Avenview

AV Connectivity, Distribution And Beyond...

VIDEO WALLS VIDEO PROCESSORS
VIDEO MATRIX SWITCHES
EXTENDERS SPLITTERS WIRELESS
CABLES & ACCESSORIES

4 Display Videowall Processor with Audio Support and Rotation

dvi | HDMI | AUDIO | IR | WUXGA 1920x1200 | HDMI HDCP | HD ready 1080p | RoHS Compliant | FC CE

Model #: DVI-PROWALL-4X

Product Application & Market Sectors


Corporate


House Of Worship


Military


Residential


Education


Industrial


Medical


Aviation

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SECTION 1: GETTING STARTED

1.1 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.

1.2 SAFETY INSTRUCTIONS

The **DVI-PROWALL-4X** Display Videowall Processor has been tested for conformance to safety regulations and requirements, and has been certified for international use. However, like all electronic equipments, the DVI-PROWALL-4X 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.

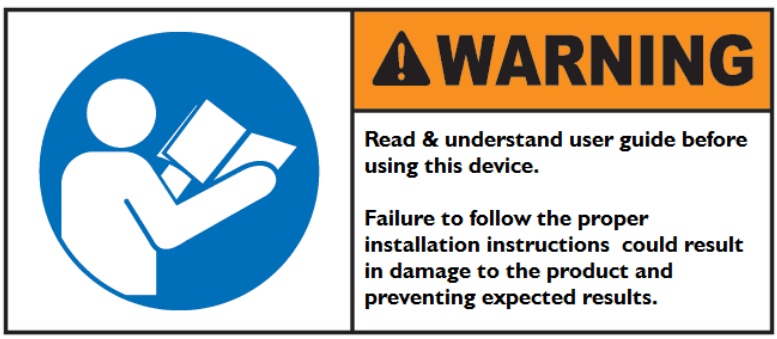
⚠ Have the module checked by a qualified service engineer before using it again.

⚠ 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
	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.
	DO NOT TAMPER WITH THE UNIT. DOING SO WILL VOID THE WARRANTY AND CONTINUED USE OF THE PRODUCT.
	THE VIDEO BOARDS ARE VERY SENSITIVE TO STATIC. PLEASE ENSURE IF RACK MOUNTED OR INSTALLED ON A SURFACE, IT SHOULD BE IN A GROUNDED ENVIRONMENT.



2. INTRODUCTION

The **DVI-PROWALL-4X aka (DVI-VIDEOWALL-4HD)** 4-Display Video Wall Processor was designed to perform the dedicated function of a one input to 4 displays in differnt layouts. Enhanced with real time data/video Thru digital transmission processing chips for displaying content on your flat panel displays or projectors.

Bundled with its own control software the user can simply configure different layouts for any solution such as 1x1, 1x3, 1x4, 2x2 and mosiac. The **DVI-PROWALL-4X** can accept both DVI/HDMI source inputs/outputs, made with the embedded scaler that converts signals from either DVI/HDMI source to match the native resolution of monitors, flat panel displays, projectors connected to the 4 outputs connectors. Each output resolution can be selected fpr each display, also settings up to PC resolutions WUXGA (1920x1200).

The **DVI-PROWALL-4X** sends the input source video thru DVI/HDMI interface to the connected monitors/ projectors based on the display layout and configured in the software. Recommended applications include retail digital signage, commercial applications and broadcasting/education/ surveillance systems etc.

FEATURES

- Four DVI/HDMI outputs from 640x480 to 1920x1080, 1920x1200;
- Supports HDMI/DVI input, from 640x480 to 1920x1080@60,1920x1200@60, interlaced or progressive;
- Supports video resolution up to Full HD1080p;
-Supports PC resolution up to WUXGA;
- HDCP compliant;
- Several image parameters and layouts can be saved in computers and can be loaded for later use
- Firmware upgradable for new features and technology enhancements;
- Supports IR remote control;
- Supports input rotation;
- Software control through USB and Ethernet;
- Resize, position, zoom output video;
- User-selectable output settings, up to 1920x1080,1920x1200;
- Each DVI/HDMI output has an independent controllable display area;
- Supports remote control to switch 1x1, 2x2, 1x3 rotate, and 1x4 rotate mode;
- Each output can support OSD control for edge correction;
- Compact size;

2.1 PACKAGE CONTENTS

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

1	1x DVI-PROWALL-4X (DVI-VIDEOWALL-4HD)	
3	Installation Software	
4	IR REMOTE	
5	1x Power Adapter (12V 5A)	
6	Power Cord	
7	1 x Right and Left Ear Rack Sets	
8	User's 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 and supplied with the unit. If improper power supply is used the unit may malfunction and cause a fire.
- Do not twist or pull by force ends of the video cable. It can cause malfunction.

2.2 CABLE SPECIFICATIONS

HDMI™
HIGH DEFINITION MULTIMEDIA INTERFACE

To achieve best results with our DVI-PROWALL-4X we highly recommend a premium quality 26 or 24 AWG HDMI cable with the below specifications to maintain signal integrity and distances.

FEATURES:

- Length: 5m (16ft) to 15m (50ft)
- Bandwidth: 10.2 Gbps data transfer rate
- Supports Resolution: Up to 3840x2160 @ 24Hz and 4096x2160 @ 24Hz, 1080p @ 24Hz / 50/60Hz/3D
- Conductor gauge: 26 / 24 AWG
- Deep Color
- 3D Capable
- CEC
- Ethernet Channel
- Audio Return Channel
- Connector 1: HDMI (Type A) Male
- Connector 2: HDMI (Type A) Male

3. INSTALLATION (DVI-PROWALL-4X)

1. Connect your source device such as digital signage player to DVI/HDMI Inputs on the DVI-PROWALL-4X.
2. Connect all 4 displays/screens to DVI/HDMI Outputs on the DVI-PROWALL-4X.
3. Connect the +12V 5A DC power supply to the DVI-PROWALL-4X.

GENERAL INSTRUCTIONS

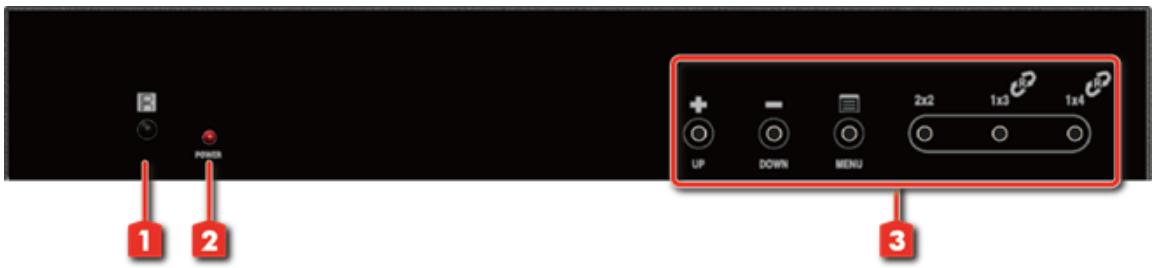
1. Before you begin the software installation from the CD provided or latest CS from the website, please ensure the DVI-PROWALL-4X is connected to AC power and your PC via USB or connected to the same network as the DVI-PROWALL-4X
2. PC Requirements-Windows® XP/Windows Vista®/Windows® 7
3. Ensure your Laptop or desktop is plugged in to AC power during the update process. It is not recommended to use only battery power during the installation. Do not remove power at any time during the process as this could lead to incomplete results. **See Section 5 Operation Method B Software control for more info.**

LAYOUT 2- MIXED VIDEOWALL
(Portrait and Landscape mixed screens)

3.1 APPLICATION DIAGRAM

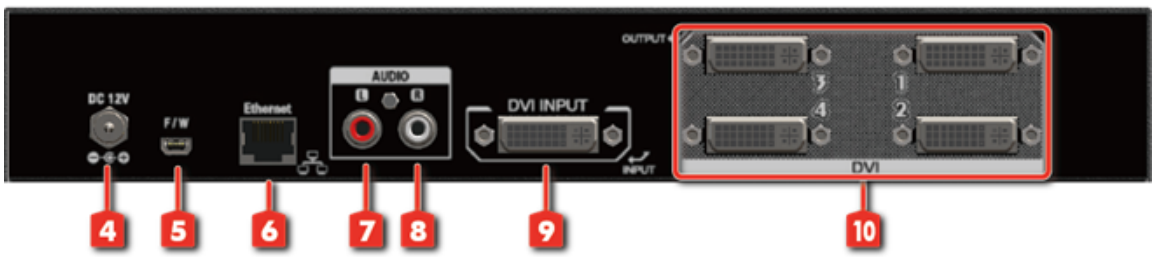
3.2. PANEL DESCRIPTION

3.2.1 FRONT PANEL (DVI-PROWALL-4X)



1. 1. **IR SENSOR:** IR sensor for receiving the IR commands from IR remote	2. 2. **POWER STATUS:** Power indicator LED
3. **CONTROL BUTTONS:** Menu/Up/ Down/Switch Keys	

3.2.2 REAR PANEL (DVI-PROWALL-4X)

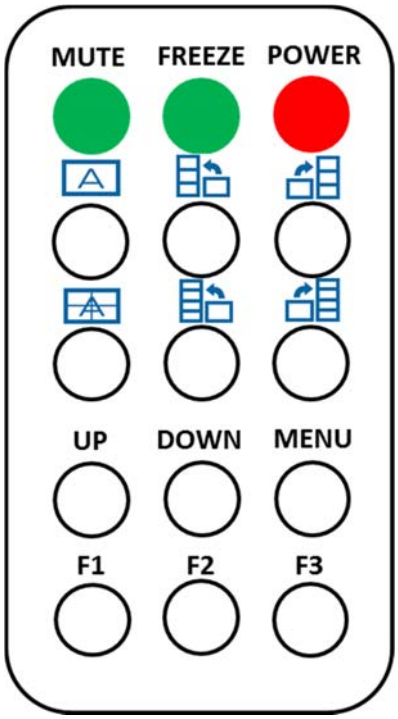


4. **POWER JACK:** 12V DC Power Jack supplied with unit .	5. **USB Virtual COM:** Connect via PC for direct connect with packaged software.
6. **ETHERNET:** Ethernet Control Port for controlling the unit functions and layoust via PC with packaged Control software.	7. **Stereo audio output –L:** Analog audio out to Speakers or RCVR
8. **Stereo audio output -R:** Analog audio out to Speakers or RCVR	9. **INPUT:** DVI/HDMI Input connector for connecting source device (Digital Signage player)
10. **OUTPUT 1-4:** DVI/HDMI Output connector for connecting 4 display/screens or projector.	

4. SUPPORTED RESOLUTION

Input	Output
640x480	640x480@60H
720x480	720x480@60Hz
720x576	720x576@60Hz
800x600	800x600@60Hz
1024x768	1024x768@60Hz
1152x864	1280x720@60Hz
1280x720	1280x768@60Hz
1280x768	1280x960@60Hz
1280x800	1280x1024@60Hz
1280x960	1366x768@60Hz
1280x1024	1440x900@60Hz
1360x768	1680x1050@60Hz
1366x768	1920x1080@60Hz
1400x1050	1920x1200@60Hz
1440x240	1600x1200@60Hz
1440x288(576i)	
1440x900	
1600x900	
1600x1200	
1680x1050	
1920x540(1080i)	
1920x1080	
1920x1200	

Method A: IR Remote Control



Button	Function
POWER	Power On/Off the video wall processor
FREEZE	Pause the output's video and audio
MUTE	Mute the output audio
	Fast switch to Full Screen 1x1
	Fast switch to VW3x1 (+90°)
	Fast switch to VW3x1 (-90°)
	Fast switch to VW2x2
	Fast switch to VW4x1 (+90°)
	Fast switch to VW4x1 (-90°)
UP	Up key
DOWN	Down key
MENU	Call OSD menu and confirm
F1	Reserved
F2	Reserved
F3	Reserved

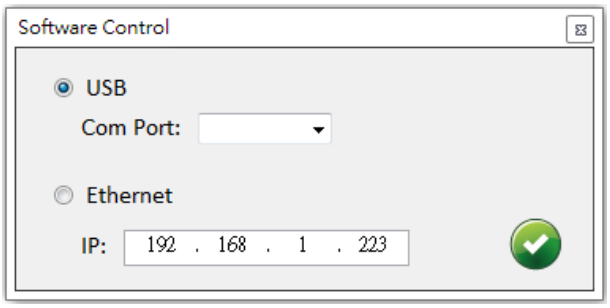
Method B: Software Operation

System Requirement and Precautions

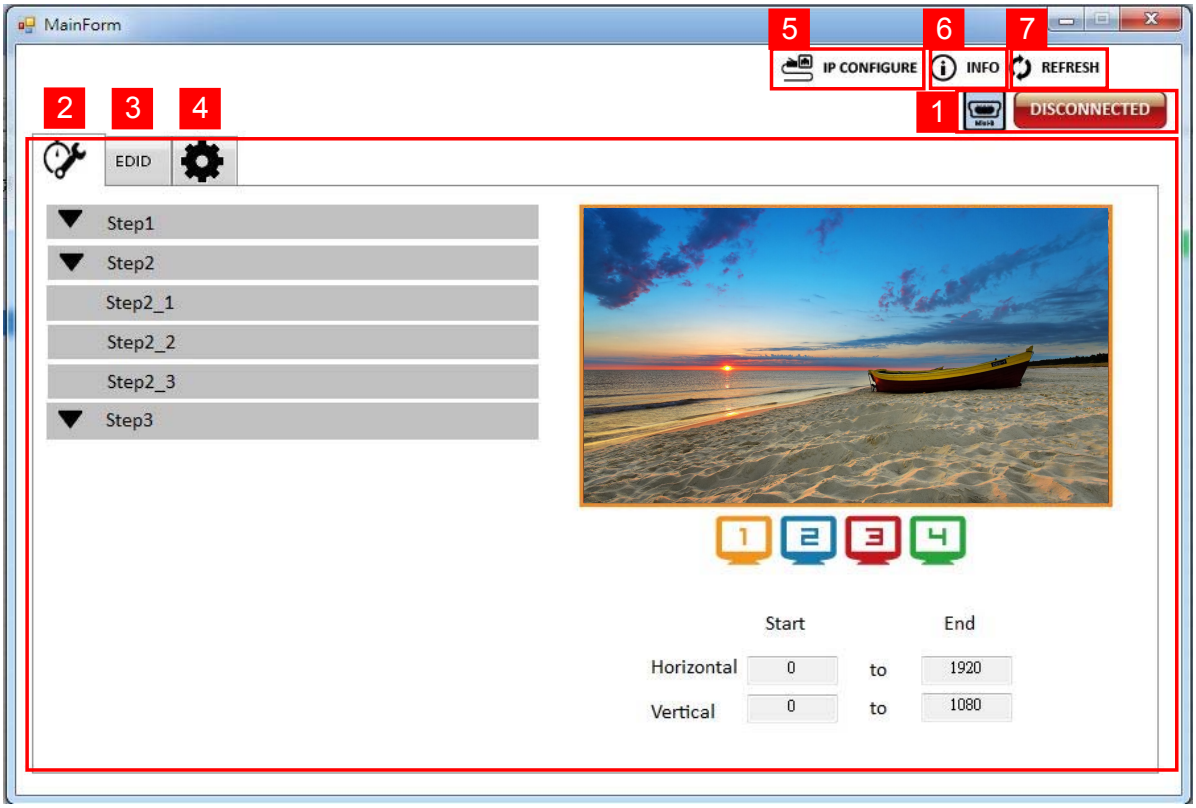
1. When power cycling or powering off the unit, please wait at least 5 to 10 seconds delay to allow power capacitors to discharge. Then power on device
2. The DVI-PROWALL-4X packaged software control program is compatible with Microsoft Windows 98, 2000, XP, 7 through the interface of USB virtual com control.
3. Before double clicking on the icon of the software, make sure you have secured the connection between your computer USB port and the DVI-PROWALL-4X.

Start the software control program

STEP 1: Click on the executable file, the following dialog box show on screen;
STEP 2: Please ensure under Microsoft Windows 7, run as administrator;
STEP 3: Please ensure your method of control either -
USB Mode: Use USB to connect the port on device and computer. Select correct virtual Com port and click the OK button.
Ethernet Mode: Enter the device IP address and click the OK button.



After the software control setting is accomplished, it will enter directly to control interface.



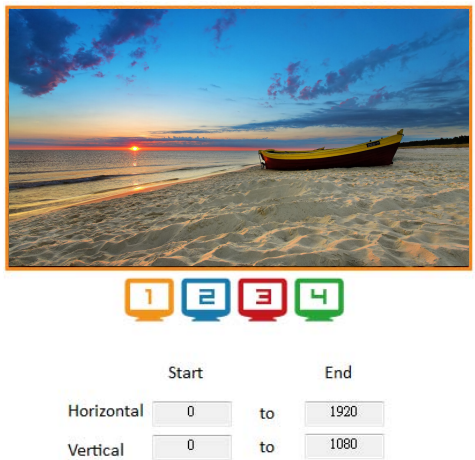
Control Interface

1. Connection Status:

   Show the current information and status. USB control Mode selected icon will show 

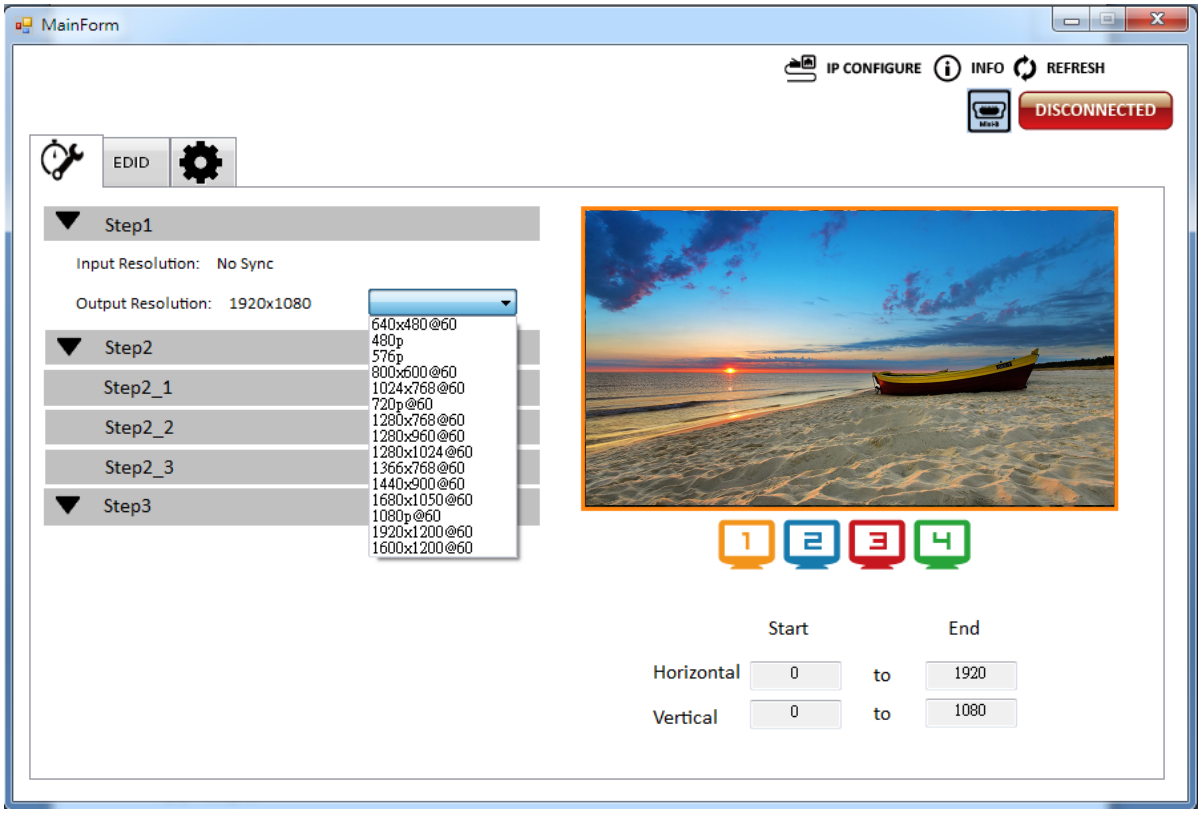
   Ethernet control Mode selected icon will show 

2. Quick Selection:
   The user can select the screen resolution, screen management and split screen. Step1 select the Main window picture and proceed to set up the corresponding function or layout. The different colored frames represents the different displays/screen outputs. The H/V information shows the position of output on display/screens.



(1) Step 1

Set the output resolution. You can choose the design display icon to select the output port and setup resolution. When setting the different resolution, the H/V numbers will change to match the selection.



(2) Step 2

Three modes available - set the output TV resolution, position, size and split screen. The details of different mode are described in step 2-1, 2-2 and 2-3.

* Notice Changing another mode, you need to revert to step 2 to make the desired selection

- ❒ **Quick Selection**
- ❒ **From file**
- ❒ **Custom define**

(3) Step 2-1

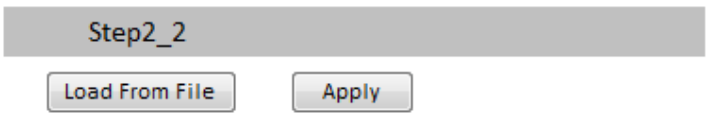
Quick Selection mode in step 2, this window will automatically pop-up. In this mode, you can select default screen split and rotate screen (rotate screen only supports of 720p or 1080p resolution).

- ❒ 3x1: This mode will divide the screen into 3 parts and rotate the image. The last section shows the full screen.
- ❒ 4x1: The mode will divide the screen into 4 parts and rotate the image.

When the 3x1 or 4x1 mode is selected , the picture in the right part of control interface will show a white circle. You can slide this white circle to resize the output screen. In addition, directly input the number to adjust the coordinate.

(4) Step 2-2

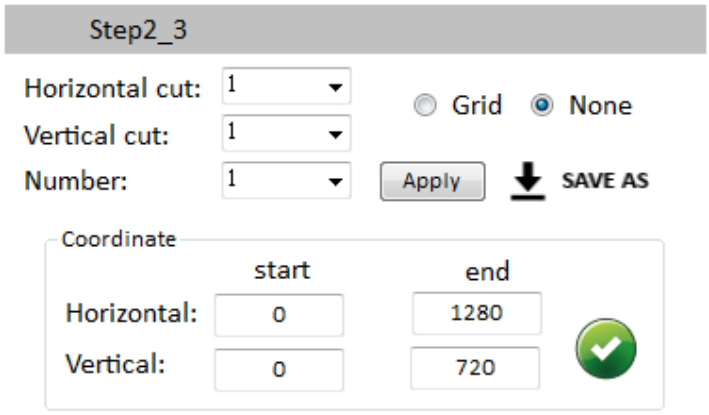
You can load and read configuration from the existing file.



(5) Step 2-3

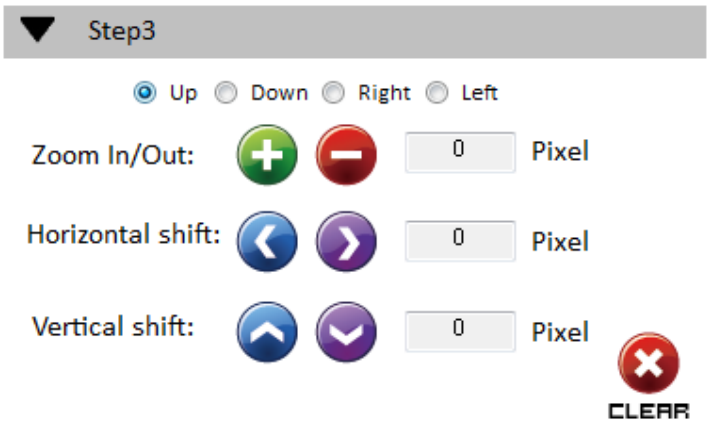
Custom define mode the user can define how to divide the image in both directions, also the part you want to show on output display/screens. To acurately create sections select the Grid button to show grid lines. When completed and the layout is created , click Apply button.

Also another option is the SAVE AS button to save the configuration for future use.



(6) Step 3

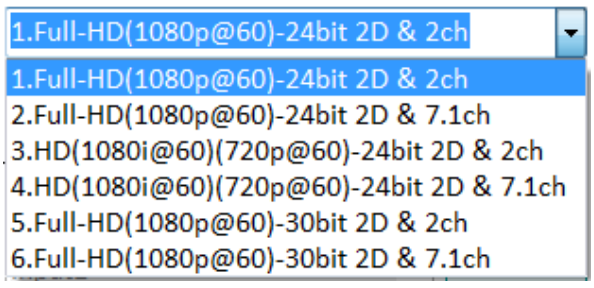
- **Zoom In/Out:** You can increase/decrease a pixel from the edge of image by clicking button (the edge of image has four directions). After adjusting the image, the final image will be auto-scaled to fill the screen.
- Horizontal shift/ Vertical shift: You can arbitrarily move the image on each screen in horizontal direction or vertical direction. Move one pixel at a time.

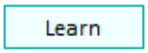


3. EDID (Extended Display Identification Data)

(1) Learn EDID From Default

- Select Default EDID (1-6 default EDID).



- Click  button to learn default EDID.

(2) Learn EDID From Display

❒ Select the Output.

❒ Click Learn button to learn display EDID.

(3) Learn EDID From File

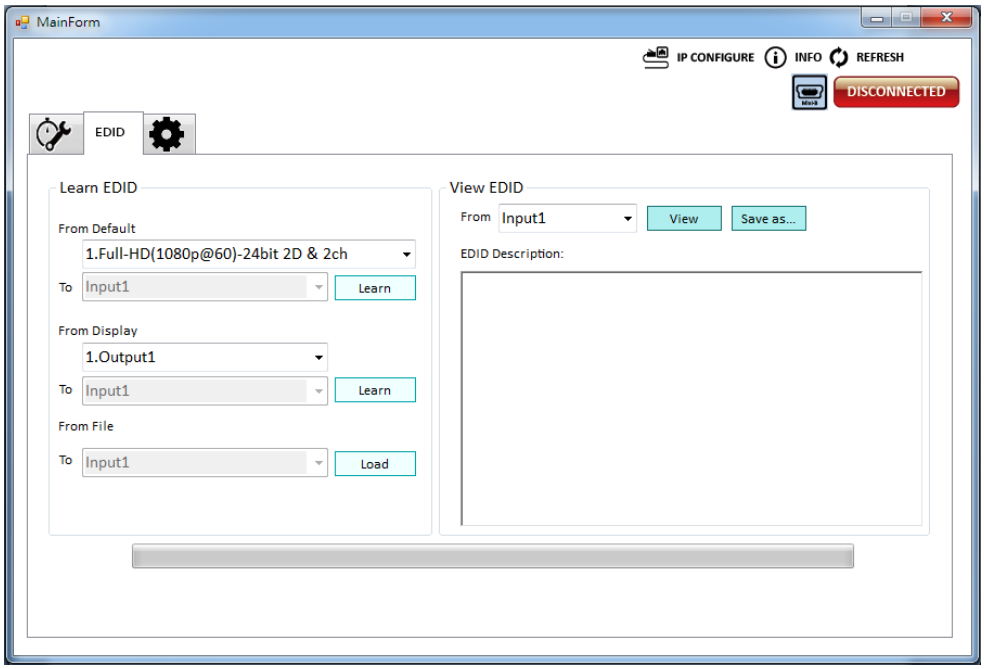
❒ Click Load button to select the EDID file and write it into input.

(4) View EDID content

❒ Select the EDID input source (Input, Output or From File).

❒ Click View button to read the EDID description and analysis.

❒ Click Save as... button to save the EDID as a file in the connected computer.



4. Advanced Setting

(1) Firmware Update

❒ Please ensure USB is connected and the connecting status is shown CONNECTED

❒ Click Load File button to select the firmware file with the latest version update.

❒ Click Break button.

❒ Recycle power.

❒ Click Start button and the firmware will start to update.

(2) Machine Name

You can set up your machine name in here. Please take a closer look at the length of string (Max Length:

(3) Change Graph

You can change the default graph on this machine.

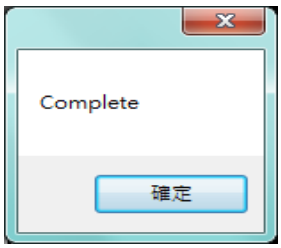
- Click Load Graph button to select the graph.
- After loading the graph step, please click  button to write this graph into device.

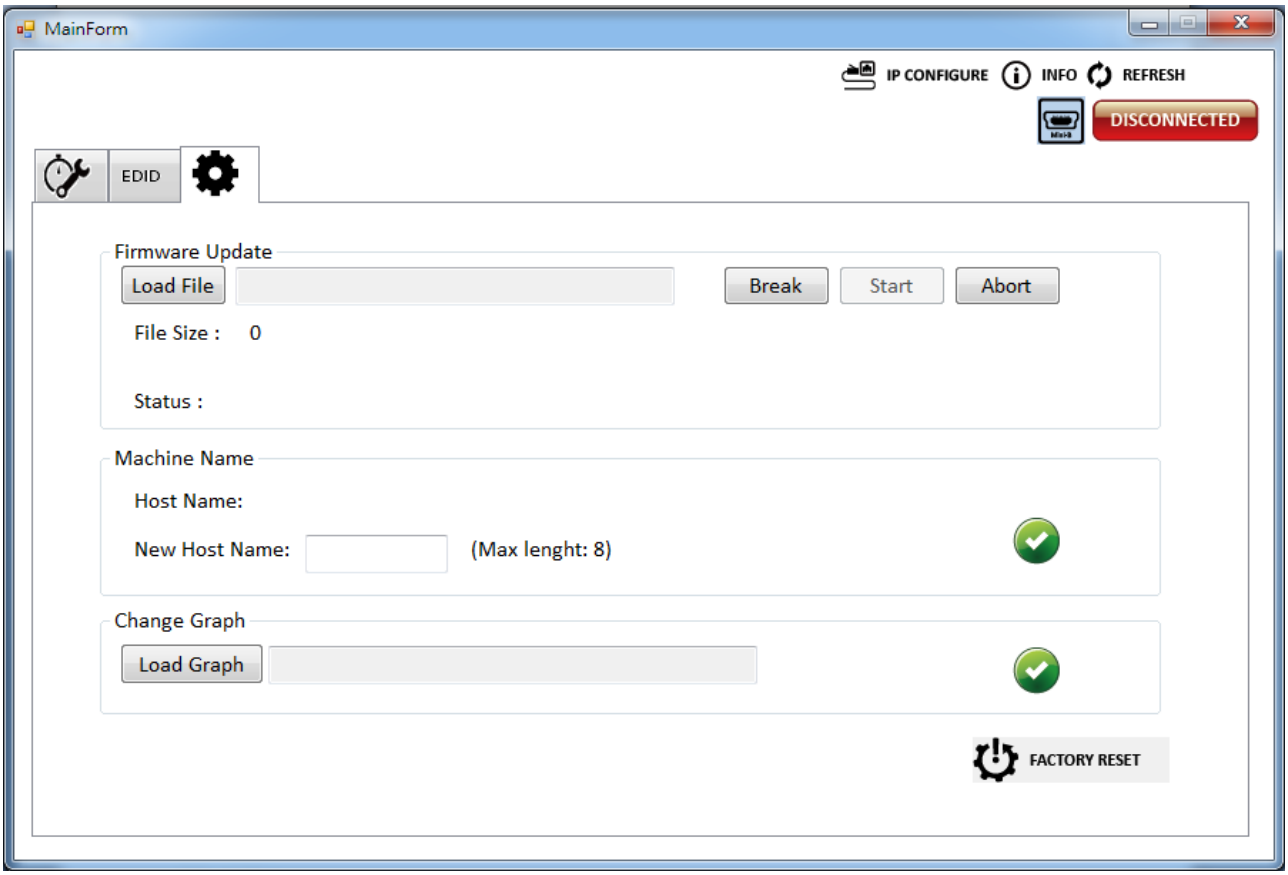
(4) Factory Reset

- Click FACTORY RESET button to do factory default reset.
- This default reset process will take about 10 seconds.

- After pop-up a dialog indicates complete, please restart this machine.

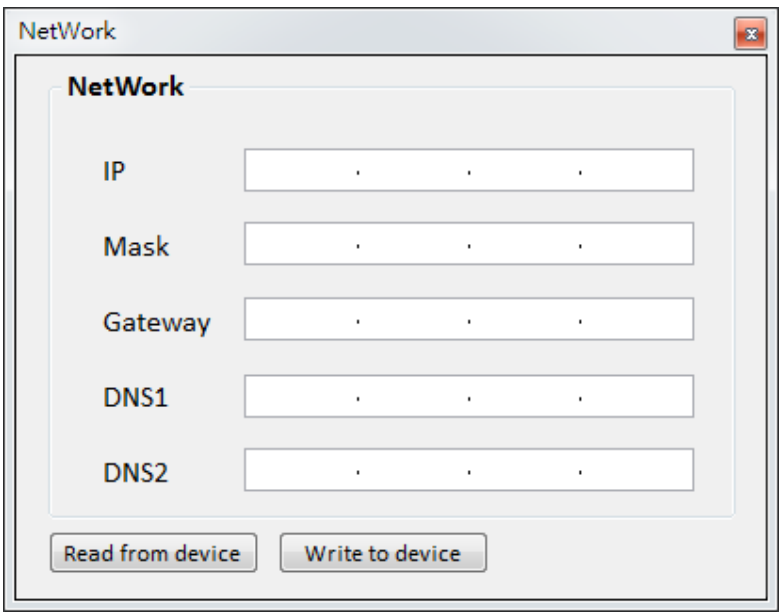
When power cycling or powering off the unit, please wait at least 5 to 10 seconds delay to allow power capacitors to discharge. Then power on device





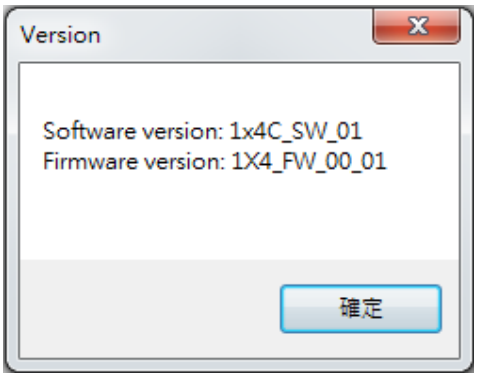
5. IP Configure

Ethernet control within an esiting network (LAN) easily access the control software program. Click the IP CONFIGURE button to setup network IP settings. Next read the Ethernet setting from device or manually set to device. After the IP configuration setup is completed, please restart the machine.



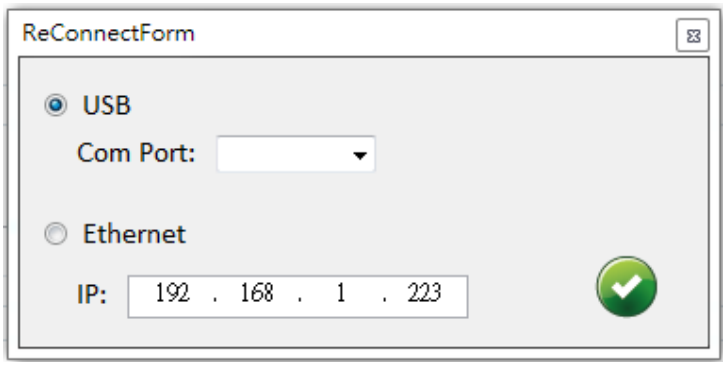
6. Info

Read the software and firmware version.



7. Refresh

This function not only can refresh the information settings but also can reconnect the device. Click the REFRESH button to update the control method. After you click this button, pop-up dialog box appears "ReConnectForm", please select the method of connection you prefer.



6. EDID LEARNING

The EDID learning function is only necessary whenever the user/installer encounter problems with video/ audio from the DVI/HDMI output port. HDMI sources and displays may have various levels of capability in playing audio and displaying video. The source will output the most common standard audio format and video resolutions to the connected HDMI displays. Example a 720p stereo HDMI signal output is the best choice when having audio or video problems. The user can force the DVI-PROWALL-4X to learn the EDID from the standard or common HDMI display within the set of 4 to ensure all displays are compatible to display the HDMI signals normally.

EDID Learning as below:

Software Control: Please refer to the **Operation Approach\ Method B: Software Control**

There are **six embedded default EDIDs** formats in this device, please see below,

1. Full-HD(1080p@60)-24bit 2D & 2ch
2. Full-HD(1080p@60)-24bit 2D & 7.1ch
3. HD(1080i@60)(720p@60)-24bit 2D & 2ch
4. HD(1080i@60)(720p@60)-24bit 2D & 7.1ch
5. Full-HD(1080p@60)-30bit 2D & 2ch
6. Full-HD(1080p@60)-30bit 2D & 7.1ch

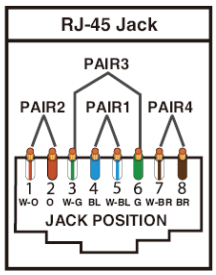
SECTION 7: SPECIFICATIONS

Model Name		DVI-PROWALL-4X
Technical		
Role of usage		Video Wall Processor
HDCP compliance		Yes
Video bandwidth		DVI [Single-link 4.95Gbps] HDMI[2.25G to 6.75Gbps]
Video support		Up to 1920x1200@60 / 1600x1200@60
Video Format Support		HDMI/DVI
Video loop-out		No
Audio support		Yes only when using HDMI source device
ESD protection		Human body model — ±19kV [air-gap discharge] & ±12kV [contact discharge]
PCB stack-up		8-layer board [impedance control — differential 100Ω; single 50Ω]
Input		1x DVI-D + 1x USB + 1xRJ45
Output		4x DVI-D + 1x L/R RCA Stereo
Control		IR remote control / Ethernet / USB (virtual com) / Front Panel
Input TMDS signal		1.2 Volts [peak-to-peak]
DVI connector		DVI-D [29-pin female, digital only]
USB connector		Type A
RJ-45 connector		WE/SS 8P8C
Enclosure		Metal case
Dimensions (L x W x H)	Model	8 x 180 x 42mm [11.3" x 7" x 1.7"]
	Package	494 x 225 x 70mm [1'6" x 8.9" x 2.8"]
	Carton	510 x 380 x 252mm [1'7" x 1'2" x 10"]
Weight	Model	1 50g [3.2lbs]
	Package	2.6kg [5.733lbs]
Fixedness		1U rack-mount with ears and Wall hanging holes
Power supply		12V 5A DC
Power Consumption		7.6W
Operation temperature		0~40°C [32~104°F]
Storage temperature		-20~60°C [-4~140°F]
Relative humidity		20~90% RH [no condensation]

NOTE: Incorrect placement of IR Blaster and IR Extender into the extender may result in the failure of the IR extenders.
Please check carefully before plugging in the IR extender to the respective IR sockets. It is clearly marked and IR 1: IR EXTENDER /IR 2: IR BLASTER

WARRANTY WILL NOT COVER THE DAMAGE

Data Link TIA/EIA-568-B		
PIN	Color	Function
1	W-O	TX0-
2	O	TX0+
3	W-G	TX1-
4	BL	TX2-
5	W-BL	TX2+
6	G	TX1+
7	W-BR	TXC-
8	BR	TXC+



NOTE

The QUALITY and TRANSMISSION of the video signals depends on the characteristics and quality of the UTP cables. Higher resolutions and longer transmission distances require low skew cables (<25ns/upto 300m) for best performance.
Unshielded CAT6 with metal RJ-45 connectors is recommended.

NOTICE

1. *All HDMI over UTP transmission distances are measured using Belden CAT6A (625MHz), 4-Pair, U/UTP-Unshielded, Riser-CMR, Premise Horizontal Cable, 23 AWG Solid Bare Copper Conductors, Polyolefin Insulation, Patented Double-H spline, Ripcord, PVC Jacket using Quantum 980 signal HDMI Video Generator Module Video Pattern Testing.*
2. *The transmission length is largely affected by the type of category cables, also the type of HDMI sources, and the type of HDMI display. The testing result shows solid UTP cables (usually in the form of 300m or 1000ft bulk cable) can transmit a lot longer signals than stranded UTP cables (usually in the form of patch cords). Shielded STP connectors are better suit than unshielded UTP connectors. A solid UTP CAT5e cable shows longer transmission length than stranded STP CAT6 cable. For long extension users, solid cables are your only choice.*
3. *EIA/TIA-568-B termination (T568B) for category cables is recommended for better performance.*
4. *To reduce the interference among the unshielded twisted pairs of wires in category cable, you can use shielded STP cables with shielded connector to improve EMI problems, which occurs in long transmission.*
5. *Because the quality of the category 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 category cables. For resolution greater than 1080i or 1280x1024, a solid CAT6 cable is the only viable choice.*

PERFORMANCE GUIDE FOR HDMI OVER CATEGORY CABLE TRANSMISSION

PERFORMANCE RATING		TYPE OF CATEGORY CABLE		
WIRING	**SHIELDING**	**CAT5e**	**CAT6**	**CAT6A/7**
SOLID	UNSHIELDED (UTP)	★★★★	★★★★★	★★★★★
	SHIELDED (STP)	★★★	★★★★	★★★★
STRANDED	UNSHIELDED (UTP)	★	★★	★★
	SHIELDED (STP)	★★	★	★★
TERMINATION		PLEASE USE **EIA/TIA-568-B** TERMINATION (**T568B**) AT ANY TIME		

Avenview Warranty Certificate

AVENVIEW CORP. ("Avenview") warrants Avenview-branded product(s) contained in the original packaging against defects in materials and workmanship when used normally in accordance with Avenview's enclosed manual guidelines for a period of THREE (3) YEARS from the date of original retail purchase - Warranty Period. Avenview's published guidelines include but are not limited to information contained in technical specifications, user manuals and service communications.

LABOR: During the Warranty Period of THREE (3) YEARS, Avenview will repair or replace the product(s) at no cost using new or used parts equivalent to novel performance and reliability if the product(s) is determined to have abide by Avenview's published guidelines. Cost of Labor applicable to product(s) after Warranty Period. For labor costs, please contact support@avenview.com.

PARTS: During the Warranty Period of of THREE (3) YEARS, Avenview will supply new or rebuilt replacements in exchange for defective parts of the product(s) at no cost if the product(s) is determined to have abide by Avenview's published guidelines. Cost of Parts applicable to product(s) after Warranty Period. For part(s) costs, please contact support@avenview.com.

To obtain Warranty: (a) proof of purchase in the form of a bill of sale or receipted invoice reflecting that the registered product(s) is within warranty period must be presented to obtain warranty service; (b) product(s) must be registered at time of purchase. Failure to do so will result in applicable parts and labor charges. Returning product(s) must be shipped in Avenview's original packaging or in packaging pertaining equal degree of protection to Avenview's. Both Avenview and purchaser are responsible for freight charges and brokerages when shipping the product(s) to the receiver.

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