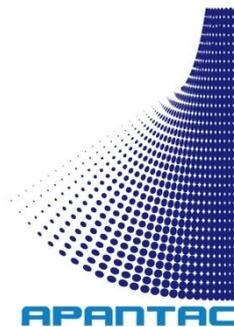

Crescent Walls User Manual



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If the Product proves to be defective during the three (3) year warranty period, the purchaser's exclusive remedy and Apantac's sole obligation under this warranty is expressly limited, at Apantac's sole option, to:

- (a) Repair the defective Product without charge for parts and labor or,
- (b) Provide a replacement in exchange for the defective Product or,
- (c) If after a reasonable time, is unable to correct the defect or provide a replacement Product in good working order, then the purchaser shall be entitled to recover damages subject to the limitation of liability set forth below.

Limitation of Liability

Apantac's liability under this warranty shall not exceed the purchase price paid for the defective product. In no event shall Apantac be liable for any incidental, special or consequential damages, including without limitation, loss of profits for any breach of this warranty.

If Apantac replaces the defective Product with a replacement Product as provided under the terms of this Warranty, in no event will the term of the warranty on the replacement Product exceed the number of months remaining on the warranty covering the defective Product.

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- b) Resulting from attempts by those other than Apantac representatives to install, repair, or service the Product,
- c) Caused by installation of the Product in a hostile operating environment or connection of the Product to incompatible equipment.

Table of Contents

1.0	WHAT'S IN THE BOX.....	3
2.0	Features.....	3
3.0	Specifications.....	4
4.0	Front/Rear Panels	5
4.0.1	Front Panel	5
4.0.2	Descriptions	5
4.0.3	Rear Panel	6
5.0	Connection Diagram.....	7
6.0	Quick Configuration Steps	8
7.0	Web Interface Configuration.....	9
7.1	Administration	10
7.2	Advance.....	13
7.3	Setup.....	14

1.0 WHAT'S IN THE BOX

Crescent Wall (W-3x3 or W-4x4) x 1
Rack Ears x 2
HDMI-1-E x 1
RJ-45-HDMI x (9 for W-3x3) (16 for W-4x4)
7" shielded CAT6 cable x (2 for W-3x3) (3 for W-4x4)
15' shielded CAT6 cables x (10 for W-3x3) (17 for W-4x4)
DB-9 to RJ50 x 1 – Cable for GPI
Terminal Block x 1 – For GPI
DB-9 to RJ45 x 1 – Cable for RS-232
Manual x 1
Option: DA-SDI-HDTV – for SDI input
Option: Redundant Power Supply

2.0 Features

The Crescent wall can be configured as

W-4x4

W-3x3

3.0 Specifications

3.1 Input

Input	Resolutions
HDMI	1080P
SDI	1080P (with the DA-SDI-HDTV option)

3.2 Output formats

W-4x4	16 x 1080p
	16 x 1366 x 768
W-3x3	9 x 1080p
	9 x 1366x768

4.0 Front/Rear Panels

4.0.1 Front Panel

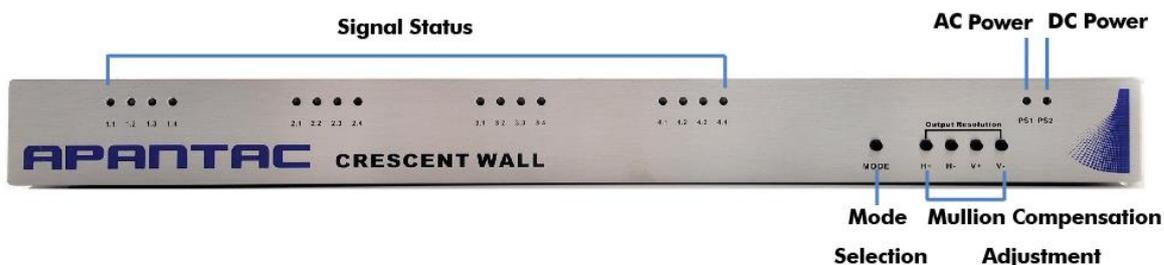


Figure 4-1 W-3x3 and W-4x4 have the same front panel

4.0.2 Descriptions

The Crescent Wall is designed to operate without using any software interface. All operations accessed from the front panel and the real rotary dial.

1. To switch resolution –
 - a. Hold down H+ and V- simultaneously -> all 4 sets LEDs will flash
 - b. Follow by pressing the mode button will change between 1080p and 1366x768
2. To switch the output between HDMI and DVI –
 - a. Hold down the mode button -> all 4 sets of LED will flash, after flashing, it will switch from HDMI to DVI and vice versa
3. Mullian compensation can be adjusted by pressing H and V + - buttons
4. PS1 – Main power supply indicator
5. PS2 – Redundant power supply indicator (redundant power supply is optional)
6. LED 1.1 to 4.4 - output signal status indicator. Green = valid, Red = invalid

4.0.3 Rear Panel

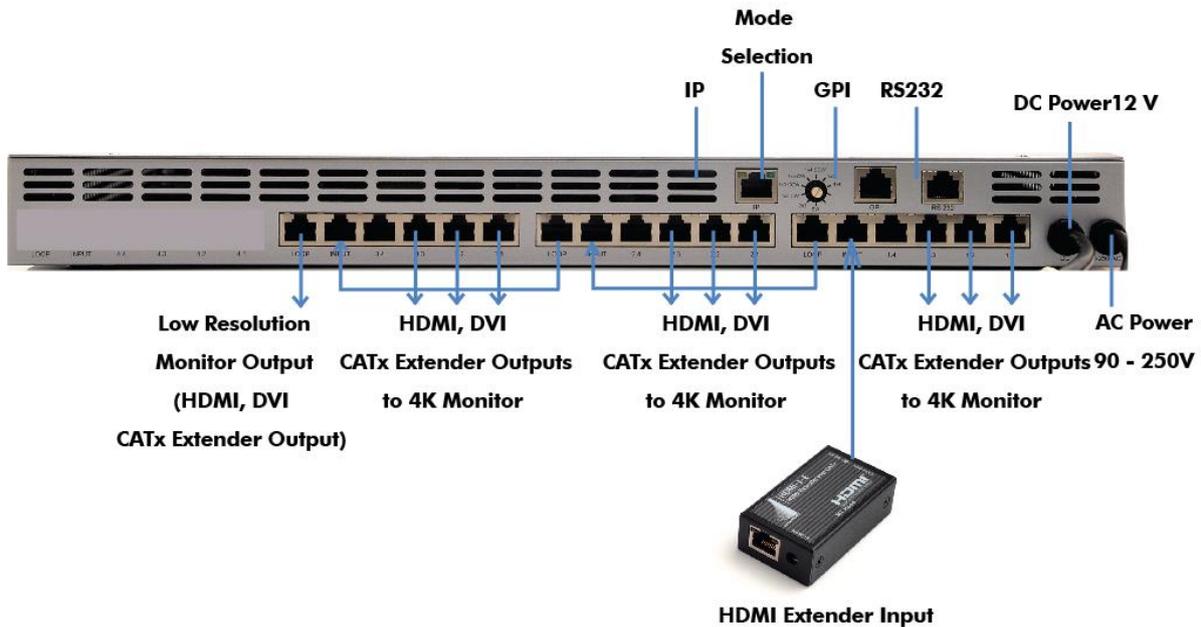


Figure 4-2: W-3x3 Rear Panel

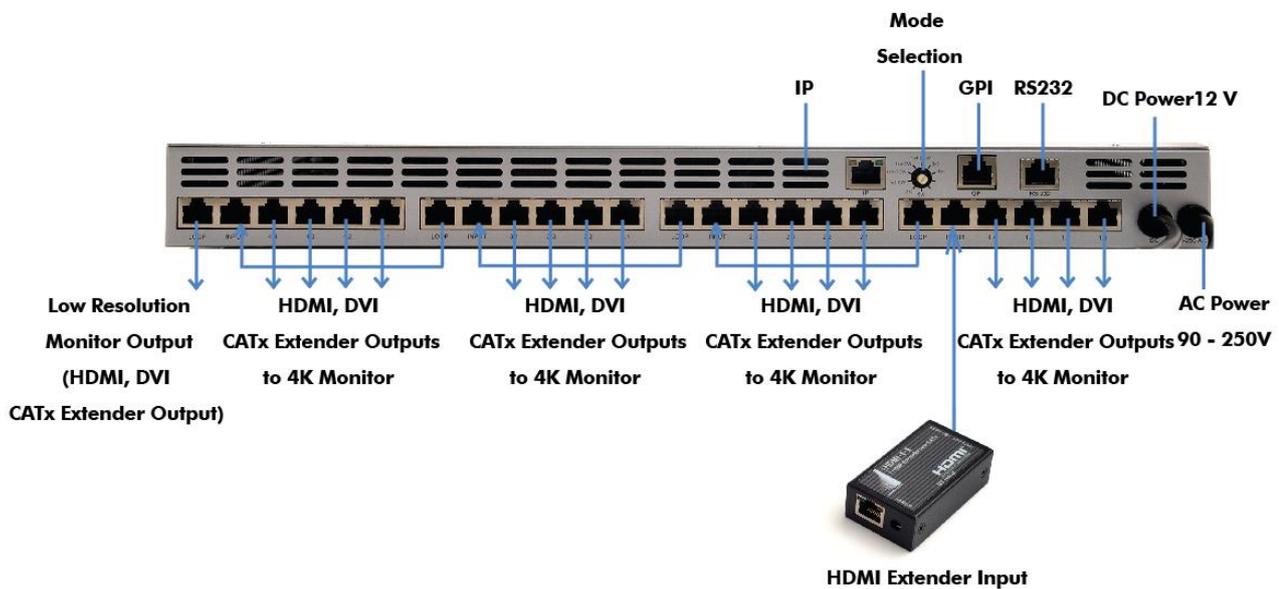


Figure 4-3: W-4x4 Rear Panel

1. Mode Selection:
 - a. Select mode rotary dial before powering up.
 - b. Selection will be confirmed after Power up.

5.0 Connection Diagram

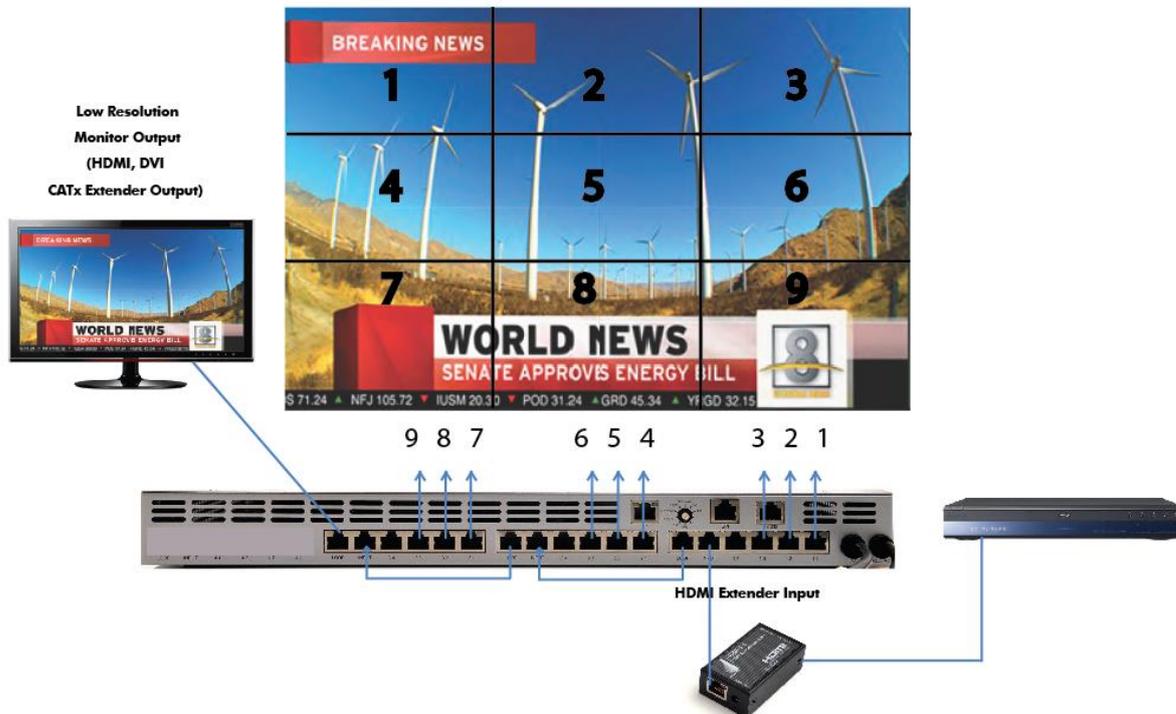


Figure 5-1: W-3x3 Connection diagram

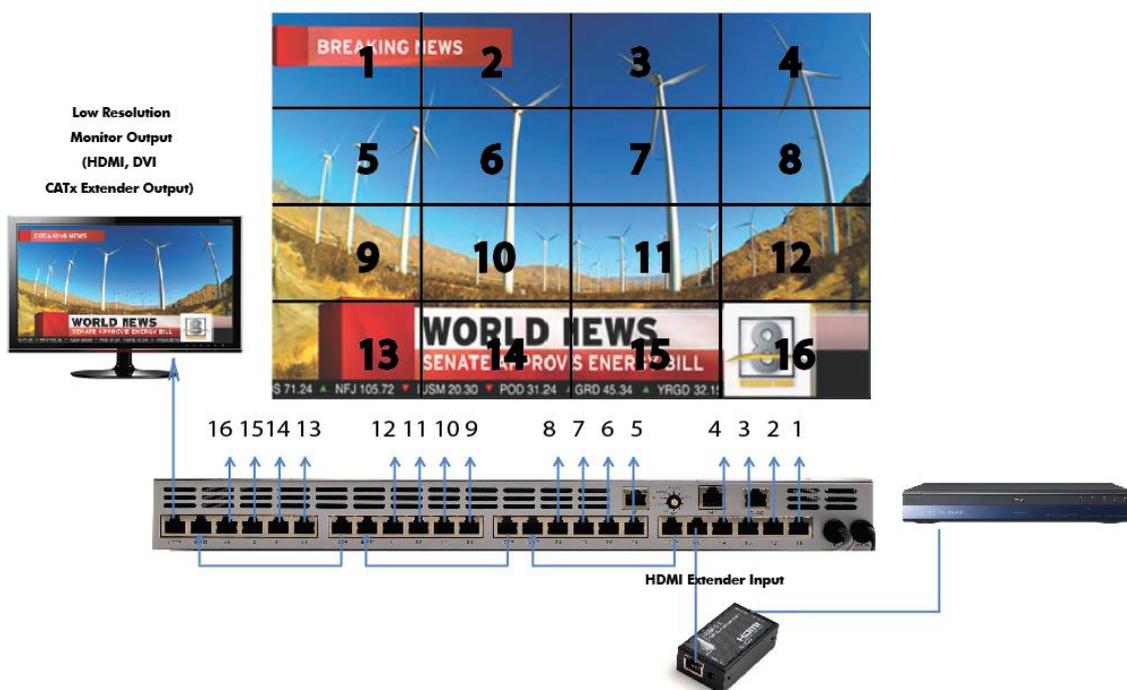


Figure 5-2: W-4x4 Connection diagram

6.0 Quick Configuration Steps

To set a 3x3 wall with 9 1080p panels

1. Make sure the power is off
2. Set the dial on the rear panel to 3x3
3. Follow the connection diagram on Figure 5.1
4. To switch the output between HDMI and DVI
 - a. Hold down the mode button -> all 4 sets of LED will flash, after flashing, it will switch from HDMI to DVI and vice versa
5. Adjust the output resolution between 1080p to 1366x768
 - a. Hold down H+ and V- simultaneously -> all 4 sets LEDs will flash
 - b. Follow by pressing the mode button will change between 1080p and 1366x768



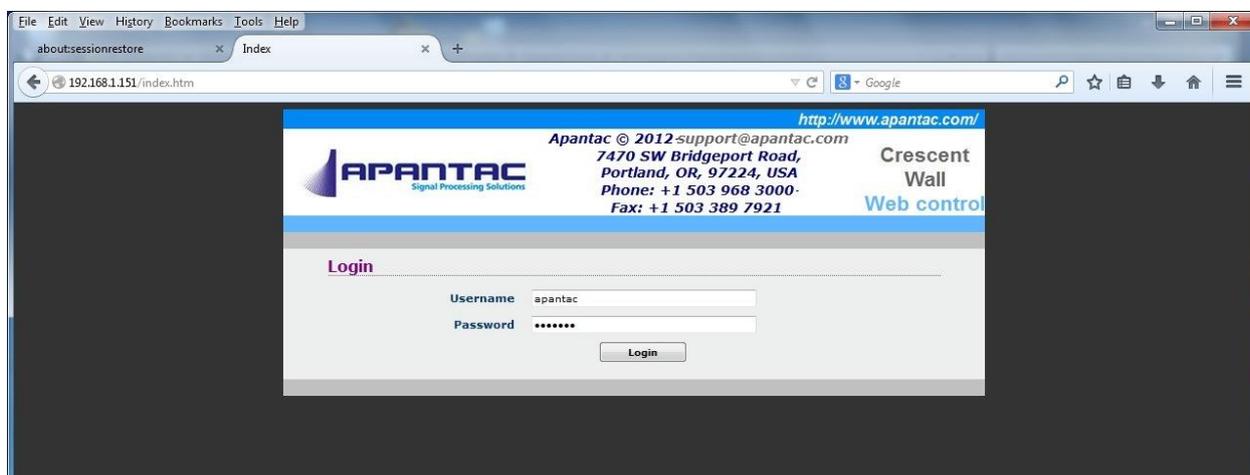
Figure 6.1

7.0 Web Interface Configuration

Connect the 'IP' port of the unit to your computer or network using a standard Ethernet cable. If you connect directly to your computer, you may need to set your computer's IP address to the same subnet as the unit.

The default address for Apantac Video Wall units is 192.168.1.151. Open a web browser and type 192.168.1.151 in the URL address line. When connected the login page will be displayed.

The default username is "apantac", the default password is "apantac". The username and password are case sensitive.



7.1 Administration

After you logon to the built-in page, you will be able to access 3 tabs, Setup, Advance and Administration. Click the Administration tab.

http://www.apantac.com/

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7470 SW Bridgeport Road,
Portland, OR, 97224, USA
Phone: +1 503 968 3000
Fax: +1 503 389 7921

Crescent Wall
Web control
Logout

Setup Advance Administration

Username

Username

Apply Cancel

Password

Old Password

New Password

Confirm Password

Apply Cancel

Network

Static IP Address

Static Subnet Mask

Static Default Gateway

Static DNS Server

Transmit Timer ms
Please enter an integer between 10~65535

Server/Client Mode

Server Listening Port
Please enter an integer between 1024~65535

Client Destination Host Name/IP
Please enter host IP address(e.g. 192.168.1.151)

Client Destination Port
Please enter an integer between 1024~65535

Accessible IP Setting

IP #1

IP #2

IP #3

IP #4

Control

Attention:
For the <Accessible IP Setting> change to take effect, you must power cycle or reboot the device

Apply Cancel

Figure 7.2: Administration Tab,

The areas outlined in red in the figure 7.2 above pertain to the Video Wall module itself.

- **Username**

The default username for logging on to these setup webpage is "apantac". This can be changed to your preference. Click the corresponding "Apply" button after entering your information.

- **Password**

The default password for logging on to these setup webpage is "apantac". This can be changed to your preference. Click the corresponding "Apply" button after entering your information.

- **Static IP Address**

The IP Address of the Video Wall unit. This should be set to an address on the same subnet as the computer (or network) it will be controlled from.

- **Static Subnet Mask**

Default subnet masks depend on the class of your network.

Network class	Network IP addresses	Subnet Mask
Class A	10.xxx.xxx.xxx	255.255.0.0
Class B	172.xxx.xxx.xxx	255.255.240.0
Class C	192.168.xxx.xxx	255.255.255.0

- **Static Default Gateway**

Set as applicable for your network. Contact your I.T. department.

- **Static DNS Server**

Set as applicable for your network. Contact your I.T. department.

Accessible IP Setting

WARNING: If enabled, only computers with these IP addresses can login to the Video Wall unit's webpages.

- **IP #1 through IP #4**

Enter the IP addresses of the computer's to be permitted to login to, access, and change the CP-16's settings.

- **Control**

This will enable or disable the 'Accessible IP Setting' function and settings. See the above warning prior to enabling this function.

Network

Static IP Address	<input type="text" value="192.168.1.151"/>
Static Subnet Mask	<input type="text" value="255.255.255.0"/>
Static Default Gateway	<input type="text" value="192.168.1.1"/>
Static DNS Server	<input type="text" value="168.95.1.1"/>
Transmit Timer	<input type="text" value="100"/> ms Please enter an integer between 10~65535
Server/Client Mode	Server ▼
Server Listening Port	<input type="text" value="2009"/> Please enter an integer between 1024~65535
Client Destination Host Name/IP	<input type="text" value="APANTAC.COM"/> Please enter host IP address(e.g. 192.168.1.151)
Client Destination Port	<input type="text" value="2009"/> Please enter an integer between 1024~65535

Accessible IP Setting

Figure 7.3: Administration Tab,

The remaining settings do not affect the Video Wall models / series and should be left at the default settings.

7.2 Advance

http://www.apantac.com/

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7470 SW Bridgeport Road,
Portland, OR, 97224, USA
Phone: +1 503 968 3000-
Fax: +1 503 389 7921

Crescent Wall
Web control
Logout

Setup Advance Administration

Warning!
Before you proceed with any changes on this page, please first consult Apantac support

Firmware Upgrade Settings

TFTP Server IP: 192.168.1.107

File Name: TvWallCtrl.bin

Apply Cancel FirmwareUpgrade

Auto Warning Report Settings

Cold Start: Enable

Authentication Failure: Enable

Local IP Address Changed: Enable

Password Changed: Enable

Apply Cancel

Figure 7.4: Advance Tab,

The Advance Tab does not contain configuration settings, and should only be used by field service personnel.

7.3 Setup

The Setup Tab is the primary configuration page.

The screenshot displays the APANTAC web control interface for the Crescent Wall. The top navigation bar includes the APANTAC logo, contact information (Apantac © 2012, support@apantac.com, 7470 SW Bridgeport Road, Portland, OR, 97224, USA, Phone: +1 503 968 3000, Fax: +1 503 389 7921), and the product name 'Crescent Wall Web control' with a 'Logout' link. The main menu has three tabs: 'Setup' (selected), 'Advance', and 'Administration'. The 'Settings' section is active, showing various configuration options:

- Wall Boards:** All boards (dropdown), <All board> mode for wall 3x3 and 4x4 only
- Wall Modes:** 2x8 ccw (dropdown)
- Horizontal Mullion Adjustment:** pixel 10 (dropdown)
- Vertical Mullion Adjustment:** line 15 (dropdown)
- 1x3 Vertical Mullion Adjustment:** line 0 (dropdown)
- Note:** Adjustment limits may depend on display resolutions
- Note:** There is no mullion adjustments in 1x4 mode
- Output Resolution:** 1920x1080p (dropdown)
- Output Modes:** DVI (dropdown)
- Pre-emphasis Mode 1.1~1.4:** Disable (dropdown)
- Pre-emphasis Mode 2.1~2.4:** Disable (dropdown)
- Pre-emphasis Mode 3.1~3.4:** Disable (dropdown)
- Pre-emphasis Mode 4.1~4.4:** Disable (dropdown)
- Horizontal Offset:** 0 (input), Range (-1920~1920)
- Vertical Offset:** 0 (input), Range (-1920~1920)
- Horizontal Zoom(In/Out):** 0 (input), Range (-4095~4095)
- Vertical Zoom(In/Out):** 0 (input), Range (-4095~4095)
- Note:** Color temperature range from 1000K~25000K (100K increments)
- Output Port Color Temperature:** Output All (dropdown)
- Common Color Temperature:** Typical Average Daylight (dropdown)
- Custom Color Temperature:** 6500 (input), Unit:K
- Color Space Red:** 255 (input), Range (0~255)
- Color Space Green:** 255 (input), Range (0~255)
- Color Space Blue:** 255 (input), Range (0~255)

At the bottom of the settings area are four buttons: 'Apply', 'Cancel', 'Restore default', and 'Reboot'.

Figure 7.5: Setup Tab,

Monitor Arrangement and Settings

- **Wall Boards**

Selects which video wall module will be affected when the 'Apply' button is clicked, applying the settings currently shown on the page.

- **Wall Modes**

Selects the video wall monitor arrangement. This determines how the input image is split and which outputs are driven with which piece of the input image. Refer to section 5.0.

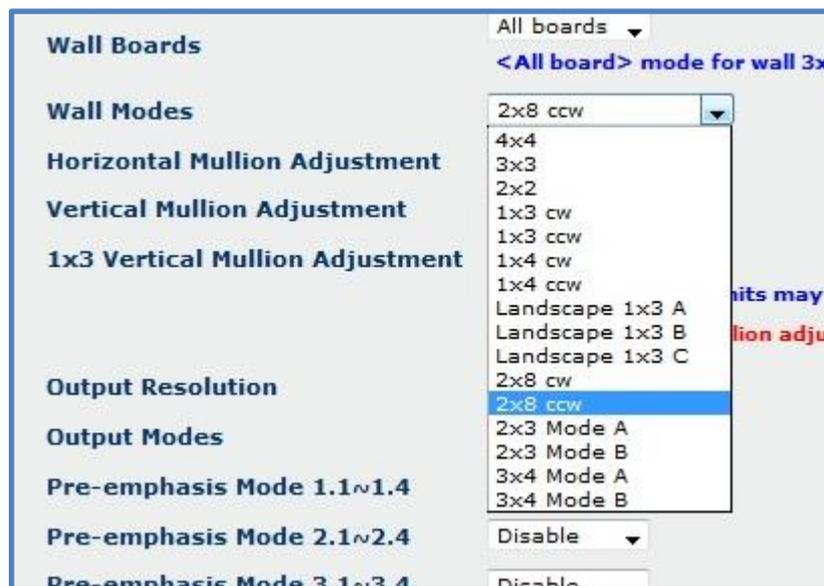


Figure 7.6: Wall Modes,

- **Output Resolution**

Sets the resolution of the output ports. Adjust this setting to match your video wall monitor's capability.

- **Output Modes**

Selectable for either HDMI or DVI type video signal. Adjust this setting to match your video wall monitor's capability.

- **Pre-emphasis Mode**

Disabled/Enabled (default is Disabled). The Apantac Video Wall series outputs HDMI video on Catx cable for compatibility with our video extender receiver units. Cable distance can be up to 10 meters with passive receivers and up to 35 meters with our active receivers. The Pre-Emphasis mode should only be enabled when cable distances approach the maximum and the signal shows signs of degradation.

Mullion Adjustments

Mullion adjustments compensate for the width of the monitor's frame.

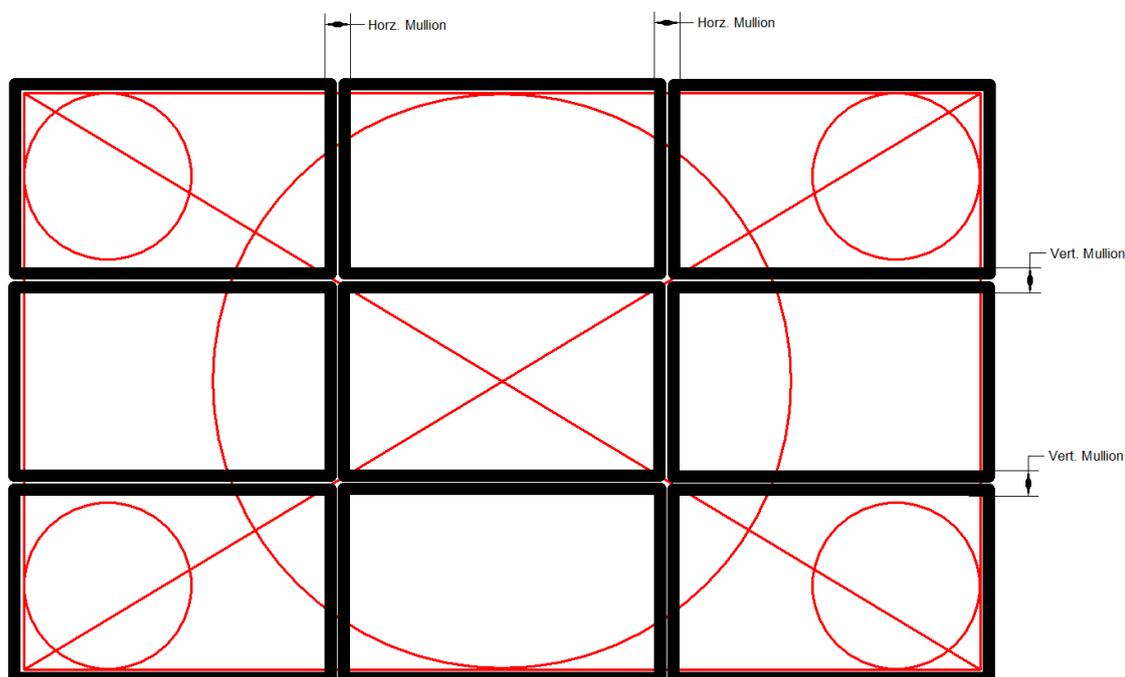


Figure 7.7: Mullion Compensation, 3x3 video wall example.

- **Horizontal Mullion Adjustment**
Selects the width of the portion of image to be removed, in pixels.
- **Vertical Mullion Adjustmen**
Selects the height of the portion of image to be removed, in video lines.
- **1x3 Vertical Mullion Adjustment**
Selects the width of the portion of image to be removed, in lines. This setting is also in line since the monitors will be in 'portrait' mode.

Offset and Zoom settings

These settings effectively crop and position the input image relative to the video wall.

- **Horizontal Offset**
- **Vertical Offset**
- **Horizontal Zoom**
- **Vertical Zoom**

Color settings

These settings can adjust the output video color, either to all monitors, or to individual monitors to compensate for disparate monitors.

- **Output Port Color Temperature**
Selects which output ports are affected by the settings when the 'Apply' button is clicked.
- **Common Color Temperature**
Selects from a list of the most common preset color temperature schemes.
- **Custom Color Temperature**
User configured custom setting.
- **Color Space Red**
User configured custom setting.
- **Color Space Green**
User configured custom setting.
- **Color Space Blue**
User configured custom setting.