# 4-INPUT AND UP TO 12-OUTPUT VIDEO WALL PROCESSOR AND MATRIX SWITCH



## **USER MANUAL**



1-800-284-2131

www.smartavi.com

## **OVERVIEW**

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## **TECHNICAL SPECIFICATIONS**

MODEL	P20 Series	P40 Series
Classic Size	2U, 3U, 6.5U, 11U, 20U	2.5U, 4U, 6.5U, 11U, 20U
Input Interface Number	8/8, 16/24, 36/48, 76/88, 152/176	16/20, 32/40, 36/48, 76/88, 152/176
Output Interface Number	12/8, 18/12, 36/24, 72/60, 144/120	9/8, 18/12, 36/24, 72/60, 144/120
Input Interface Type	DVI / HDMI / DP / VGA / YPbPr / CVBS / SDI / IP / HDBaseT	DVI / HDMI / DP / VGA / YPbPr / CVBS / SDI / IP / HDBaseT
Output Interface Type	HDMI / DVI / IP	HDMI / DVI / IP
Input Resolution	1920 x 1200 @ 60Hz, 4092 x 2160 @ 30Hz	1920 x 1200 @ 60Hz, 4092 x 2160 @ 30Hz
Output Resolution	1920 x 1200 @ 60Hz	1920 x 1200 @ 60Hz
Image Layer in Each Display	2	4
Control Method	Front panel touch screen, RS232, IP	Front panel touch screen, RS232, IP

VIDEO	
Video Amplifier Bandwidth	3.2Gbps
Input Video Signal	Video (TMDS) 0.5~1.0Vpp
Input DDC Signal	5 volts
Compliances	HDMI 1.4 and HDCP
Pixel Rates	Clock frequency beyond 165Mpix/second
Format	4:4:4 and 4:2:2 data input formats
Input Card Format	4-port HDMI or DVI
Output Card Format	4-port HDMI or DVI
Video Input	Up to 3 cards *
Video Output	Up to 3 cards *
Video Type	RGB/YCBCR : 24/30/36-bits,YCBCR: 8/10/12/16/20/24-bits
CONTROL	
Front	2x8 keyboard with 4x40 LCD
RS-232	DB9 Female, 115200 BPS, N, 8, 1, No flow control
Network	RJ45, UDP
OTHER	
Power Adapter	50/60Hz, 100~240 VAC
Dimensions	17 in (W) x 3.5 in (H) x 15 in (D)
Weight	20 lbs
Operating Temperature	32-122 °F (0-50 °C)
Storage Temperature	-4-149 °F (-20-65 °C)
Humidity	Up to 95% (No Condensation)
Emulation	Keyboard, Video and Mouse

## WHAT'S IN THE BOX?

PART NO.	Q-TY	DESCRIPTION
MXWALL-LT-V2	1	4-Input 12-Output Video Wall Processor and Matrix Switch
CCPWR06	1	Power supply cord
	1	User Manual

#### **MXWALL LT V2 FRONT**

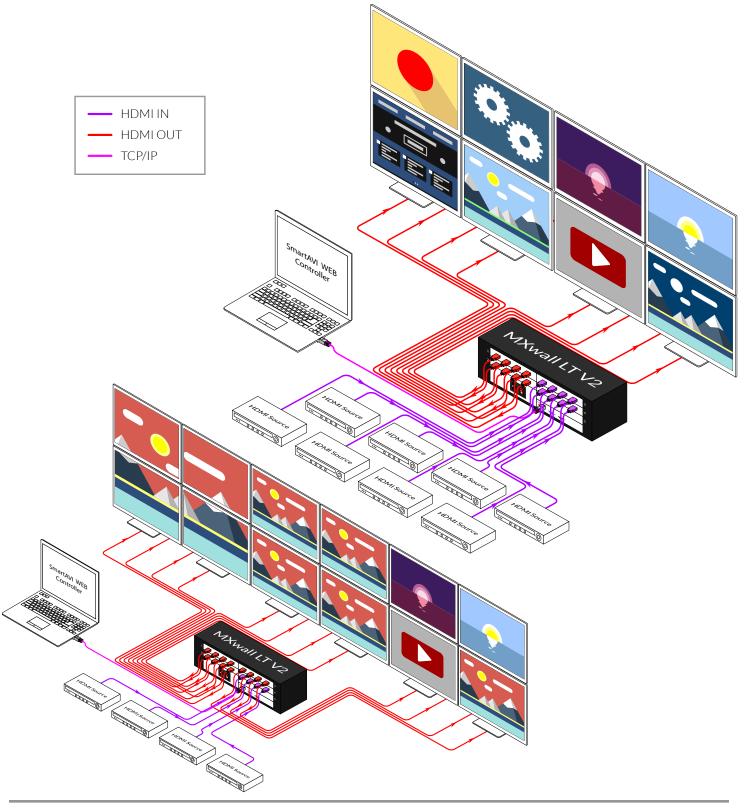


#### **MXWALL LT V2 BACK**



## **HARDWARE INSTALLATION**

- 1. Position MXwall LT V2 conveniently and keep it unplugged.
- 2. Connect displays to the MXwall LT V2 and power on the displays.
- 3. Connect any video source to the MXwall LT V2.
- 4. Optionally connect an RS-232 cable from a PC to the RS-232 port on the unit for additional control.
- 5. Optionally connect an Ethernet cable to the MXwall LT V2 for additional control.
- 6. Turn on the MXwall LT V2 and wait a few seconds for the unit to initialize.



## **AVAILABLE CONFIGURATIONS**

It is easy to create different configurations or modes that are easy to navigate through with the MXwall LT V2. There are endless possibilities. Creating and switching between display modes is simple. The touchscreen front panel, on-screen-display, RS-232, and TCP/IP can be used to switch between modes at will.



#### VIDEO WALL MODE

Users can stretch an input image across 4 to 12 HD screens with screen resolution of 1920 x 1080.

**INDIVIDUAL MODE** Users can route individual input images to each display individually.





#### QUAD MODE

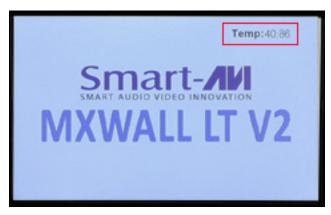
Create 4 four proportional sections, each displaying one of any 4 input images.

## User defined custom displays can be created with supplied software

Users can populate individual screens with multiple inputs. Add any of the input signals to play along side others within a single display.



## **FRONT PANEL CONTROL**



The MXwall LT V2 front panel displays the temperature of the unit in degrees Celsius in order for users to monitor and prevent overheating.

Many settings can be changed from the Setup page of the touchscreen front panel by clicking the white bar next to the setting name. Please note that the baud rate and language cannot be changed.

Buzzer: Turn the buzzer on or off.

IP address: Set a static IP address

Subnet mask: Set a custom subnet mask

Default gateway: Set the default gateway

MAC address: Set a custom MAC address

Baudrate	: 11	5200		IP :	192.168.5	0.213	
Language	: Er	nglish	Sub N	lask :	255.255.2	255.0	
Buzzer	:	Dn	Gate	way :	192.168.	.50.1	
			1	MAC : 10	C-B8-2C-7	9-96-F9	
						d'	Scene
1	2	3	4	5	6	$\langle \times \rangle$	
7	8	9	0	•	-		
A	В	С	D	Ε	F	P	< Q Setup

1	2	3	4	5		
6	7	8	9	10		_
11	12	13	14	15		ene
16	17	18	19	20		
					Set	<b>X</b> tup

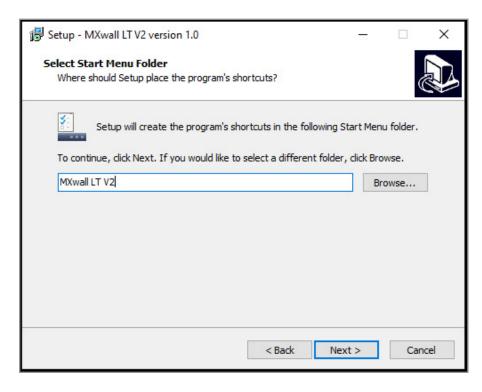
The Scene page on the front panel allows for easy playing of preconfigured layouts. Simply press the number corresponding to the desired layout, then press 'Recall' to play the desired layout.

#### **SOFTWARE INSTALLATION**

- 1. Run MXwall\_lt\_v2\_installer\_32bit.exe
- 2. A **Setup** window will pop open. Select where you would like to save the MXwall LT V2 software. It is recommended that the default installation path be used. Click '**Next** >'.

🕞 Setup - MXwall LT V2 version 1.0	-		×
Select Destination Location Where should MXwall LT V2 be installed?		(	
Setup will install MXwall LT V2 into the following folder.			
To continue, click Next. If you would like to select a different folder, C: \Program Files (x86)\MXwall LT V2		wse. owse	1
At least 137.8 MB of free disk space is required.			
Next	>	Can	cel

3. You will be asked to confirm the name of the **Start Menu** folder. Use the default name or choose a different name and then click '**Next**>' to continue.



## **SOFTWARE INSTALLATION (CONTINUED)**

4. You will be given the option to create a desktop shortcut. Then click 'Next >'

🔀 Setup - MXwall LT V2 version 1.0	-		×
Select Additional Tasks Which additional tasks should be performed?		¢	
Select the additional tasks you would like Setup to perform while ins V2, then click Next. Additional shortcuts:	talling M>	(wall LT	
Create a desktop shortcut			
< Back Nex	t >	Can	icel

5. You will be given a prompt to confirm installation of the MXwall LT V2 software. Click '**Install**' to continue with the installation.

🔀 Setup - MXwall LT V2 version 1.0	-		×
Ready to Install Setup is now ready to begin installing MXwall LT V2 on your comput	ter.	(	
Click Install to continue with the installation, or click Back if you was change any settings.	nt to revie	w or	
Destination location: C:\Program Files (x86)\MXwall LT V2		^	
Start Menu folder: MXwall LT V2			
< Back Ir	nstall	Can	cel

## **SOFTWARE INSTALLATION (CONTINUED)**

6. When the installation is complete a window will appear stating whether the installation was successful or not. Click the '**Finish**' button to exit or launch the MXwall LT V2 software.

📳 Setup - MXwall LT V2 versi	on 1.0 — 🗆 🗙
	Completing the MXwall LT V2 Setup Wizard
	Setup has finished installing MXwall LT V2 on your computer. The application may be launched by selecting the installed shortcuts.
	Click Finish to exit Setup.
	Launch MXwall LT V2
	Finish

7. The MXwall software needs to adjust some compatibility settings in order to function properly. Right click on the MX-Wall Desktop icon and select "**Properties**". From the Properties window select "**Compatibility**." Select "**Run this program as an administrator**" and "**Run this program in compatibility mode for:**" and select "**Windows 8**".

		Security	Details	Previous Versions			
		General	Shortcut	Compatibility			
MX-W	Open	Martin Andrea					
	Open file location		working correctly on t patibility troubleshoot	his version of Windows, er			
	Add to archive						
	Add to "MX-Wall LT.rar"	Run compatibilit	y troubleshooter				
	Compress and email	How do I choose c	ompatibility settings m	anually?			
	Compress to "MX-Wall LT.rar" and email	Compatibility mod	e				
•	Run as administrator	Run this prog	am in compatibility mo	ode for:			
6	Share with Skype	Windows 8		~			
	Troubleshoot compatibility	Thildon's o					
	Pin to Start	0					
	Scan with Windows Defender	Settings					
	Pin to taskbar	Reduced cold	ormode				
	Restore previous versions	8-bit (256) color					
	Restore previous versions	Run in 640 x	480 screen resolution				
	Send to >	Disable fullscr	een optimizations				
	Cut	Run this prog	am as an administrato	or -			
	Сору	Change bio	h DPI settings				
	Create shortcut						
	Delete	Change settings for all users					
	Rename		ings for all users				
	Properties		OK	Cancel Apply			
			UK	Cancel Apply			

## **SOFTWARE INSTALLATION (CONTINUED)**

8. See the section titled **CONFIGURATION FOR 4U AND 2U UNITS** for guidance on specific configuration for each type of unit.

#### **USING THE SOFTWARE**

#### Logging In

- 1. Run the MXwall LT V2 Software Manager.
- Log in using the default Account Settings.
   Username: 'admin', password: 'admin', then click the 'Login' button.

🖥 Login	×
Video Wall Control Software	
User Name: admin 🔹	
Password:	
Connection: COM4 Settings	
Communication O Demo	
Login Cancel	

#### **Configuring Connection Settings**

The connection settings can be configured at the login prompt or from the software manager. To configure connection settings from the login prompt:

1. Click 'Settings'

🖶 Login	×
Video Wall Control Software	
User Name: admin 🔹	
Password:	
Connection: COM4 Settings	
Communication O Demo	
Login Cancel	

2. To connect to the MXwall LT V2 unit over LAN, either manually enter the unit's IP address in the **IP Address** bar, or select the magnifying glass search icon which will automatically detect the IP address. Then select '**OK**'.

🛃 Setting			×
LAN	COM		
IP Addre	ss: 192.168.3 .100		
		ОК	

3. To connect to the unit over RS232, select '**COM**'. Enter the correct COM port and Baud Rate, and then press '**Connect**' and then '**OK**'.

Setting				×
LAN	COM			
	COM: CCM Baud Rate: 11	DM3 v 5200 v	Connect	
		ОК		

To configure the connection settings from the software manager:

1. Click the 'Connect' icon in the top navigation bar.



- 2. Here, choose whether to connect by network or serial port connection, enter the relevant information, then click 'Set up'.
- 3. Restart the software manager.

		×
'n	) U	se network connection
v	IP Address:	192.168.0 .120
	IP Port:	5000 <sup>△</sup>
	Interval(ms):	1
	Delay(ms):	1 <sup>△</sup>
		Set up
Modify IP	Gateway: 192.16	i8.3 .1 Modify
Modify	Aut	o IP
Modify	Fixe	d IP
	▼ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓ ↓	IP Address:       IP Port:       Interval(ms):       Interval(ms):       Delay(ms):       Modify IP       Gateway:     192.16       Modify

#### Setting IP Address Statically

The IP address of the MXwall LT V2 unit can be set statically from the connection settings window as shown in figure below. Simply enter the desired IP address and then press '**Modify IP**'.

📴 Connection Setti	ings			×
Connect 🔾 Us	se serial port connection		() ()	se network connection
COM Port:	СОМЗ	$\overline{\nabla}$	IP Address:	192.168.0 .120
Baud Rate:	115200		IP Port:	5000
Interval(ms):	1		Interval(ms):	1 <sup>△</sup>
Delay(ms):	300		Delay(ms):	10000 <sup>△</sup>
	Set up			Set up
IP Address: 192	.168.3 .100	Modify IP	Gateway: 192.16	i8.3 .1 Modify
SubnetMask: 255	.255.255.0	Modify	Auto	o IP
Baud Rate: 115	5200 🔻	Modify	Fixe	d IP
Controller in the s Search	ame LAN			

#### **Creating Inputs and Views**

The MXwall software manager represents output screens as a grid. In the figure below the highlighted square represents screen 1 on a grid of 4 screens. The input source channels are listed on the left-hand side of the manager. To map an input source to an output screen, simply drag and drop the channel icon into the square representing the desired output screen. Alternatively, click on the desired channel, and then click and trace a window within the desired output section(s) on the grid; double-click the window to fill the output section(s).

*				
Connections Connect Settings Users Scenes	Close All Lock About Exit			
Input Source	1	2		]
Channel 1 Channel 2				
Channel 3 Channel 4				
Channel 5 Channel 6 Channel 7				
Channel 9 Channel 9		 		
Channel 10 Channel 11				
Channel 12 Channel 13 Channel 14				
Channel 15 Channel 16				
	3	4		-
Input Source Management				
			1	

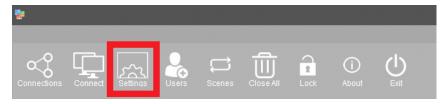
#### Input Source Pane

The various input channels can be managed from the Input Source Management Pane. Each channel number corresponds to the input port number on the back of the MXwall unit.

Connections Covered Settings Users			
Next Source UI Channel 1 Channel 2 Channel 3 Channel 3 Channel 4 Channel 5 Channel 5 Channel 5 Channel 5 Channel 7	1	2	
Channel B Channel B Channel B Channel 10 Channel 11 Channel 12 Channel 12 Channel 13 Channel 13 Channel 15 Ch			
	3	4	
Input Source Management			

#### **Changing Settings**

1. To change video wall settings, click the settings icon in the navigation bar.

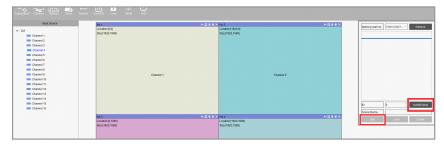


2. From the settings window, it is possible to change the resolution and refresh rate pairs, alter the start channel, and customize the number of rows and columns in the output section grid. After altering settings, click '**Create**' and then '**Modify MCU**' to save and apply the new settings.

		Machine Type
		2U 2Wins-1
		Video Wall
		VideoWall 1
		Vedio Wall Type
	2	LED VideoWall
		Resolution
		Resolution: 1920x1080 60.00H; 1
		Protocol Type
		Start Channel: 1
		Row: 2
		Column: 2
		Single Display: Max 2 Windows
		Pixel Pitch:
	4	
		BackPic Null • Yes
		Banner V Preview
		Create

#### **Creating Layouts and Scenes**

- 1. The MXwall LT V2 allows users to create customizable layouts and then play them as scenes.
- 2. After creating the desired layout, select 'Autofill fields' and then 'Add'. This will create a layout.



3. Then, in the navigation bar, select 'Scenes'



- 4. From the Scenes tab, select the appropriate layout(s), choose the time interval in seconds over which the layout(s) will play, and then click '**Add**'. Do this for up to 20 layouts in the order in which they will play.
- 5. Then, click '**Start**' to begin scene playback.



#### **Users Permissions**

To change user permissions, select the 'Users' icon in the navigation bar.



From this window, user permissions and passwords can be easily changed

🔁 User Rights Management				>
✓ admin	User Nameadmin			
user	Current User:user			
	Save Restriction	Select #	All	Cancel All
	Permission Assigment			
	The software function selection	License File	Export File	Import File
	About			
	Video Wall	🗹 Input	CBD Setting	Background Picture
	Text Overlap	Add Resolution	🖌 Initial Mode	Screen Control Setting
	ColorAdjust	Signal Preview	Scene Cycle	Change Resolution
	Bezel Compensation			
	VideoWall No.: VideoWall1		Ŧ	Setting
	Save Scene	Scene Recall	Delete Scene	
	Vew New	Clear		
	🗸 Open Window	Close Window	Channel Switch	Move Window
	Change Password			
	Old Password:	New Password:	Confirm Password:	Confirm

#### **Creating Text Overlaps**

Using text overlaps, you can create customized messages or labels which can be displayed along with specified input source channels. To create a text overlap, right click the desired channel and click "**Text Overlap**." In this example, Channel 1 has been selected.

	Input Source
✓ DVI	
🚥 Channel 1	
💻 Channel 2	Text Overlap
💻 Channel 3	Source Crop
💻 Channel 4	
💻 Channel 5	
💻 Channel 6	

From the Text Overlap menu, you can specify the Overlap Text, the RGB values of the text, and the X-Start and Y-Start coordinates for the text. To display the overlap text click "**Send**" or "**Open**", and then click the Close "**X**" icon in the top right corner of the window. To remove the overlap text, click "**Close**".

📑 Text Overlap	×
Overlap Text: Channel #1	Send
Red	0
Green	0
Blue	0
X-Start	0
Y-Start	0
Open	Close

#### **Cropping Source Image**

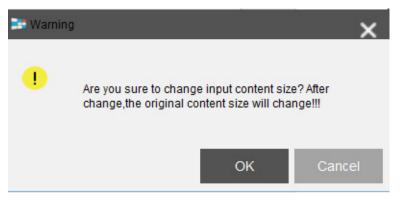
To crop the source image for a specific channel, right click the channel's icon and select "**Source Crop**". In this example, Channel 1 has been selected.

Inpu	ut Source
· ✓ DVI	
Channel 1	Text Overlap
Channel 9	
Channel 10	Source Crop
Channel 11	
Channel 12	
Channel 13	
Channel 14	

Here, you can change the start and end XY coordinates for the source image. When finished, click "**Confirm**".

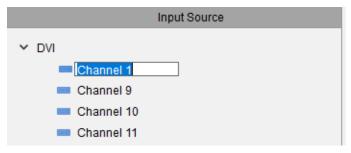
Source Setting			v.		×
Content Setting					
Start X:	0	 ▼	Start Y:	þ	-
End X:	1919	 ▼	End Y:	1079	 ▼
				Confirm	

Then confirm your changes by clicking "OK" at the warning prompt.



#### **Changing Channel Names**

To change the name of a given channel, double left-click the desired Input Source channel and enter the name of your choice.

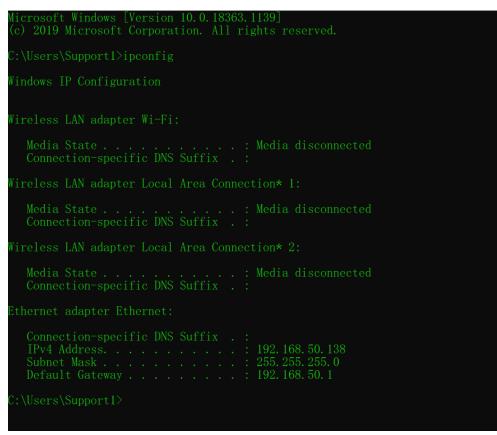


## **CONNECT TO THE NETWORK**

To connect your MXwall to the network, first connect an ethernet cable from your network access point to the RJ45 jack on the back of the MXwall. You will need to enter the desired IP address and default gateway either on the Setup page of the front panel (see page 7) or from the Connection Settings tab of the software manager (see page 13).

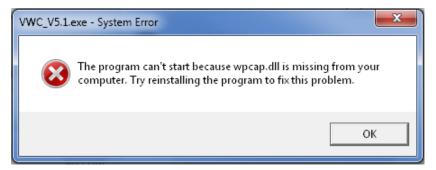
To determine your default gateway and applicable IP address range on a Windows PC, first connect the Windows PC to the same network as the MXwall, then open the command prompt program and enter "ipconfig". Your PC's IPv4 Address, Subnet Mask, and Default Gateway will be shown in a manner similar to the screenshot below. From the MXwall software or front panel, enter the Default Gateway address, and then enter an IP address on the same subnet. For example, if my Default Gateway is 192.168.50.1 and subnet mask is 255.255.255.0, then all devices on the network will have an IP address of the form 192.168.50.X. Two devices on the same network cannot use the same IP address at the same time. Since my IP address is 192.168.50.138, I could give my MXwall an IP address of 192.168.50.139. If you have many devices on your network, check your router for available IP addresses before assigning one to your device and then, from the router, consider applying a static lease to the MXwall's IP address so that it does not change.

## **CONNECT TO THE NETWORK (CONTINUED)**



## **SYSTEM ERROR**

If during installation you receive the following error message, you will have to download the wpcap.dll and the C++ Redistributable.



The official site to download wpcap.dll is winpcap.org.

C++ Redistributables are available for download at Microsoft.com. The MXwall software is a 32-bit program, so you will need to download the 32-bit C++ Redistributable. If your system is 64-bit, then it is recommended that you download the 64-bit version as well.

## **USING THE TABLET**

#### INSTALLATION

The MXwall LT V2 tablet software allows for greater flexibility and mobility while using the video wall. The tablet software functions with tablets running Android version 7 and above. Although the MXwall tablet software will work with tablets that use various screen resolutions, it is recommended that you use a 1080p capable tablet for the best user experience.

To install the tablet software, connect the tablet to your PC where it should be available for use as a file system similar to a USB stick. Simply drag and drop the file mxwall\_lt\_v2.apk into your tablet's file system folder and disconnect the tablet from your computer.

On many tablet products, you will need to enable "Apps from Unknown Sources" before installing mxwall\_lt\_v2.apk. To install, simply go to your tablet's file system, find the file mxwall\_lt\_v2.apk, click it, and press "Install."

#### CONNECTING TO YOUR MXWALL

In order for your tablet software to work with your MXwall, they must be on the same network. This can be achieved by connecting your MXwall to your wireless access point using the RJ45 port on the back of the unit and connecting your tablet to the same wireless network. If your MXwall was set with a static IP address, you will need to enable DHCP or statically set your MXwall's IP address to the same subnet as your wireless network using the front panel or PC MXwall software.

After running the MXwall Video Control Software App from your tablet, press the magnifying glass icon to automatically detect the IP Address of your MXwall and then press "Connect." Now you can use the tablet software in the exact same way you use your PC software.

### **CONFIGURATION FOR 4U AND 2U UNITS**

If you have a 2U MXwall, set Machine Type to "2U 2Wins-2" and Single Display to "Max 2 Windows.

Machine Type						
2U 2Wins-2						
Video Wall						
VideoWall 1						
Resolution: 192	0x1080 60.00Hz 🔻					
L						
Start Channel: 1						
Row: 2						
Column: 2						
Single Display : M	ax 2 Windows					
Create						
Modify MCU Card Setting						

If you have a 4U MXwall, set Machine Type to "4U 4Wins" and Single Display to "Max 4 Windows.

Machine Type				
4U 4Wins	$\nabla$			
Video Wall				
VideoWall 1				
Resolution: 1920x1080 60.00Hz				
Start Channel:	1			
Row:	2			
Column:	2			
Single Display :	Max 4 Windows			

## TROUBLESHOOTING

#### No Power

- Make sure that the power adapter is securely connected to the power connector of the unit.
- Check the output voltage of the power supply and make sure that the voltage value is around 12VDC.
- Replace the power supply.

#### No Video

- Check if all the video cables are connected properly.
- Connect the computer directly to the monitor to verify that your monitor and computer are functioning properly.
- Restart the computers.

#### Keyboard is not working

- Check if the keyboard is properly connected to the unit.
- Check if the USB cables connecting the unit and the computers are properly connected.
- Try connecting the USB on the computer to a different port.
- Make sure that the keyboard works when directly connected to the computer.
- Replace the keyboard.

#### Mouse is not working

- Check if the mouse is properly connected to the unit.
- Try connecting the USB on the computer to a different port.
- Make sure that the mouse works when directly connected to the computer.
- Replace the mouse.

#### No Audio

- Check if all the audio cables are connected properly.
- Connect the speakers directly to the computer to verify that the speakers and the computer audio are functioning properly.
- Check the audio settings of the computer and verify that the audio output is through the speakers.

#### **TECHNICAL SUPPORT**

For product inquiries, warranty questions, or technical questions, please contact info@smartavi.com.

## LIMITED WARRANTY STATEMENT

#### A. Extent of limited warranty

SmartAVI, 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. Customer is responsible for maintaining proof of date of purchase.

SmartAVI 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 defective product. If SmartAVI is unable to replace or repair defective product covered by the SmartAVI warranty within reasonable period of time, SmartAVI shall refund the cost of the product.

SmartAVI shall have no obligation to repair, replace or refund unit until customer returns 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.

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

#### B. Limitations of warranty

To the extant 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 extant 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.

## Smart Audio Video INNOVATION

## NOTICE

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