

# ***EZWALL-PLUS 2X2***

## ***User Manual***

### **Multi-Format Video Wall Controller**



**2x2 HD Video Wall Controller HDMI,  
DVI, and VGA Input Integrated USB  
Media Player**

**Smart-AVI**  
SMART AUDIO VIDEO INNOVATION

# TABLE OF CONTENTS

WHAT'S IN THE BOX? \_\_\_\_\_ 2

INTRODUCTION \_\_\_\_\_ 3

FEATURES \_\_\_\_\_ 3

APPLICATIONS \_\_\_\_\_ 3

TECHNICAL SPECIFICATIONS \_\_\_\_\_ 4

HARDWARE INSTALLATION \_\_\_\_\_ 5

FRONT PANEL CONTROL \_\_\_\_\_ 7

IR REMOTE CONTROL \_\_\_\_\_ 9

CONTROL VIA ETHERNET/IP \_\_\_\_\_ 11

LIMITED WARRANTY STATEMENT \_\_\_\_\_ 14

## WHAT'S IN THE BOX

PART NO.	QTY	DESCRIPTION
EZWALL-PLUS 2X2	1	Multi-Format Video Wall Controller
PS12VDC5A	1	Power Adapter
SAVI-RMT	1	IR Remote Control
SM-EYE2	1	IR Receiver
User Manual	1	

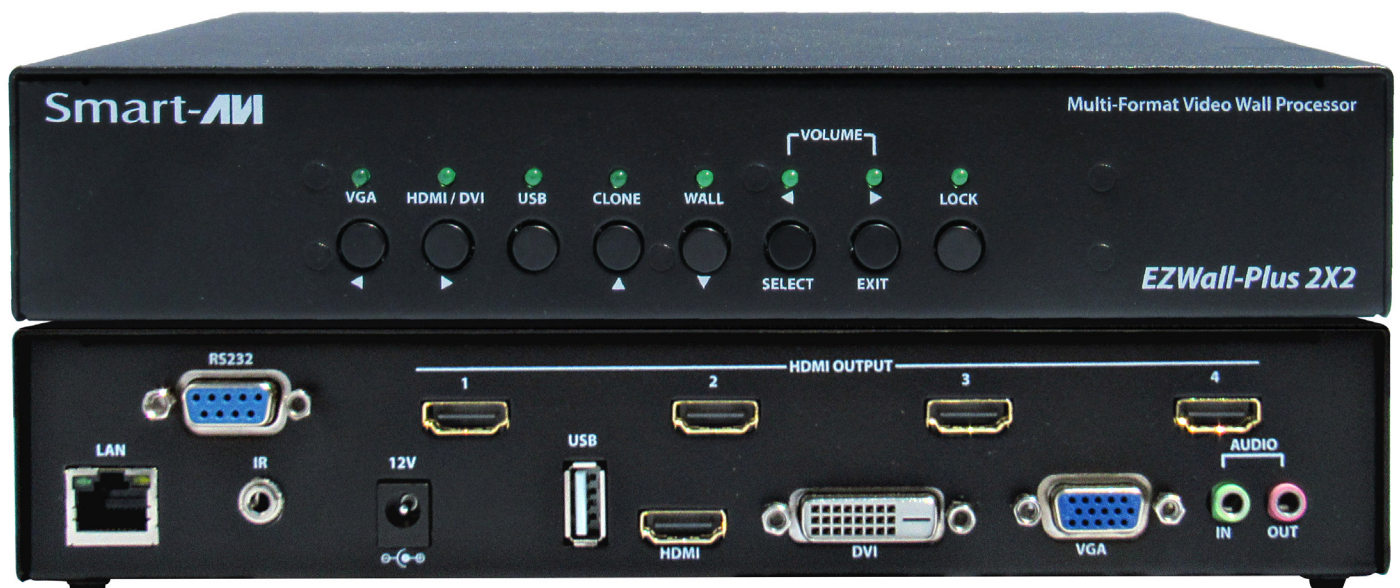


Figure 2-1

## INTRODUCTION

The EZWALL-PLUS 2X2 offers top-notch HD-HDMI output for five different types of signal inputs. Create striking 2x2 wall displays easily with simple signal switching and flexible connectivity. The EZWALL-PLUS 2X2 even features a fully-integrated USB media player.

The EZWALL-PLUS 2X2 is capable of expanding any supported video input to four-large screens at 1080p, thus showcasing its stunning picture quality. In this guide, you will learn how to install and optimize your experience with the EZWALL-PLUS 2X2 using basic steps. These steps will include setting up the hardware, activating and connecting your system, and offer helpful tips on how to best use the EZWall-PLUS 2X2's excellent selection of picture modes to enhance your video wall.

## FEATURES

- Four screen (2x2) multi-layout, multi-format video wall controller
- Outputs: (4) HDMI
- Inputs: (1) HDMI, (1) VGA, (1) DVI
- Integrated USB media player for digital video, imagery, and audio
- Internal EDID learning
- 1080p (1920 x 1080 @ 60 Hz) Full HD resolution output
- No additional hardware or software required
- Supports control via Front Panel Buttons
- Supports control via IR Remote control
- Supports control via TCP/IP
- HDCP and HDMI 1.4 compliant

## APPLICATIONS

- Corporate or Educational Presentations
- Airport Installations
- Wall Displays
- Digital Signage
- Dealer Rooms
- Control Rooms
- Shopping Centers
- Security
- Point-of-Sale
- Entertainment Venues
- Corporate Lobbies
- Restaurants

## TECHNICAL SPECIFICATIONS

VIDEO & AUDIO	
Output Resolutions	Up to 1080P (1920x1080@60Hz)
Input Resolutions	Up to 1080P (1920x1080)
Outputs	(4) HDMI
Inputs	(1) HDMI, (1) DVI, (1) VGA, (2) USB 2.0 Type A
HDCP Compliance	1.0/2.0
Audio	(1) 3.5 mm input, (1) 3.5 mm output
CONTROL	
Front Panel	Buttons
IR Remote Control	SAVI-RMT
Ethernet (TCP/IP)	RJ-45
OTHER	
Power	PS12VDC5A
Dimensions	9.5" (241 mm) W x 2" (51 mm) H x 8" (203 mm) D
Weight	3.75 lbs
USB MEDIA PLAYER	
Signal Type	USB 2.0, 1.1, and 1.0 (Type A)
Video Formats *	MJPEG, MPEG-1, MPEG-2, MPEG-4, Vvid, DivX H.264
Max Resolution	1920x1080 @30fps
Max Data Rate	20 mbps.
Audio Formats *	MP3, WMA, AAC, MP2, PCM, AC3
Photos Max Resolutions *	JPEG - 15360x8640, BMP - 9600x6400, PNG - 9600x6400

**\*PLEASE NOTE:** EZ-WALL-PLUS 2X2 only supports the primary formats listed above. Any unlisted formats are not compatible with EZWall-PLUS 2X2.

# HARDWARE INSTALLATION

For the safety of your equipment, please read the safety instructions carefully before using or installing this device.

- This equipment uses 12V/3A external power supply; power supply supports 100-240V AC voltage input, only use the provided power supply.
- Please make sure to power off when you connect cables or carry the equipment.
- Do not bundle the cables, rather separate the power cables and signal cables to prevent interference.
- Keep cooling vent openings free of any obstructions to allow proper facilitation of cool air to the device
- All maintenance work should be done by professional maintenance personnel.
- Position EZWALL-PLUS 2X2 conveniently and keep it unplugged.
- Connect the HDMI output cables between the EZWALL-PLUS 2X2 and your video wall screens.
- Connect any input to their corresponding signal source input connector (Blu-ray player, computer, etc).
- Optionally connect the IR-EYE (receiver) to the IR input jack on the EZWALL-PLUS 2X2
- Optionally connect an audio source to the audio input jack on the EZWALL-PLUS 2X2.
- Optionally connect an Ethernet cable for additional control over your LAN or the internet (TCP/IP)
- Optionally connect USB storage devices
- Optionally connect speakers. (You can use sound via HDMI instead if your systems support this.)
- Turn on the EZWALL-PLUS 2X2 and wait a few seconds for the unit to initialize.

## HDMI Output and TV Connection

HDMI1 connect to LCD1(Display 1);

HDMI2 connect to LCD2(Display 2);

HDMI3 connect to LCD3(Display 3);

HDMI4 connect to LCD4(Display 4).

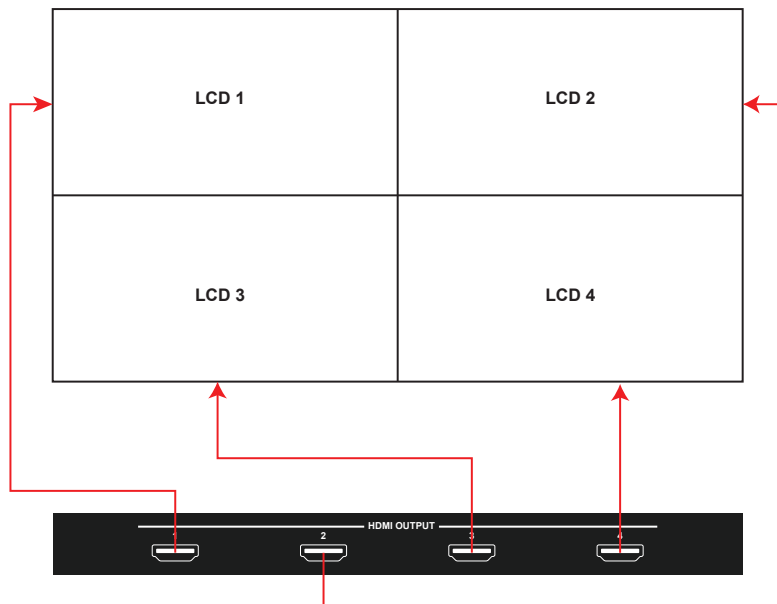


Figure 5-1: Input signal interface

The following diagram shows the inputs available in on the back panel:

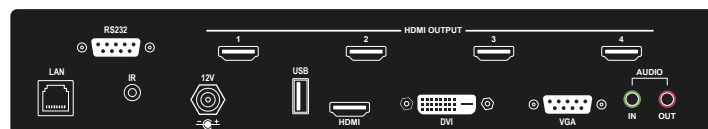


Figure 5-2

# HARDWARE INSTALLATION (Continued)

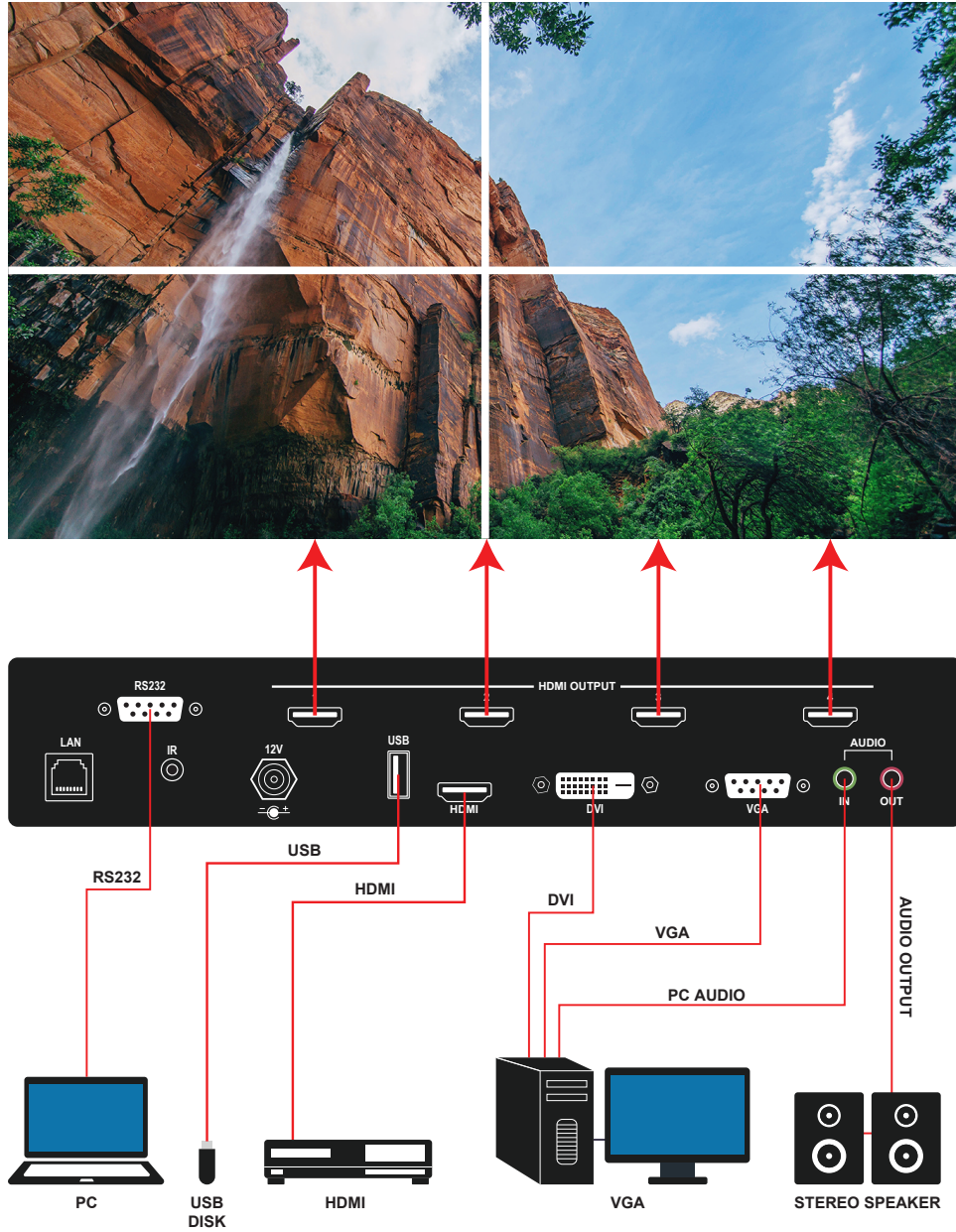


Figure 6-1: System topology diagram

## Device Pictures and Dimensions

9.5" (241 mm) W x 2" (51 mm) H x 8" (183 mm) D (without Tripod);  
 9.5" (241 mm) W x 2" (51 mm) H x 8" (203 mm) D (with Tripod);



Figure 6-2

## FRONT PANEL CONTROL

To switch between listed sources, press:

1. VGA
2. HDMI/DVI
3. USB

To switch to Video Wall mode, press the WALL button.

To switch to Clone mode, press the CLONE button.

Pressing the LOCK button will disable the other buttons.



## WALL MODE

An Image can be displayed across four HD screens 2X2.



Figure 7-1

# FRONT PANEL CONTROL (Continued)

## WALL MODE - VIDEO FLIP

An Image can be displayed across four HD screens 2X2.

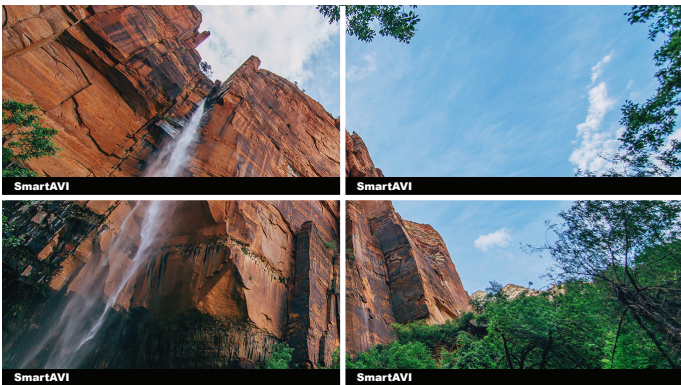


Figure 8-1

Many HDTV displays have a bezel that is wider on the bottom than it is on the top and sides. The Wall mode video flip feature fixes this by allowing you to flip the top two displays in your video wall by 180 degrees so the wide edges are no the outside of the video wall.



Figure 8-2

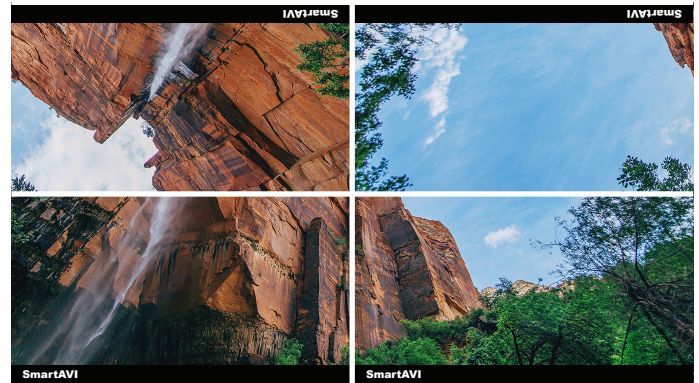


Figure 8-3

## CLONE MODE

The image can be displayed on each display individually.



Figure 8-4



# IR REMOTE CONTROL

BUTTON	DESCRIPTION
<b>Source</b>	
▶ PC	VGA source
▬ HDMI	HDMI source
■ DVI	DVI source
DP	USB source
<b>Audio</b>	
🔊	Audio Decrease
🔊	Audio Increase
🔇 MUTE	Audio MUTE
<b>Clone &amp; Wall mode Default</b>	
SW/SP	First press: Clone mode; Second time press; Wall mode Default
<b>Current Wall mode</b>	
INPUT + 1	Wall 1x2
INPUT + 2	Wall 2x1
INPUT + 3	Wall 2x2
INPUT + 4	Wall 1x3
INPUT + 5	Wall 1x4
<b>Navigation in menu when USB input ON</b>	
▲	Move up
▼	Move down
▶	Move right
◀	Move left
OK	Select or open folders
↶ EXIT	Close folders (move one level back)
<b>Rotation output</b>	
🔄+ 1	Rotated output #1 on 180 degrees
🔄+ 2	Rotated output #2 on 180 degrees
🔄+ 3	Rotated output #3 on 180 degrees
🔄+ 4	Rotated output #4 on 180 degrees
🔄+ 5	Rotated output #1 and #2 on 180 degrees
🔄+ 6	Rotated output #3 and #4 on 180 degrees
🔄+ 7	Rotated All Output on 180 degrees



Figure 9-1

**Note** that when not using all four displays the unused displays will be a clone of output #1.

## IR REMOTE CONTROL (Continued)



Figure 10-1: 1X2 Mode (F1 Button)



Figure 10-2: 2X1 Mode (F2 Button)

# CONTROL VIA ETHERNET/IP

EZWALL-PLUS 2X2 TCP/IP control is a feature that allows mode switching and other configurations to be controlled remotely via HTTP. Manage your EZWALL-PLUS 2X2 with ease from anywhere in the world.

First, find the IP address for the EZ-Wall-Pro. Finder.exe (Smart IP-Finder) is conveniently available on our website (please visit [www.smartavi.com/helpful-links.html](http://www.smartavi.com/helpful-links.html) for this and our full list of compatible third-party software). Download the IP address finder software for your device. The EZWALL-PLUS 2X2 and its IP address should appear in the display as shown in the figure 10-1.

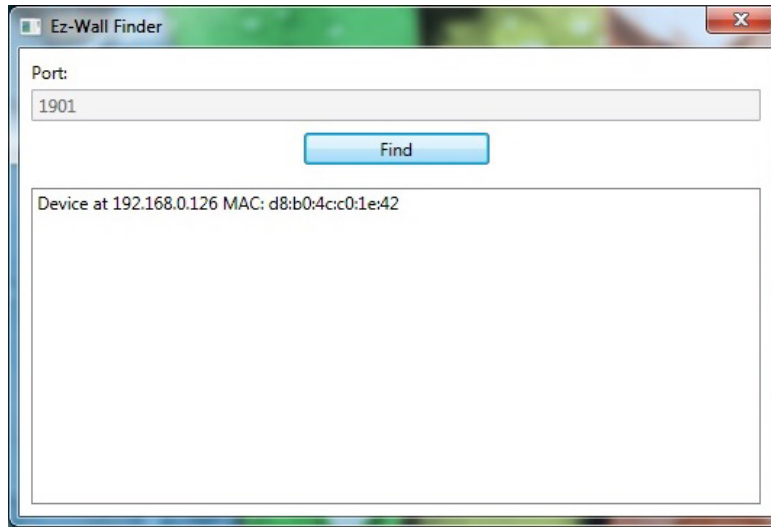


Figure 11-1

Enter the IP address into the web browser of your choice. When asked for the username and password, enter the default credentials, admin/admin.

You can change the User ID and password by clicking the configurations tab. You should then see the EZWALL-PLUS 2X2 Home/Welcome page as shown in figure 10-2.

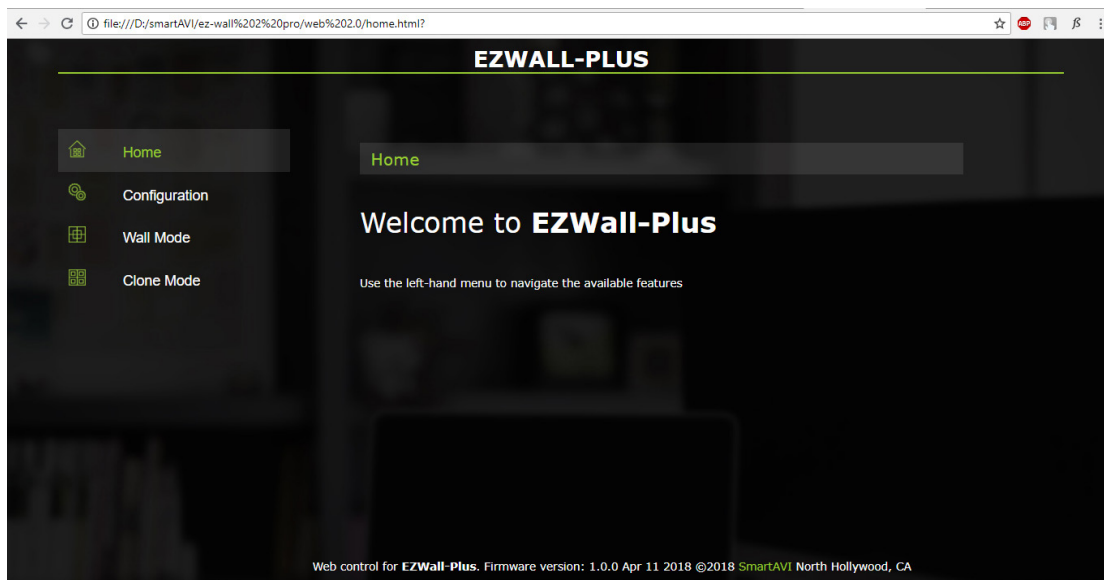


Figure 11-2

# CONTROL VIA ETHERNET/IP (Continued)

Click the CONFIGURATION tab in the top toolbar to configure your network settings.

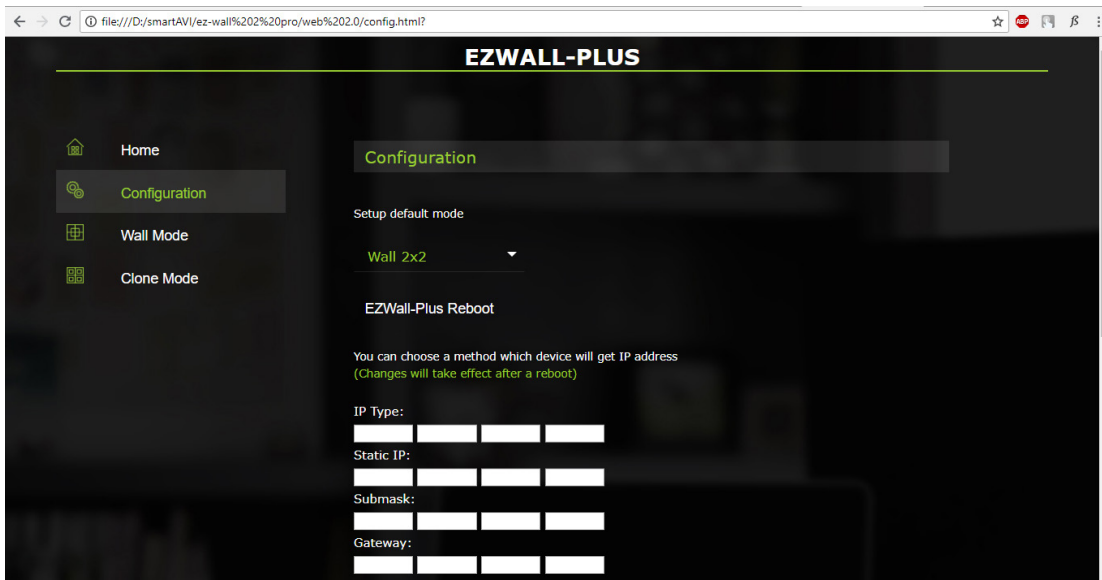


Figure 12-1

You can easily switch to WALL MODE or CLONE MODE based on your set up.

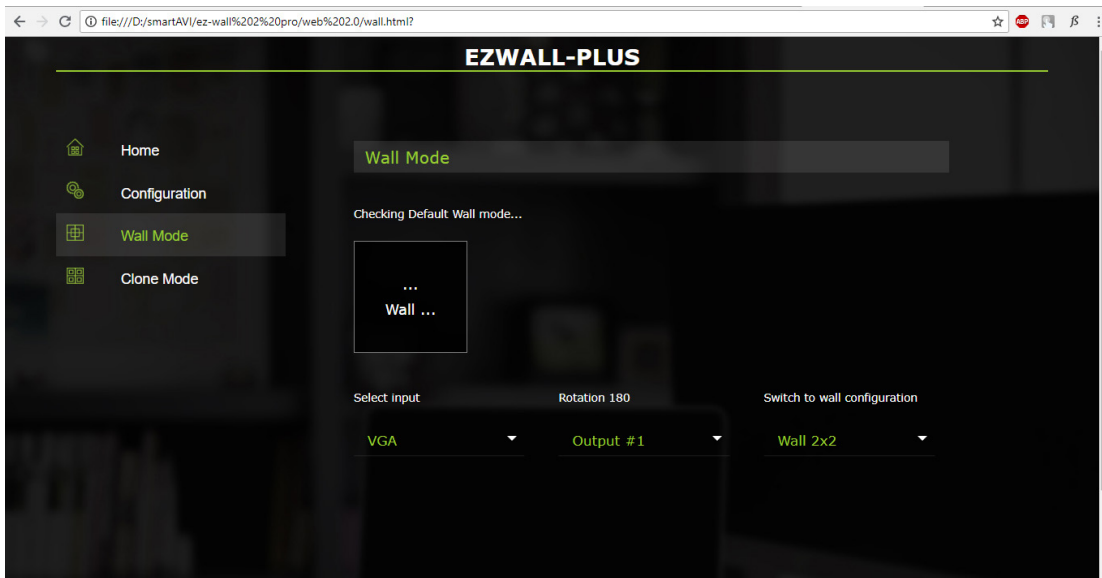


Figure 12-2

## CONTROL VIA ETHERNET/IP (Continued)

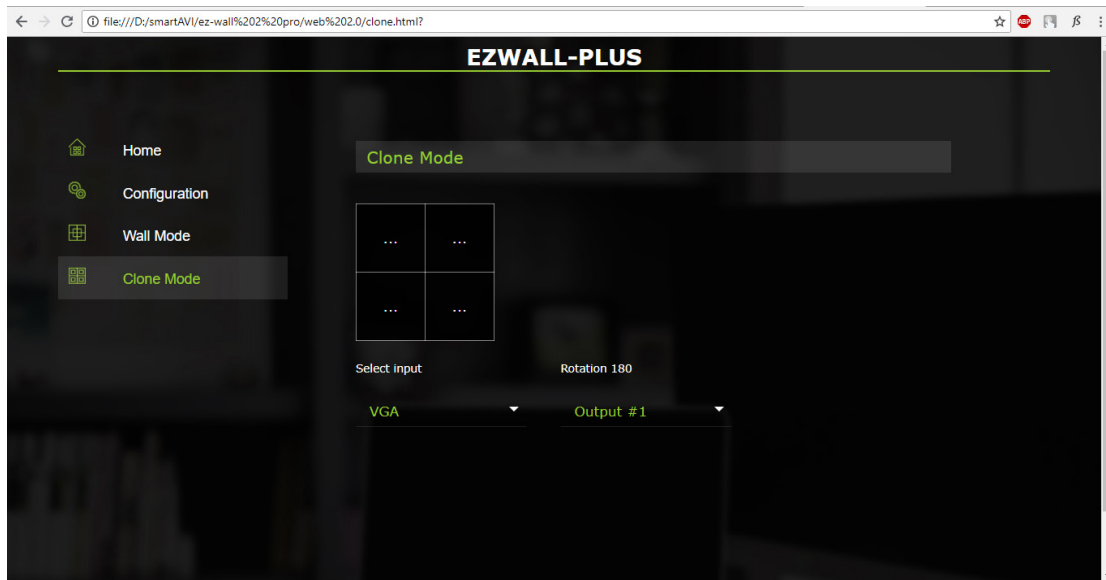


Figure 13-1

### USB function

The EZWALL-Plus can support video, audio, picture, and text files from a USB Drive.

Video includes many different formats such as MP4, AVI, MPEG, WMV, RMVB with resolutions up to 1080P.

# LIMITED WARRANTY STATEMENT

## A. Extent of limited warranty

SmartAVI Technologies, Inc. warrants to the end-user customers that the SmartAVI product specified above will be free from defects in materials and workmanship for the duration of 1 year, which duration begins on the date of purchase by the customer. The customer is responsible for maintaining proof of date of purchase.

SmartAVI's limited warranty covers only those defects which arise as a result of normal use of the product, and do not apply to any:

- a. Improper or inadequate maintenance or modifications
- b. Operations outside product specifications
- c. Mechanical abuse and exposure to severe conditions

If SmartAVI receives (during applicable warranty period) a notice of defect, SmartAVI will at its discretion replace or repair the defective product. If Smart-AVI is unable to replace or repair the defective product covered by the SmartAVI warranty within a reasonable period of time, SmartAVI shall refund the cost of the product.

SmartAVI will have no obligation to repair, replace or refund unit until customer returns the defective product to SmartAVI.

Any replacement product could be new or like new, provided that it has functionality at least equal to that of the product being replaced.

Smart-AVI limited warranty is valid in any country where the covered product is distributed by SmartAVI.

## B. Limitations of warranty

To the extent allowed by local law, neither SmartAVI nor its third party suppliers make any other warranty or condition of any kind whether expressed or implied with respect to the SmartAVI product, and specifically disclaim implied warranties or conditions of merchantability, satisfactory quality, and fitness for a particular purpose.

## C. Limitations of liability

To the extent allowed by local law, the remedies provided in this warranty statement are the customers sole and exclusive remedies.

To the extent allowed by local law, except for the obligations specifically set forth in this warranty statement, in no event will SmartAVI or its third party suppliers be liable for direct, indirect, special, incidental, or consequential damages whether based on contract, tort or any other legal theory and whether advised of the possibility of such damages.

## D. Local law

To the extent that this warranty statement is inconsistent with local law, this warranty statement shall be considered modified to be consistent with such law.

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SMART AUDIO VIDEO INNOVATION

## NOTICE

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