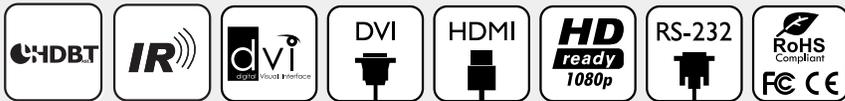


## 4K Modular Video Wall Processor



**Model #: HDM-AVXWALL**

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## Product Application & Market Sectors



Corporate



House Of Worship



Military



Residential



Education



Industrial



Medical



Aviation



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## SECTION I: GETTING STARTED

### I.1 IMPORTANT SAFEGUARDS

Please read all of these instructions carefully before you use the device. Save this manual for future reference.

#### What the warranty does not cover

- Any product, on which the serial number has been defaced, modified or removed.
- Damage, deterioration or malfunction resulting from:
  - Accident, misuse, neglect, fire, water, lightning, or other acts of nature, unauthorized product modification, or failure to follow instructions supplied with the product.
  - Repair or attempted repair by anyone not authorized by us.
  - Any damage of the product due to shipment.
  - Removal or installation of the product.
  - Causes external to the product, such as electric power fluctuation or failure.
  - Use of supplies or parts not meeting our specifications.
  - Normal wear and tear.
  - Any other causes which does not relate to a product defect.
- Removal, installation, and set-up service charges.

### I.2 SAFETY INSTRUCTIONS

The Avenview HDM-AVXWALL Modular Video Wall processor has been tested for conformity to safety regulations and requirements, and has been certified for international use. However, like all electronic equipment's, the HDM-AVXWALL should be used with care. Read the following safety instructions to protect yourself from possible injury and to minimize the risk of damage to the unit.

- ⚠ Do not dismantle the housing or modify the module.
- ⚠ Dismantling the housing or modifying the module may result in electrical shock or burn.
- ⚠ Refer all servicing to qualified service personnel.
- ⚠ Do not attempt to service this product yourself as opening or removing housing may expose you to dangerous voltage or other hazards
- ⚠ keep the module away from liquids.
- ⚠ Spillage into the housing may result in fire, electrical shock, or equipment damage. If an object or liquid falls or spills on to the housing, unplug the module immediately.
- ⚠ Have the module checked by a qualified service engineer before using it again.
- ⚠ Do not use liquid or aerosol cleaners to clean this unit. Always unplug the power to the device before cleaning.



## 1.3 REGULATORY NOTICES FEDERAL COMMUNICATIONS COMMISSION (FCC)

This equipment has been tested and found to comply with part 15 of the FCC rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation.

Any changes or modifications made to this equipment may void the user's authority to operate this equipment.

Warning symbols	Description
	<p>ONLY USE THE PROVIDED POWER CABLE OR POWER ADAPTER SUPPLIED. DO NOT TAMPER WITH THE ELECTRICAL PARTS. THIS MAY RESULT IN ELECTRICAL SHOCK OR BURN.</p>
	<p>DO NOT TAMPER WITH THE UNIT. DOING SO WILL VOID THE WARRANTY AND CONTINUED USE OF THE PRODUCT.</p>
	<p>THE VIDEO BOARDS ARE VERY SENSITIVE TO STATIC. PLEASE ENSURE IF RACK MOUNTED OR INSTALLED ON A SURFACE, IT SHOULD BE IN A GROUNDED ENVIROMENT.</p>

	<p><b>! WARNING</b></p>
	<p>Read &amp; understand user guide before using this device.</p> <p>Failure to follow the proper installation instructions could result in damage to the product and preventing expected results.</p>

## 2. INTRODUCTION

The Avenview AVXWALL is a modular chassis based 4K video wall Processor with first in its class FPGA and industry recognized video processors built into the design.

**The AVXWALL is compatible with standard definition (SD), Full HD (1080p), WQXGA (2160x1600) and 4K.**

**AVXWALL** accepts 4K signal formats with modular input and output board design with video connectors such as Dual Link DVI, DisplayPort and HDM which offers impeccable quality across multiple screens. The video wall processor also can mix and match our line of I/O cards which can be installed into the appointed space. I/O cards are available in CVBS,YPbPr, VGA, DVI, HDMI, SDI, DisplayPort, HDBASET and optical fiber. These I/O cards offer extremely high video bandwidth , which ensures real-time signal processing, with no delay or frame loss.

No in-depth training is required to use our new Control Software. Creative and useful features for any client solution include drag n drop, image placement, zoom, and user preset buttons to recall favorites. Bonus feature; our software can also preview the input source directly within the Control Software which is connected through TCP/IP. Enjoy using your touch devices with our optional MRCS controller board to manage multiple video walls and layouts with fully customizable interface. It also supports a 2x2, 3x3, and 4x4 - upto max 72 outputs on a

The user can also create quad view grid format on a single display , PIP, Overlay across many displays with a click of the mouse with user defined presets up to 128 .

Having **FPGA** as its core design, this technology enables this unit to manage multiple Video Walls with one single processor. The user has the ability to control each video-wall separately within the control software. The output resolution can also be managed within each individual screen/monitor and also for different Video Walls.

### FEATURES:

- Modular input and output chasis design 720x480 to 4096x2160;
- Supports CVBS,YPbPr,VGA,DVI, HDMI, SDI, DisplayPort,UTP and optical fiber;
- Seamless Switching, No black fields or frame loss,
- Full screen modes PIP,PAP, Zoom, image crop and adjustable size & position through software;
- Functions perfectly as a multiviewer, video screen splitter, video converter and matrix switcher;
- Grid formatting up to 4 Images per screen;
- Minimum single screen to 64 screens horizontally /32 screens vertically 600x800, 768x1024, 768x1024, 720x1280, 800x1280, 1024x1280, 768x1366, 768x1360, 1050x1400, 900x1440, 1200x1600, 1050x1680, 1080x1920, 1200x1920;
- IP camera decoding support (64 1080p and 265 DI images) can be supported on the max chassis size;
- PC capture over the network @20 frames per sec;
- Image parameters and layouts are automatically saved in 128 Preset Mode of the device creating easy buttons;
- Up to 4 separate Background Image storage;
- Management of Multiple Videowalls with same inputs across many designs;
- EDID Management;
- Input Signal preview through Control Software @5 frames per sec;
- Software control through TCP/IP;
- Available in 2/4/8/13/19U chassis sizes.



## 2.1 PACKAGE CONTENT

Before you start the installation of the converter, please check the package contents.

1	HDM-AVXWALL	X 1	
2	POWER CORD	X 1	
	RACK-MOUNTING KIT	X 1	
	INSTALLATION SOFTWARE / CD	X 1	
	USER MANUAL		



## 2.2 BEFORE INSTALLATION

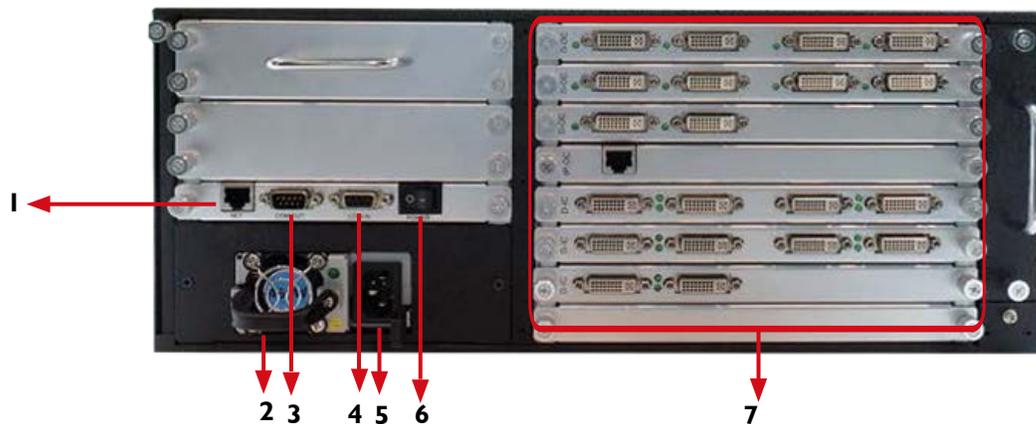
- Put the product in an even and stable location. If the product falls down or drops, it may cause an injury or malfunction.
- Don't place the product in too high temperature (over 50°C), too low temperature (under 0°C) or high humidity.
- Use the DC power adapter with correct specifications. If inappropriate power supply is used then it may cause a fire.
- Do not twist or pull by force ends of the video cable. It can cause malfunction.

## 2.3 PANEL DESCRIPTION

### 2.3.1 HDM-AVXWALL Front Panel



### 2.3.2 HDM-AVXWALL Rear Panel



1. <b>LAN:</b> Connect to active network for LAN serving, Telnet and Web GUI control (using Cat5/6 cables)	2. <b>VENTILATION FAN:</b> Automatically runs to keep unit cool.
3. <b>RS 232 OUT:</b> Connect to PC or control system with D-Sub 9-pin cable for the transmission of RS-232 commands.	4. <b>RS 232 IN:RS-232:</b> Connect to PC or control system with D-Sub 9-pin cable for the transmission of RS-232 commands.
5. <b>POWER OUTLET:</b> Power cord connection interface	6. <b>POWER SWITCH ON/OFF:</b> Powers the device On and OFF
7. <b>INPUT AND OUTPUT CARDS:</b> Supports up to 128 Inputs / 72 Outputs HDBaseT, HDMI, DVI, SDI, DP (see pages 10-14)	



### 3. INSTALLATION

To setup Avenview HDM-AVXWALL follow the steps outlined below:

1. Premium quality DVI, HDMI, VGA, Composite, S-Video cables and adapters are recommended.
2. Make sure HDM-AVXWALL is turned off.
3. Connect displays (or projectors, TV or other display devices) to output cards on the HDM-AVXWALL.
4. Connect the Source devices (such as, PC, DVD player, or Media player etc.) to HDM-AVXWALL input cards.
5. Connect a Windows based laptop or desktop (that will used to configure the HDM-AVXWALL) to HDM-AVXWALL using RS-232 to USB Adapter cord.
6. Power ON HDM-AVXWALL.
7. Turn ON all devices connected to HDM-AVXWALL and then setup the HDM-AVXWALL from the system through RS-232 to USB Adapter and provided Avenview software.

- *DO NOT block the back of this device or stack another device on the top or bottom of the HDM-AVXWALL. If the unit is blocked it will block the air flow from the fans on the side of the unit. This could cause system to over-heat, which may result in system failure.*



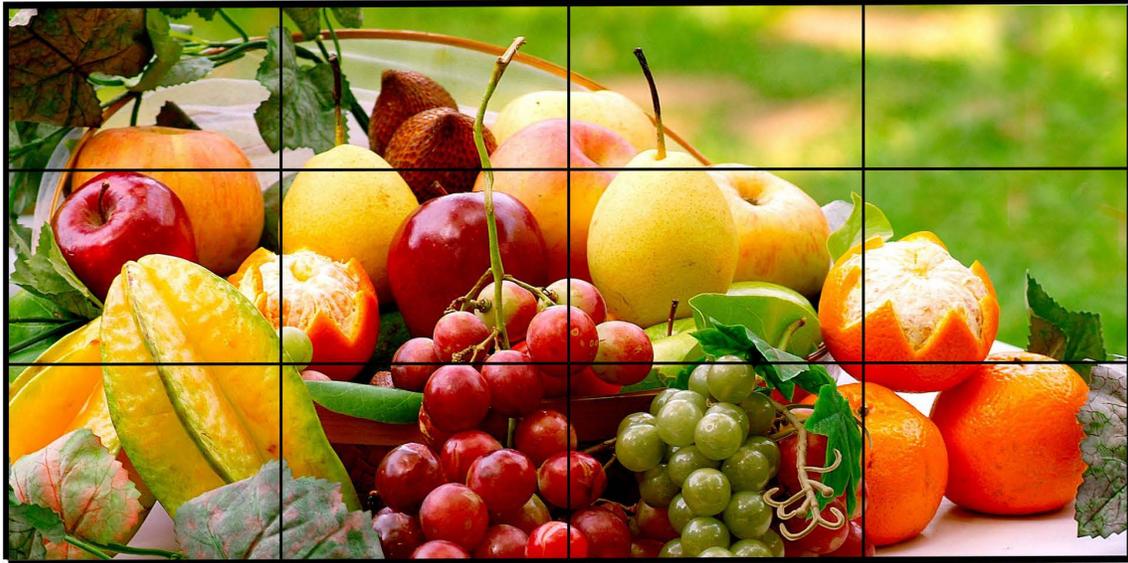
### HDM-AVXWALL-XX

FULL HD1080P (1920X1080) = 10m (33 feet) HDMI  
WQXGA(2160X1600) = 10m (33 feet) DVI-DL  
4K(4096X2160) = 10m (33 feet) DP

CABLE INDEX  
Output ■  
Input / Source ■

VIDEOWALL FUNCTION  
LAYOUT 2

#### 4x3 Configuration



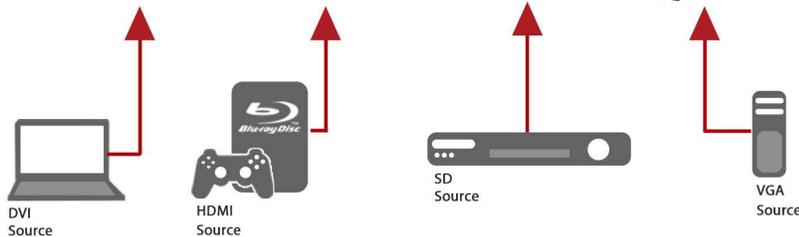
# 4K

24

PC Control Software  
Ethernet to TCP/IP



HDBaseT  
Compatible  
(330ft)



## 5. SOFTWARE

The Avenview HDM-AVXWALL includes Control Software program that requires Microsoft Windows XP or later.

Connect the provided RS-232 to the HDM-AVXWALL and any USB port on a Windows based computer that will be used to configure the HDM-AVXWALL. When connected Windows will search for the required drivers. If an older version of Windows operating system is used and windows was unable to find drivers; insert the Installation CD (provided) and have Windows search for drivers.

### 5.1 OPERATION AND CONFIGURATION

1. Power ON the HDM-AVXWALL.
2. Power ON all INPUT and OUTPUT connected devices.



## (A) CONNECT:

### Establish Connection:

Launch application by double clicking the software icon on desktop



Login window pops up, Type 'ADMIN' as user name, password blank, then click 'OK'.

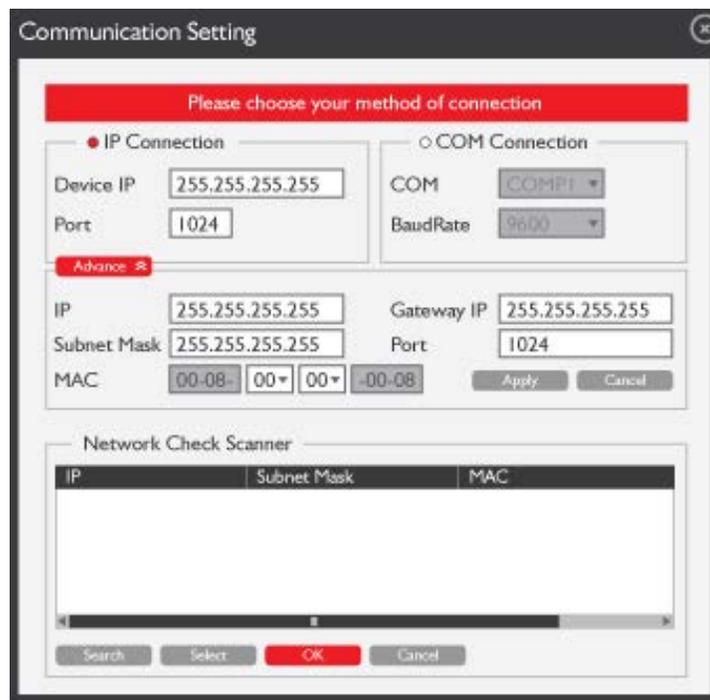
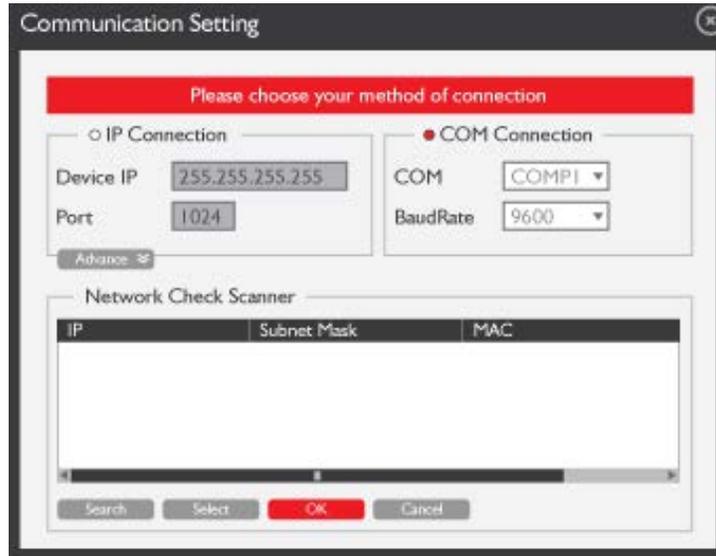


Avenview control software menu consists of seven tabs:  
'Connect', 'Dashboard', 'View', 'Edit', 'Operation', 'Tools', 'Settings'.

Click '**Connect**' tab to configure communication between HDM-AVXWALL and Control Software.



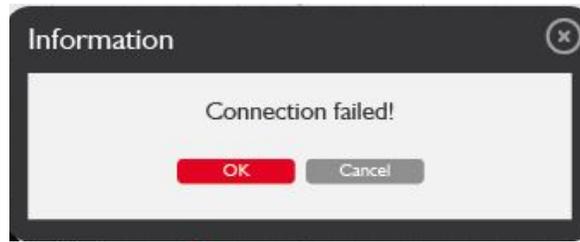
In '**Communication Setting**' window two methods of communication can be used.  
 If '*IP Connection*' is selected, the default IP address and port number of the processor are '192.168.1.65' and '1024'.  
 If '*COM Connection*' is selected, Select the correct COM port. Baud rate is 9600.  
 Click **OK** to apply and save settings.



Click '**Connect**' to establish communication, Connection should light up green on the top right side section of the software



If communication settings are not correct a "Connection failed" error message will pop-up. Please re-check communication settings and try again.

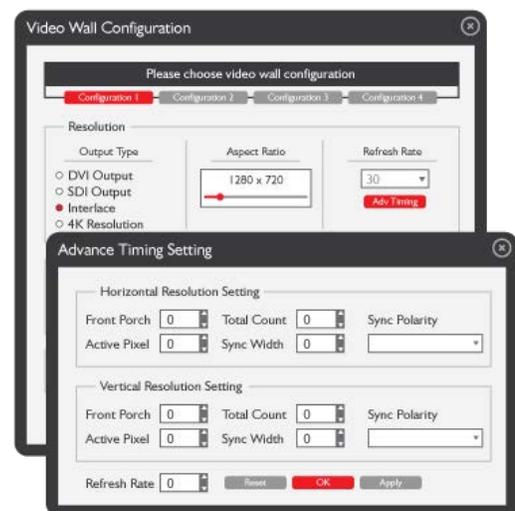
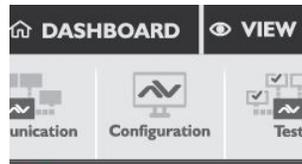


The possible reasons causing above error could be:

- No Power to HDM-AVXWALL or it is in sleep state. If this is the case, check the power and restart the HDM-AVXWALL
- The serial connection is not well established. Please ensure that drivers are properly installed and all cables are securely connected. Check device manager, and ensure that RS-232 to USB Adapter is assigned COM Port # and there is no exclamation mark.

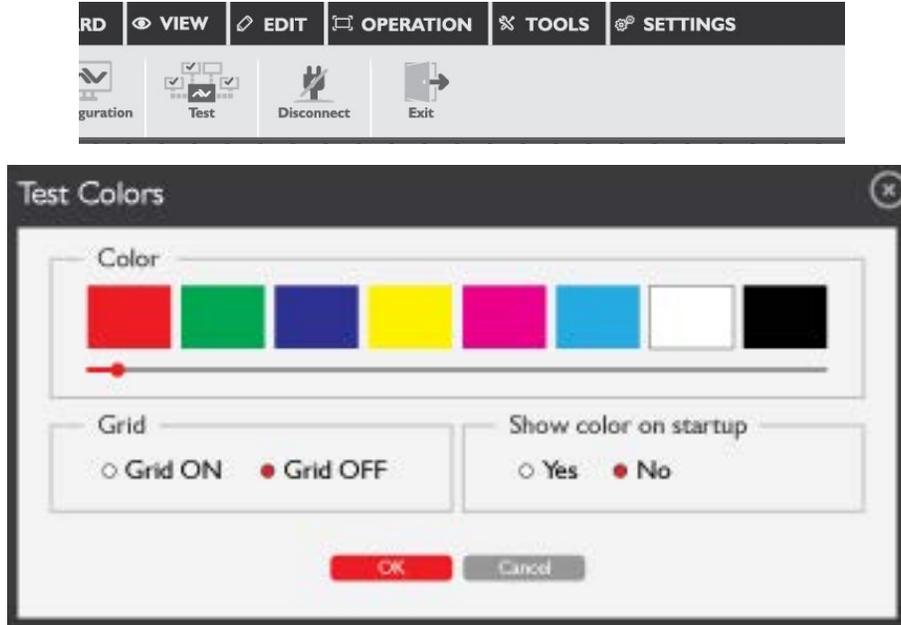
## Configuration

Click on "**Configuration**" from the top tabs menu. Users can set the output resolutions, layout, aspect ratio and Bezel correction for up to 4 groups of connected video walls.



## Test Signal

'Test' tab allows users to test the connection between processor and displays by transmitting signals of pure colour or grid to the displays.



Click '**Disconnect**' to disconnect the connection between the Processor and Control Software

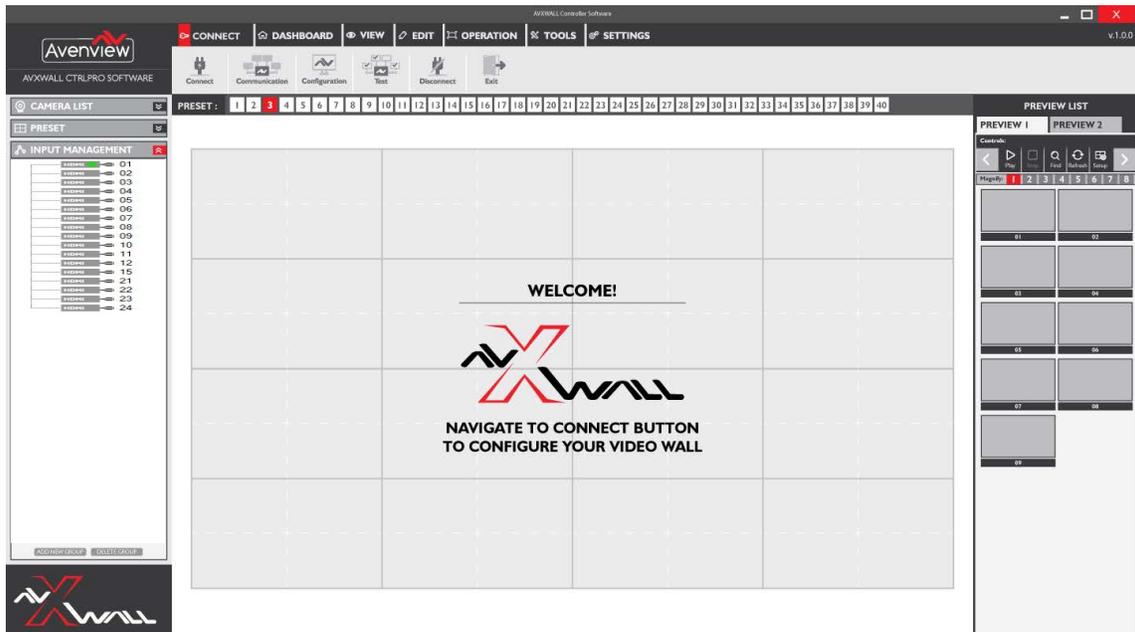


Click '**Exit**' to exit and close PC control software

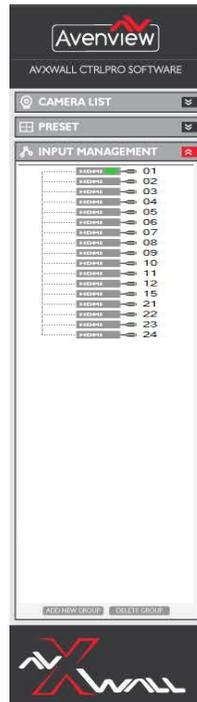


## Input Management

The signal source list is located on the left panel of the software UI. Input source will turn green when input signal is detected on the corresponding channel.



**Advanced Settings** including rename and modify of any Source can be accessed by **right clicking** on any of the source list icon.



## (B) DASHBOARD:

### I. Presets

Saving and Loading Presets

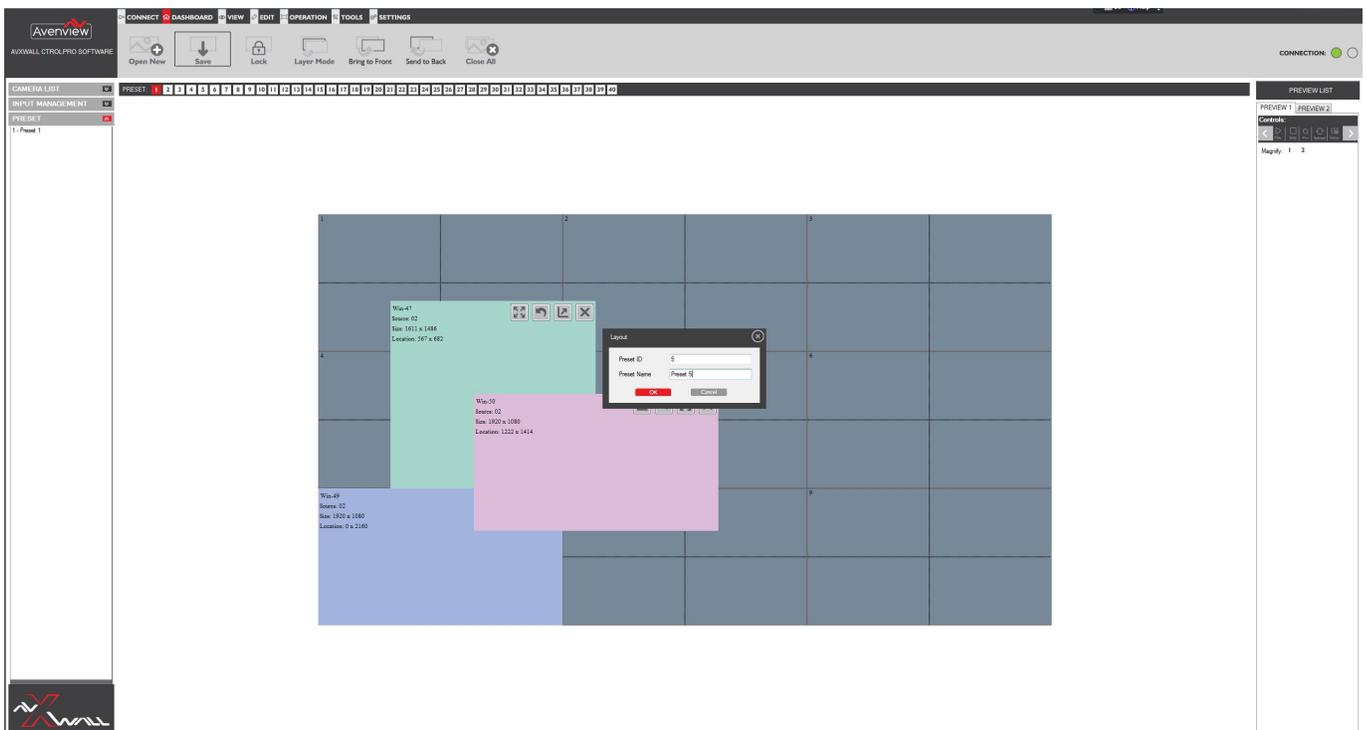
Click on "**Dashboard**"

Click "**Save**" to save the created Video wall including layout, size and source windows

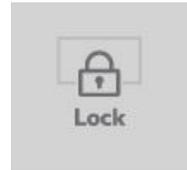
Click "**Open**" to load the created Video wall including layout, size and source windows



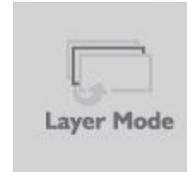
Layouts can be saved with a unique ID and name to be easily recalled



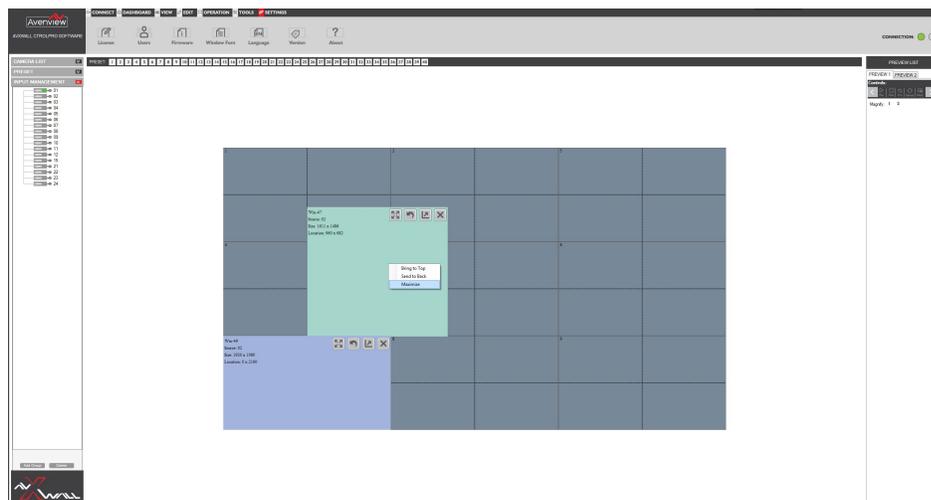
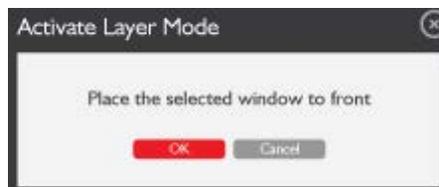
**"Lock"** Locks open layout windows on the video wall from being controlled



**"Layer Mode"** allows control over multiple open windows on the video wall



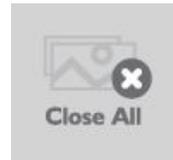
**"Bring to Front"** moves the selected window in the video wall to front. Right Click on any layout windows to send to front, send to back or Maximize the selected input.



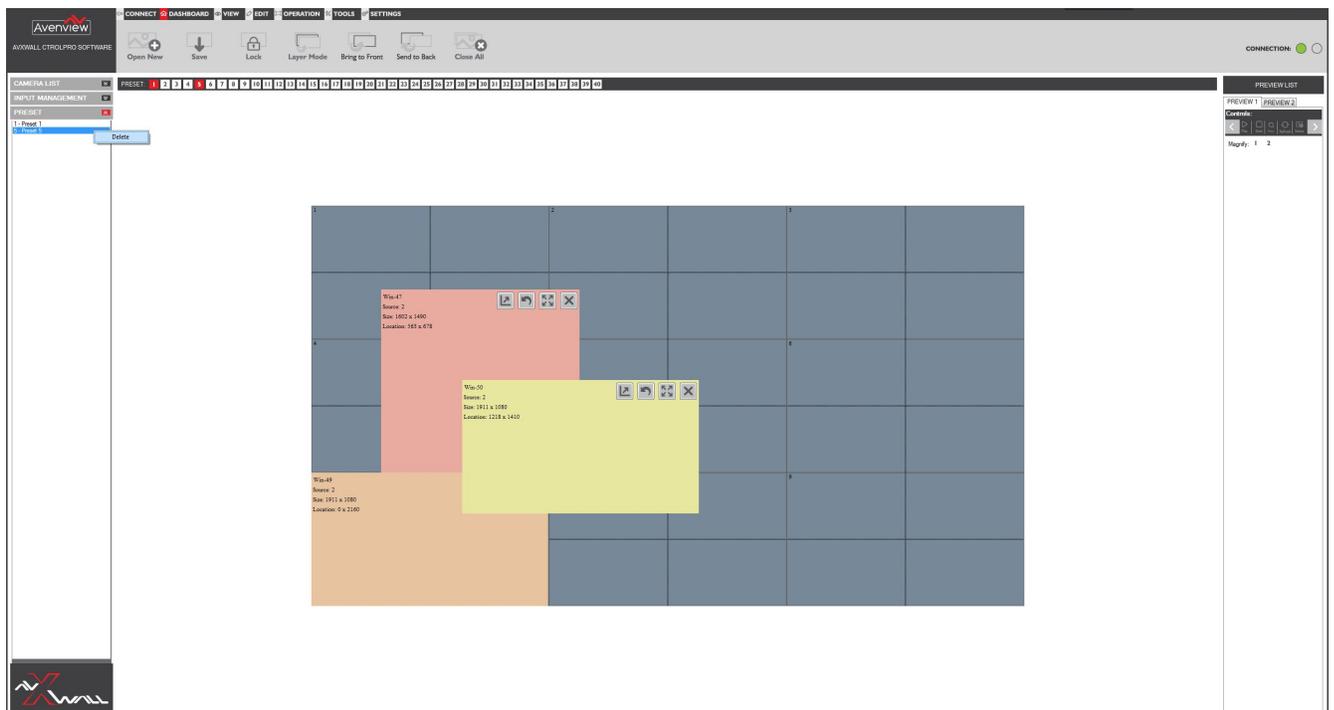
"Send to Back" moves the selected window in the video wall to back



"Close All" closes all open windows of the video wall



To delete presets: Right Click on saved presets and select delete

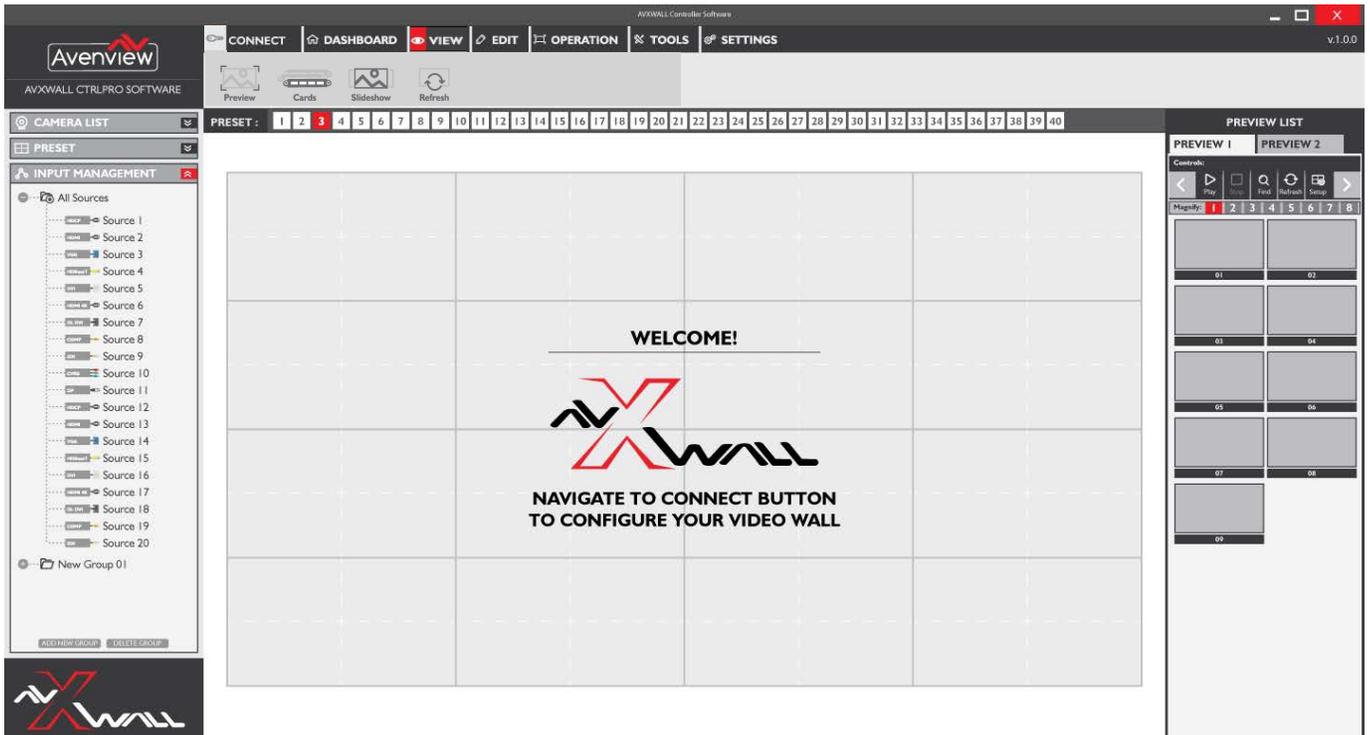


## (C) VIEW:

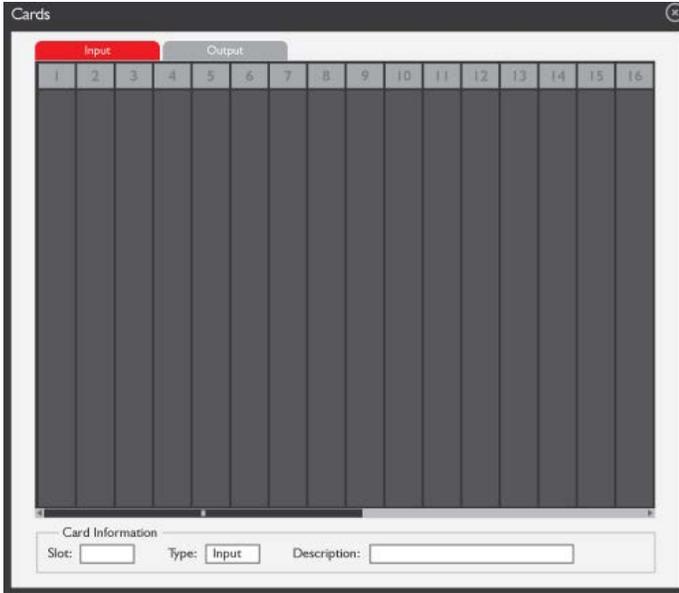
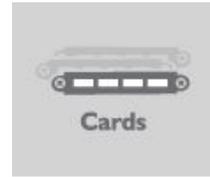


**"Preview"** Launches preview column on the right side of the software UI. User can preview the input signal by clicking the "play" button. The input signal can be previewed in a larger window by double clicking each preview window.

- Play: Plays sources in preview list
- Stop: Stops playing preview list
- Find: Searches for specific preview window
- Refresh: Refresh the preview list
- Setup: Modify the preview list resolution and IP address



"Cards" Displays input/output cards installed and slots occupied



"Slideshow" Controls auto play of preset layouts in loop with customized interval settings



"Refresh" Refreshes the displayed video wall



## (D) EDIT:



"Group" Allows arrangement of display screens in the software to match physical arrangement of displays

"Preset List" Allows editing of preset layouts

"Background" Allows adding a background image (.bmp) to the video wall to be displayed when no video signal is displayed.

## (E) OPERATION:



The HDM-AVXWALL supports up to 4 separate video wall setups to be controlled from this same software

Selecting any of "Wall 1, Wall 2, etc..." displays the preconfigured video wall configuration



## (F) TOOLS:



"**EDID**" Allows display identification to sources connected by learning modes

"**Find Camera**" Adds IP cameras and modify IP settings

"**Import**": Allows importing of previously saved file of presets and layout configurations

"**Export**" Allows exporting of presets and layout configurations into a file to be used for easy future configurations or with other connected video walls

## (G) SETTINGS:



"**License**": Displays software license and copyrights agreement

"**Users**": Controls user names and passwords

"**Firmware**": Displays device firmware information

"**Window Font**": Changes in software font size

"**Language**": Choose different languages (*more languages will be supported in future*)

"**Version**": Displays software version

"**About**": Display information about software, device and Avenview



## 6. SPECIFICATIONS

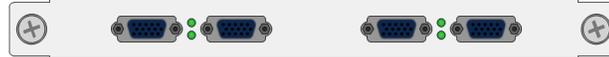
Item	Description
<b>MODEL</b>	HDM-AVXWALL
<b>UNIT DESCRIPTION</b>	Multi-Input Image Video Wall processor with 4K support
<b>VIDEO FORMAT SUPPORT</b>	CVBS,YPbPr,VGA,DVI, HDMI, SDI, DisplayPort,UTP and optical fiber
<b>LOCAL OUTPUT</b>	Yes -DM
<b>SUPPORTED RESOLUTIONS</b>	SD Up to 1080p, 4K (4096x2160@24Hz)
<b>AUDIO SUPPORT</b>	No
<b>SYSTEM CONTROL</b>	TCP/IP
<b>ESD PROTECTION</b>	- Human body model — ±15kV (air-gap discharge) & ±8kV (contact discharge) - Core chipset — ±8kV
<b>INPUT CONNECTORS</b>	See Pages 10-14
<b>OUTPUT CONNECTORS</b>	See Pages 10-14
<b>RCA CONNECTOR</b>	75Ω female
<b>DVI CONNECTOR</b>	DVI-I (212-pin female, digital only)
<b>RJ45 CONNECTOR</b>	WE/SS 8p8C with 2 LED indicators
<b>RS232 CONNECTOR</b>	DE-12 (12-pin D-sub female)
<b>DIMENSIONS (L X W X H)</b>	<b>Unit:</b> Based on Form factor
<b>DIMENSIONS (L X W X H)</b>	<b>Package:</b> Based on Form Factor
<b>POWER SUPPLY</b>	AC 100-240V
<b>POWER CONSUMPTION</b>	60 Watt (max)
<i>Environmental</i>	
<b>OPERATING TEMPERATURE</b>	32° ~ 104°F (0° to 40°C)
<b>STORAGE TEMPERATURE</b>	-4° ~ 140°F (-20° ~ 60°C)
<b>RELATIVE HUMIDITY</b>	20~120% RH (no condensation)



## 7. INPUT / OUTPUT CARDS

### 7.1 Input cards

#### 7.1.1 Input Port - VGA



Signal Format	RGBHV
Maximum Resolution	1920*1200
Color Depth	32bits/pixel
Horizontal Scanning Ration	15KHz-90KHz
Synchronization	Separate sync
Customised EDID	YES
Impedance	75Ω
Reference Level	0.7Vp-p
Physical Port	RGB: 15pins D-sub(DB15/DE-15F)

#### 7.1.2 Input Port - YPbPr



Signal Format	Component EIA-770.2-A
Maximum Resolution	1920*1080
Color Depth	32bits/pixel
Horizontal Scanning Ration	15KHz-90KHz
Synchronization	Separate sync
Customised EDID	YES
Impedance	75Ω
Reference Level	0.7Vp-p
Physical Port	RCA*3



### 7.1.3 Input Port - DVI



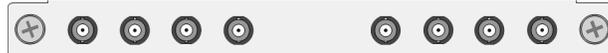
Signal Format	DVI-D digital T.M.D.S. signal in DVI 1.0
Maximum Resolution	1920*1200
Color Depth	32bits/pixel
Signal Level	T.M.D.S 2.9V-3.3V
Customised EDID	YES
Impedance	50Ω
Maximum Data Rate	4.95Gbps
Physical Port	24+5 pins/DVI-I

### 7.1.4 Input Port - CVBS



Standard	PAL/NTSC
Resolution	480i/576i
Impedance	75Ω
Reference Level	1Vp-p
Physical Port	BNC

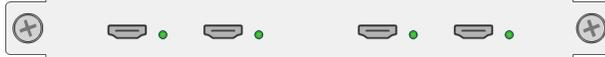
### 7.1.5 Input Port - SDI



Signal Format	HD/3G-SDI
Resolution	720p/1080p
Impedance	75Ω
Maximum Data Rate	3Gbps
Physical Port	BNC



### 7.1.6 Input Port - HDMI



Standard	HDMI 1.3
Maximum Resolution	1920*1200
HDCP	Yes
Customised EDID	YES
Maximum Data Rate	4.95Gbps
Physical Port	HDMI Type A

### 7.1.7 Input Port - Dual-link DVI



Signal Format	Dual-link DVI
Maximum Resolution	4K*4K
Impedance	50Ω
Customised EDID	YES
Maximum Data Rate	9.9Gbps
Physical Port	24+5 pins/DVI-I

### 7.1.8 Input Port - Optical Fibre



Signal Format	Single mode optical signal
Maximum Resolution	1920*1200
Front-end Device	TriF-TISD or TriF-TISG
Maximum Transmission Distance	10km
Physical Port	LC



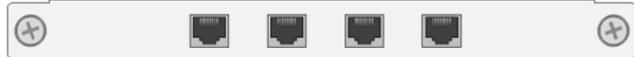
## 8.2 Output cards

### 7.2.1 Output Port - DVI/VGA



Signal Format	DVI-I in DVI 1.0 standard
Maximum Resolution	1920*1200
Color Depth	32bits/pixel
Maximum Transmission Distance	25m(DVI)
Physical Port	24+5 pins/DVI-I ( Adapter required for VGA)
Signal Level	T.M.D.S. 2.9V-3.3V
Impedance	50Ω

### 7.2.2 Output Port - Twisted Pair



Signal Format	Twisted pair differential signal
Maximum Resolution	1920*1200
Color Depth	32bit/pixel
Maximum Transmission Distance	100m
Physical Port	LC

### 7.2.3 Output Port - SDI



Signal Format	HD-SDI/3G-SDI
Resolution	720p/1080p
Impedance	75Ω
Output Backup	Yes
Physical Port	BNC



#### 7.2.4 Output Port - Optical Signal

Signal Format	Single mode optical signal
Maximum Resolution	1920*1200
Rear-end Device	FO-DP/HDM4K-300EMIX
Maximum Transmission Distance	10km
Physical Port	SC



## 8. Models and Scales

Models	Features
Video-Wall Processor I	Two windows per screen
Video-Wall Processor II	Four windows per screen

Models	Scales	Dimension (mm)	Input			Output
			DVI/VGA/HDMI/S DI/YPbPr/Optical/ Twisted-pair	Dual-link DVI	CVBS	
Video-Wall Processor I	2U	438(W)*300/316(D)*89(H)	8	4	32	8
	4U	438(W)*300/316(D)*178(H)	16	8	64	16
	8U	438(W)*300/316(D)*356(H)	32	16	128	36
	14U	438(W)*300/316(D)*623(H)	64	32	256	72
	20U	438(W)*300/316(D)*890(H)	128	N/A	512	72
	28U	438(W)*300/316(D)*1246(H)	128	36*	512	144
Video-Wall Processor II	4U	438(W)*300/316(D)*178(H)	24	4*	96	8
	8U	438(W)*300/316(D)*356(H)	52	8*	208	18
	14U	438(W)*300/316(D)*623(H)	96	16*	384	36
	22U	438(W)*300/316(D)*979(H)	128	36*	512	72
	2U	438(W)*300/316(D)*89(H)	8	4	32	4
	4U	438(W)*300/316(D)*178(H)	16	8	64	8
	8U	438(W)*300/316(D)*356(H)	32	16	128	18

\* means dual-link dvi input cards are only effective in specified input slots



## 9. GENERAL TROUBLESHOOTING

PROBLEM	POSSIBLE SOLUTION
<b>Cannot install software</b>	<ul style="list-style-type: none"> <li>• Missing VC++ runtime library</li> <li>• For 32 bits system, please install vcredist_x86.exe</li> <li>• For 64 bits system, please install vcredist_x64.exe</li> </ul>
<b>No Image</b>	<ul style="list-style-type: none"> <li>• Please check the input signal</li> <li>• Make sure the each output and input port connected to the corresponding device.</li> <li>• Use high quality video cables</li> <li>• Check output cable for any damage or exceed transmission distance</li> </ul>
<b>Color cast on image</b>	<ul style="list-style-type: none"> <li>• Check if cable is connected properly.</li> <li>• Check if cable is damaged.</li> <li>• Check software color adjustment.</li> <li>• Check display color adjustment.</li> <li>• Check port screws if tightened.</li> <li>• Use premium quality video cables</li> <li>• Adjust the color balance of the display.</li> <li>• Re-adjust the color tune by controlling software</li> </ul>
<b>Shaking or noise on image</b>	<ul style="list-style-type: none"> <li>• Check cable length, long cable causes serious signal attenuation signal</li> <li>• Check source if unstable or damaged cables connected</li> </ul>
<b>Dark edge on the display</b>	<ul style="list-style-type: none"> <li>• Check if video signal has been cropped by the display</li> <li>• Check if Inappropriate adjustment of the video is made on the controlling software</li> <li>• Reset settings to Default using control software, then re-adjust to desired configurations.</li> </ul>



## Notice

- 1. If the DVI or HDMI device requires the EDID information, please use EDID Reader/Writer to retrieve and provide DVI/HDMI EDID information.*
- 2. All HDMI over CAT5 transmission distances are measured using Belden 1583A CAT5e 125MHz LAN cable and ASTRODESIGN Video Signal Generator VG-85 12C.3*
- 3. The transmission length is largely affected by the type of LAN cables, the type of HDMI sources, and the type of HDMI display. The testing result shows solid LAN cables (usually in bulk cable 300m or 1000ft form) can transmit a lot longer signals than stranded LAN cables (usually in patch cord form). Shielded STP cables are better suit than unshielded UTP cables. A solid UTP CAT5e cable shows longer transmission length than stranded STP CAT6 cable. For long extension users, solid LAN cables are your only choice.*
- 4. EIA/TIA-568-B termination (T568B) for LAN cables is recommended for better performance.*
- 5. To reduce the interference among the unshielded twisted pairs of wires in LAN cable, you can use shielded LAN cables to improve EMI problems, which is worsen in long transmission.*
- 6. Because the quality of the LAN cables has the major effects in how long transmission distance will be made and how good is the received display, the actual transmission length is subject to your LAN cables. For resolution greater than 1080i or 1280x1024, a CAT6 cable is recommended.*
- 7. If your HDMI display has multiple HDMI inputs, it is found that the first HDMI input [HDMI input # 1] generally can produce better transmission performance among all HDMI inputs.*



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