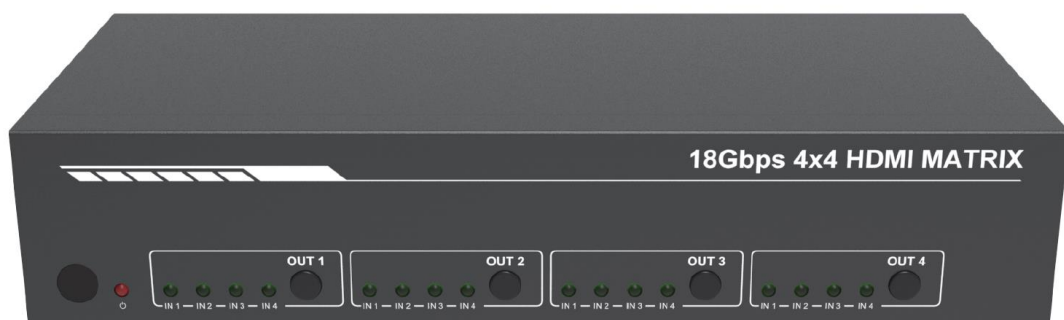


BLACKBIRD™



Blackbird™ by Monoprice™
4K 4×4 HDMI® MATRIX

P/N **15750**
User Manual

SAFETY WARNINGS AND GUIDELINES

Please read this entire manual before using the Blackbird™ 4K 4×4 HDMI® Matrix, 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. Do not place drinks or other containers with moisture on or near the unit. If moisture does get in or on the unit, immediately unplug it from the power source and allow it to fully dry before reapplying power.
- Do not touch this device, the power cord, or any other connected cables with wet hands.
- Do not expose this device to excessive vibration, extreme force, shock, or fluctuations in temperature or humidity.
- Do not expose the unit to excessively high temperatures. Do not place it in, on, or near heat sources, like a fireplace, stove, radiator, etc. Do not leave it in direct sunlight.
- Do not place or install the unit in an area where it can be exposed to excessive amounts of dust, humidity, oil, smoke, or explosive vapors.
- Before 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 transceiver 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 this device by pulling on the power cord. Always grasp the connector head or adapter body.
- Ensure power is turned off and disconnected before making any electrical connections.
- Do not use chemical cleaners or solvents to clean these mounts. Use only a soft cloth that's slightly moistened with warm water.
- This device has no user-serviceable parts. Do not attempt to open, service, or modify it.

⚠ WARNING	
• INGESTION HAZARD: This product contains a button cell or coin battery • DEATH or serious injury can occur if ingested. • A swallowed button cell or coin battery can cause Internal Chemical Burns in as little as 2 hours. • KEEP new and used batteries OUT OF REACH of CHILDREN • Seek immediate medical attention if a battery is suspected to be swallowed or inserted inside any part of the body.	

- Remove and immediately recycle or dispose of used batteries according to local regulations and keep them away from children. Do NOT dispose of batteries in household trash or incinerate them.
- Even used batteries may cause severe injury or death.
- Call a local poison control center for treatment information.
- Identification of compatible battery type: CR2025
- Nominal battery voltage: 3V
- Non-rechargeable batteries are not to be recharged.
- Do not force discharge, recharge, disassemble, heat above (manufacturer's specified temperature rating), or incinerate. Doing so may result in injury due to venting, leakage, or explosion resulting in chemical burns.
- Ensure the batteries are installed correctly according to polarity (+ and -).
- Do not mix old and new batteries, different brands, or types of batteries, such as alkaline, carbon-zinc, or rechargeable batteries.
- Remove and immediately recycle or dispose of batteries from equipment not used for an extended period according to local regulations.
- Always completely secure the battery compartment. If the battery compartment does not close securely, stop using the product, remove the batteries, and keep them away from children.

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INTRODUCTION

This Blackbird™ 4K 4×4 HDMI® Matrix allows you to distribute any of up to four HDMI® video sources to any or all of up to four displays. It complies with the HDMI 2.0 and HDCP™ 2.2 specifications, delivers up to 18Gbps video bandwidth, and supports video resolutions up to 4K @ 60 Hz with the YCbCr 4:4:4 color space, including all HDMI 3D video modes. Each output can be individually downscaled to 1080p and each output has a digital coaxial and stereo analog audio output for connecting an external amplifier or powered speakers. It supports the Audio Return Channel (ARC) HDMI feature, which allows audio from the display to be redirected to the digital coaxial output. It includes advanced EDID® management and can be controlled using the front panel controls, the included IR remote control, or with a computer using RS-232 commands or the built-in Web GUI.

FEATURES

- Complies with the HDMI® 2.0, HDCP™ 2.2/1.4, and DVI™ 1.0 specifications
- Supports up to 18Gbps video bandwidth
- Supports video resolutions up to 4K @ 60 Hz with the YCbCr 4:4:4 color space, including all 3D HDMI video modes
- Each output can be individually downscaled to 1080p
- Each output de-embeds the audio from the HDMI signal and directs it to an independent digital coaxial and stereo analog audio outputs

- Support the Audio Return Channel (ARC) feature, which directs audio from the connected display to the digital coaxial audio output
- Supports advanced EDID® management
- Can be controlled using the front panel controls, the included IR remote control, or with a computer using
- RS-232 commands or the built-in Web GUI

PACKAGE CONTENTS

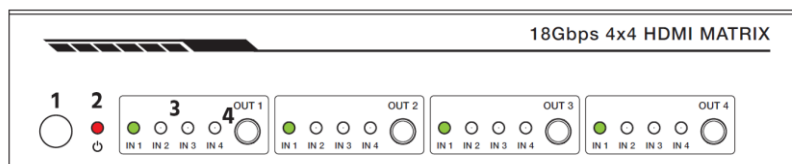
Take an inventory of the package contents to make sure you have all the items listed below.

Please contact Monoprice Customer Service for a replacement if anything is missing or damaged.

- **1x** 4K 4x4 HDMI® Matrix
- **1x** AC Power Adapter (12 VDC, 2.5A)
- **1x** IR Remote Control
- **2x** Mounting Ears
- **1x** IR Receiver
- **1x** 3-pin Euroblock Connector
- **1x** User Manual

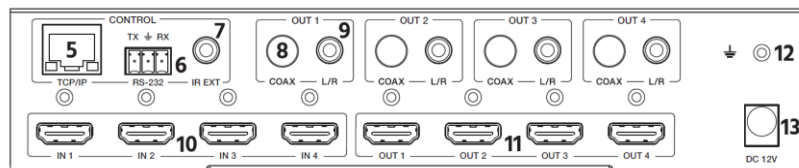
PRODUCT OVERVIEW

A. FRONT PANEL



1	IR RECEIVER	IR "eye" for receiving signals from the included IR remote control.
2	POWER	The LED illuminates red when power is applied.
3	IN LEDs	Four LEDs for each output channel are used to indicate the selected input for that output. The LEDs illuminate green to indicate the selected source.
4	OUT	Press one of the OUT buttons to cycle forward through the available inputs for that output channel.

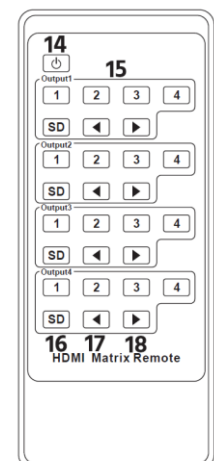
B. REAR PANEL



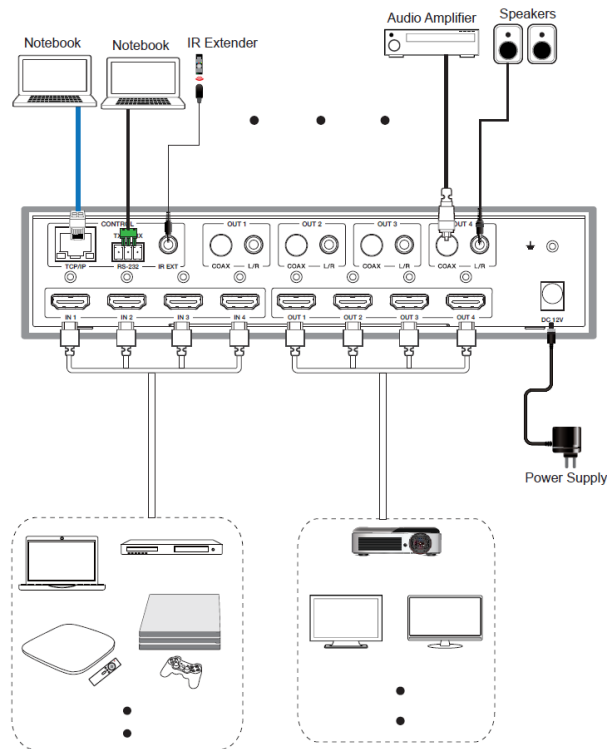
5	TCP/IP	RJ45 jack for connecting a computer for web control using the built-in Web GUI.
6	RS-232	3-pin Euroblock connector for connecting a computer for RS-232 command control.
7	IR EXT	3.5mm jack for connecting the included IR receiver.
8	COAX	Digital coaxial output for connecting an external amplifier to play audio de-embedded from the HDMI® signal or the connected display with the ARC feature.
9	L/R	3.5mm analog stereo audio output for connecting an external amplifier or powered speakers to play audio de-embedded from the HDMI signal.
10	IN	Four HDMI ports for connecting audio source devices.
11	OUT	Four HDMI ports for connecting video display devices.
12	GND	Ground connector.
13	DC 12V	DC barrel connector for connecting the included AC power adapter.

C. IR REMOTE CONTROL

14	POWER	Press the POWER button to turn the unit on/standby mode.
15	1 2 3 4	Press one of the numbered buttons to directly select an input for each output.
16	SD	Press the SD button to toggle downscaling on/off for each output.
17	◀	Press the ◀ button to cycle backward through the available inputs for each output.
18	▶	Press the ▶ button to cycle forward through the available inputs for each output.



CONNECTION DIAGRAM



WEB GUI

This matrix features a built-in Web GUI, which allows it to be controlled by a computer using a network connection. You can connect it directly to your existing Ethernet network or directly to your computer, which requires reconfiguring your network settings.

The Web GUI features six separate pages for configuring and controlling the matrix. The pages are:

- **Status** – displays information about the firmware version and IP settings.
- **Video** – switches inputs to outputs and allows you to set the presets.
- **Input** – displays information about the input signal and EDID® settings.
- **Output** – displays information about the output signal and scaling.
- **Network** – allows you to control basic network settings and login options.
- **System** – sets the panel lock, button beep, and serial baud rate, allowing to perform a firmware upgrade.

A. EXISTING NETWORK

To connect the matrix to your existing Ethernet network, plug one end of an Ethernet cable (not included) into the **TCP/IP** jack on the rear panel, then plug the other end into an available RJ45 jack on your router or Ethernet switch.

To access the Web GUI, open a web browser, then type the IP address into the address field. The default IP address is: **192.168.1.100**

Refer to the *Login* section below for login information. **NOTE:** If the IP address has been changed and you do not know what it is, use the RS-232 command ***r ip addr!*** to display the current IP address.

B. DIRECT CONNECTION

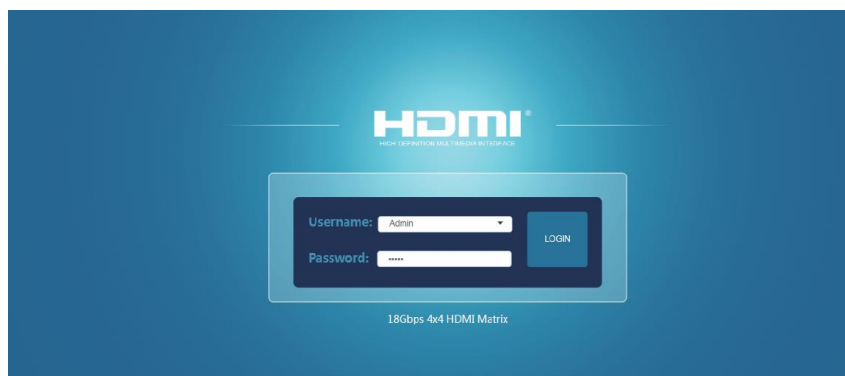
Perform the following steps to connect the matrix directly to your computer.

1. Plug one end of an Ethernet cable (not included) into the **TCP/IP** jack on the rear panel, then plug the other end into the network connection on your computer.
2. Set your computer's IP address to the same network segment as the matrix. For example, set the IP address to **192.168.1.200** and the subnet mask to **255.255.255.0**.
3. To access the Web GUI, open a web browser, then type the IP address into the address field. The default IP address is:
192.168.1.100

Refer to the *Login* section below for login information. **NOTE:** If the IP address has been changed and you do not know what it is, use the RS-232 command ***r ip addr!*** to display the current IP address.

C. LOG IN

After typing the IP address into your browser, you will see the following screen.



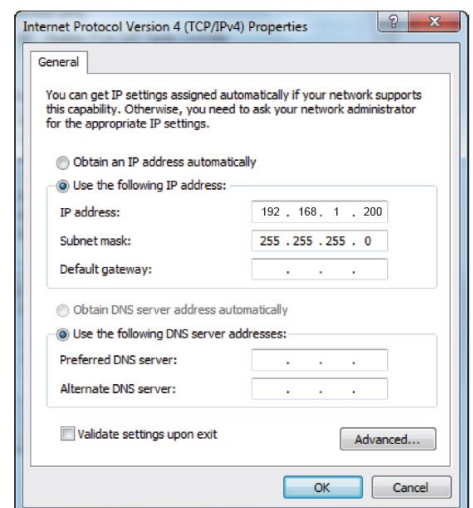
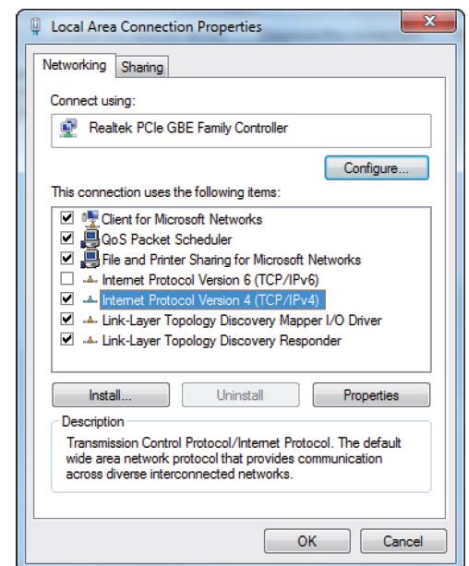
Choose one of the following **User Name** and **Password** combinations. Note that the **User** account can only access the Status and Video pages, while the **Admin** account can access all six pages.

User Name: **Admin**

Password: **admin**

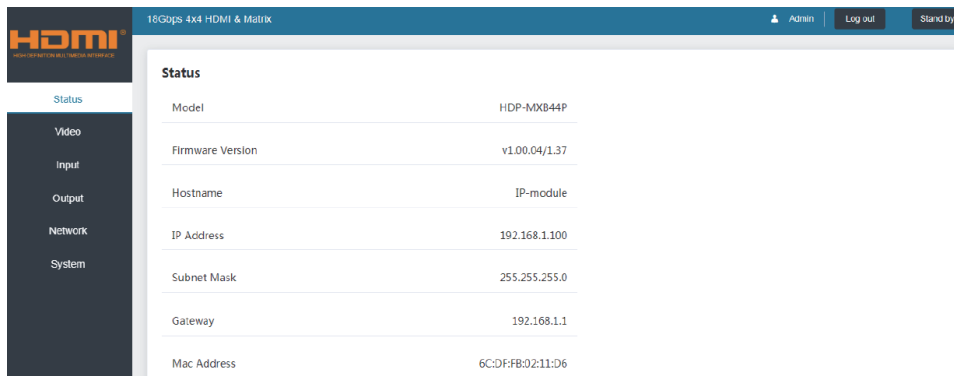
User Name: **User**

Password: **user**



After typing in the **User Name** and **Password**, click the **LOGIN** button to continue.

D. STATUS PAGE

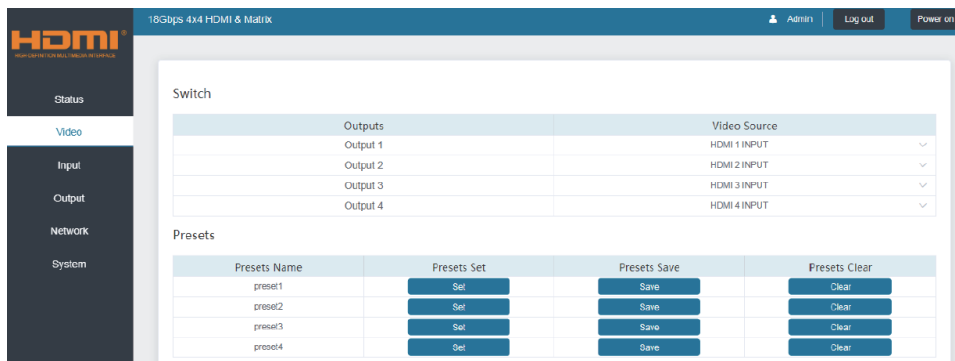


The **Status Page** shows basic information about the model name, firmware version, and network settings. This screen can be seen by both the **Admin** and **User** accounts.

The two buttons in the upper right corner of the screen are available on all pages and perform the following functions.

- **Log Out** – logs the user out of the Web GUI.
- **Power/Standby** – use the button to turn the matrix on or to put it into standby mode. The text on the button changes to show which function it will perform when pressed.

E. VIDEO PAGE



The **Video Page** allows you to set the input for each output and to manage the presets.

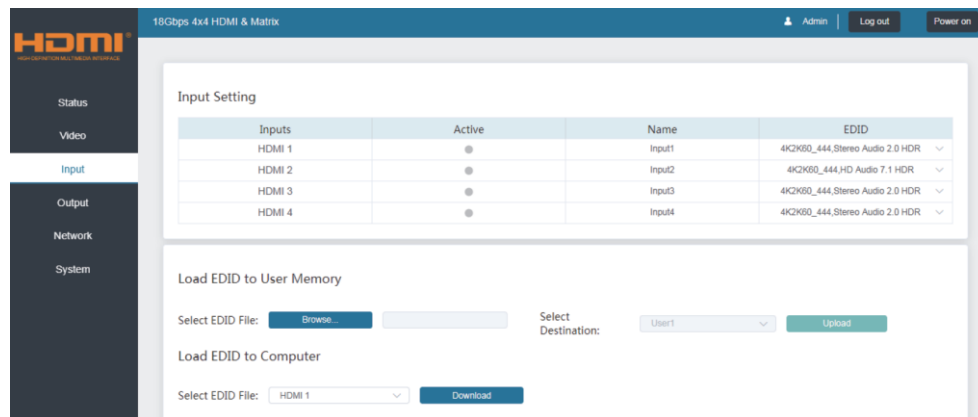
- To change the input for any given output, click the **V** to the right of the **Video Source** in the **Switch** section, then select the desired input from the list.

Presets are combinations of Input/Output selections that can be saved and loaded as a group. The matrix can store up to four presets.

- **Save a preset** – click the **Save** button in the **Presets Save** column for the desired preset in the **Presets** section.
- **Load a preset** – click the **Set** button in the **Presets Set** column for the desired preset in the **Presets** section.

- **Delete a preset** – click the **Clear** button in the **Presets Clear** column for the desired preset in the **Presets** section.

F. INPUT PAGE



The **Input Page** displays information about which inputs are connected and have an active signal. It also allows you to give more meaningful names to the inputs, as well as manage the EDID® settings.

To change the EDID settings for an individual input, click the **V** to the right of the input in the **Input Setting** section, then select one of the EDID settings from the list. Following is a list of all available EDID settings:

1080P, Stereo Audio 2.0
 1080P, Dolby/DTS 5.1
 1080P, HD Audio 7.1
 1080I, Stereo Audio 2.0
 1080I, Dolby/DTS 5.1
 1080I, HD Audio 7.1
 3D, Stereo Audio 2.0
 3D, Dolby/DTS 5.1
 3D, HD Audio 7.1
 4K2K30Hz_444 Stereo Audio 2.0
 4K2K30Hz_444 Dolby/DTS 5.1
 4K2K30Hz_444 HD Audio 7.1
 4K2K60Hz_420 Stereo Audio 2.0
 4K2K60Hz_420 Dolby/DTS 5.1
 4K2K60Hz_420 HD Audio 7.1
 4K2K60Hz_444 Stereo Audio 2.0
 4K2K60Hz_444 Dolby/DTS 5.1
 4K2K60Hz_444 HD Audio 7.1
 4K2K60Hz_444 Stereo Audio 2.0 HDR
 4K2K60Hz_444 Dolby/DTS 5.1 HDR

4K2K60Hz_444 HD Audio 7.1 HDR

USER_1

USER_2

COPY_FROM_TX_1

COPY_FROM_TX_2

COPY_FROM_TX_3

COPY_FROM_TX_4

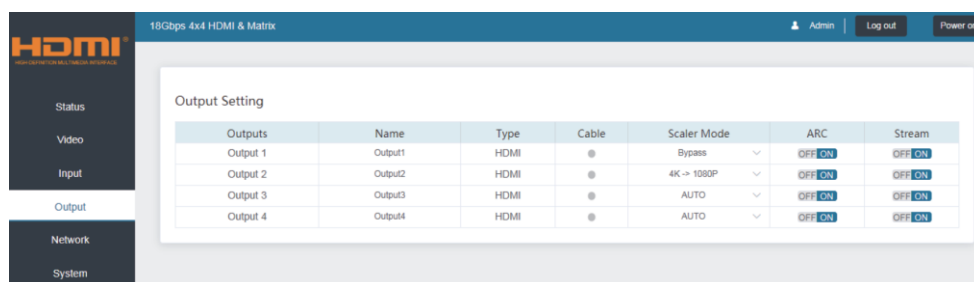
Perform the following steps to load a binary file with EDID® settings to the **User 1** or **User 2** memories.

1. Click **Browse** in the **Load EDID to User Memory** section, then locate and select your EDID file.
2. Use the pull-down list box to the right of **Select Destination** to select either the **User 1** or **User 2** memory.
3. Click the **Upload** button.

Perform the following steps to save the EDID settings from any input to a file on your computer.

1. Use the **Select EDID File** pull-down list box in the **Load EDID to Computer** section to select one of the inputs or either the **User 1** or **User 2** settings.
2. Click the **Download** button, then browse to the desired location and create a filename.

G. OUTPUT PAGE



The **Output Page** allows you to change the names of the outputs to more meaningful names and displays the connection status of each output.

Use the pull-down list box in the **Scaler Mode** column to set the scaler status for each output. The **Bypass** setting turns the scaler off, while the **4K → 1080p** selection forces the scaler to downscale the signal to 1080p. The **AUTO** selection turns the scaler on or off, depending on the display capabilities.

Click the slider in the **ARC** column to turn the Audio Return Channel (ARC) feature on or off for each output. When **ARC** is on, the audio from the display is redirected to the digital coaxial audio output. This is useful if you are watching broadcast TV or using an app on your smart TV.

Click the slider in the **Stream** column to enable (**ON**) or disable (**OFF**) the output signal for each output.

H. NETWORK PAGE

The screenshot shows the 'Network' page of the HDMI Matrix web interface. The left sidebar has a dark blue header with the HDMI logo and a menu with 'Status', 'Video', 'Input', 'Output', 'Network' (highlighted), and 'System'. The main content area is titled '18Gbps 4x4 HDMI & Matrix' and includes a user profile 'Admin' with 'Log out' and 'Power on' buttons. The 'IP Settings' section has a 'Mode' toggle set to 'Static' (with 'DHCP' as an option). Below this are input fields for 'IP Address' (192.168.1.100), 'Gateway' (192.168.1.1), 'Subnet Mask' (255.255.255.0), and 'Telnet Port' (23). The 'Web Login Settings' section has a 'Username' toggle set to 'User' (with 'Admin' as an option), and fields for 'Old Password', 'New Password', 'Confirm', and 'Password'. A 'Product Model' field is set to 'HDP-MXB44P'. At the bottom are 'Set Network Defaults' and 'Save' buttons.

The **Network Page** allows you to configure the network settings for the matrix. Note that the IP address fields are only available when the **Mode** is set to **Static**.

You can also change the passwords for the **User** and **Admin** accounts, as well as the **Product Model** name.

I. SYSTEM PAGE

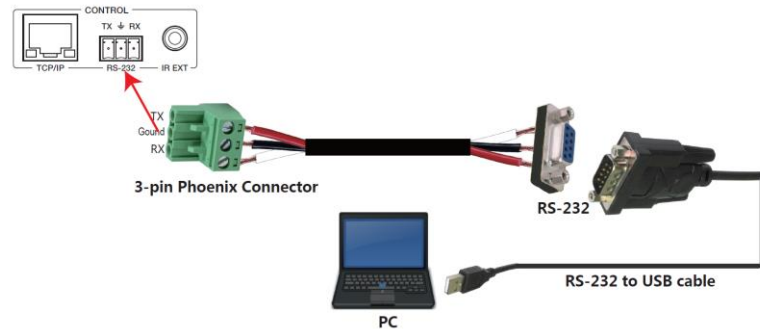
The screenshot shows the 'System' page of the HDMI Matrix web interface. The left sidebar is the same as the Network page, with 'System' highlighted. The main content area has a 'Panel Lock' toggle set to 'OFF' (with 'ON' as an option). Below is a 'Beep' toggle set to 'ON' (with 'OFF' as an option). The 'Serial Baud Rate' section shows a list of options: 4800, 9600, 19200, 38400, 57600, and 115200, with 115200 selected. The 'Firmware Update' section has a 'Browse...' button, an 'Update' button, a 'Factory Reset' button, and a 'Reboot' button.

The System Page allows you to perform various system functions.

- When **Panel Lock** is set to **ON**, the front panel buttons are disabled.
- When **Beep** is set to **ON**, the buttons will cause an audible beep when pressed.
- The **Serial Baud Rate** setting sets the communications rate for the RS-232 connection.
- To update the firmware, use the **Browse** button in the **Firmware Update** section to locate and select the update file, then click the **Update** button.
- Click the **Reset** button to reset all matrix settings to their factory default values.
- Click the **Reboot** button to reboot the matrix.

RS-232 CONTROL

The matrix can also be controlled by a computer using RS-232 commands input into an RS-232 command application. To connect your computer to the matrix, use the included 3-pin Euroblock connector to build a USB to RS-232 cable, as shown in the following diagram.



The following are the default communications parameters:

Baud Rate:	115200
Data Bits:	8
Parity:	None
Stop Bits:	1
TCP/IP Port:	8000

Following are some important notes about RS-232 commands:

- All commands must be terminated with an exclamation mark (!). Any carriage returns after the (!) will be ignored.
- All spaces in the command are required.
- All response messages are terminated with a CR/LF sequence.
- When all four inputs or outputs are requested by a command, the response will report each input or output on a separate line.
- The x, y, z, and xxx in the command are parameters.

Power Commands		
Command	Description	Feedback
s power z!	Turns the matrix on or off, z=0,1 (0=off, 1=on).	power on System Initializing... Initialization Finished! power off
r power!	Reports the current power state.	power on power off
s reboot!	Reboots the matrix	Reboot... System Initializing... Initialization Finished!

System Commands		
help!	Lists all commands.	
r type!	Display the model name.	HDP-MXB44P
r status!	Displays the current matrix status.	Get the unit all status: power, beep, lock, in/out connection, video/audio crosspoint, edid, scaler, hdcp, network status
r fw version!	Displays the firmware version.	MCU FW Version: x.xx.xx
r link in x!	Displays the connection status of input x. x=0~4, (0=all).	HDMI IN1: connect
r link out x!	Displays the connection status of output x. x=0~4, (0=all).	HDMI OUT1: connect
s reset!	Reset the matrix to the factory default settings.	Reset to factory defaults System Initializing... Initialization Finished!
s beep z!	Turns the button beep on or off. z=0~1, (0=off, 1=on).	beep on beep offs
s lock z!	Turns the front panel button lock on or off. z=0~1, (0=off, 1=on).	panel button lock on panel button lock off
r lock!	Displays the button lock status.	panel button lock on/off
s save preset z!	Saves the current switching state between all inputs and outputs to preset z. z=1~8.	save to preset 1
s recall preset z!	Loads preset z. z=1~8.	recall from preset 1
s clear preset z!	Deletes preset z. z=1~8.	clear preset 1
r preset z!	Displays preset z settings. z=1~8.	video/audio crosspoint
s baud rate z!	Sets the serial communications speed. z=115200, 57600, 38400, 19200, 9600, 4800.	Baudrate: 115200
r baud rate!	Displays the current serial communications speed	Baudrate: 115200
s id z!	Sets the control ID. z=000~999.	id 888
Output Commands		
s in x av out y!	Sets input x to output y. x=1~4, y=0~4, (0=all).	input 1 -> output 2
r av out y!	Displays the signal status for output y. y=0~4, (0=all).	input 1 -> output 1 input 2 -> output 2 input 4 -> output 4

s out y stream z!	Enables or disables the stream for output y. y=0~4, (0=all), z=0~1, (0=disabled, 1=enabled).	Enable out 1 stream Disable out 1 stream
r out y stream!	Displays the stream status for output y. y=0~4, (0=all).	Enable out 1 stream
s hdmi y scaler z!	Sets the HDMI® scaler mode for output y. y=0~4, (0=all), z=1-3, (1=bypass, 2=4K->1080p, 3=auto).	hdmi 1 set to bypass mode
r hdmi y scaler!	Displays the HDMI scaler mode for output y. y=0~4, (0=all).	hdmi 1 set to bypass mode
s hdmi y hdcp z!	Sets the HDCP™ status for output y. y=0~4, (0=all), z=0~1, (0=off, 1=active).	hdmi 1 hdcp active
r hdmi y hdcp!	Displays the HDCP status for output y. y=0~4, (0=all).	hdmi 1 hdcp active
Audio Commands		
s hdmi y arc z!	Turns ARC on or off for output y. y=0~4, (0=all), z=0~1, (0=off, 1=on).	hdmi output 1 arc on hdmi output 1 arc off
r hdmi y arc!	Displays the ARC status for output y. y=0~4, (0=all).	hdmi out1 arc on
EDID Commands		
r edid in x!	Displays the EDID® status for input x. x=0~4, (0=all).	IN1 EDID: 4K2K60_444, Stereo Audio 2.0 IN2 EDID: 4K2K60_444, Stereo Audio 2.0 IN3 EDID: 4K2K60_444, Stereo Audio 2.0 IN4 EDID: 4K2K60_444, Stereo Audio 2.0
r edid data hdmi y!	Displays the EDID® status for output y. y=0~4, (0=all).	EDID: 00 FF FF FF FF FF FF 00
s edid in x from z!	Sets the EDID for input x to default EDID z. x=0~4, (0=all), z=1~23 1. 1080p, Stereo Audio 2.0 2. 1080p, Dolby/DTS 5.1 3. 1080p, HD Audio 7.1 4. 1080i, Stereo Audio 2.0 5. 1080i, Dolby/DTS 5.1 6. 1080i, HD Audio 7.1 7. 3D, Stereo Audio 2.0 8. 3D, Dolby/DTS 5.1 9. 3D, HD Audio 7.1 10. 4K2K30_444, Stereo Audio 2.0 11. 4K2K30_444, Dolby/DTS 5.1	IN1 EDID: 1080p, Stereo Audio 2.0

	12. 4K2K30_444,HD Audio 7.1 13. 4K2K60_420,Stereo Audio 2.0 14. 4K2K60_420,Dolby/ DTS 5.1 15. 4K2K60_420,HD Audio 7.1 16. 4K2K60_444,Stereo Audio 2.0 17. 4K2K60_444,Dolby/ DTS 5.1 18. 4K2K60_444,HD Audio 7.1 19. 4K2K60_444,Stereo Audio 2.0 HDR 20. 4K2K60_444,Dolby/ DTS 5.1 HDR 21. 4K2K60_444,HD Audio 7.1 HDR 22. USER1 23. USER2 24. Copy_From_Hdmi_Tx_1 25. Copy_From_Hdmi_Tx_2 26. Copy_From_Hdmi_Tx_3 27. Copy_From_Hdmi_Tx_4	
Network Commands		
r ipconfig!	Displays the current IP configuration	IP Mode: Static, IP: 192.168.1.72, Subnet Mask: 255.255.255.0, Gateway: 192.168.1.1, Mac address: 00:1C:91:03:80:01, TCP/IP port=8000, telnet port=10
r mac addr!	Displays the MAC address	Mac address: 00:1C:91:03:80:01
s ip mode z!	Sets the network IP mode to Static or DHCP. z=0~1, (0=Static, 1=DHCP).	Set IP mode: Static. Please use "s net reboot!" command or repower device to apply new config!
r ip mode!	Displays the current IP mode.	IP mode: Static
s ip addr xxx. xxx.xxx.xxx!	Sets the network IP address.	Set IP address: 192.168.1.100 Please use "s net reboot!" command or repower device to apply new config! DHCP on, Device can't config static address, set DHCP off first.
r ip addr!	Displays the IP address.	IP address: 192.168.1.100
s subnet xxx. xxx.xxx.xxx!	Sets the network subnet mask.	Set subnet Mask: 255.255.255.0 Please use "s net reboot!" command or repower device to apply new config! DHCP on, Device can't config subnet mask, set DHCP off first.

r subnet!	Displays the current network subnet mask.	Subnet Mask: 255.255.255.0
s gateway xxx.xxx.xxx. xxx!	Sets the network gateway.	Set gateway: 192.168.1.1 Please use "s net reboot!" command or repower device to apply new config! DHCP on, Device can't config gateway, set DHCP off first.
r gateway!	Displays the current network gateway.	Gateway:192.168.1.1
s tcp/ip port x!	Sets the network TCP/IP port. x=1~65535.	Set tcp/ip port:8000
r tcp/ip port!	Displays the current network TCP/IP port.	tcp/ip port:8000
s telnet port x!	Sets the network telnet port. x=1~65535.	Set telnet port:23
r telnet port!	Displays the current network telnet port.	telnet port:23
s net reboot!	Reboots the network modules.	Network reboot... IP Mode: Static IP: 192.168.1.72 Subnet Mask: 255.255.255.0 Gateway: 192.168.1.1 Mac address: 00:1C:91:03:80:01 TCP/IP port=8000 telnet port=10

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 problems with your order, please allow us to make it right. You can contact a Monoprice Customer Service representative through the Live Chat link on our website **www.monoprice.com** or via email at **support@monoprice.com**. Check the website for support times and links.

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** or through email by sending a message to **tech@monoprice.com**. Check the website for support times and links.

To download the latest drivers, firmware, manuals, etc., go to **www.monoprice.com** and type **15750** into the search bar. If available, support files are linked at the bottom of the product page.

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 to 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 ISED 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.

DISPOSAL AND RECYCLING INFORMATION



The symbol indicates that this product should be disposed of separately from regular household waste streams. It is your responsibility to dispose of this and other electrical and electronic products via designated collection facilities appointed by the government or local authorities. Correct disposal and recycling will help prevent potential negative consequences to the environment and human health. For more detailed information about the disposal of your unwanted product, please contact your local authorities, waste disposal service, or the shop where you purchased the product.

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