carton and packing material even if the equipment has arrived in good condition. Should you ever need to ship the unit, use only the original factory packing.

19. Service Information Equipment should be serviced by qualified service personnel when:
    A. The power supply cord or the plug has been damaged.
    B. Objects have fallen, or liquid has been spilled into the equipment.
    C. The equipment has been exposed to rain.
    D. The equipment does not appear to operate normally, or exhibits a marked change in performance.
    E. The equipment has been dropped, or the enclosure damaged.

CONTENTS

DEAR CUSTOMER

Thank you for purchasing this product. For optimum performance and safety, please read these instructions carefully before connecting, operating or adjusting this product. Please keep this manual for future reference.

INTRODUCTION

The VW-HDMI-4K 1x4 UHD TV Wall allows a HDMI 4K2K input source to be freely arranged on (4) displays (TVs or monitors) with a bezel correction function. The friendly control application for the TV Wall system has never been easier. This application leads the user through single or total device control. The device supports video output timings up to WUXGA@60RB and 1080p@60Hz, audio formats up to 7.1CH LPCM at 192KHz sampling rate based on the input source EDID. All the operation and control can be done through Telnet and RS-232. This product has a 3 year warranty.

PACKAGE CONTENTS

Before attempting to use this unit, please check the packaging and make sure the following items are contained in the shipping carton:

- VW-HDMI-4K 1x4 HDMI 4K UHD TV Wall Splitter
- 12V 3A DC Power Adaptor
- Users Guide

SYSTEM REQUIREMENTS

- Input source equipment such as DVD/Blu-ray players or any HDMI signal and output HDTV displays

APPLICATIONS

- Hypermarket display
- Public advertisement
- Digital Presentations
- Stock Market

SAFETY PRECAUTIONS

Please read all instructions before attempting to unpack, install or operate this equipment and before connecting the power supply. Please keep the following in mind as you unpack and install this equipment:

- Always follow basic safety precautions to reduce the risk of fire, electrical shock and injury to persons.
- To prevent fire or shock hazard, do not expose the unit to rain, moisture or install this product near water.
- Never spill liquid of any kind on or into this product.
- Never push an object of any kind into this product through any openings or empty slots in the unit, as you may damage parts inside the unit.
- Do not attach the power supply cabling to building surfaces.
- Use only the supplied power supply unit (PSU). Do not use the PSU if it is damaged.
- Do not allow anything to rest on the power cabling or allow any weight to be placed upon it or any person walk on it.
- To protect the unit from overheating, do not block any vents or openings in the unit housing that provide ventilation and allow for sufficient space for air to circulate around the unit.

DISCLAIMERS

The information in this manual has been carefully checked and is believed to be accurate. We assume no responsibility for any infringements of patents or other rights of third parties which may result from its use.

We assume no responsibility for any inaccuracies that may be contained in this document. We make no commitment to update or to keep current the information contained in this document.

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FEATURES

- HDMI with 4K2K supported, HDCP and DVI compliant
- Output source signal to (4) displays as a full image with adjustable Bezel correction
- Supports Input PC resolutions from VGA~WUXGA and HDTV from 480i~1080p and 4K2K@24/25/30Hz
- Supports different input and output resolutions selectable from the TV wall application
- Supports AC3/DTS/Dolby Digital Plus/Dolby TrueHD/Dolby Atmos and DTS-HD Master Audio
- Supports RS-232 and Telnet controls

SPECIFICATIONS

- **Video Bandwidth:** 300MHz/9GBps
- **Input Ports:** (1) HDMI (Female type), (1) Control (RJ45), (1) RS-232 (D-sub 9-pin), (1) USB (Service only)
- **Output Ports:** (4) HDMI (Female type)
- **HDMI Cable Distance:** 8bit 1080p ~32 ft/10M, 4K2K ~16 ft/5M
- **IR Frequency:** 30~50KHz
- **Baud Rate:** 115200Bps
- **ESD Protection Human Body Model:**
    - ± 8KV (air-gap discharge)
    - ± 4KV (contact discharge)
- **Power Supply:** 12V 3A DC (US/EU standards, CE/FCC/UL certified)
- **Dimensions (WxDxH):** 17 x 10.5 x 1.75 in
- **Weight:** 6.4 lb (Unit only) / 9.7 lb (Net)
- **Chassis Material:** Metal
- **Color:** Black
- **Operating Temperature:** 0˚C~40˚C / 32˚F~ 104˚F
- **Storage Temperature:** −20˚C~60˚C / −4˚F~140˚F
- **Relative Humidity:** 20~90% RH (non-condensing)
- **Power Consumption:** 12.98W

As product improvements are continuous, specifications are subject to change without notice.

FRONT PANEL

❶ **POWER:** Press the **POWER** button to power on the unit or set to standby mode. When power is disconnected, press this button again while connected to the power to reset the system back to default factory settings. When the power is on, press and hold this button for (3) seconds, the output monitor will show **"USB Host Update MCU Firmware Start…"**, then plug the USB (with the Firmware upgrade bin file) to upgrade automatically. If monitor shows **"Mass Storage Host Upgrade Running"**, it means that the upgrade is proceeding, after the upgrade is finished, the unit will reboot.

Note: If monitor did not show **"Mass Storage Host Upgrade Running"**, this means the firmware upgrade was not a success, please power off the unit and try again.

REAR PANEL
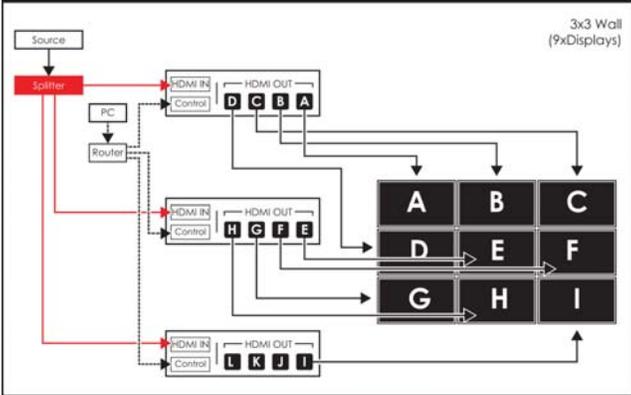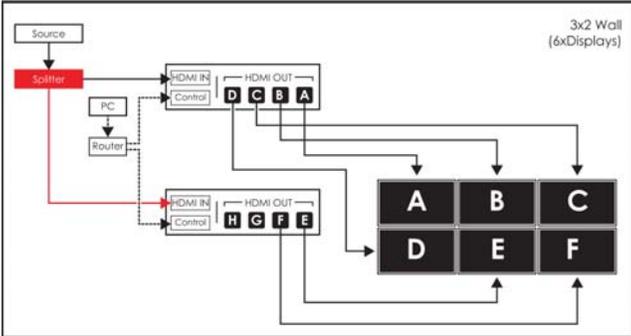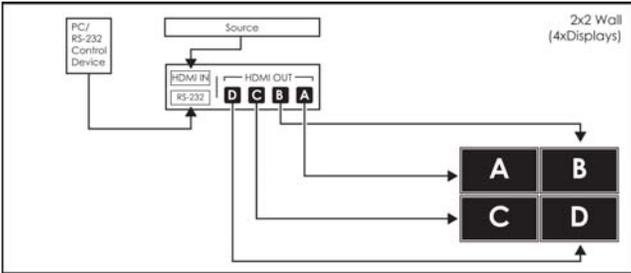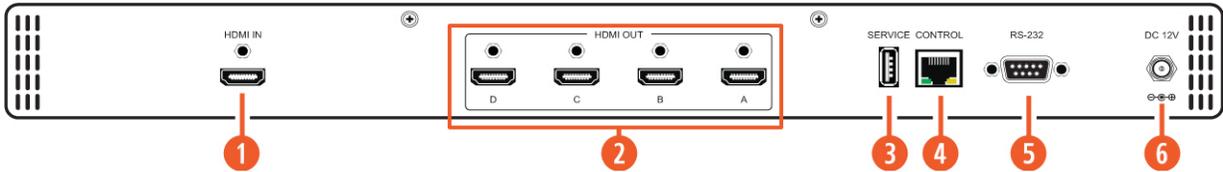
❶ **HDMI IN:** Connects with HDMI source equipment such as a DVD/Blueray player and/or PC/Laptop devices.

❷ **HDMI OUT A~D:** Connects with HDMI TV/displays for output image display. It is suggested that the connection sequence should be placed as the diagrams shows for TV wall set up.

❸ **SERVICE:** This slot is for firmware update use only. Works with the power button.

❹ **CONTROL:** Connects to an active network for Telnet control. Controlled with the **"VW-HDMI-4K"** application for multi-device control.

❺ **RS-232:** Connects from a PC/Laptop with D-Sub 9pin cables for RS-232 command control over the device.

Note: RS-232 control system is limited to a single Video Wall unit. Whereas Telnet can control multi-video Wall units.

❻ **DC 12V:** Plug for the 12V DC power supply, which is included in the package, to the unit, then connect the adaptor to an AC outlet.

RS-232 PROTOCOLS

INPUT TIMING SUPPORTED	
PIN	Definition
1	NC
2	TxD
3	RxD
4	NC
5	GND
6	NC
7	NC
8	NC
9	NC

REMOTE CONTROLLER (PC)	
PIN	Definition
1	NC
2	RxD
3	TxD
4	NC
5	GND
6	NC
7	NC
8	NC
9	NC

Baud Rate: 115200bps
Data Bit: 8 bits
Parity: None
Flow Control: None
Stop Bit: 1

RS-232 & TELNET COMMANDS

COMMAND	DESCRIPTION	PARAMETER		
HELP(?)	Shows Command List	NONE		
HELP(?) N	Shows Command Description	N=Command name		
RRES	Requests Current Output Resolution	NONE		
SRES N1	Sets Output Resolution to N1	N1=0 (640x480@60) 1 (480p60) 2 (576p50) 3 (800x600@60) 4 (848x480@60) 5 (1024x768@60) 6 (720p50) 7 (720p60) 8 (1280x768@60) 9 (1280x800@60)	10 (1280x960@60) 11 (1280x1024@60) 12 (1360x768@60) 13 (1366x768@60) 14 (1400x1050@60) 15 (1440x900@60) 16 (1600x900RB@60) 17 (1600x1200@60) 18 (1680x1050@60) 19 (1080p50)	20 (1080p60) 21 (1920x1200RB@60) 22 (2048x1152RB@60) 23 (1080i50) 24 (1080i60) 25 (1080p24) 26 (1080p25) 27 (1080p30) **28 (Native)**
RINS	Gets Input Resolution	0 (VGA60) 1 (VGA72) 2 (VGA75) 3 (VGA85) 4 (WXGA60) 5 (WXGA75) 6 (XGA60) 7 (XGA70) 8 (XGA75) 9 (XGA85) 10 (SXGA60) 11 (SXGA75) 12 (SVGA56) 13 (SVGA60) 14 (SVGA72) 15 (SVGA75)16 (SVGA85) 17 (DTV_480p60) 18 (DTV_576p50)	19 (DTV_480i60) 20 (DTV_576i50) 21 (HDTV_720p50) 22 (HDTV_720p60) 23 (HDTV_1080i50) 24 (HDTV_1080i60) 25 (HDTV_1080p24) 26 (HDTV_1080p50) 27 (HDTV_1080p60) 28 (V848_480_60) 29 (V852_480_60) 30 (V854_480_60) 31 (V1024_852_60) 32 (V1024_1024_60) 33 (V1280_800_60) 34 (V1280_960_60) 35 (V1360_768_60) 36 (V1366_768_60) 37 (V1440_900_60)	38 (V1400_1050_60) 39 (V1360_1024_60) 40 (V1600_900_60) 41 (V1600_1200_60) 42 (V1680_1050_60) 43 (V1920_1200_60) 44 (V2048_1080_24_1) 45 (V2048_1080_24_2) 46 (V2048_1080_60) 47 (V2048_1152_1) 48 (V2048_1152_2) 49 (V2048_1152_3) 50 (V3840_2160_24) 51 (V3840_2160_25) 52 (V3840_2160_30) 53 (V4096_2160_24) 54 (K_NO_SIGNAL) 55 (K_NO_SUPPORT)

RS-232 & TELNET COMMANDS

COMMAND	DESCRIPTION	PARAMETER
ROSDD	Requests Current OSD Display State	NONE
SOSDD N1	Sets OSD Display to Enable/Disable	N1=0 **(OFF)**, 1 (ON)
ROSDH	Requests Current OSD Horizontal Position	NONE
SOSDH N1	Sets OSD Horizontal Position to N1	N1=0~20 **(5)**
ROSDV	Requests Current OSD Vertical Position	NONE
SOSDV N1	Sets OSD Vertical Position to N1	N1=0~20 **(5)**
ROSDT	Requests OSD Display Current Timeout Setting	NONE
SOSDT N1	Sets OSD Display Timeout Setting	N1=0 (Off), 5~50 **(50)**
ROSDG	Requests OSD Gain Correction	NONE
SOSDG N1	Sets OSD Gain Value	N1=0~10 **(2)**
SOSDI	Shows OSD Information On/Off	NONE
SOSDR	Resets All OSD Settings	NONE
RBRI N1	Requests Channel N1 Brightness Value	N1= 1~4
SBRI N1 N2	Sets Channel N1 Brightness Value to N2	N1= 1~4, N2=0~100 **(50)**
RCON N1	Requests Chanel N1 Contrast Value	N1=1~4
SCON N1 N2	Sets Channel N1 Contrast Value to N2	N1= 1~4, N2=0~100 **(50)**
RSAT	Requests Current Saturation Value	NONE
RSAT N1	Request Channel N1 Current Saturation Value	N1=1~4
SSAT N1 N2	Set Channel N1 Saturation Value to N2	N1= 1~4, N2=0~100 **(50)**
RHUE N1	Requests Channel N1 Current Hue Value	N1=1~4
SHUE N1 N2	Sets Channel N1 Hue Value to N2	N1= 1~4, N2=0~100 **(50)**
SIMRE N1	Resets Brightness/Contrast/Saturation/Hue Value to Default	N1=1 (Brightness), 2 (Contrast), 3 (Saturation), 4 (Hue)
SPIRE	Resets all Channels Brightness, Contrast, Saturation, Hue Value to Default	NONE
RIPM	Requests Current IP Mode	NONE
SIPM N1	Sets IP Mode to DHCP or Static	N1=**0 (Static)**, 1(DHCP) (192.168.1.50)
RIPA	Requests Current Static IP Address to Screen	NONE
SIPA X.X.X.X	Sets Static IP Address	X=0~255 (192.168.1.50)
RMAA	Requests Current Static Subnet Address	NONE
SMAA X.X.X.X	Sets Static Subnet Address	X=0~255 (255.255.255.0)
RGAA	Requests Current Static Gateway Address	NONE
SGAA X.X.X.X	Sets Static Gateway Address	X=0~255 (192.168.1.50)
RETIME	Requests Current Ethernet Timeout	NONE
SETIME N1	Sets Ethernet Timeout	N1=0 (OFF), 1 (10 Minutes), 2 (20 Minutes), 3 (30 Minutes), 4 (40 Minutes), 5 (50 Minutes), 6 (60 Minutes)
RLINK	Requests Ethernet Address	NONE

RS-232 & TELNET COMMANDS

COMMAND	DESCRIPTION	PARAMETER			
RMUTE	Requests Current Mute	NONE			
SMUTE N1	Sets Mute Audio	N1=0 (Unmute), 1 (Mute)			
RPOW	Requests Current Power State	NONE			
SPOW N1	Sets the Unit Power On/Off	N1=0 (Off), 1 (On)			
RVER	Requests Version	NONE			
SREL	Relinks the Unit in 2 Seconds	NONE			
SDEF	Resets the Unit to Factory Defaults	NONE			
RMN	Requests Current TV Wall Format	NONE			
SMN N1 N2	Sets TV Wall N1 Row and N2 Column	N1=1~15 (Row), N2=1~15 (Column)			
RBH	Requests TV Wall Horizontal Bezel Correction	NONE			
SBH N1	Sets TV Wall Horizontal Bezel Correction	N1=0~255			
RBV	Requests TV Wall Vertical Bezel Correction	NONE			
SBV N1	Sets TV Wall Vertical Bezel Correction	N1=0~255			
RBEZ	Requests Current Bezel Correction State	NONE			
SBEZ N1	Sets Bezel Correction Enable/Disable	N1=0 (Off), 1 (On)			
RMDN	Requests Unit ID Number	NONE			
SMDN N1	Sets Unit ID Number to N1	N1=0~255			
SWDE	Resets All TV Wall Settings	NONE			
SHOT N1	Fast Setting TV Wall Format from Hotkey N1	N1=0 (1x1) 1 (2x2) 2 (3x3) 3 (4x4) 4 (5x5) 5 (6x6)	6 (2x3) 7 (3x2) 8 (3x4) 9 (4x2) 10 (4x3) 11 (4x5)	12 (1x2) 13 (2x1) 14 (1x3) 15 (3x1) 16 (1x4) 17 (4x1)	18 (2x4) 19 (3x5) 20 (5x4) 21 (5x3) 22 (6x2) 23 (6x3)
SFAVE N1	Saves Current TV Wall Settings to N1	N1=1~5			
RFAVE N1	Recalls TV Wall Settings from N1	**N1=1~5**			

Note:

1. All the RS-232 commands will not be executed unless followed with a carriage return. All commands are case sensitive.

2. RS-232 control is set to a single device only, not for use with Cascade/Bypass output connection devices.

3. Bold values are the default settings.

TELNET CONTROL

To access the Telnet control in Windows 7, click on the **'Start'** menu and type **"cmd"** in the search field then press **ENTER**. Under Windows XP go to the **'Start'** menu and click on **"Run"**, type **"cmd"** then press **ENTER**.

With Mac OS X, go to **Go→Applications→Utilities →Terminal**. See reference.

```
Microsoft Windows [Version 6.1.7601]
Copyright (c) 2009 Microsoft Corporation.  All rights reserved.

C:\Users\Administrator>telnet 192.168.5.80 23
```

Once in the command line interface (CLI) type **'telnet'**, then the IP address of the unit (default is **192.168.1.50**) and hit **ENTER**. If the Telnet port (the unit's port) is not set to the default of **"23"** then the correct port number will need to be entered after the IP address as shown.

```
Command List
--------------------
HELP
RRES
SRES
ROSDD
SOSDD
ROSDH
SOSDH
ROSDV
SOSDV
ROSDT
SOSDT
ROSDG
SOSDG
SOSDI
SOSDR
RBRI
SBRI
RCON
SCON
RSAT
SSAT
RHUE
SHUE
SIMRE
SPIRE
RIPM
SIPM
RIPA
SIPA
RMAA
SMAA
RGAA
SGAA
RETIME
SETIME
RLINK
SREL
RMUTE
SMUTE
RPOW
SPOW
SDEF
RVER
RMN
SMN
RBH
SBH
RBV
SBV
RBEZ
SBEZ
RMDN
SMDN
SHOT
SFAVE
RFAVE
SVDE
```

This will bring us to the unit which we wish to control. Type **'HELP'** to list the available commands.

Note:

1. All the commands will be not executed unless followed by a carriage return. Commands are case sensitive.

2. If the IP is changed then the IP Address required for Telnet access will also change accordingly.

PC APPLICATION CONTROL

Visit A-NeuVideo.com to download the software application for the VW-HDMI-4K and execute it to control the Video Wall system.

Note: Before installing, remove any former versions that are existing. Once the application is installed successfully, click and open the **"Video Wall Set"**.
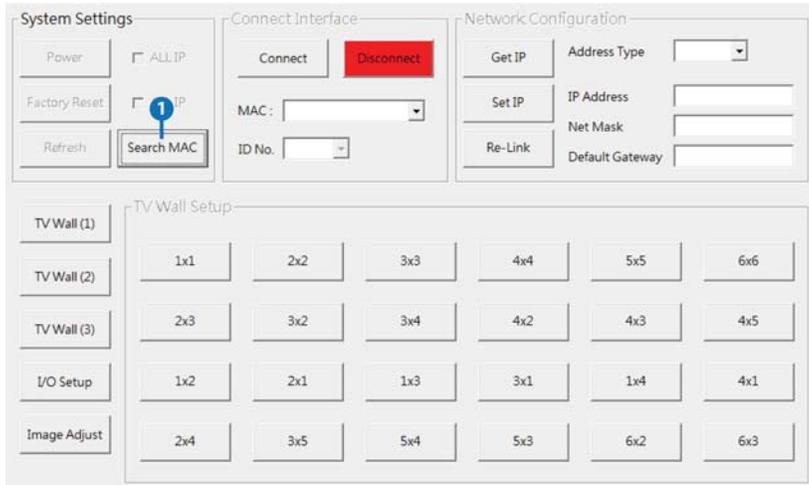
❶ **SEARCH MAC:** Click on **"Search MAC"** to confirm how many TV Wall unit(s) are within the network system, then select the unit you wish to control.

Note: This action should be executed every time when the unit is Powered On or reset or re-run the **"VW-HDMI-4K"** application.

Select the unit that is to be adjusted then press **"Connect"** to connect the unit.

Every time the unit is connected successfully, a dialog will appear showing **"refresh completed"** based on the selected MAC, the application will display the current unit's status. However, image display will not be refreshed automatically and can only be refreshed manually.

When using more than (1) unit for a TV Wall setting, setting up the unit's ID number is required to ensure the correct display of each single TV wall image.
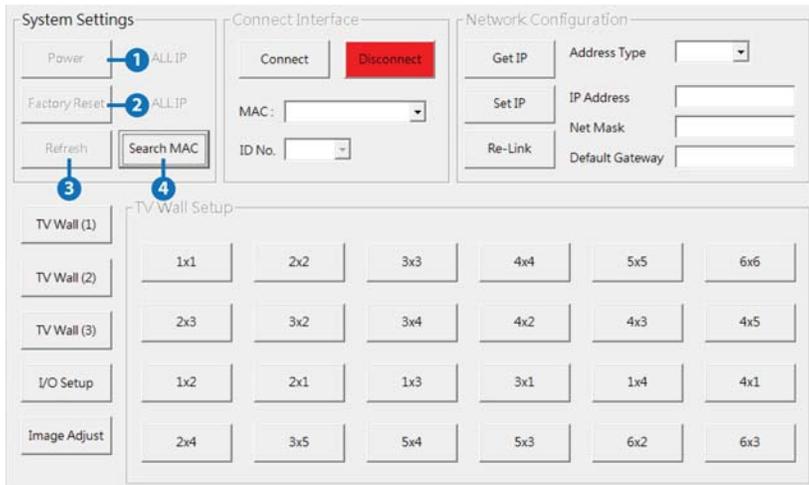
SYSTEM SETTINGS

❶ **POWER:** Click on **"Power"** to power on/off the controlled unit. To control all connected units, click on **"ALL IP"** then click **"Power"**. From Power ON to Power OFF, the application will disconnect the link, to Power ON again, please re-connect.

❷ **FACTORY RESET:** Click on **"Factory Reset"** to set device settings to default, to switch all devices back to the default setting, click **"ALL IP"** and then **"Factory Reset"**.

❸ **REFRESH:** Click on **"Refresh"** to read the devices current settings, the status of all the TV Wall Sets will follow the current choosen device.

Note: Image Adjust will not refresh, users have to click on **"Image Adjust"** to manually refresh to read the Image Adjust current status.

❹ **SEARCH MAC:** Click on **"Search MAC"** to define the on-line TV Wall units.

PC APPLICATION CONTROL
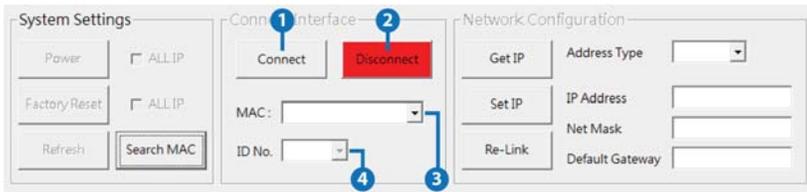
CONNECT INTERFACE

❶ **CONNECT:** Click **"Connect"** to link the unit.

❷ **DISCONNECT:** Click **"Disconnect"** to terminate the link.

❸ **MAC:** Click on **"MAC"** with the arrow down button to show all the TV Wall units and select the nominated unit/MAC for connection.

❹ **ID NO:** When more than one TV Wall unit is in use, it is important that the ID No. is set correctly in order to split and arrange the images correctly.

Note: All on-line units will show running after **"Search MAC"**.
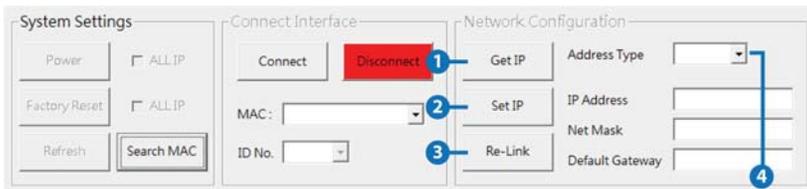
NETWORK CONFIGURATION

❶ **GET IP:** Click **"Get IP"** to show current linking status.

❷ **SET IP:** Click **"Set IP"** to adjust IP settings such as IP Type, IP Address…etc.

❸ **RE-LINK:** Click **"Re-Link"** to confirm Network Configuration setting changes.

❹ **ADDRESS TYPE:** Click on this drop-down menu to change the address type to DHCP/Static mode.

PC APPLICATION CONTROL
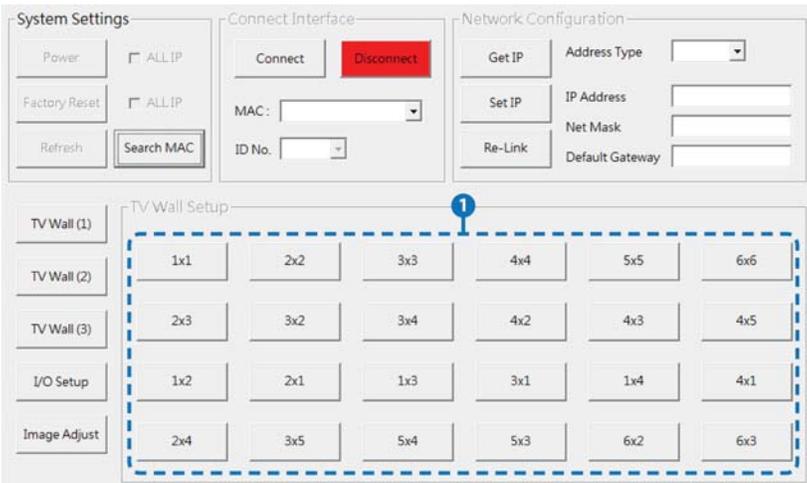
TV WALL SETUP (1)

❶ **FAST TV WALL SETTING:** TV Wall's fast setting. Click on hot keys to preset the TV Wall setup.
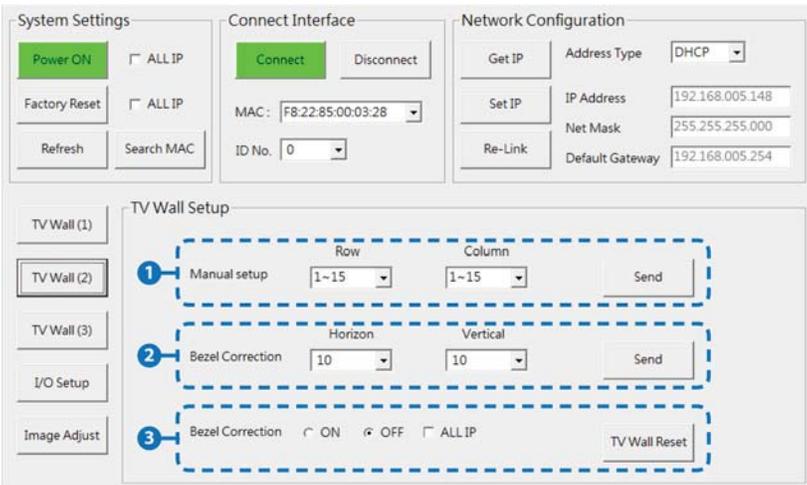
TV WALL SETUP (2)

❶ **MANUAL SETUP:** Manually setup the TV wall's settings by rows and columns from 1~15 and click **"Send"** to confirm the setting.

❷ **BEZEL CORRECTION HORIZON & VERTICAL:** Set up the Bezel Correction figures on the selected MAC/ID No. The correction will be made on all outputs of the selected units at once.

❸ **BEZEL CORRECTION (ON/OFF):** When the above action is taken, the Bezel Correction will switch to ON automatically, to switch it off click on **"OFF"** to terminate the function. To execute Bezel Correction on all units, click on **"ALL IP"**. It is suggested that when displaying moving content on the TV Wall, the Bezel Correction should be set ON and when displaying static content, the Bezel correction can be set to OFF.
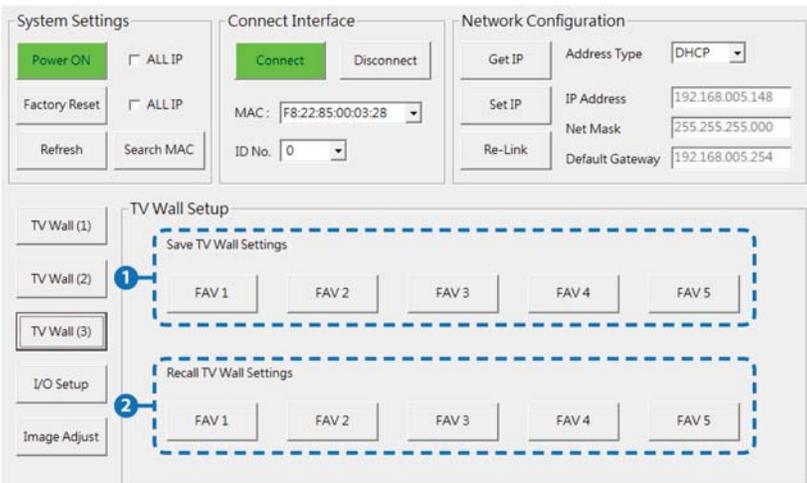
TV WALL SETUP (3)

❶ **SAVE TV WALL SETTINGS:** Save current settings to Favorites. Up to (5) settings.

❷ **RECALL TV WALL SETTINGS:** Recall restored TV Wall settings up to (5) settings.

PC APPLICATION CONTROL
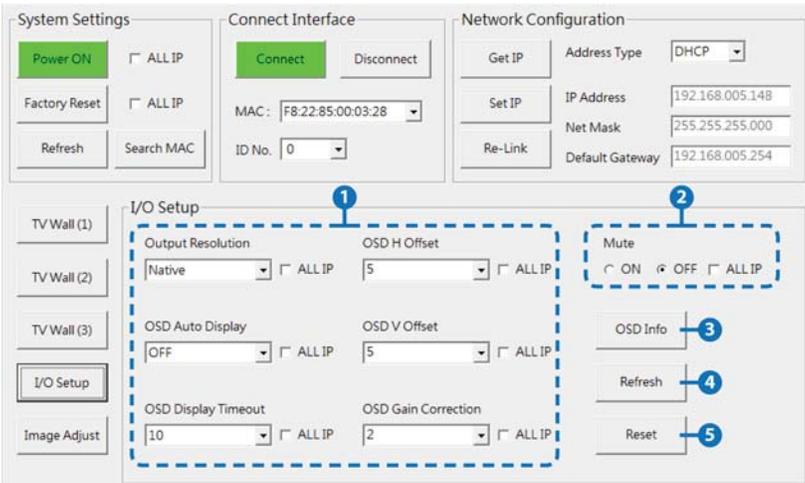
I/O SETUP

❶ **OUTPUT RESOLUTION & OSD MENU ADJUSTMENT:** All settings under I/O Setup can be done with a single TV Wall unit or units with a single click on **"ALL IP"**. Parameters and default values are as stated in the RS-232 description parameters.

❷ **MUTE:** Set Audio Mute to ON/OFF.

❸ **OSD INFO:** Show/Close OSD information.

❹ **REFRESH:** Refresh current page.

❺ **RESET:** Reset current page.
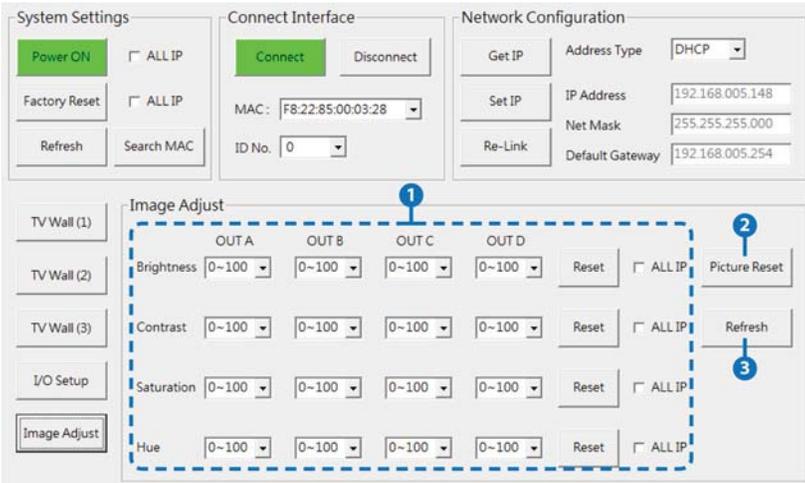
IMAGE ADJUST

❶ **BRIGHTNESS, CONTRAST, SATURATION AND HUE ADJUSTMENT:** Again all settings under Image Adjust can be done with a single TV Wall device or multiple TV Wall devices with a single click on **"ALL IP"**. Parameters and default values are as stated in the RS-232 description.

❷ **PICTURE RESET:** Picture Reset button is to reset all settings of Image Adjust back to factory default values.

❸ **REFRESH:** Refresh button is to refresh Image Adjust page only.

Note:

1. When the Input signal is above 4K2K, the device only supports Color space RGB, YUV is not supported.

2. When on TV Wall split mode, different input/output resolutions, signal is limited (please refer to the Timing Limitations).

SUPPORTED RESOLUTIONS

INPUT RESOLUTION	OUTPUT RESOLUTION
640x480@60/72/75/85	640x480
1280x768@60/75	480p@60 (720x480)
1024x768@60/70/75/85	576p@50 (720x576)
1280x1024@60/75	800x600
800x600@56/60/72/75/85	848x480
480p@60	1024x768
576p@50	720p@50 (1280x720)
480i@60	720p@60 (1280x720)
576i@50	1280x768
720p@50/60	1280x800
1080i@50/60	1280x960
1080p@24/50/60	1280x1024
848x480@60	1360x768
852x480@60	1366x768
854x480@60	1400x1050
1024x852@60	1440x900
1024x1024@60	1600x900 (RB)
1280x800@60	1600x1200
1280x960@60	1680x1050
1360x768@60	1080p@50/60
1366x768@60	1920x1200 (RB)
1440x900@60	2048x1152 (RB)
1400x1050@60	1080i@50/60
1360x1024@60	1080p@24/25/30
1600x900@60	
1600x1200@60	
1680x1050@60	
1920x1200@60	
2048x1080@24	
2048x1152@60	
3840x2160@24/25/30	
4096x2160@24	

SUPPORTED RESOLUTIONS

INPUT RESOLUTION 3840x2160

VIDEO WALL	1x1	2x2	3x3	4x4	5x5	6x6	7x7	8x8	9x9	10x10	15x15
640x480	✓	✓	✗	✗	✗	✓	✓	✓	✓	✓	✓
480p@60 (720x480)	✓	✓	✗	✗	✗	✓	✓	✓	✓	✓	✓
576p@50 (720x576)	✓	✓	✗	✗	✗	✓	✓	✓	✓	✓	✓
800x600	✓	✓	✗	✗	✓	✓	✓	✓	✓	✓	✓
848x480	✓	✓	✗	✗	✓	✓	✓	✓	✓	✓	✓
1024x768	✓	✓	✗	✓	✓	✓	✓	✓	✓	✓	✓
720p50 (1280x720)	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
720p60 (1280x720)	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
1280x768	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
1280x800	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
1280x960	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
1280x1024	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
1360x768	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
1366x768	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
1400x1050	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
1440x900	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
1600x900 (RB)	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
1600x1200	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
1680x1050	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
1080p@50	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
1080p@60	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
1920x1200 (RB)	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
2048x1152 (RB)	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
1080i@50	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
1080i@60	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
1080p@24	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
1080p@25	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
1080p@30	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Native	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓

SUPPORTED RESOLUTIONS

INPUT RESOLUTION 4096x2160

VIDEO WALL	1x1	2x2	3x3	4x4	5x5	6x6	7x7	8x8	9x9	10x10	15x15
640x480	✓	✓	✗	✗	✗	✗	✓	✓	✓	✓	✓
480p@60 (720x480)	✓	✓	✗	✗	✗	✓	✓	✓	✓	✓	✓
576p@50 (720x576)	✓	✓	✗	✗	✗	✓	✓	✓	✓	✓	✓
800x600	✓	✓	✗	✗	✗	✓	✓	✓	✓	✓	✓
848x480	✓	✓	✗	✗	✓	✓	✓	✓	✓	✓	✓
1024x768	✓	✓	✗	✓	✓	✓	✓	✓	✓	✓	✓
720p50 (1280x720)	✓	✓	✗	✓	✓	✓	✓	✓	✓	✓	✓
720p60 (1280x720)	✓	✓	✗	✓	✓	✓	✓	✓	✓	✓	✓
1280x768	✓	✓	✗	✓	✓	✓	✓	✓	✓	✓	✓
1280x800	✓	✓	✗	✓	✓	✓	✓	✓	✓	✓	✓
1280x960	✓	✓	✗	✓	✓	✓	✓	✓	✓	✓	✓
1280x1024	✓	✓	✗	✓	✓	✓	✓	✓	✓	✓	✓
1360x768	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
1366x768	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
1400x1050	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
1440x900	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
1600x900 (RB)	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
1600x1200	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
1680x1050	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
1080p@50	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
1080p@60	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
1920x1200 (RB)	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
2048x1152 (RB)	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
1080i@50	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
1080i@60	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
1080p@24	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
1080p@25	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
1080p@30	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Native	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓

SUPPORTED RESOLUTIONS

INPUT RESOLUTION 2048x1080/2048x1152

VIDEO WALL	1x1	2x2	3x3	4x4	5x5	6x6	7x7	8x8	9x9	10x10	15x15
640x480	✓	✓	✗	✓	✓	✓	✓	✓	✓	✓	✓
480p@60 (720x480)	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
576p@50 (720x576)	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
800x600	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
848x480	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
1024x768	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
720p50 (1280x720)	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
720p60 (1280x720)	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
1280x768	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
1280x800	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
1280x960	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
1280x1024	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
1360x768	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
1366x768	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
1400x1050	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
1440x900	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
1600x900 (RB)	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
1600x1200	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
1680x1050	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
1080p@50	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
1080p@60	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
1920x1200 (RB)	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
2048x1152 (RB)	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
1080i@50	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
1080i@60	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
1080p@24	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
1080p@25	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
1080p@30	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Native	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓

DVD/Blu-ray Player

HDMI Input

Router

Power Supply

HDMI Outputs

D C B A

RS-232 Equipped PC/Laptop

2×2 TVs/Displays
(Total 4 Screens)

DVD/Blu-ray Player

HDMI Input

HDMI Splitter

HDMI Outputs

Router

SmartPhone or Tablet Device

Power Supply

RS-232 Equipped PC/Laptop

HDMI Outputs

D C B A

Cascade Output

HDMI Outputs

B A

Power Supply

2×3 TVs/Displays
(Total 6 Screens)

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