



Blackbird™ 4K Multiview Video Processor

P/N 18843

User's Manual

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SAFETY WARNINGS AND GUIDELINES

Please read this entire manual before using this device, paying extra attention to these safety warnings and guidelines. Please keep this manual in a safe place for future reference.

- This device is intended for indoor use only.
- Do not expose this device to water or moisture of any kind. Do not place drinks or other containers with moisture on or near the device. If moisture does get in or on the device, immediately unplug it from the power outlet and allow it to fully dry before reapplying power.
- Do not touch the device, the power cord, or any other connected cables with wet hands.
- Do not subject the product to extreme force, shock, or fluctuations in temperature or humidity.
- Do not expose this device to excessively high temperatures. Do not place it in, on, or near heat sources, such as a fireplace, stove, radiator, etc. Do not leave it in direct sunlight.
- This device ventilates excessive heat through the slots and openings in the case. Do not block or cover these openings. Ensure that the device is in an open area where it can get sufficient airflow to keep from overheating.
- Do not place or install this device in an area where it can be exposed to excessive amounts of dust, humidity, oil, smoke, or combustible vapors.
- Use only in a well-ventilated area. Do not use in close, confined spaces.
- Prior to operation, check the unit and power cord for physical damage. Do not use if physical damage has occurred.
- Before plugging the unit into a power outlet, ensure that the outlet provides the same type and level of power required by the device.
- Unplug this device from the power source when not in use.
- Take care to prevent damage to the power cord. Do not allow it to become crimped, pinched, walked on, or become tangled with other cords. Ensure that the power cord does not present a tripping hazard.

- Never unplug the unit by pulling on the power cord. Always grasp the connector head or adapter body.
- Ensure that power is turned off and disconnected before making any electrical connections.
- Remove the batteries from the controller if it will go unused for a lengthy period of time.
- Clean using a soft, dry cloth only. Do not use chemical cleaners, solvents, or detergents. For stubborn deposits, moisten the cloth with warm water.
- This device has no user serviceable parts. Do not attempt to open, service, or modify this device.

INTRODUCTION

The Blackbird™ 4K Multiview Video Processor is a simple, cost-effective video scaler designed to scale up or down SD and HD video at resolutions up to 4K@60Hz. It features four HDMI®, one VGA, one DisplayPort, and one analog audio inputs, plus one normal HDMI output and one loop-through DisplayPort output. The system allows you to easily flip and rotate content with the simple push of a button.

FEATURES

- Supports resolutions up to 4K@60Hz with 4:4:4 color sampling
- Upscales to up to 4K@60Hz with 4:4:4 color sampling
- Supports full screen and multiview layout configurations
- Supports 14 different screen layouts, including 6 preset screen layouts and 8 customizable screen layouts
- Rotate or flip the image in full-screen mode
- Supports Dolby Digital® 5.1, DTS® 5.1, uncompressed 7.1-channel LPCM, and stereo analog audio
- Includes a stereo analog audio output
- Supports front panel button, IR remote control, RS232/TELNET, and Web UI control
- Supports firmware upgrades
- Includes a DisplayPort loop-through out

CUSTOMER SERVICE

The Monoprice Customer Service department is dedicated to ensuring that your ordering, purchasing, and delivery experience is second to none. If you have any problem with your order, please give us an opportunity to make it right. You can contact a Monoprice Customer Service representative through the Live Chat link on our website www.monoprice.com during normal business hours (Mon-Fri: 5am-7pm PT, Sat-Sun: 9am-6pm PT) or via email at support@monoprice.com

PACKAGE CONTENTS

Please take an inventory of the package contents to ensure you have all the items listed below. If anything is missing or damaged, please contact Monoprice Customer Service for a replacement.

1x Blackbird™ 4K Multiview Video Processor

1x IR Remote Control

1x 12 VDC/2A AC Power Adapter

2x Rack Mount Brackets

8x Rack Mount Bracket Screws

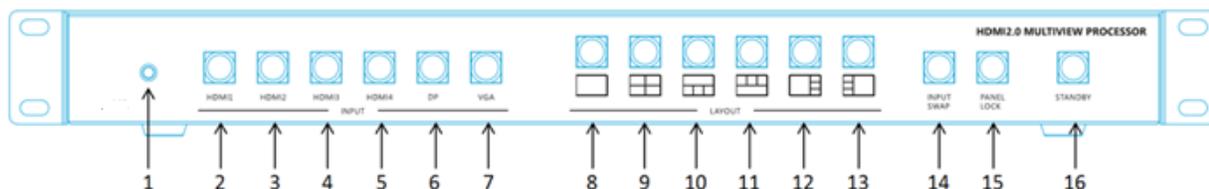
4x Foot Mounting Screws

4x Rubber Feet

1x User's Manual

PRODUCT OVERVIEW

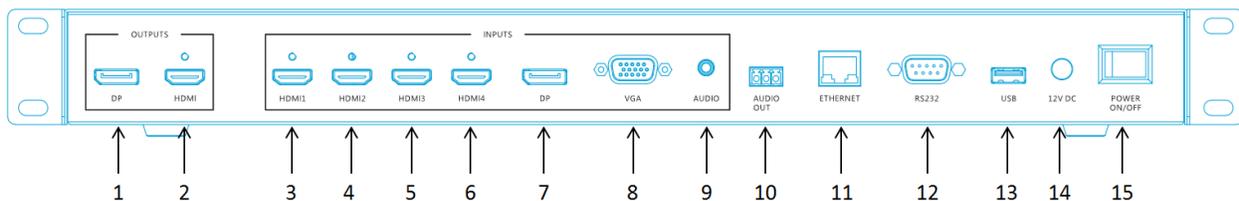
Front Panel



1. **IR Receiver:** Receives infrared signals from the included IR Remote Control.
2. **HDMI 1 INPUT:** Selects the HDMI[®] 1 input when in Full Screen mode. In any mode, the LED illuminates when HDMI 1 is a currently selected input.
3. **HDMI 2 INPUT:** Selects the HDMI 2 input when in Full Screen mode. In any mode, the LED illuminates when HDMI 2 is a currently selected input.
4. **HDMI 3 INPUT:** Selects the HDMI 3 input when in Full Screen mode. In any mode, the LED illuminates when HDMI 3 is a currently selected input.
5. **HDMI 4 INPUT:** Selects the HDMI 4 input when in Full Screen mode. The LED illuminates when HDMI 4 is the currently selected input. HDMI 4 is only selectable in Full Screen mode.
6. **DP:** Selects the DisplayPort input when in Full Screen mode. In any mode, the LED illuminates when DP is a currently selected input.
7. **VGA:** Selects the VGA input when in Full Screen mode. In any mode, the LED illuminates when VGA is a currently selected input.
8. : Selects Layout A (Full Screen).
9. : Selects Layout B. Layout B is not selectable when the output is set to 480p.
10. : Selects Layout C. Layout C is not selectable when the output is set to 480p.
11. : Selects Layout D. Layout D is not selectable when the output is set to 480p.
12. : Selects Layout E. Layout E is not selectable when the output is set to 480p or 720p.

13. : Selects Layout F. Layout F is not selectable when the output is set to 480p or 720p.
14. **INPUT SWAP:** Toggles the fourth input between DisplayPort and VGA when using Layouts B, C, D, E, or F.
15. **LOCK:** Locks or unlocks the front panel buttons.
16. **STANDBY:** Toggles the system between Standby and On. The LED illuminates red when in Standby mode and illuminates green when powered On.

Rear Panel

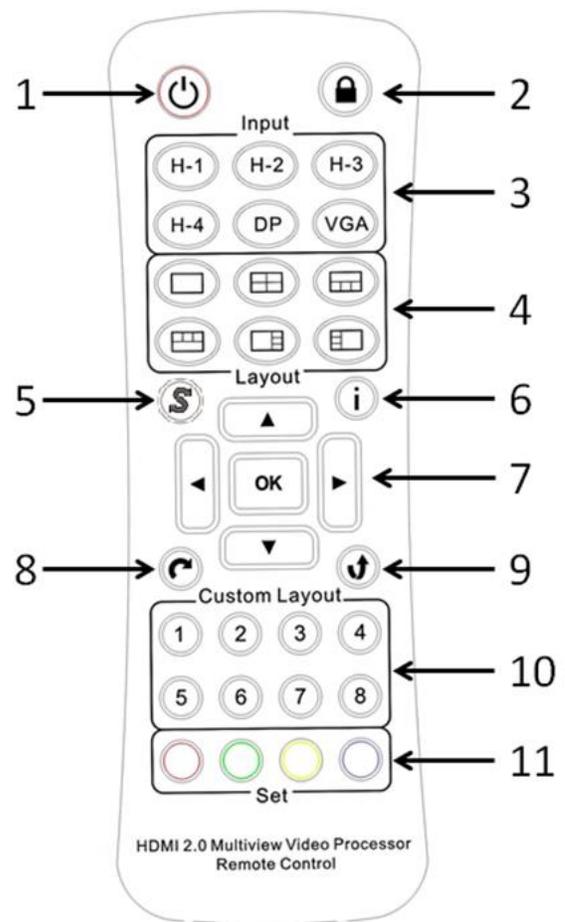


1. **DP OUTPUT:** Output connector for connecting a DisplayPort monitor.
2. **HDMI OUTPUT:** Output connector for connecting an HDMI® display.
3. **HDMI 1 INPUT:** Input connector for connecting an HDMI source device.
4. **HDMI 2 INPUT:** Input connector for connecting an HDMI source device.
5. **HDMI 3 INPUT:** Input connector for connecting an HDMI source device.
6. **HDMI 4 INPUT:** Input connector for connecting an HDMI source device.
7. **DP INPUT:** Input connector for connecting a DisplayPort source device.
8. **VGA INPUT:** Input connector for connecting a VGA source device.
9. **AUDIO INPUT:** 3.5mm TRS jack for connecting a stereo analog audio source for use with the DisplayPort or VGA inputs.
10. **AUDIO OUT:** Three conductor Euroblock connector for connecting a stereo analog audio output device.
11. **ETHERNET:** RJ45 jack for direct connection to a computer or to an Ethernet router or switch for Web UI control.

12. **RS232:** 9-pin serial connector for connecting to a computer for RS232/TELNET control.
13. **USB:** USB port for connecting a flash drive for firmware updates.
14. **12V DC:** DC barrel connector for connecting the included AC power adapter.
15. **POWER ON/OFF:** Toggles power on or off.

Remote Control

1. **⏻:** Toggles the system between Standby and On. The LED illuminates red when in Standby mode and illuminates green when powered On.
2. **🔒:** Locks or unlocks the front panel buttons.
3. **Input:** Selects the HDMI 1, HDMI 2, HDMI 3, HDMI 4, DP, or VGA input when in Full Screen mode. Note that HDMI 4 is only selectable in Full Screen mode.
4. **Layout:** Selects Layout A (Full Screen), B, C, D, E, or F. Layouts B, C, D, E, and F cannot be selected when the output is set to 480p. Layouts E and F are cannot be selected when the output is set to 720p.
5. **S:** Toggles the fourth input between DisplayPort and VGA when using Layouts B, C, D, E, or F.
6. **i:** Displays the system information.
7. **Direction Pad:** Not used.



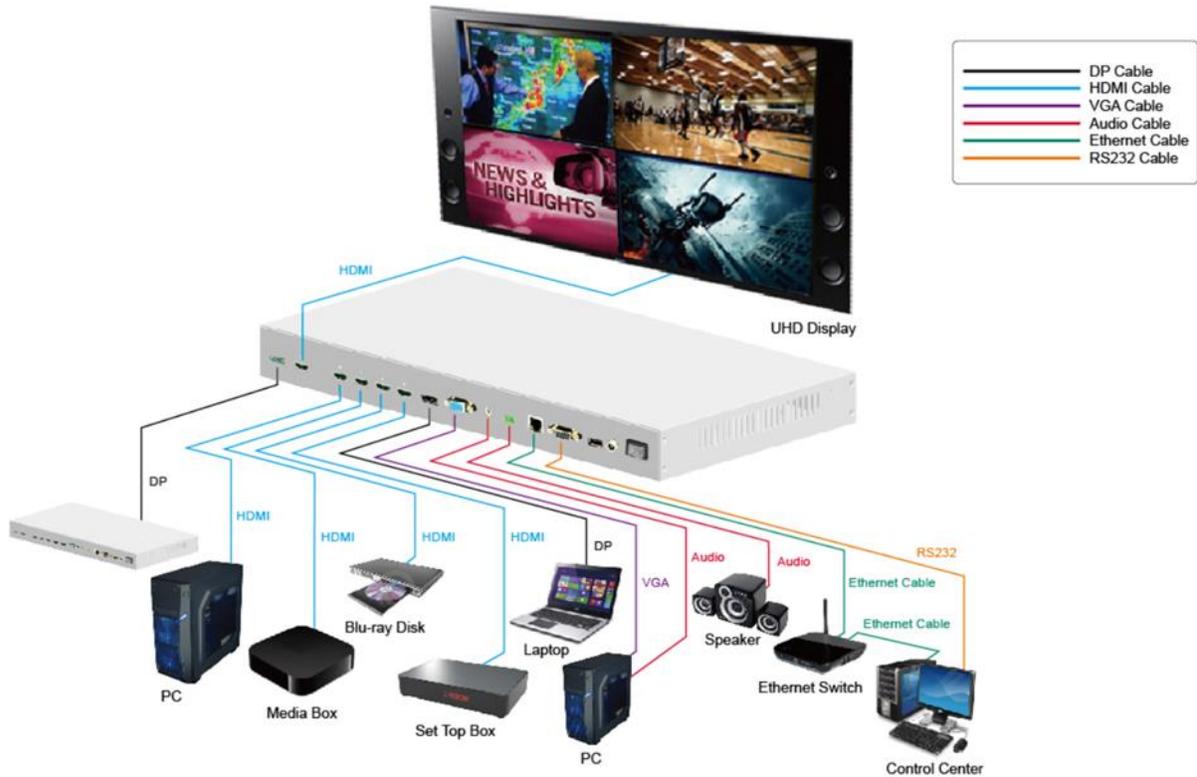
8. : Rotates the display in Full Screen mode. The screen cannot be rotated when the input is using a 4K resolution.
9. : Flips the display in Full Screen mode.
10. **Custom Layout:** Selects one of the eight custom layouts. You can create custom layouts when using the Web UI control method. Custom layouts are not supported when the output resolution is set to 480p or 720p. When a custom layout is selected, the Layout A and Layout B LEDs will illuminate on the front panel.
11. **Set:** Quickly sets the output resolution. Red sets it to 3840x2160@60Hz, Green sets it to 3840x2160@30Hz, Yellow sets it to 1920x1080@60Hz, and Blue sets it to 1280x720@60Hz.

RACK MOUNTING

The system includes a rack mount kit, which includes two rack mount brackets, eight screws for attaching the brackets to the video processor, and four screws for securing the rack mount brackets to the rack. Perform the following steps to install the rack mount brackets and install the assembly into a system rack.

1. Ensure that the video processor is not plugged in or connected to anything.
2. Place the unit on a flat surface.
3. Place one of the Rack Mount Brackets against one side of the unit and attach it using four of the Rack Mount Bracket Screws.
4. Place the other Rack Mount Bracket against the other side of the unit and attach it using the remaining four Rack Mount Bracket Screws.
5. Insert the assembly into the rack and secure it to the rack with the four Rack Mounting Screws.

SAMPLE CONNECTION DIAGRAM



INSTALLATION

Refer to the *SAMPLE CONNECTION DIAGRAM* for a visual indication of the following installation instructions.

1. Ensure that all equipment to be connected is powered off and unplugged from its power source.
2. Perform one of the following:
 - a. Mount the unit in a system rack by following the instructions in the *RACK MOUNTING* section above.
 - b. Place the unit upside down, then peel the protective film from the four **Rubber Feet** and stick them in each of the four corners. Place the unit right-side up on its feet.

3. (Optional) Using a DisplayPort cable (not included), plug one end into the input of a DisplayPort monitor or another DisplayPort video device, then plug the other end into **DP OUTPUT** on the Video Processor.
4. Using a High Speed HDMI Cable (not included), plug one end into the HDMI® input on your HDTV, then plug the other end into the **HDMI OUTPUT** on the Video Processor. For best results connect to a 4K display.
5. Using a High Speed HDMI Cable (not included), plug one end into the **HDMI 1 INPUT** port on the Video Processor, then plug the other end into the output of an HDMI source device. Repeat for up to three additional HDMI source devices.
6. (Optional) Using a DisplayPort cable (not included), plug one end into the **DP INPUT** port on the Video Processor, then plug the other end into the DisplayPort output of a computer, laptop, or other DisplayPort source.
7. (Optional) Using a VGA cable (not included), plug one end into the **VGA INPUT** port on the Video Processor, then plug the other end into the VGA output of a computer, laptop, or other VGA source.
8. Using a 3.5mm TRS audio cable, plug one end into the **AUDIO INPUT** on the Video Processor, then plug the other end into the audio output of a computer, laptop, or other analog audio source.
9. (Optional) Loosen the three screws in the **AUDIO OUT** Euroblock connector. Insert the three leads from an audio cable into the holes and tighten the screws. Plug the other end into your analog audio output device.
10. (Optional) Using a Cat5e/6 Ethernet cable (not included), plug one end into the **ETHERNET** port on the Video Processor, then plug the other end into the Ethernet port on your computer, laptop, Ethernet switch, or router.
11. (Optional) Using a 9-pin serial cable (not included), plug one end into the **RS232** port on the Video Processor, then plug the other end into a serial port on your computer or laptop.
12. Ensure that the **POWER ON/OFF** switch on the rear panel of the Video Processor is in the OFF position.

13. Plug the DC barrel connector on the included AC Power Adapter into the **12V DC** connector on the Video Processor, then plug the adapter into a nearby AC power outlet.
14. Flip the **POWER ON/OFF** switch on the rear panel to the **ON** position.
15. Plug in and power on all connected equipment. Start video playback on each video source and verify that each source can be viewed on the connected display.

Congratulations, your Multiview Video Processor is properly installed and is ready for use!

WEB UI CONTROL

Connecting to an Existing Network

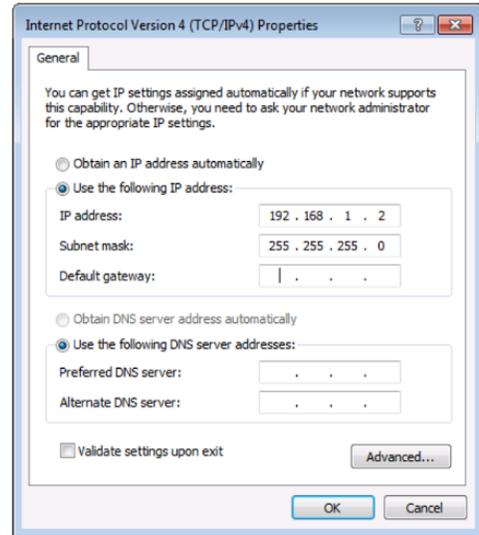
If you connect the **ETHERNET** port on the Video Processor to an Ethernet switch or router, you can access the Web UI without making any configuration changes to your computer. Simply open a web browser, type **192.168.1.202** into the address bar, and press ENTER to connect to the Web UI.

Connecting Directly to a PC

If you connect the **ETHERNET** port on the Video Processor directly to the Ethernet port on your computer, you will need to make a few adjustments to your PC's network settings. Perform the following to configure your computer for connecting to the Video Processor's Web UI. These instructions are for Windows® 7. Other Windows versions may differ in detail.

1. Click **Start > Control Panel > Network and Sharing Center**. If you do not see the **Network and Sharing Center** option, change the **View by** setting from **Category** to **Large** icons.
2. Click **Change Adapter Settings**.
3. Highlight the network adapter you have connected to the Video Processor, then click **Change settings of this connection**.
4. Highlight **Internet Protocol Version 4 (TCP/IPv4)**, then click the **Properties** button.

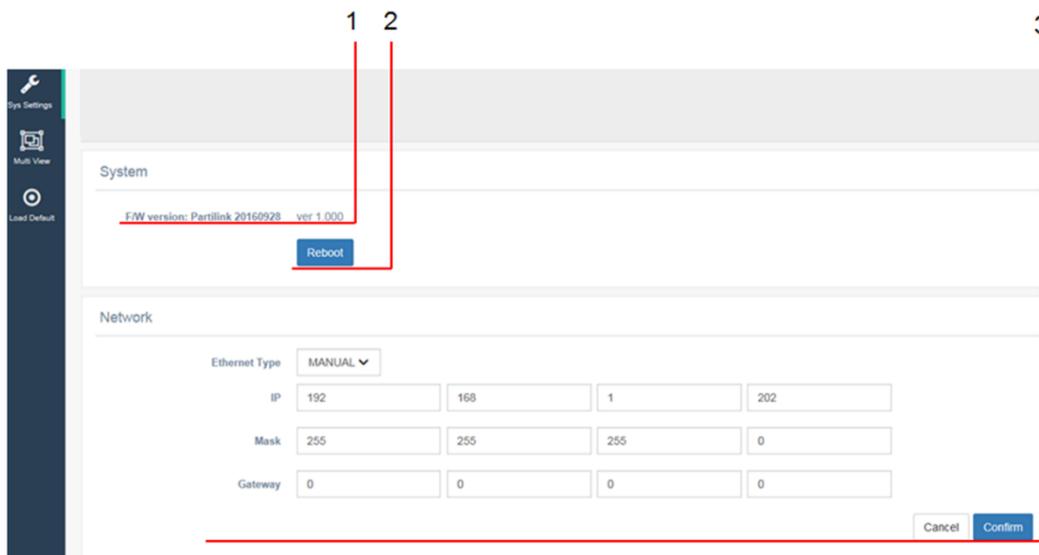
- Click the radio button to the left of **Use the following IP address**, then click in the **IP address** field and enter any IP address in the range **192.168.1.1** to **192.168.1.255**, except **192.168.1.202**.
- Click in the **Subnet mask** field, then type in **255.255.255.0**.
- Click the **OK** button twice, then exit Control Panel.



To connect to the Video Processor's Web UI, simply open your browser, then type **192.168.1.202** into the address bar and press ENTER.

USING THE WEB UI

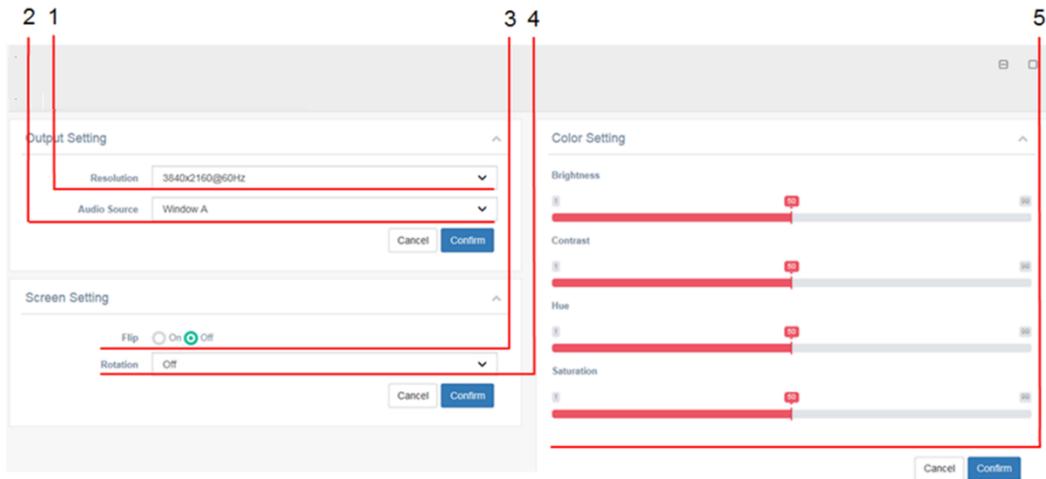
System Page



- System FW version:** Displays the firmware version.
- System Reboot:** Restarts the Video Processor.
- Network Ethernet Type:** Change the network type to **Static IP** or **HDCP**.

Click the **Confirm** button to save the changes or **Cancel** to ignore the changes.

Multi View Page



1. **Output Setting Resolution:** Allows you to select the output resolution. The available options are:

3840x2160@60Hz

3840x2160@30Hz

1920x1080@60Hz

1280x720@60Hz

480p@60Hz

2. **Output Setting Audio Source:** Allows you to select the source for audio. The available options are:

Window A (default)

HDMI 1

HDMI 2

HDMI 3

HDMI 4

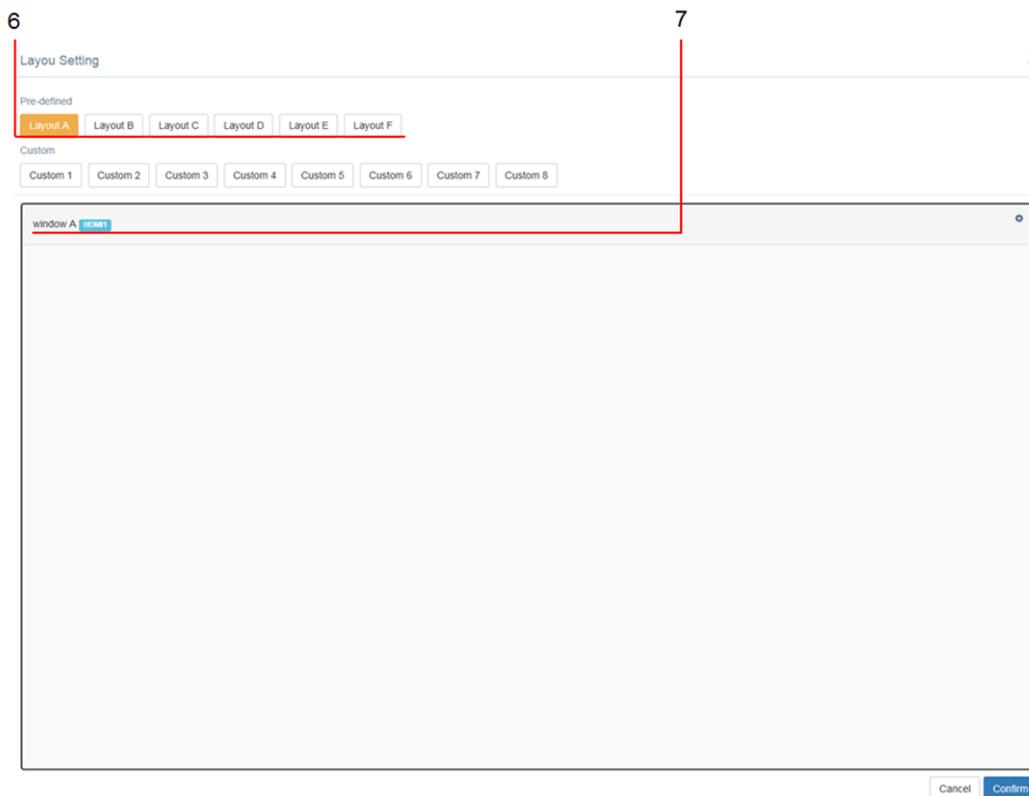
DP

VGA

Mute

3. **Screen Setting Flip:** Allows you to flip the display screen in Full Screen mode. The available options are **On** and **Off** (default).
4. **Screen Setting Rotate:** Allows you to rotate the display screen in Full Screen mode. The available options are **Off** (default), **L90**, and **R90**. Note that the Rotate option is not available if the input is 4K.
5. **Color Setting:** Allows you to set the Brightness, Contrast, Hue, and Saturation levels. Each option can be set in the range 0 - 100, with 50 as the default.

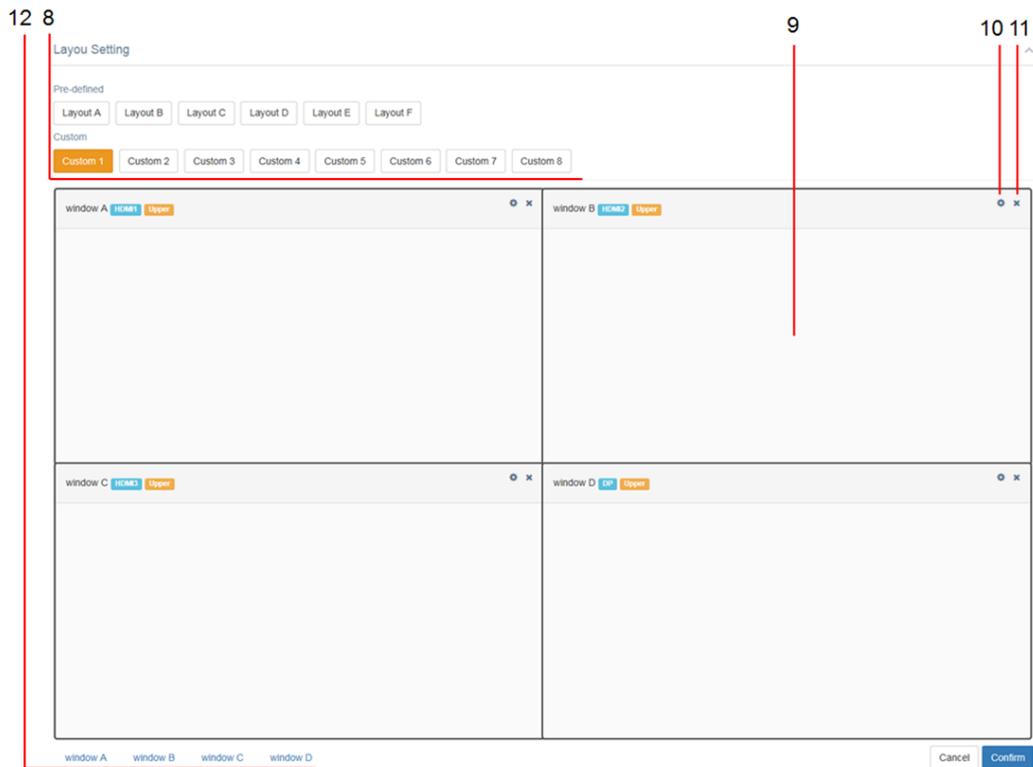
Click the **Confirm** button to save the changes or **Cancel** to ignore the changes.



6. **Layout Setting Pre-defined:** Allows you to select which of the pre-defined layouts to use. The available options are **Layout A** (default), **Layout B**, **Layout C**, **Layout D**, **Layout E**, and **Layout F**. Note that if the output resolution is set to 480p@60Hz, the only available layout is Layout A. If the output resolution is set to 1280x720@60Hz, Layouts E and F cannot be selected. HDMI 4 is only available with Layout A (Full Screen).

- Layout Setting Window Info:** Allows you to set the input source for each window. The defaults are HDMI 1 on Window A, HDMI 2 on Window B, HDMI 3 on Window C, and DP on Window D.

Click the **Confirm** button to save the changes or **Cancel** to ignore the changes.

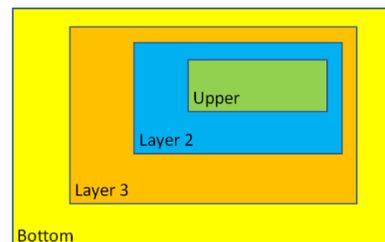


- Layout Setting Custom:** Selects which of the eight custom layouts to modify.
- Layout Setting Window:** Each window can be moved by clicking and dragging it to the desired location. Each window can be resized by grabbing the right or bottom edges and dragging. Additionally, each window has the following elements:

Window Name: Shows window A, B, C, or D.

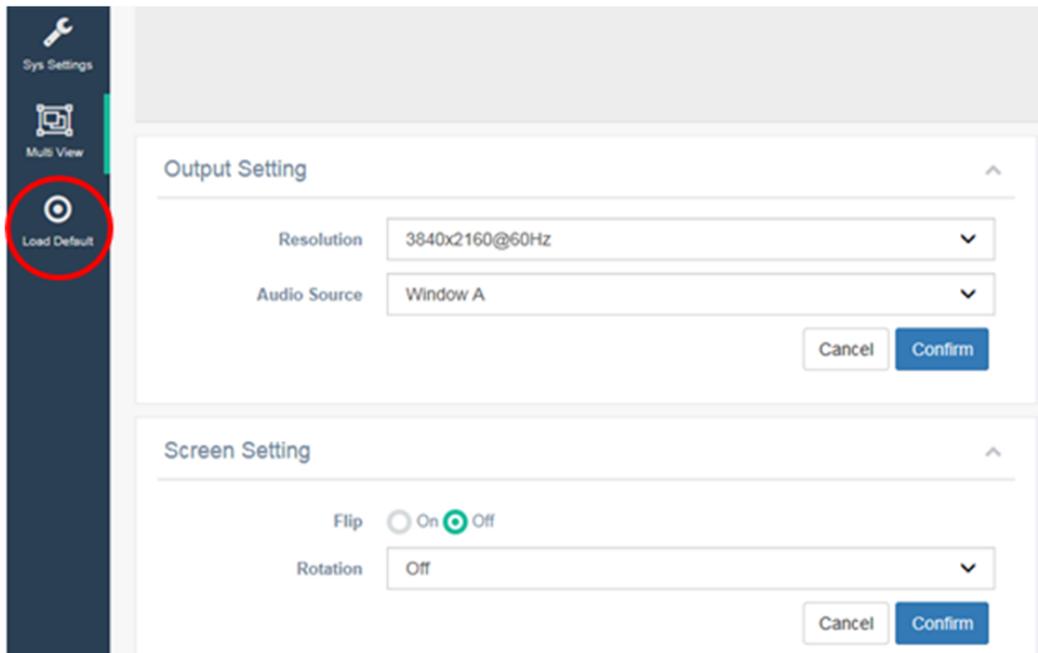
Video Source: The blue label shows the selected source for each window.

Priority: The orange label shows the selected priority layer for each window. The available layer options and their order of priority are shown in the graphic to the right.



10. **Options:** Click the "gear" icon to change the input source for the selected window. The available options are **HDMI 1, HDMI 2, HDMI 3, DP,** and **VGA**. Note that HDMI 4 cannot be selected for any custom layout.
11. **Close:** Click the **X** in the upper right corner to remove a window from the custom layout.
12. **Window A-D:** Click one of the window labels at the bottom of the screen to add it to the custom layout.

Load Default Button



Click the **Load Default** button on the side bar to load the system defaults.

RS232/TELNET CONTROL

After connecting your computer to the Video Processor using a RS232 serial cable, you can communicate with it using a Telnet program (not included). The following table shows the commands recognized by the Video Processor. Note that the default setting is shown in parentheses.

Command	Description	Parameters (Default)
?	Prints all available RS232/Telnet commands to the screen.	
HELP	Prints all available RS232/Telnet commands to the screen.	
SPOW N	Sets the unit power On or Off.	Power Status N=0~1 0=Off, 1=On
RPOW	Reports the current power state.	
SRES N	Sets the output resolution to N.	Resolution N=0~4 0=3840x2160@60Hz 1=3840x2160@30Hz 2=1920x1080@60Hz 3=1280x720@60Hz 4=480p@60Hz
RRES	Reports the current output resolution.	
SIOSDD N	Sets the onscreen information display status to N.	Status N=0~1 0=Off, 1=On, (0)
SBRI N	Sets the output Brightness level.	0~100, (50)
RBRI	Reports the output Brightness level.	
SCON N	Sets the output Contrast level.	0~ 100, (50)
RCON	Reports the output Contrast level.	

SSAT N	Sets the output Saturation level.	0~100, (50)
RSAT	Reports the output Saturation level.	
SHUE N	Sets the output Hue level.	0~100, (50)
RHUE	Reports the output Hue level.	
SSHP N	Sets the output Sharpness level.	0~100, (50)
RSHP	Reports the output Sharpness level.	
SPIRE	Resets the output Brightness, Contrast, Saturation, and Hue levels to the default values. Resets all windows to their default settings.	
SIMRE N	Resets either the output Brightness or Contrast or Saturation or Hue or Sharpness levels to the default values.	Parameter N=1~5 1=Brightness 2=Contrast 3=Saturation 4=Hue 5=Sharpness
SIN2CH N M	Sets window N to input source M.	Window N=1~4 1=A, 2=B, 3=C, 4=D Input Source M=1~6 1=HDMI 1, 2=HDMI 2, 3=HDMI 3, 4=HDMI 4, 5=DP, 6=VGA
SHSIZE N M	Sets window N to horizontal size M. Each horizontal size value equals 1/32 of the screen's width.	Window N=1~4 1=A, 2=B, 3=C, 4=D Horizontal Size M=0~31
RHSIZE N	Reports the horizontal size of window N. Each horizontal size value equals 1/32 of the screen's width.	Window N=1~4 1=A, 2=B, 3=C, 4=D

SVSIZE N M	Sets window N to vertical size M. Each vertical size value equals 1/18 of the screen's height.	Window N=1~4 1=A, 2=B, 3=C, 4=D Vertical Size M=0~17
RVSIZE N	Reports the vertical size of window N. Each vertical size value equals 1/18 of the screen's height.	Window N=1~4 1=A, 2=B, 3=C, 4=D
SHPOS N M	Sets window N to horizontal position M. Each horizontal position value is equal to 1/32 of the screen's width.	Window N=1~4 1=A, 2=B, 3=C, 4=D Horizontal Position M=0~31
RHPOS N	Reports the horizontal position of window N. Each horizontal position value is equal to 1/32 of the screen's width.	Window N=1~4 1=A, 2=B, 3=C, 4=D
SVPOS N M	Sets window N to vertical position M. Each vertical position value is equal to 1/18 of the screen's height.	Window N=1~4 1=Z, 2=B, 3=C, 4=D Vertical Position M=0~17
RVPOS N	Reports the vertical position of window N. Each vertical position value is equal to 1/18 of the screen's height.	Window N=1~4 1=Z, 2=B, 3=C, 4=D
SWIN N M	Sets window N to on/off status M.	Window N=1~4 1=Z, 2=B, 3=C, 4=D Status M=0~1 0=Off, 1=On

RWIN N	Reports the on/off status of window N.	Window N=0~4 0=All, 1=A, 2=B, C=3, D=4
SPRI N M	Sets window N to priority M.	Window N=1~4 1=A, 2=B, 3=C, 4=D Priority M=1~4 1=Bottom, 2=Layer 3, 3=Layer 2, 4=Upper
RPRI N	Reports the priority of window N.	Window N=0~4 0=All, 1=A, 2=B, C=3, D=4
SRECALL N	Selects one of the pre-defined or custom layouts.	Layout N=1~14 Pre-defined layouts=1~6 1=LA, 2=LB, 3=LC, 4=LD, 5=LE, 6=LF Custom Layouts=7~14 7=C1, 8=C2, 9=C3, 10=C4, 11=C5, 12=C6, 13=C7, 14=C8
SROTATE N	Sets the video rotation.	N=0~3 0=Off, 1=L90, 2=R90, 3=180
RROTATE	Reports the current video rotation setting.	
SIPM N	Sets the IP mode N.	Mode N=0~1 0=DHCP, 1=Static, (1)
RIPM	Reports the current IP mode.	
SIPADD N M X Y	Sets the static IP address to N.M.X.Y.	N=0~255, M=0~255, X=0~255, Y=0~255
RIPADD	Reports the static IP address.	

SMAADD N M X Y	Sets the static subnet mask to N.M.X.Y.	N=0~255, M=0~255, X=0~255, Y=0~255
RMAADD	Reports the current static subnet mask.	
SGAADD N M X Y	Sets the static gateway address to N.M.X.Y.	N=0~255, M=0~255, X=0~255, Y=0~255
RGAADD	Reports the current static gateway address.	
RMAC	Reports the current MAC address.	
IPCONFIG	Reports the Ethernet address.	
DEFAULT	Resets the Video Processor to the factory defaults.	
SMUTE N	Sets the audio mute status N.	Status N=0~1 0=Muted, 1=Unmuted
RMUTE	Reports the current mute status.	
SAUDIO N	Sets the output audio to the input source N.	Input Source N=1~6 1=HDMI 1, 2=HDMI 2, 3=HDMI 3, 4=HDMI 4, 5=DP, 6=VGA
RAUDIO	Reports the output audio source.	
SWICORE	Resets all windows to the factory defaults.	
RFW	Reports the firmware version.	
REBOOT	Restarts the system.	
READ EDID	Reads the EDID from the connected sink device (display).	

TECHNICAL SUPPORT

Monoprice is pleased to provide free, live, online technical support to assist you with any questions you may have about installation, setup, troubleshooting, or product recommendations. If you ever need assistance with your new product, please come online to talk to one of our friendly and knowledgeable Tech Support Associates. Technical support is available through the online chat button on our website www.monoprice.com during regular business hours, 7 days a week. You can also get assistance through email by sending a message to tech@monoprice.com

SPECIFICATIONS

Inputs	4x HDMI® with locking, 1x DisplayPort, 1x VGA, 1x analog audio, 1x Ethernet
Outputs	1x HDMI with locking, 1x DisplayPort loop-through, 1x analog audio
HDMI Version	2.0
DisplayPort Version	1.2
Control	Front panel buttons, IR remote control, RS232, Web UI
Maximum Video Resolution	4096 x 2160@ 60Hz, 4:4:4 color sampling
Input Power	12 VDC, 2A
Power Consumption	15 watts
Operating Temperature	+32 ~ +113°F (0 ~ +45°C)
Operating Humidity	20 ~ 90% RH, non-condensing
Storage Temperature	-4 ~ +140°F (-20 ~ +60°C)
Dimensions	17.3" x 9.1" x 1.8" (440 x 230 x 45 mm)
Weight	6.0 lbs. (2.72 kg)

REGULATORY COMPLIANCE

Notice for FCC



This device complies with Part 15 of the FCC rules. Operation is subject to the following two conditions: (1) this device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

Modifying the equipment without Monoprice's authorization may result in the equipment no longer complying with FCC requirements for Class B digital devices. In that event, your right to use the equipment may be limited by FCC regulations, and you may be required to correct any interference to radio or television communications at your own expense.

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

Notice for Industry Canada

This Class B digital apparatus complies with Canadian ICES-003.

Cet appareil numérique de la classe B est conforme à la norme NMB-003 du Canada.

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