

And Beyond....

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

KVM Quad Screen Video MultiviewerWith IR, Keyboard and Mouse Control



Model #: DVI-SPLITPRO-4X













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Technical Support

IF PURCHASED IN





USA OR INTERNATIONAL

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 $EMAIL\,SUPPORT: support@avenview.com$

USA Head Office Avenview Corp. 275 Woodward Avenue Kenmore, NY 14217



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 Avenview DVI-SPLITPRO-4K Advanced Quad Screen Video Processor has been tested for conformance to safety regulations and requirements, and has been certified for international use. However, like all electronic equipment's, the DVI-SPLITPRO-4K 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.

1.4 Introduction

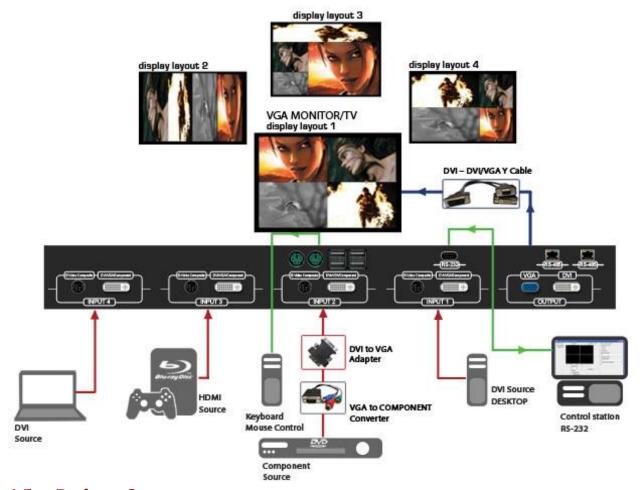
Avenview **DVI-SPLITPRO-4K KVM Quad Screen Multiviewer with IR, Keyboard and Mouse** is an advanced video processor for most multimedia presentations. This unit is an ideal solution for applications where four video signals must be displayed on a single display. It supports up to 16 types of video inputs, of which four can be outputted simultaneously with the desired display layout through software control. The advanced video processor allows you to manipulate the output images to various sizes and multiple positions on the desired display. This unit can controlled with the ease of the front panel buttons, IR remote and RS232 via a cable or control system, this functionality allow the user to easily set the desired outputs by 5 preset layouts or 8 custom layouts saved by the user.

Avenview DVI-SPLITPRO-4K is also equipped with a Master PS/2 Keyboard and Mouse Control. With this feature, users can switch Keyboard and Mouse Control among 2 to 4 PC sources and control the individual PC with the interactive USB connectors with software available for download.

The embedded scalar converts signals from input sources to match the native resolution of monitors, flat panel displays, projectors as well as user-selectable output settings up to WUXGA (1920x1200). Dual outputs are provided in both analog (VGA) and digital (DVI) format, one is connected to remote display and the other is connected to on-site display for real time monitoring.

- Support Six most popular video formats: four VGA, four DVI/HDMI, four component, four S-Video and four composite inputs
- Input resolution support from 640x480 to 1920x1200, interlaced or progressive.
- DVI & HDMI
- Support HDCP
- Dual outputs (DVI / VGA), 640x480 to 1920x1200.
- 4 Port Keyboard / Mouse Control with PS/2 Input and USB Outputs
- Video background available.
- Adjustable size & position through software.
- Dynamic transition for video sizing and positioning
- Titles, borders and colored backgrounds.
- Resize, position, zoom & pan and blend output video.
- Image parameters and layouts are automatically saved in flash memory and can be recalled for later use.
- Several Image parameters and layouts can be saved in computers and can be loaded for later use.
- Video parameters adjustable (brightness, contrast, color temperature, etc.).
- User-selectable output settings, up to 1920x1200.
- Use as a Video Splitter, a Video Converter and a Video Switcher.
- Firmware upgradable for support of new features and technology enhancements.
- Control through RS-232/RS-485 over Cat-5 and IR Remote Control
- Can be cascaded to obtain more images using RS-485 control path
- Control protocol available for customer proprietary design
- 1RU Size





1.5 Package Contents

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

-	DVI-SPLITPRO-4K	x 1
-	DVI – DVI & VGA breakout Cable	x 4
-	VGA to Component breakout Cable	x 4
-	DVI to VGA Adapter	x 4
-	Rack Mounting Kit	x 1
-	RS232 to USB Adapter	x 1
-	IR Remote Control	x 1
-	Software CD	x 1
-	AC Power Supply	x 1
	User's Manual	x 1



1.6 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 optical cable. It can cause malfunction.
- Avenview DVI-SPLITPRO-4K has 16 inputs and accepts both graphics and video signals, which come
 from computers (DVI or VGA), composite, and component video sources respectively. You can pick up
 four of the ten inputs and then display four of them simultaneously on the same screen.

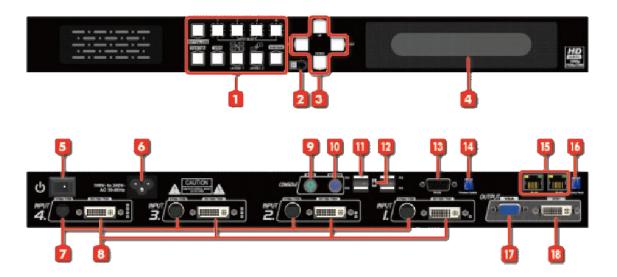
Connectors		Video Source	
		DVI	
		HDMI	
		(DVI to HDMI Cable or Adapter)*NOT SUPPLIED*	
	DVI Commonant VCA	VGA	
Input	DVI, Component, VGA,	(DVI to VGA Adapter)	
•	Composite, S-Video	Component (YPbPr)	
		(DVI to VGA Adapter and VGA to Component Adapter)	
		Composite	
		S-Video	
		Display	
		1 x DVI Display	
Output		VGA Display	
Output	DVI-I OUT	(DVI to VGA Adapter)	
		1 x DVI Display & 1 x VGA Display	
		(through DVI to DVI/VGA Y Cable)	
Keyboard / Mouse	W 1 1 W 1/0	2 x PS/2 Compatible Keyboard and Mouse	
Connector	Keyboard Mouse I/O	4 x USB Output connected up to 4 PC	



1.7 Panel Description

Avenview Advanced Quad Screen Video Processor (DVI-SPLITPRO-4K) has 16 inputs and accepts both graphics and video signals, which come from computers (DVI or VGA), composite, and component video sources respectively. You can pick up four of the ten inputs and then display four of them simultaneously on the same screen.

1.7.1 DVI-SPLITPRO-4K Front and Rear Panel



No#	Description	No #	Description
1	CONTROL PANEL	2	IR SENSOR
3	CONTROL BUTTONS (UP, DOWN, LEFT, RIGHT)	4	INFORMATION DISPLAY
5	POWER SWITCH	6	POWER SUPPLY 100-240V
7	S-VIDEO/CPOMPOSITE INPUT	8	DVI/HDMI/VGA/COMPONENT INPUT
9	PS/2 MOUSE	10	PS/2 KEYBOARD
11	USB (PC 1-4 CONTROL)	12	USB to PC SWITCH
13	SERIAL CONTROL (RS232)	14	MODE SETTING
15	RS484 (CASCADE)	16	MODE SETTING
17	VGA OUTPUT	18	DVI/HDMI OUTPUT

To reset the DVI-SPLITPRO-4K to factory default settings: Turn on the DVI-SPLITPRO-4K then switch both DIP Switches simultaneously up and down to reset the unit to factory default settings





1.8 Installation

To setup Avenview DVI-SPLITPRO-4K follow these steps for connecting to a device:

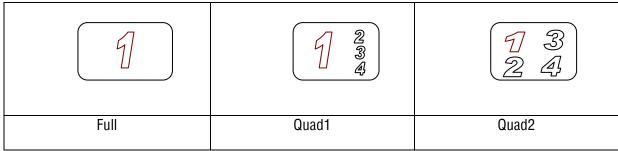
- 1. Mount or fix the DVI-SPLITPRO-4K safely
- 2. Switch off DVI-SPLITPRO-4K and all source devices and displays that will be connected
- 3. Connect a monitor, projector, other displays that come with DVI / VGA inputs by using 1 male male DVI cable to DVI-SPLITPRO-4K DVI output. (you can connect 2 displays equipped with DVI and VGA respectively by DVI DVI/VGA Y cable
- 4. Plug-in DVI to DVI/VGA breakout cable to DVI-Component-VGA and plug in VGA to Component adapter to VGA connector of the breakout cable
- 5. Connect a device equipped with DVI output (such as PC) to the DVI connector of the breakout cable
- 6. Connect a device equipped with the component video output to 3-RCA jack of the Component video adapter
- 7. Connect a device with VGA output (such as laptop) to VGA connector of DVI-SPLITPRO-4K
- 8. Connected a device with Composite or S-Video video output to composite input of DVI-SPLITPRO-4K through S-Video / Composite Y cable.
- 9. Connect the USB Cable(s) between DVI-SPLITPRO-4K and computer(s)
- 10. Connect your computer to DVI-SPLITPRO-4K via RS232 to USB Adapter cable and then install the software
- 11. Turn ON DVI-SPLITPRO-4K
- 12. Run the Control Software and establish the connection between PC and DVI-SPLITPRO-4K
- 13. Turn ON all connected devices and then control the display output thru RS232 and included software

1.8.1 Installation to Control 1-4 PC's via USB

- 1. Follow instructions 1-11 before attempting to control PC control
- 2. Connect one set of PS/2 compatible Keyboard and Mouse if any control to computer(s) is necessary
- 3. Connect the USB Cable(s) between DVI-SPLITPRO-4K and computer(s) located on the rear panel
- 4. Download software PS2 to USB Driver from downloads section.



1.8.2 Default display modes for KVM hot key control



^{*} Red Icon implies the main display area.

Key Combination ¹	Function Description
Ctrl + Alt + Shift + 1	Keyboard & mouse control granted to computer #1
Ctrl + Alt + Shift + 2	Keyboard & mouse control granted to computer #2
Ctrl + Alt + Shift + 3	Keyboard & mouse control granted to computer #3
Ctrl + Alt + Shift + 4	Keyboard & mouse control granted to computer #4
Ctrl + Alt + Shift + 5	Switch Video #1 to the main display area
Ctrl + Alt + Shift + 6	Switch Video #2 to the main display area
Ctrl + Alt + Shift + 7	Switch Video #3 to the main display area
Ctrl + Alt + Shift + 8	Switch Video #4 to the main display area
Ctrl + Alt + Shift + 0	Mode switching between Full, Quad1, Quad2, Quad3 ⁴

1.9 Software Installation and Setup

- 1. Hotkey definitions are based on IBM PS/2 compatible keyboard and the Ctrl, Alt, and Shift keys are on the LEFT side of the keyboard.
- 2. Switching video source to the main display area will bring MX-1004K back to one of the video default layouts as shown above.
- 3. While the control software is adjusting the video layout, the keyboard and mouse control will be off.
- 4. User can define Quad3 through the software

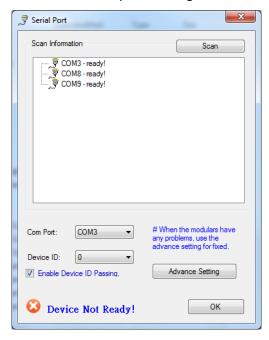
1.9.1 System Requirements

- 1. The DVI-SPLITPRO-4K provides a software control program which runs under Microsoft Windows 98, 2000, XP, Vista, 7 through the interface of RS-232 serial control.
- 2. Before you click on the icon of the software, make sure you have secured the connection between your computer COM port and the DVI-SPLITPRO-4K.
- 3. Install driver for RS232 to USB adapter
- 4. Once DVI-SPLITPRO-4K is turned on, it display green LED light
- 5. Ensure that correct driver for RS232-USB Adapter (included with DVI-SPLITPRO-4X/K) are installed. You can check "Device Manger" under "Ports" page to check if drivers are installed correctly

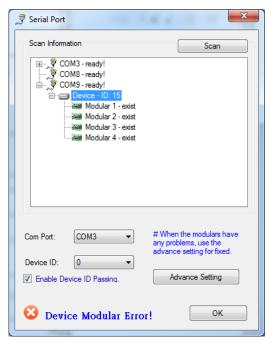


1.9.2 Software Connection

- 1. Power up the DVI-SPLITPRO-4K and you can see VFD on the front panel blink. .
- 2. Launch Avenview Control Software. It will open following "Serial Port" setting page.

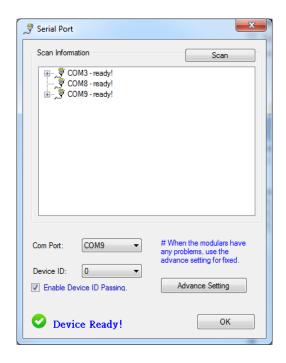


3. Click on Scan button and it will automatically detect Avenview Video Processor and display the following screen:

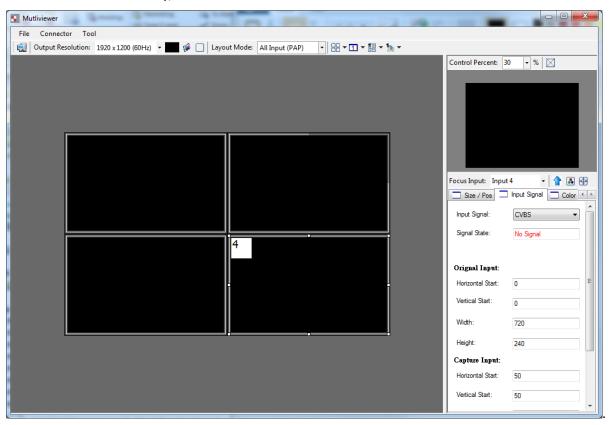


4. Note the "Device – ID" and Select Correct "Com Port" and Device ID" from bottom of screen. Once Correct "Com Port" and "Device ID" is selected, it will change "Device Modular Error" to "Device Ready" as shown below:





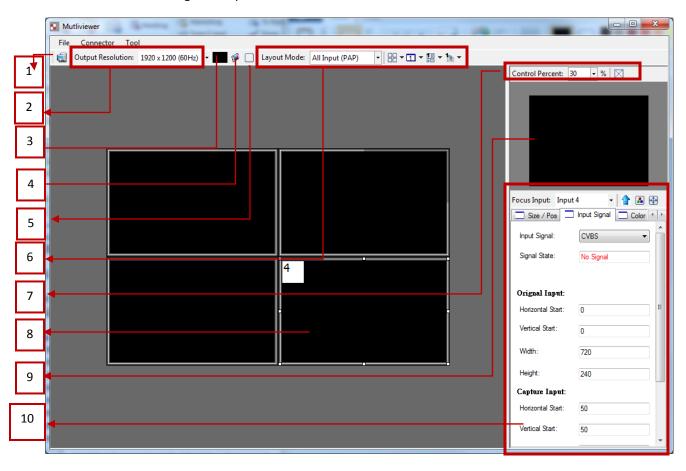
5. Once Device is Ready, click "OK" and Avenview Control Software will launch





1.9.3 Software Operation

The software has following menu options available:



Fast Linkage

This button will update software GUI for device state

Output Resolution

Supported Mode	Resolution	Supported Mode	Resolution
HDTV 720p	1280x720 @ 60Hz	VESA	1280x768 @ 60Hz
HDTV 1080p	1920x1080 @ 60Hz	VESA	1366x768 @ 60Hz
VESA	800x600 @ 60Hz	VESA	1400x1050 @ 60Hz
VESA	1024x768 @ 60Hz	VESA	1600x1200 @ 60Hz
VESA	1280x1024 @ 60Hz	VESA	1920x1200 @ 60Hz

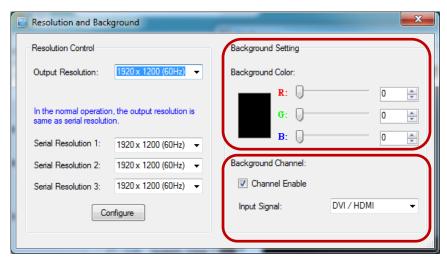
Background Color 3

Clicking on this button will show the color dialog for background color adjustment.



Background Setting

DVI-SPLITPRO-4K offers the video background to make this advanced unit actually working like 5 channel video mixer! The default background video must work as full screen! Users can choose between color and video background through the following control window. Click on this button will show the dialog for output resolution, background color and background channel setting.

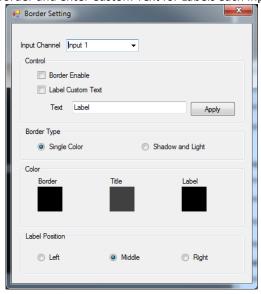


We recommend not changing Serial Resolutions

Only INPUT 4 can be used as "Background Channel"

5 Border Settings

Allows you to enable Border and enter Custom Text for Labels each Input Source.

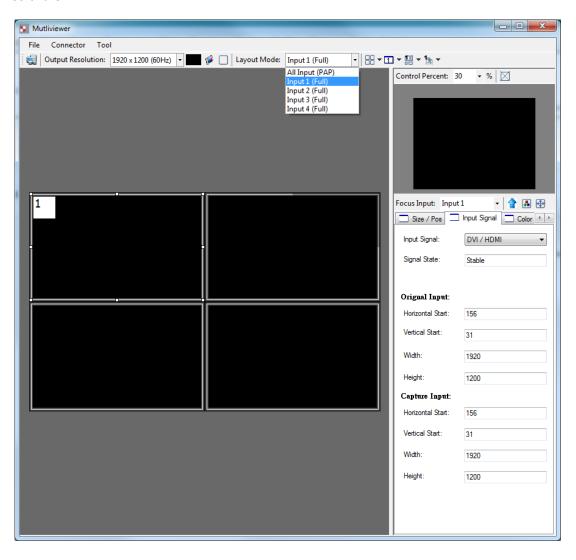


Display / Layout Mode



6

Set signal channel full screen or all channel Notice that the input sources will not be changed in Software.

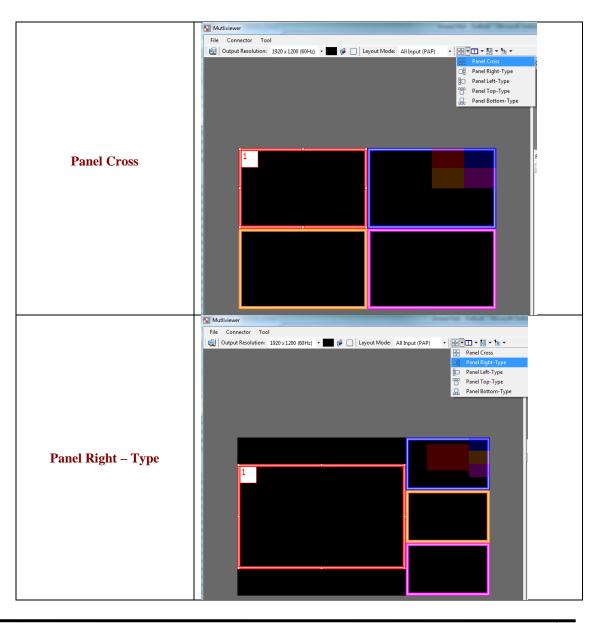




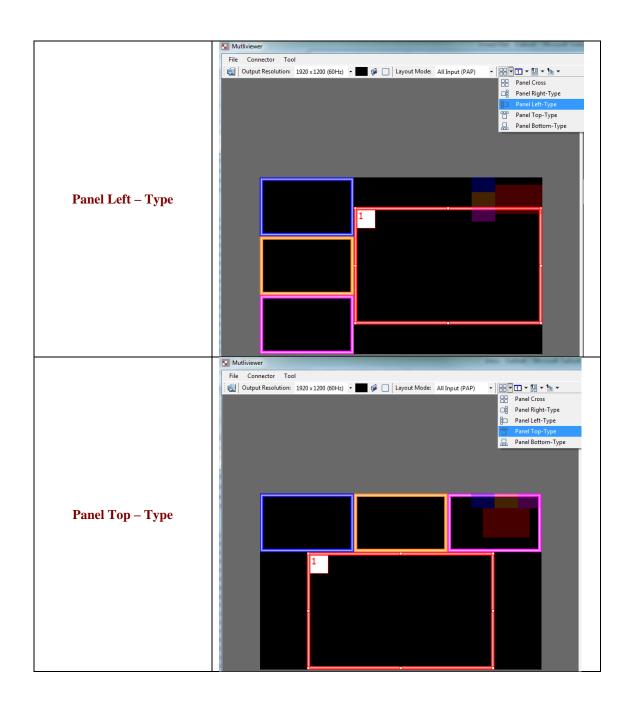
Default Layouts

There are 5 pre-configured layouts available from Control Software, IR Remote Control or Front Panel Buttons.

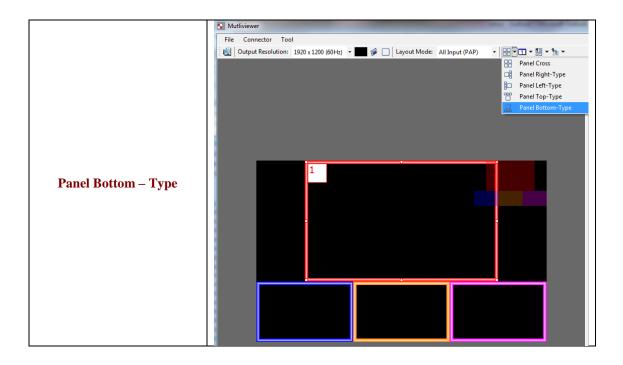
- Panel Cross
- Panel Right Type
- Panel Left Type
- Panel Top Type
- Panel Bottom Type











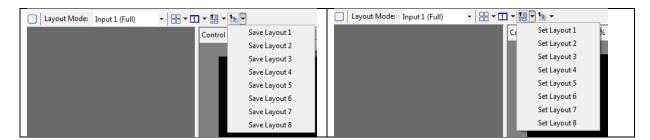
Input Singal which is selected at "Focus Input" will be displayed as Main Video Sources.

Focus Input

Select which Input Source should stay in focus when "Layouts" are selected

Save and Set Custom Layouts

Save up to 8 Custom Layouts and Set them using Control Software, Front Panel or IR Remote Control.

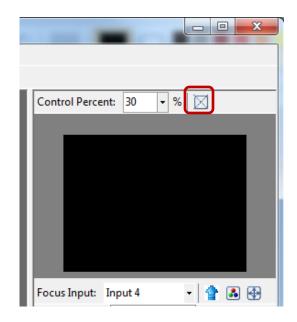




7

Layout Control Size

Set layout control size in Software by percent.



If you enable Fixed Stretch, Aspect Ratios are kept with each Input layout is changed.

8

Layout Control

Create different Layouts by Drag and Drop. You can use "Fixed Aspect Ratio" as described above to retain Aspect Ratio of source image.



Preview Window

Shows preview Window of Layouts



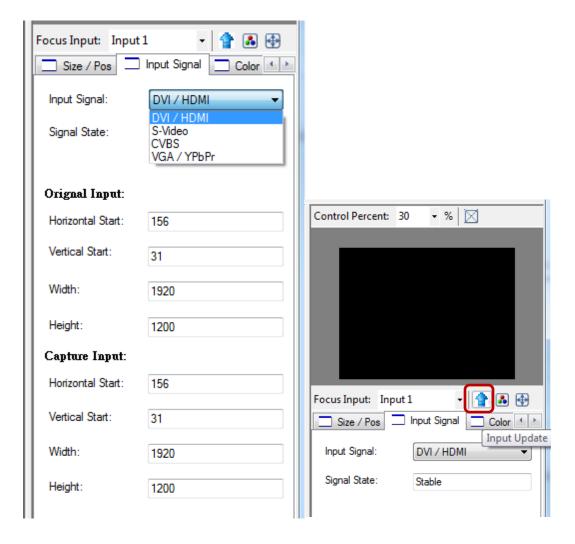
Input Channel Selection and Customization

In this section you can Select Input Channel, Input Signal, Channel Window Visible, Blend Settings, Custom Height, Custom Width, Color Brightness, Contrast, Saturation, Hue, Red, Green, Blue, Color Balance and Auto Configuration.



Input Selection:

- Select "Focus Input" from drop down menu or by Clicking on Main Layout Window.
- Click on "Input Signal".
- Select Correct "Input Signal" from drop down menu.
- Once right Input Signal is selected, click on UP ARROW (Input Update) beside Focus Input to update it on system memory.





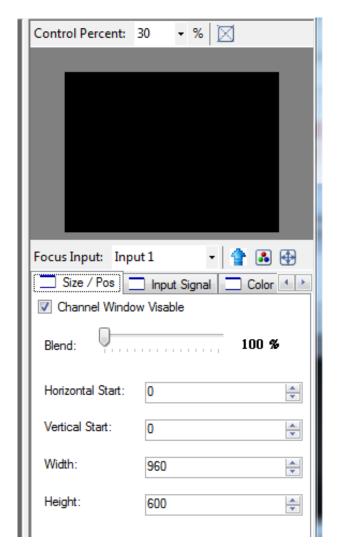
Size and Position:

Select on "Size / Pos"

Channel Windows Visible: You may uncheck "Channel Window Visible" if you decide to not show this Windows on screen

Blend: Change the value of Blending from 100% to 0%. This will allow you to overlay an Input Source on other.

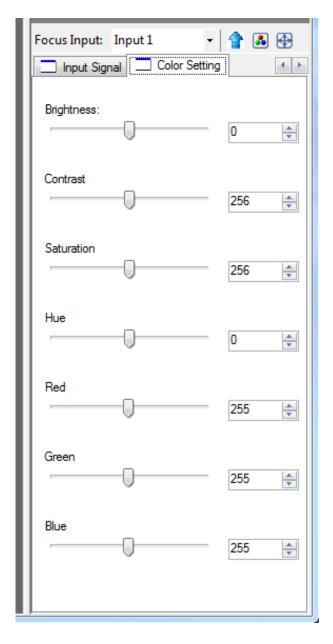
Custom Height and Width: If you have specific requirement for Input Layout, you may adjust them here.





Color Setting:

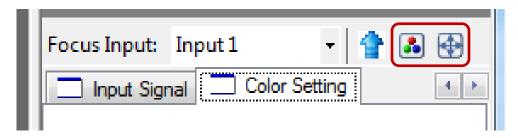
Various options to change Brightness, Contrast, Saturation, Hue, Red, Green and Blue are available on each "Input Source"





Color Balance and Auto Configure:

You may adjust Color Balance and Auto Configure them by selecting these options



1.9.4 Software Configuration

Follow these steps to select right Output Resolution and Input Signal

- Once RS232 communication is setup properly, you should select Optimal "OUTPUT Resolution" supported by your Display (TV or Monitor)
- Select correct "Input Signal" for each Input.
 - o After Selecting right Input Signal, ensure to Click on "Input Update"
- Repeat above steps for each Input you have connected
- Select Layout Mode
- Select "Default Layouts" or create your own by dragging dropping



Section 2: Cascade Installation

2.1 The Control Serial

The Device ID number will show on the VFD, like below picture.



The "Device ID" number can adjust by button menu. Please push the "Down, Up, Left, Right" button, enter Menu \rightarrow "(05/05) System Setting" Menu \rightarrow "(03/03) Device ID" Menu.



Push the "Right" button. When the "Up" and "Down" arrow are display, you can adjust number by "Up" and "Down" button.





2.2 Converter Serial

(1) C5-RS232-S (Transmitter)

Model N	Name	C5-RS232-S	
Role of usage		Transmitter [TX]	
Transmissio	n length	Up to 1,000m (1,100yd) [CAT5e]	
Baud r	ate	Up to 57.6kbps in cascade mode	
Inpu	t	1x RS-232	
Outp	ut	1x RJ-45	
RS-232 cor	nector	DE-9 [9-pin D-sub female]	
RJ-45 con	nector	WE/SS 8P8C with 2 LED indicators	
DIP swi	itch	6-pinD & audio mode	
Mechai	nical	C5-RS232-S	
Housi	ng	Metal case	
	Model	ТВА	
Dimensions [L x W x H]	Package	270 x 175 x 80mm [10.6" x 6.9" x 3.1"]	
[= 2 2 2 2 2 2 2 2	Carton	450 x 370 x 300mm [1'6" x 1'3" x 11.8"]	
Weight	Model	ТВА	
weight	Package	ТВА	
Fixedn	ess	Wall-mounting case upon request	
Power su	upply	5V 2A DC	
Power cons	umption	1 Watt [max]	
Operation te	mperature	0~40°C [32~104°F]	
Storage tem	nperature	-20~60°C [-4~140°F]	
Relative humidity		20~90% RH [no condensation]	
Package Contents		1x C5-RS232-S 2x 5V power adapter 1x User Manual	

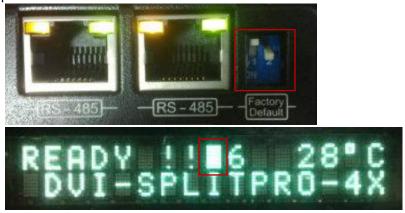
*Please make sure the DIP switch is in the "ON" Mode



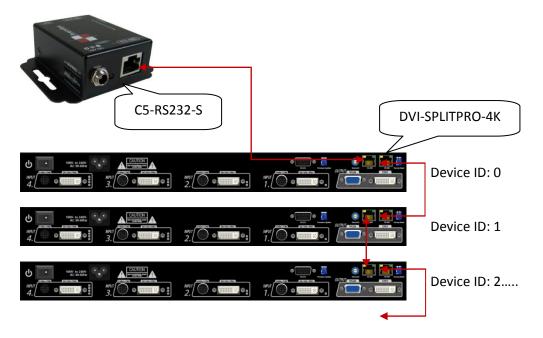




(2) Set DVI-SPLITPRO-4K to RS485 Mode by "DIP Switch". Please check the VFD will display "Square" Icon.



*Using C5-RS232-S to control all the cascaded DVI-SPLITPRO-4K





DVI-SPLITPRO-4X

LAYOUT 2 Using an RS232 to Cat5 converter to control display layout 3 cascaded DVI-Splitpro-4X display layout 4 display layout 2 **CABLE INDEX** Output 5 6 2 Input / Source VGA MONITOR/TV display layout 1 RS-232 2 1 DVI - DVI/VGA Y Cable 6 8 BACK FRONT 0 C5-R\$232-\$ RS232 Transmitter over CAT5, Cascading Module for DVI-SPILTPRO-4X DVI-SPLITPRO-4X (1) DVI-SPLITPRO-4X (2) DVI to VGA Adapter **DVI Source** HDMI DESKTOP VGA to COMPONENT Control station

Converter

Component Source

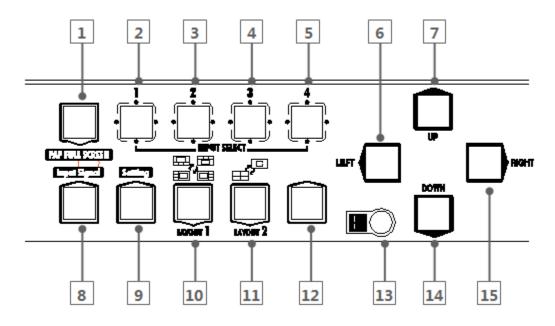


Source

RS-232

Section 3: Front Panel Controls

3.1 Front Panel Push Buttons Description



1	PAP Full Screen	11	Function key: Layout 2
2 3 4 5	Input Select	12	N/A
8	Function key: Input Signal	13	Infrared Sensor
9	Function key: Setting	6 7 14 15	Navigation
10	Function key: Layout 1		

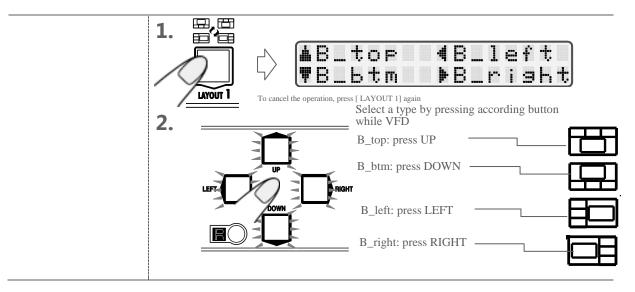


3.2 Front Panel Push Buttons Functions

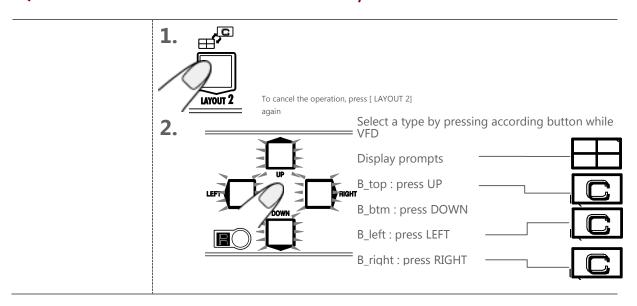
3.2.1 Selecting PIP Window Arrangement

Main Window with 3 triple sub-windows aside

You may choose one of the following layouts from 4 presets:

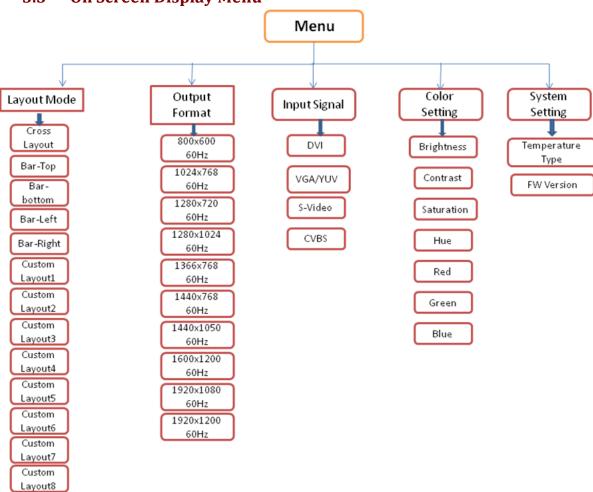


Quad Windows in crisscross + 3 user-defined custom Layout





3.3 On Screen Display Menu





3.4 IR Remote Control

Avenview DVI-SPLITPRO-4K, Advanced Quad Screen Processor ships with a compact IR Remote Control that allows for direct access to most commands used to control the video processor.

	IR Remote Button Define	
1. Power Button	Set the output video into Sleep Mode(No Video)	
2. Cross-Layout	Set PAP layout to default layout (cross type)	
3. Side-Bar Layout	Set PAP layout to default layout (Side-Bar type)	
4. IN 2 (Input	First Press Set channel 2 to be focus channel	
Channel 2)	Second Press enables Channel 2 Full Screen	
5. Right Button	Enables Menu Options and Also Select Button in	
	Menu Options	
6. IN 4 (Input	Set channel 4 to be focus channel	
Channel 4)	Second Press enables Channel 4 Full Screen	
7. Up Button	Move Up in Menu settings	Avenview .
8. PAP Full Screen	Move to the left titles	Φ Φ
9. Down Button	Move Down in Menu settings	10 7 4 1
10. IN 1 (Input	Set channel 1 to be focus channel	
Channel 1)	Second Press enables Channel 1 Full Screen	IN 3 IN 4 Sidebar Layout
11. Left Button	Previous in Menu settings	12 9 6 3
12. IN 3 (Input	Set channel 3 to be focus channel	CUSTOM LAYOUT
Channel 3)	Second Press enables Channel 3 Full Screen	19 ¹ 17 ² 15 ³ 13 ⁴
13. Custom Layout4	Set PAP layout to custom position and size	
14. Custom Layout8	Set PAP layout to custom position and size	20° 18° 16′ 14°
15. Custom Layout3	Set PAP layout to custom position and size	SOURCE CH.
16. Custom Layout7	Set PAP layout to custom position and size	24 23 22 21
17. Custom Layout2	Set PAP layout to custom position and size	28 A 27 B 26 C 25 D
18. Custom Layout6	Set PAP layout to custom position and size	20 27 20 25
19. Custom Layout1	Set PAP layout to custom position and size	
20. Custom Layout5 21. CH4 Source	Set PAP layout to custom position and size	
21. UN4 SOUFCE	Toggle between channel 4 input source DVI/HDMI, VGA/Y-Pb-Pr, S-VIDEO, CVBS	
22. CH3 Source	Toggle between channel 3 input source	
	DVI/HDMI, VGA/Y-Pb-Pr, S-VIDEO, CVBS	
23. CH2 Source	Toggle between channel 2 input source	
	DVI/HDMI, VGA/Y-Pb-Pr, S-VIDEO, CVBS	
24. CH1 Source	Toggle between channel 1 input source	
of DD II	DVI/HDMI, VGA/Y-Pb-Pr, S-VIDEO, CVBS	
25. D Button	Reserve	
26. C Button	Reserve	
27. B Button	Reserve	
28. A Button	Reserve	



Section 4: Specifications

Model	DVI-SPLITPRO-4K	
Description	Advanced Quad Screen Video Processor with IR, Keyboard and Mouse Control	
Dual Output Support	Yes (DVI & VGA)	
Background Video Input	Yes	
HDCP Compliance	Yes	
	DVI/HDMI Single Link - 4.95Gbps	
	VGA - 165 MHz	
Video Bandwidth	Component - 30 MHz	
	S-Video – 13.5 MHz	
	Composite – 13.5 MHz	
Supported Resolutions	480i / 480p / 720p / 1080i / 1080p (60) / 1920x1200@75 / 1600x1200@60	
Audio Support	No	
Control	RS232 / RS485	
Embedded Video Mixer	Yes	
Ability to Cascade	Yes	
Input TMDS Signal	1.2 Volts (peak – peak)	
ESD Protection	Human body model - ± 15kV (air gap discharge) & ±8kV (contact discharge	
	4 x VGA (through included DVI to VGA Adapter)	
	4 x DVI	
	4 x HDMI (through HDMI to DVI Cable / Adapter, not supplied)	
Innut	4 x Component (through included adapter)	
Input	4 x Composite (through included cable)	
	4 x S-Video (through included cable)	
	1 x RS232	
	1 x RS485	
Output	1 x DVI	
DVI Connector Type	DVI-I (29-Pin female)	
VGA Connector Type	HD-15 (15-pin D-sub female)	
S-Video Connector	9 Pin	
RS232 Connector	DE-9 (9-pin D-sub female)	
RCA Connector	75Ω	
RJ45 Connector	WE/SS 8P8C with 2 LED indicators	
Dimensions	11.8" x 15.3" x 1.7" (L x W x H)	
Size	1U Rack-mount with ears	
Power Supply	AC 100-240V	
Power Consumption	· · ·	
Operating Temperature	0~40°C [32~104°F]	
Storage Temperature	-20~60°C [-4~140°F]	
Relative Humidity	20~90% RH [no condensation]	



4.1 Supported Resolutions

4.1.1 DVI / Component / VGA

Supported Mode	Resolution	Supported Mode	Resolution
NTSC/480i/525i	720x240 @60Hz	VESA	800x600 @75Hz
PAL/576i/625i	720x288 @50Hz	VESA	800x600 @85Hz
480p/525p	720x483 @60Hz	MAC	832x624 @75Hz
480p (16:9)	960x483 @60Hz	VESA	1024x768 @60Hz
576p/625p	720x756 @50Hz	MAC	1024x768 @60Hz
(HDTV) 720p	1280x720 @50Hz	VESA	1024x768 @70Hz
(HDTV) 720p	1280x720 @60Hz	IBM	1024x768 @72Hz
(HDTV) 1080i	1920x1080 @50Hz	VESA	1024x768 @75Hz
(HDTV) 1080i	1920x1080 @60Hz	MAC	1024x768 @75Hz
(HDTV) 1080p	1920x1080 @30Hz	VESA	1024x768 @85Hz
VESA	720x400 @85Hz	VESA	1152x864 @75Hz
VESA	640x350 @85Hz	MAC	1152x870 @75Hz
VESA	640x400 @85Hz	SUN	1152x900 @66Hz
IBM	720x400 @70Hz	SUN	1152x900 @76Hz
IBM	720x350 @70Hz	VESA	1280x960 @60Hz
IBM	640x350 @70Hz	VESA	1280x960 @85Hz
IBM	640x400 @70Hz	VESA	1280x1024 @60Hz
VESA	640x480 @60Hz	HP	1280x1024 @60Hz
MAC	640x480 @67Hz	IBM	1280x1024 @67Hz
VESA	640x480 @72Hz	НР	1280x1024 @72Hz
VESA	640x480 @75Hz	VESA	1280x1024 @75Hz
VESA	640x480 @85Hz	SUN	1280x1024 @76Hz
VESA	800x600 @56Hz	VESA	1600x1200 @60Hz
VESA	800x600 @60Hz	VESA	1920x1200 @60Hz
VESA	800x600 @72Hz		

4.1.2 DVI-OUT

Supported Mode	Resolution	Supported Mode	Resolution
(HDTV) 720p	1280x720 @50Hz	VESA	1366x768 @60Hz
(HDTV) 720p	1280x720 @60Hz	VESA	1400x1050 @60Hz
(HDTV) 1080p	1920x1080 @60Hz	VESA	1400x1050 @50Hz
VESA	640x480 @60Hz	VESA	1152x864 @75Hz
VESA	800x600 @60Hz	VESA	1600x1200 @60Hz
VESA	1024x768 @60Hz	VESA	1920x1200 @50Hz
VESA	1152x864 @75Hz	VESA	1920x1200 @60Hz
VESA	1280x1024 @60Hz		



4.2 General Troubleshooting

Problem	Possible Solution		
No Power	 Ensure that DVI-SPLITPRO-4K is plugged in If you are recovering from power outage, accidentally unplug the adapter or other power surge conditions, leave the device off for a at least a minute and then power it on again. 		
No or Distorted Image	 Make sure all cables are in good working condition and properly connected to the DVI-SPLITPRO-4K and displays. Configure the output video resolution so that it doesn't exceed the native resolution of the display. (in this case, the message of "out of range" is usually showed on your screen) 		
Poor Quality	 We suggest that don't use T-connectors to split your video source into to images displayed on two different screens. That will lower output video quality. Use a distribution amplifier instead of T-connectors. Make sure the video source is not compressed and maintains the highest native resolution. 		
Wrong Color	Press "Color Balance" key for auto configuration. Auto color configuration only works at VGA and Component inputs.		
No Video after Factory Hardware and Software Reset	 Always perform a hard power reset from the back of the unit using the power switch on back right. In the configuration software after the factory reset navigate to: Advance setting button Ensure the correct COM Port is enabled Wait until Green check mark and Device Ready! is complete Proceed to "Device Setting/Testing" "Execute Selector" Select "Modular Configure" then Press Execute Button 		





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