# HDMI 1x4 TV WALL

## User manual
### VER:1.0

## 1. Introduction

The 1 by 4 HDMI TV Wall support CVBS/VGA/HDMI/USB play input sources to be freely arranged on 4 displays. The embedded scaler converts signals from the input sources to match the native resolution of monitors, flat panel displays, projectors as well as user-selectable output settings up to 1920x1080. All the operation and control can be done through IR, Ethernet and RS-232. The HDMI TV Wall is widely used in KTV, hotels, bars, leisure centers, shopping malls, television stores ,cinemas, products display, media advertising, building, education and training, Brand stores, airports, subway, etc.

## 2. Package Contents

➢ HDMI 1 x4 TV Wall --------------------------------------------------1pcs
➢ 12V/2.5A DC power adaptor---------------------------------------1pcs
➢ Operation Manual----------------------------------------------------1pcs
➢ 38KHz IR Receiver cable--------------------------------------------1pcs
➢ TV Wall Remote------------------------------------------------------1pcs
➢ RS232 cable------------------------------------------------------------1pcs

## 3. Feature

➢ Compliant with HDMI1.3a, DVI1.0;
➢ Output source signal to 4 displays (2 by 2 Video wall) as a full image with adjustable Bezel Correction;
➢ Supports IR, Ethernet and RS232 controls;
➢ Supports cascade to 9 dispay(3 by 3 video wall) mode;
➢ Supports CVBS/VGA/HDMI input and USB movie, picture and music playback;
➢ Advanced video De-interlacer for improving 480i and 576i SD video input;
➢ Support input formats:
   CVBS: PAL, NTSC, SECAM with stereo audio input;
   VGA:640x480@60Hz, 800x600@60Hz, 1024x768@60Hz,

1280x1024@60Hz, 1280x720@60Hz, 1360x768@60Hz, 1440x900@60Hz, 1680x1050@60Hz, 1920x1080@60Hz with stereo audio input;

HDMI: 1080p@50/60Hz, 1080i@50/60Hz, 720p@50/60Hz, 576i/p,480i/p, 640x480@60Hz, 800x600@60Hz, 1024x768@60Hz, 1280x1024@60Hz, 1280x720@60Hz, 1360x768@60Hz, 1440x900@60Hz, 1680x1050@60Hz, 1920x1080@60Hz;

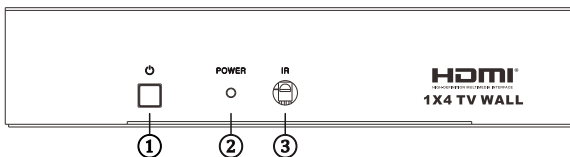USB: MPEG, H.264, RM/RMVB movie decode, JPEG, BMP, PNG Picture decode and MPEG1/2, MP3 audio decode;

➢ Support output resolution up to 1080p60Hz;
➢ Perfectly as a video screen splitter, a video converter and a video switcher;

## 4. Specification

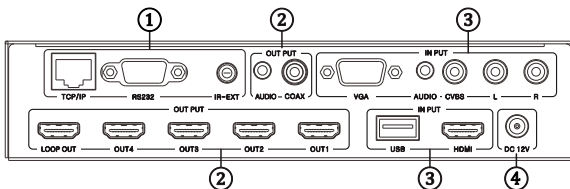| | |
|---|---|
| Video Bandwidth: | 225MHz/6.75Gbps |
| Input ports: | 1x HDMI (Female type), 1xUSB, 1xVGA,1xCVBS+L/R |
| Output ports: | 5 x HDMI (Female type) ,1xCoaxial, 2xL/R |
| HDMI Cable Distance: | 15M/8-bit 1080p |
| ESD Protection: | Human body model: ± 8kV (air-gap discharge) ± 4kV (contact discharge) |
| Power Supply: | 12V/2.5A DC (US/EU standards, CE/FCC/ULcertification) |
| Dimensions (mm): | 250mm (W) X 118mm(D) X 32mm(H) |
| Weight (g): | 1050 g |
| Chassis Material: | Metal |
| Silkscreen Color: | Black |
| Operating Temperature: | 0℃ ~ 40℃ / 32 ℉ ~ 104 ℉ |
| Storage Temperature: | -20℃ ~ 60℃ / -4 ℉ ~ 140 ℉ |
| Relative Humidity: | 20~90% RH (non-condensing) |
| Power Consumption: | 7.5W |

# 5. Panel Functions

## 5.1 Front panel



① **Power Button:** Press this button to power the device on/off.

② **Power Led:** The LED will illuminate green when the power is on, red when it is in 'Standby' mode.

③ **IR:** IR Receiver window (accepts the remote control signal of this device only).

## 5.2 Rear panel



① **Control part**

➢ **TCP/IP:** This port is the link for TCP/IP controls, connect to an active Ethernet link with an RJ45 terminated cable.

➢ **RS232:** Connect to a PC or control system with D-Sub 9-pin cable for the transmission of RS-232 commands.

➢ **IR EXT:** if the panel sensor is obstructed or the unit is installed in a closed area out of infrared line of sight, the IR RX receiver included can be inserted into the IR EXT port at the rear to extend the IR sensor range and enable local control of the TV Wall.
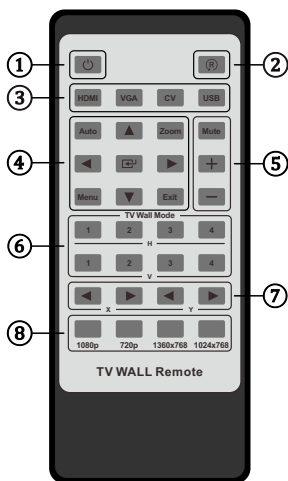
② **Output**

➢ **HDMI OUT:** Connect with HDMI TV/displays for output image display. It is suggest that the connection sequence should be placed as diagram showed for TV wall set up. **LOOP OUT** is the nominated port for cascading the input signal.

➢ **AUDIO OUT :** The coax and audio out where you connect to the digital or analog audio amplifier .

③ **Input**

Connect with source equipment such as DVD/Blue-ray players, PC, Game console or USB disc devices to CVBS,VGA,HDMI,USB input port.

④ **DC 12V :** Plug the 12V/2.5A DC power supply into the DC12V power in.
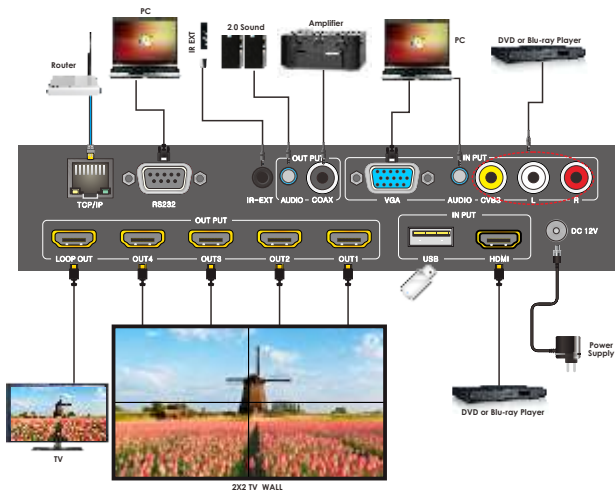
## 6. Remote Control



① Press this button to power on the

② TV Wall or set it to standby mode. Press this button for rotate 90° screen, only for 1x2, 1x3, 1x4 TV Wall mode.

③ Input Sources select button.

④ **AUTO** button for VGA input auto adjustment function;

**ZOOM** button for all input sources zoom in and zoom out function. The else button for USB input source control function.

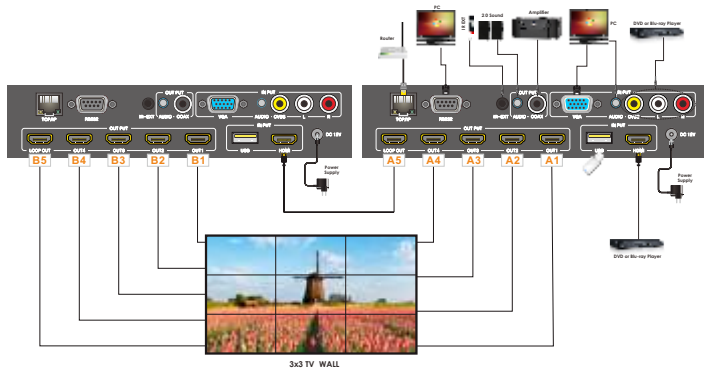⑤ These buttons for Audio output volume adjustment function, (include HDMI, Coaxial and analog audio output).

⑥ TV Wall mode selection: such as 2x2 TV Wall mode, press "**H**" towards "2",then press "**V**" towards "2".

⑦ TV Wall Picture Bezel correction adjust: the users can set the bezel size of the images in zoom-in model, to make the whole image looks coherently.

⑧ TV Wall output resolution selection.

## 6. Connection and Installation

• **2x2 TV Wall**



2X2 TV WALL

• **3x3 TV Wall**



3x3 TV WALL

# 7. TV Wall connection sequence diagram

| 1x2(H) | A1 | A2 | | |
|--------|----|----|----|----|
| 1x3(H) | A1 | A2 | A3 | |
| 1x4(H) | A1 | A2 | A3 | A4 |
| 1x2(V) | A1 A2 | | | |
| 1x3(V) | A1 A2 A3 | | | |
| 1x4(V) | A1 A2 A3 A4 | | | |

| 2x1 | A1 |  |
|-----|----|----|
|     | A2 |  |

| 3x1 | A1 |
|-----|----|
|     | A2 |
|     | A3 |

| 4x1 | A1 |
|-----|----|
|     | A2 |
|     | A3 |
|     | A4 |

| 2x2 | A1 | A2 |
|-----|----|----|
|     | A3 | A4 |

**Cascade 2**

| 2x3 | A1 | A2 | A3 |
|-----|----|----|----|
|     | B1 | B2 | B3 |

| 3x2 | A1 | B1 |
|-----|----|----|
|     | A2 | B2 |
|     | A3 | B3 |

| 2x4 | A1 | A2 | A3 | A4 |
|-----|----|----|----|----|
|     | B1 | B2 | B3 | B4 |

| | | | |
|---|---|---|---|
| **4x2** | A1  B1 <br> A2  B2 <br> A3  B3 <br> A4  B4 | | |
| **3x3** | A1  A2  A3 <br> A4  B1  B2 <br> B3  B4  B5 | | |