



4K60 4x4 HDMI Matrix over CAT - 70m



G4-0159A

P/N: Matrix44HD2CAT

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For technical support, email us at support@gofanco.com.

For drivers or manual download, please go to www.gofanco.com/downloads.

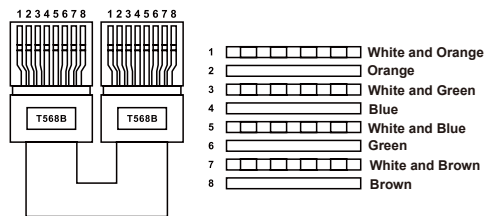
Important Safety Notices

Please read safety instructions carefully before installation and operation.

- Please pay close attention to all warnings and hints for this device.
- Do not expose this unit to rain, heavy moisture, or liquid.
- Do not put any items into the device or attempt to modify its operation.
- Do not repair the device or open the enclosure without professional guidance to avoid electric shocks. Doing so may void your warranty.
- Keep the product in a well-ventilated location to avoid damage from overheating.
- Shut off power and make sure environment is safe before installation.
- Do not plug the HDMI cables and IR cables in/out when the device is in use to avoid cable damage. Make sure they are plugged into the correct ports.
- Use the included power adapters only. Make sure the specification matches if using 3rd-party DC power adapters.

Important Safety Notices Continued

- This product contains sensitive electrical components that may be damaged by electrical spikes, surges, electric shock, lightning strikes, etc. Use of surge protection systems is highly recommended in order to protect and extend the life of your equipment.
- The product requires the use of UTP connectors. Please connect in direct interconnection method and do not cross connect.



Direct Interconnection Method

Introduction

The 18Gbps 4x4 HDMI Matrix can connect four HDMI sources to eight displays. It features four HDMI outputs and each HDMI output is mirrored with a CAT-Cable output which runs simultaneously. It supports video transmission up to 1080p Full HD and 4K @60Hz 4:4:4 and supports HD digital audio formats such as LPCM 7.1CH, Dolby TrueHD, Dolby Digital Plus and DTS-HD Master Audio. Connect a CAT Receiver to each of the CAT-Cable outputs to extend HDMI signals up to 230ft/70m for multi-room connectivity. Each HDMI output supports 4K to 1080P downscaling independently. This product supports one-way IR matrix function and can be controlled via front panel buttons, IR remote, RS-232, LAN, and Web GUI.

Features

- Select and switch between any of 4 HDMI sources to any of the 4 HDMI displays simultaneously!
- 4 HDMI inputs, 4 CAT6/7 & 4 HDMI mirrored outputs
- Supports up to 4K @60Hz (YUV 4:4:4) on all HDMI & CAT6/7 outputs, 18Gbps video bandwidth, and HDCP 2.2/1.4 compliant
- CAT6/7 outputs: Extends data transmission up to 70m (230ft)
- Supports 4K to 1080p downscaling on each output port
- HDR, HDR10, HDR10+, Dolby Vision, and HLG are supported
- HDMI audio pass-through up to 7.1ch HD audio (LPCM, Dolby TrueHD, DTS-HD Master Audio)
- Advanced features: 12V PoC (TX to RX's), EDID management, one-way IR passthrough, CEC (HDMI outputs only)
- Controllable by Web GUI, front panel buttons, IR remote, and RS232

Installation Requirements

- HDMI source devices (DVD player, set top box, PC, etc.)
- HDMI displays (SDTV/Monitor, HDTV/Monitor, projector, etc.)
- HDMI cables (not included)
- CAT cables (not included)

Package Contents

- 1x 18Gbps 4x4 HDMI Matrix
- 4x CAT Receivers
- 1x Matrix IR Remote
- 1x 12V/2.5A Power Supply
- 1x RS-232 serial Cable (1.5 meters, male to female head)
- 1x 3-pin Phoenix Connector
- 4x IR Blaster Cable (1.5 meters)
- 4x IR Receiver Cable (1.5 meters)
- 10x Mounting Ears (Matrix and Receivers)
- 1x User Manual

Product Layout

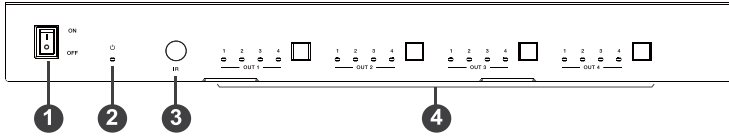


Figure 1: Matrix Layout (Front)

1. Power Switch
2. Power LED
3. IR Window
4. OUTPUT Buttons 1-4 & Source LEDs 1-4

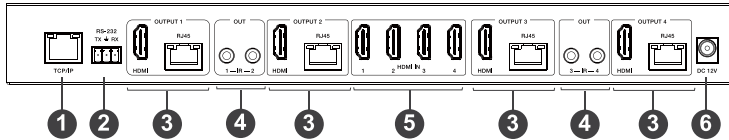


Figure 2: Matrix Layout (Back)

1. OUTPUT Ports 1-4
2. IR OUTPUTS 1-4
3. HDMI INPUTS 1-4
4. IR OUTPUTS 1-4
5. HDMI INPUTS 1-4
6. DC 12V

Product Layout Continued

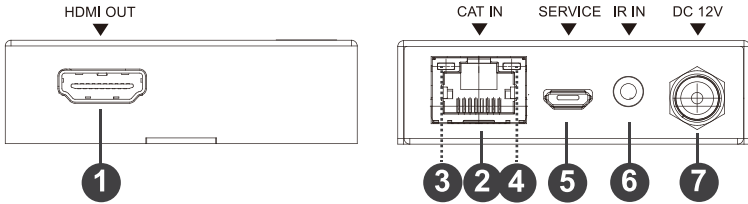


Figure 3: Receiver Layout

1. HDMI OUTPUT
2. CAT INPUT
3. Power Indicator LED (Green)
4. Data signal Indicator LED (Orange)
5. SERVICE Port
6. IR INPUT
7. DC 12V

Product Layout Continued

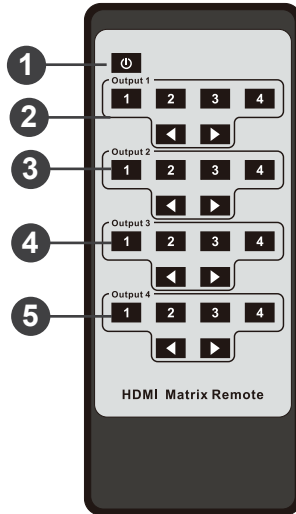


Figure 4: IR Remote Layout

1. Power on or Standby: Power on the Matrix or set it to standby mode.
 2. Output 1: Press 1/2/3/4 button to select input source for HDMI OUTPUT 1. Output 2: Press 1\2\3\4 button to select input source for HDMI OUTPUT 2.
 3. Output 2: Press 1/2/3/4 button to select input source for HDMI OUTPUT 2.
 4. Output 3: Press 1/2/3/4 button to select input source for HDMI OUTPUT 3.
 5. Output 4: Press 1/2/3/4 button to select input source for HDMI OUTPUT 4.
- ◀▶ Select the previous or next input source.

Specifications

Technical

HDMI Compliance	HDMI 2.0b
HDCP Compliance	HDCP 2.2/1.x
Video Bandwidth	18Gbps
Video Resolution	Up to 4K2K@50/60Hz (4:4:4)
Color Space	RGB 4:4:4, YCbCr 4:4:4/4:2:2/4:2:0
Color Depth	8-bit, 10-bit, 12-bit (1080p@60Hz) 8-bit (4K2K@60Hz YUV4:4:4) 8-bit, 10-bit, 12-bit (4K2K@60Hz YCbCr 4:2:2/4:2:0)
HDR	HDR10, HDR10+, Dolby Vision, HLG
HDMI Audio Formats	LPCM 2.0/2.1/5.1/6.1/7.1, Dolby Digital, Dolby TrueHD, Dolby Digital Plus (DD+), DTS-ES, DTS HD Master, DTS HD-HRA, DTS-X
Transmission Distance	230ft / 70m (via a single CAT6 cable)
ESD Protection	IEC 61000-4-2: ±8kV (Air-gap discharge) , ±4kV (Contact discharge)

Specifications Continued

Connections

Matrix	Inputs: 4x HDMI Type A [19-pin female] Outputs: 4x HDMI Type A [19-pin female] 4x CAT port [RJ45] 4x IR OUT [3.5mm Stereo Mini-jack] Controls: 1 x TCP/IP [RJ45] 1x RS-232 [3-pin phoenix connector]		
CAT Receiver	Inputs: 1x IR IN [3.5mm Stereo Mini-jack] 1x CAT port [RJ45] Output: 1x HDMI Type A [19-pin female] Control: 1x SERVICE [Micro USB, Update port]		
Resolution / Cable length	4K60 - Feet / Meters	4K30 - Feet / Meters	1080P60 - Feet / Meters
HDMI IN / OUT	16ft / 5M	32ft / 10M	50ft / 15M

The use of "Premium High Speed HDMI" cable is highly recommended.

Specifications Continued

Mechanical

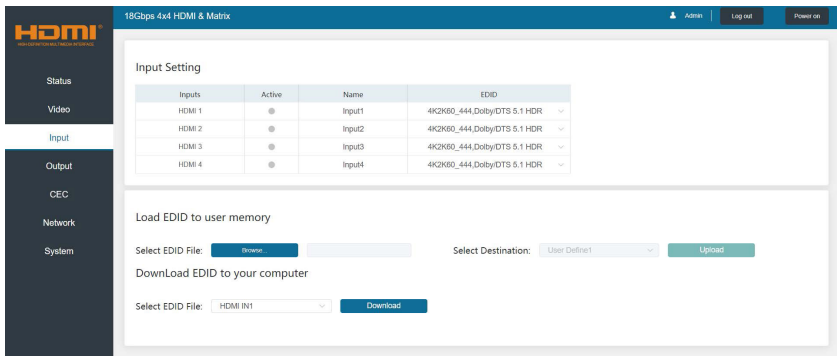
Housing	Metal Enclosure
Color	Black
Dimensions	Matrix: 320mm (W) × 100mm (D) × 36mm (H) Receiver: 61mm (W) × 88mm (D) × 18mm (H)
Weight Matrix:	915g, Receiver: 155g
Power Supply	Input: AC 90 - 260V 50/60Hz Output: DC 12V/2.5A (US/EU standards, CE/FCC/UL certified)
Power Consumption	19.68W (Max)
Operating Temperature	0°C ~ 40°C / 32°F ~ 104°F
Storage Temperature	-20°C ~ 60°C / -4°F ~ 140°F
Relative Humidity	20~90% RH (non-condensing)

EDID Settings

This Matrix has 21 factory predefined EDID settings, 2 user-defined EDID modes and 8 copy EDID modes. You can select from the predefined EDID modes or EDID copy modes to input ports through RS-232 control or Web GUI.

RS-232 control operation: Connect the Matrix to PC with a serial cable, then open a Serial Command tool on PC to send ASCII commands “s edid in x from z!” to set EDID. For details, please refer to “RS-232 Control Command” starting on page 29.

Web GUI Operation: Please check EDID management in the “Input page” of “Web GUI User Guide” starting on page 18.



EDID Settings Continued

The predefined EDID settings are shown below.

EDID Mode	EDID Description
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
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, Stereo Audio 2.0 HDR
20	4K2K60, Dolby/DTS 5.1 HDR
21	4K2K60, HD Audio 7.1HDR
22	User Define1
23	User Define2
24	COPY_FROM_HDMI 1
25	COPY_FROM_HDMI 2
26	COPY_FROM_HDMI 3
27	COPY_FROM_HDMI 4
28	COPY_FROM_CAT 1
29	COPY_FROM_CAT 2
30	COPY_FROM_CAT 3
31	COPY_FROM_CAT 4

IR Control

This product supports one-way IR matrix function. With the Matrix connected to CAT Receivers, you can control the input source devices (matrix end) by the IR control signal from the CAT receivers (remote end). Please see the following connection diagram as an example.

(A) HDMI output signal on CAT Receiver 1 is from HDMI INPUT 1. The IR input signal from CAT Receiver 1 will emit to IR output 1 of the Matrix.

(B) HDMI output signal on CAT Receiver 3 is from HDMI INPUT 2. The IR input signal from CAT Receiver 3 will emit to IR output 2 of the Matrix.

NOTE: Please use the IR remotes of your source devices for IR extension.

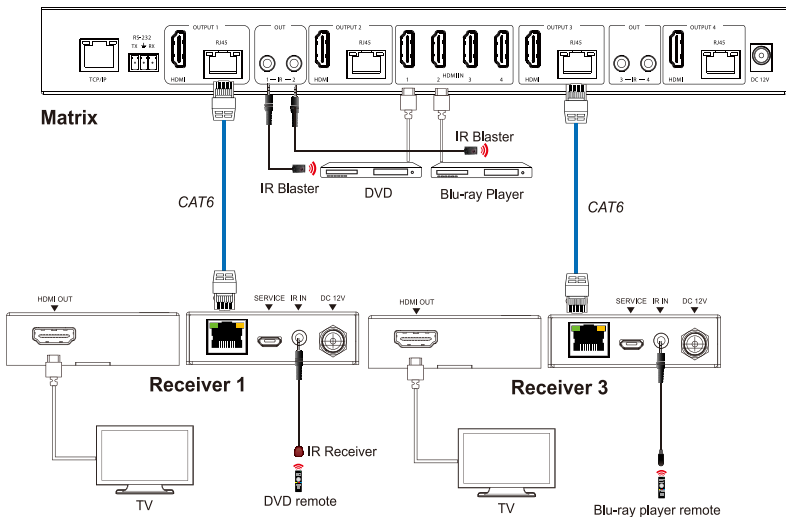
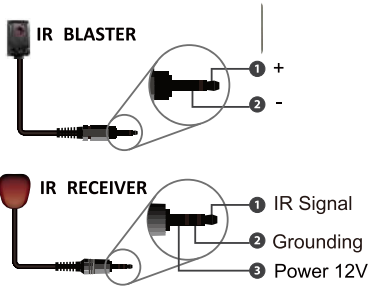
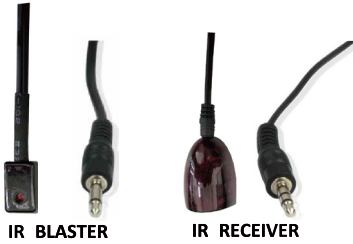


Figure 5: IR connection Diagram

IR Pin Definition



Hardware Installation

1. Power off all devices including your HDMI source devices and HDMI displays.
2. Connect your HDMI source devices to the Matrix's HDMI Input connectors with HDMI cables (cables not included).
3. Connect the CAT cables between the Matrix and CAT Receivers.
4. OPTIONAL: Connect HDMI displays to the HDMI Output connectors of the Matrix using HDMI cables (cables not included).
5. Connect an HDMI display to each CAT Receiver's HDMI Output with an HDMI cable (cables not included).
6. OPTIONAL: Connect the IR Receiver cables and the IR Emitter cable to the IR interface ports. This connection is needed if you need to control your HDMI devices from remote locations.
7. Plug the included 12V power adapter into the Matrix's power jack. The receivers are automatically powered by the Matrix over CAT cables.
8. Power on your HDMI source device and HDMI displays. The Matrix CAT Extender is ready for use.

Application Diagram

The application diagram shows the most typical input and output devices used with the Matrix CAT Extender.

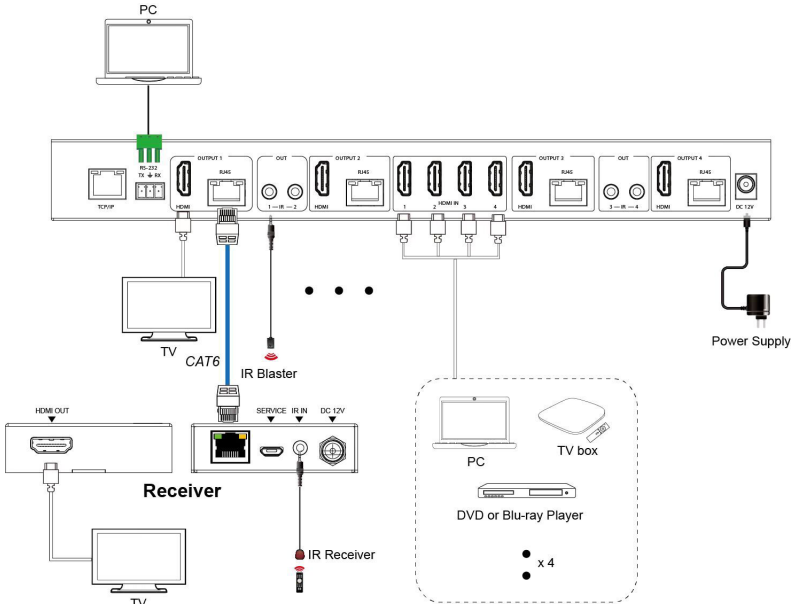


Figure 6: Application Diagram

Web GUI User Guide

The Matrix can be controlled by Web GUI. The operation method is shown as below:

Step 1: Get the current IP Address.

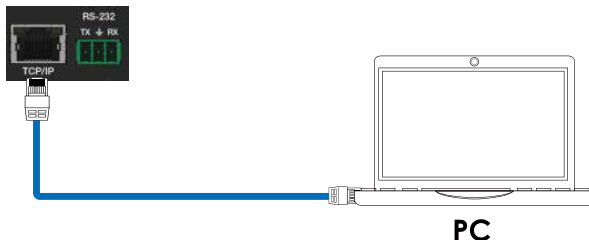
The default IP address is **192.168.1.100**. This IP address can change if installed on a DHCP switch/router/network. You can get the current Matrix IP address via RS-232 control. Send the ASCII command “r ipconfig!” through a Serial Command tool, then you’ll get the feedback information as shown below:

```
IP Mode: DHCP
IP: 192.168.2.209
Subnet Mask: 255.255.255.0
Gateway: 192.168.2.1
TCP/IP port=8000
Telnet port=23
Mac address: 6C:DF:FB:07:1C:E2
```

The IP address 192.168.2.209 in the above figure is the current Matrix IP address. This IP address is variable, depending on what the specific machine returns.

For the details of RS-232 control, please refer to “RS-232 Control Command” starting on page 29.

Step 2: Connect the TCP/IP port of the Matrix to a PC with an UTP cable (as shown in the following figure), and set the IP address of the PC to be in the same network segment with the Matrix.



Web GUI User Guide Continued

Step 3: Input the current IP address of Matrix into your browser on the PC to enter Web GUI page.



After entering the Web GUI page, there will be a Login page, as shown below:



Select the Username from the list and enter the password. The default passwords are:

Username **User Admin**

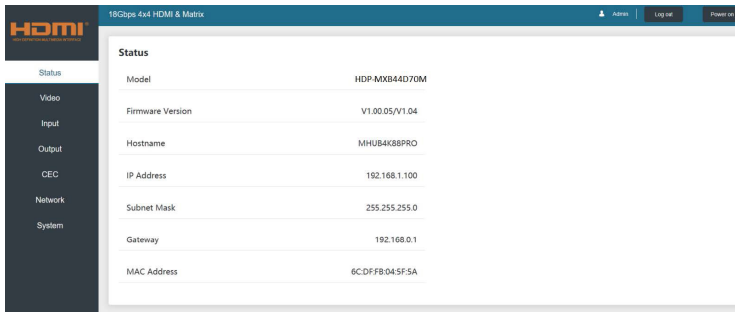
Password **user admin**

After entering the password, click the "LOGIN" button and the following Status page will appear.

Web GUI User Guide Continued

Status Page

The Status page provides basic information about the product model, installed firmware version and the network settings of the device.

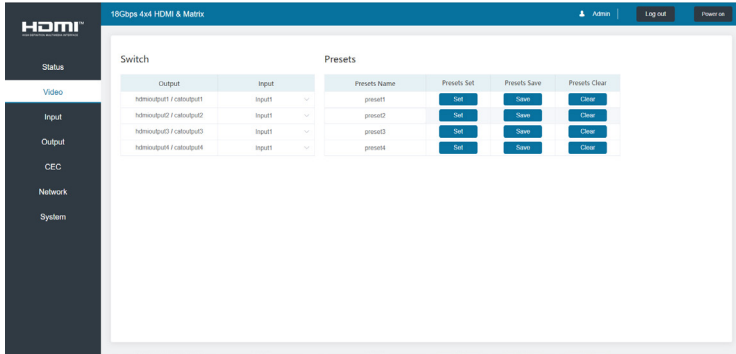


The screenshot displays the web GUI for an HDMI device. The top navigation bar includes the HDMI logo, the device model '18Gbps 4x4 HDMI & Matrix', and user controls for 'Admin', 'Log out', and 'Power on'. A left sidebar contains menu items: 'Status' (highlighted), 'Video', 'Input', 'Output', 'CEC', 'Network', and 'System'. The main content area is titled 'Status' and contains a table with the following data:

Property	Value
Model	HDP-MXB44D70M
Firmware Version	V1.00.05/V1.04
Hostname	MHUB4K88PRO
IP Address	192.168.1.100
Subnet Mask	255.255.255.0
Gateway	192.168.0.1
MAC Address	6CDFFB045F5A

Web GUI User Guide Continued

Video Page

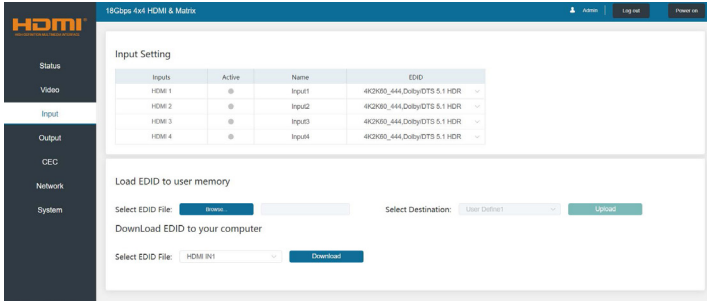


You can do the following operations on the Video page:

- 1. Output:** The current device's OUTPUT port. You can select the signal source for it.
- 2. Input:** You can click the drop-down menu to select signal source for the corresponding OUTPUT port .
- 3. Presets Name:** You can name the current scene with maximum length of 12 characters (Chinese characters are not supported).
- 4. Presets Set:** You can restore the settings of the last saved audio-video matrix switching relationship.
- 5. Presets Save:** You can save audio-video matrix switching relationship.
- 6. Presets Clear:** You can clear the saved audio-video matrix switching relationship.

Web GUI User Guide Continued

Input Page



You can do the following operations on the Input page:

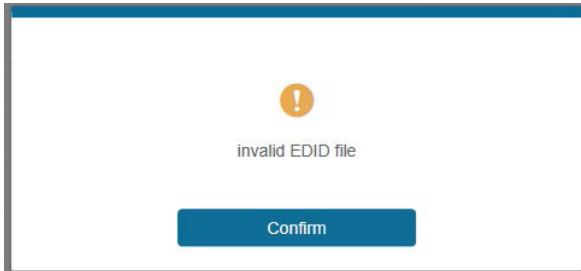
- 1. Inputs:** Input channel of the device.
- 2. Active:** Indicates whether the channel is connected to a signal source.
- 3. Name:** The input channel's name. You can modify it by entering the corresponding name (max length: 12 characters) in the input box (Chinese characters are not supported).
- 4. EDID:** You can set the current channel's EDID.

Web GUI User Guide Continued

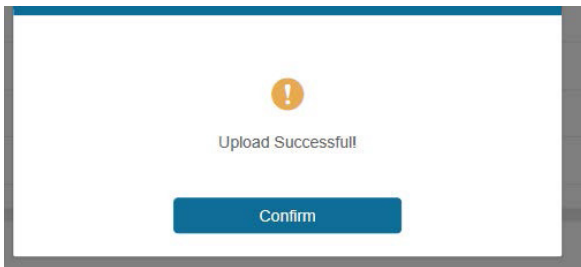
Input Page Continued

Set EDID for the User

Click the “Browse” button, then select the bin file. If you select the wrong EDID file, there will be a prompt, as shown in the following figure:



Make sure to select the correct file, then you can check the name of the selected file. Select “User 1” or “User 2”, then click “Upload”. After successful setting, it will prompt as follows:

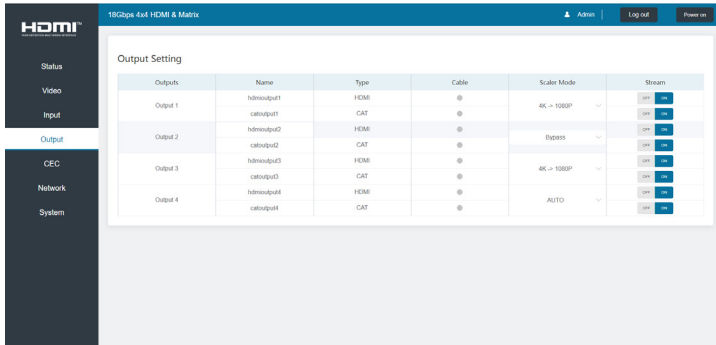


Download the EDID File for the Corresponding Input Channel

Click the drop-down box of “Select EDID File” to select the corresponding input channel. Then click “Download” to download the corresponding EDID file.

Web GUI User Guide Continued

Output Page

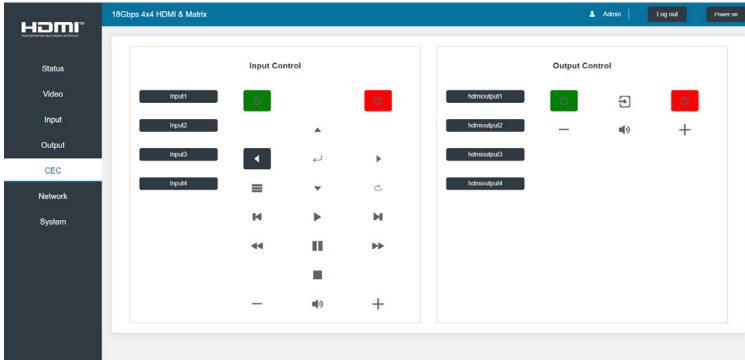


You can do the following operations on the Output page:

- 1. Outputs:** Output channel of the device.
- 2. Name:** The current output channel's name. You can modify it by entering the corresponding name (max length: 12 characters) in the input box (Chinese characters are not supported).
- 3. Type:** The current output channel's type (HDMI or CAT).
- 4. Cable:** Indicates the connection status of the output ports. When the output port is connected to the display, it shows green; Otherwise, it shows gray.
- 5. Scaler Mode:** Set the current output resolution mode.
- 6. Stream:** Turn on/off the output stream.

Web GUI User Guide Continued

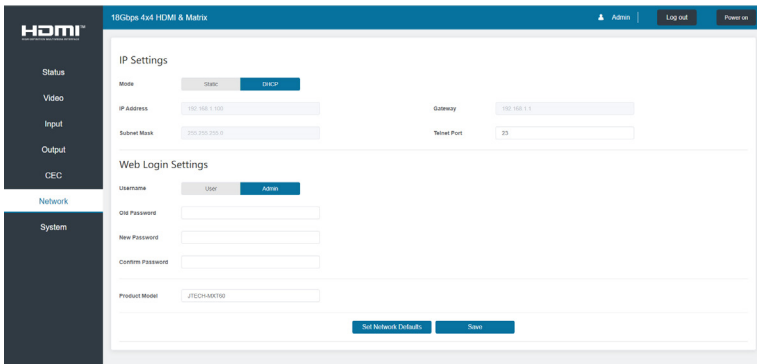
CEC Page



You can perform CEC management on this page:

- 1. Input Control:** You can control the operation of each input source by pressing the icons on the page. (You can control multiple inputs simultaneously.)
- 2. Output Control:** You can control the operation of each display, such as power on/off, volume +/-, active source switching. (You can control multiple outputs simultaneously.)

Network Page

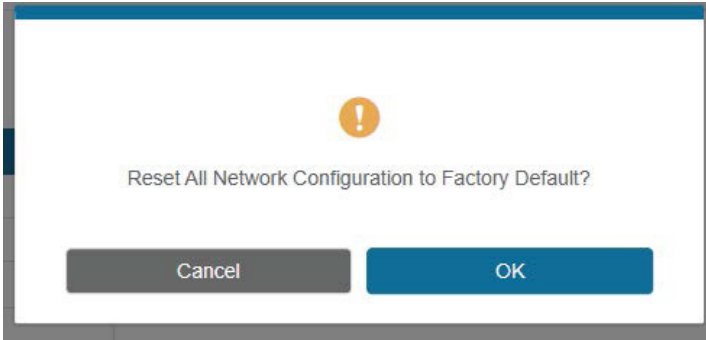


Web GUI User Guide Continued

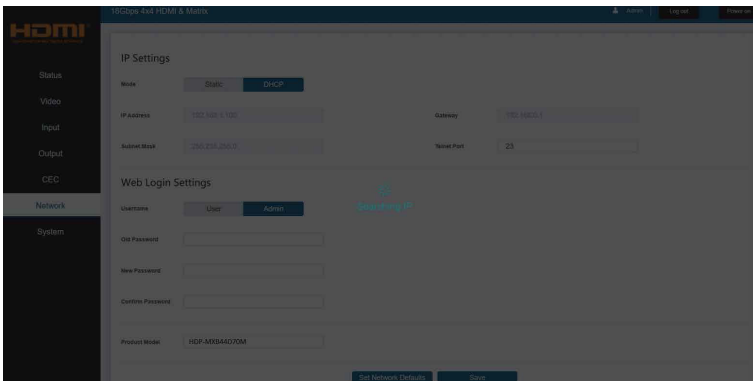
Network Page Continued

Set the Default Network

Click “Set Network Defaults” button, there will be a prompt, as shown in the following figure:



Click “OK” to search the IP Address again, as shown in the figure below.

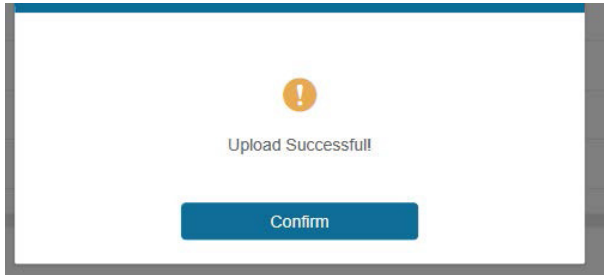


After searching is completed, it will switch to the login page, the default network setting is completed.

Web GUI User Guide Continued

Modify User Password

Click the “User” button, enter the correct Old Password, New Password, and Confirm Password, then click “Save”. After successful modification, there will be a prompt, as shown in the following figure:



Note: Input rules for changing passwords:

1. The password can't be empty.
2. New Password can't be the same as Old Password.
3. New Password and Confirm Password must be the same.

Modify Network Setting

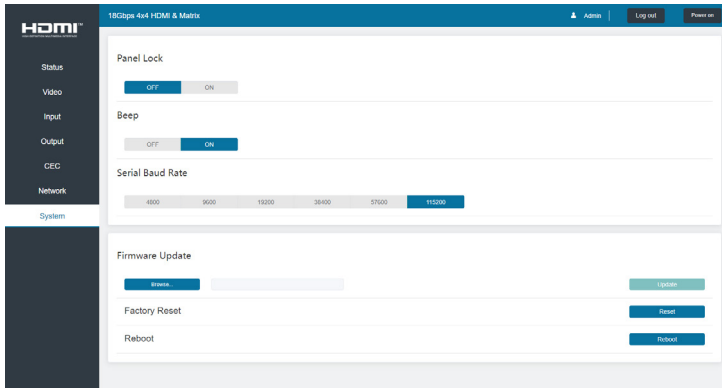
Modify the Mode/IP Address/Gateway/Subnet Mask/Telnet Port as required, click “Save” to save the settings, then it will come into effect. After modification, if the Mode is “Static”, it will switch to the corresponding IP Address; if the Mode is “DHCP”, it will automatically search and switch to the IP Address assigned by the router.

IP Settings

Mode	<input type="radio"/> Static <input checked="" type="radio"/> DHCP	Gateway	<input type="text" value="192.168.0.1"/>
IP Address	<input type="text" value="192.168.1.100"/>	Subnet Mask	<input type="text" value="255.255.255.0"/>
		Telnet Port	<input type="text" value="23"/>

Web GUI User Guide Continued

System Page



1. Panel Lock: Click to lock/unlock panel buttons. “ON” indicates that panel buttons are unavailable; “OFF” indicates panel buttons are available.

2. Beep: Click to turn on/off the beep.

3. Serial Baud Rate: Click the value to set the Serial Baud Rate.

4. Firmware Update: Click “Browse” to select the update file, then click “Update” to complete firmware update.

5. Factory Reset: You can reset the machine to factory defaults by clicking “Reset”.

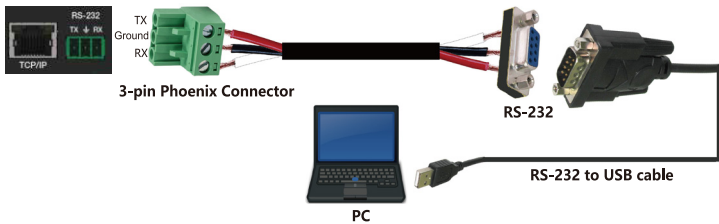
6. Reboot: You can reboot the machine by clicking “Reboot”.

Note: After reset/reboot, it will switch to the login page.

RS-232 Control Command

The product also supports RS-232 control. You need a serial cable with RS-232 phoenix connector and RS-232 male head. The RS-232 phoenix connector is connected to the Matrix, and the RS-232 male head of the serial cable is connected to the RS-232 female head of an RS-232 to USB cable, while the USB head of the RS-232 to USB cable is connected to a PC.

The connection method is as follows:



Then, open a Serial Command tool on PC to send ASCII command to control the Matrix. The ASCII command list about the product is shown as below (Next Page).

ASCII Command

Serial port protocol. Baud rate: 115200, Data bits: 8bit, Stop bits: 1, Check bit: 0

x - Parameter 1
y - Parameter 2
z - Parameter 3
! - Delimiter

Command Code	Function Description	Example	Feedback	Default Setting
Power				
s power z!	Power on/off the device,z=0~1 (z=0 power off, z=1 power on)	s power 1!	Power on System Initializing... Initialization Finished! FW version x.xx.xx	power on
r power!	Get current power state	r power!	power on/power off	
s reboot!	Reboot the device	s reboot!	Reboot... System Initializing... Initialization Finished! FW version x.xx.xx	

Command Code	Function Description	Example	Feedback	Default Setting
System Setup				
help!	List all commands	help!		
r type!	Get device model	r type!	HDP-MXB44D70M	
r status!	Get device current status	r status!	Get the unit all status: power, beep, lock, in/ out connection, video/ audio crosspoint, edid, scaler, hdcp, network status	
r fw version!	Get Firmware version	r fw version!	MCU BOOT:Vx.xx.xx MCU APP :Vx.xx.xx WEB GUI :Vx.xx	

Command Code	Function Description	Example	Feedback	Default Setting
System Setup				
r link in x!	Get the connection status of the x input port, x=0~4 (0=all)	r link in 1!	hdmi input 1: connect	
r link out y!	Get the connection status of the y output port, y=0~4 (0=all)	r link out 1!	hdmi output 1: connect	
s reset!	Reset to factory defaults	s reset!	Reset to factory defaults System Initializing... Initialization Finished! FW version x.xx.xx	
s beep z!	Enable/Disable buzzer function, z=0~1(z=0 beep off, z=1 beep on)	s beep 1!	beep on beep off	beep on
r beep!	Get buzzer state	r beep!	beep on / beep off	
s lock z!	Lock/Unlock front panel button, z=0~1 (z=0 lock off, z=1 lock on)	s lock 1!	panel button lock on panel button lock off	panel button lock off
r lock!	Get panel button lock state	r lock!	panel button lock on/off	
s save preset z!	Save switch state between all output port and the input port to preset z, z=1~4	s save preset 1!	save to preset 1	
s recall preset z!	Call saved preset z scenarios, z=1~4	s recall preset 1!	recall from preset 1	
s clear preset z!	Clear stored preset z scenarios, z=1~4	s clear preset 1!	clear preset 1	
r preset z!	Get preset z information, z=1~4	r preset 1!	video/audio crosspoint	

Command Code	Function Description	Example	Feedback	Default Setting
System Setup				
s baud rate xxx!	Set the serial port baud rate of RS02 module, z=(115200, 57600, 38400, 19200, 9600, 4800)	s baud rate 115200!	Baudrate: 115200	
r baud rate!	Get the serial port baud rate of RS02 module	r baud rate!	Baudrate: 115200	
s id z!	Set the control ID of the product, z=000~999	s id 888!	id 888	0

Command Code	Function Description	Example	Feedback	Default Setting
Output Setting				
s in x av out y!	Set input x to output y, x=1~4, y=0~4 (0=all)	s in 1 av out 2!	input 1 -> output 2	ptp
r av out y!	Get output y signal status y=0~4 (0=all)	r av out 0!	input 1 -> output 1 input 2 -> output 2 input 3 -> output 3 input 4 -> output 4	
s hdmi y stream z!	Set hdmi output y stream on/off, y=0~4 (0=all) z=0~1(0:disable, 1:enable)	s hdmi 1 stream 1! s hdmi 0 stream 1!	enable hdmi output 1 stream disable hdmi output 1 stream enable hdmi all outputs stream disable hdmi all outputs stream	enable
r hdmi y stream!	Get hdmi output y stream status, y=0~4 (0=all)	r hdmi 1 stream!	enable hdmi output 1 stream	

Command Code	Function Description	Example	Feedback	Default Setting
Output Setting				
s cat y stream z!	Set cat output y stream on/off, y=0~4 (0=all) z=0~1 (0:disable, 1:enable)	s cat 1 stream 1! s cat 0 stream 1!	enable cat output 1 stream disable cat output 1 stream enable cat all outputs stream disable cat all outputs stream	enable
r cat y stream!	Get cat output y stream status, y=0~4 (0=all)	r cat 1 stream!	enable cat output 1 stream	
s hdmi y scaler z!	Set hdmi output y port output scaler mode, y=0~4 (0=all), z=1~3 (1=bypass, 2=4k->1080p, 3=Auto)	s hdmi 1 scaler 1! s hdmi 0 scaler 1!	hdmi output 1 set to bypass mode hdmi all outputs set to bypass mode	hdmi all outputs set to bypass mode
r hdmi y scaler!	Get hdmi output y port output mode y=0~4 (0=all)	r hdmi 1 scaler!	hdmi output 1 set to bypass mode	

Command Code	Function Description	Example	Feedback	Default Setting
EDID Setting				
s edid in x from z!	Set input x EDID from default EDID z, x=0~4 (0=all), z=1~31 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 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, User define1 23, User define2 24, copy from hdmi output 1 25, copy from hdmi output 2 26, copy from hdmi output 3 27, copy from hdmi output 4 28, copy from cat output 1 29, copy from cat output 2 30, copy from cat output 3 31, copy from cat output 4	s edid in 1 from 1! s edid in 0 from 1!	input 1 EDID:1080p, Stereo Audio 2.0 all inputs EDID:1080p, Stereo Audio 2.0	1080p, Stereo Audio 2.0

Command Code	Function Description	Example	Feedback	Default Setting
<i>EDID Setting</i>				
r edid in x!	Get EDID status of the input x, x=0~4 (0=all input)	r edid in 0!	input1 EDID: 4K2K60_444,Stereo Audio 2.0 input2 EDID: 4K2K60_444,Stereo Audio 2.0 input3 EDID: 4K2K60_444,Stereo Audio 2.0 input4 EDID: 4K2K60_444,Stereo Audio 2.0	
r edid data hdmi y!	Get the EDID data of the hdmi output y port, y=1~4	r edid data hdmi 1!	EDID: 00 FF FF FF FF FF FF 00 hdmi output 1: disconnect	

Command Code	Function Description	Example	Feedback	Default Setting
<i>CEC Setting</i>				
s cec in x on!	Set input x power on by CEC, x=0~4 (0=all input)	s cec in 1 on!	input 1 power on	
s cec in x off!	Set input x power off by CEC, x=0~4 (0=all input)	s cec in 1 off!	input 1 power off	
s cec in x menu!	Set input x open menu by CEC, x=0~4 (0=all input)	s cec in 1 menu!	input 1 open menu	
s cec in x back!	Set input x back operation by CEC, x=0~4 (0=all input)	s cec in 1 back!	input 1 back operation	
s cec in x up!	Set input x menu up operation by CEC, x=0~4 (0=all input)	s cec in 1 up!	input 1 menu up operation	
s cec in x down!	Set input x menu down operation by CEC, x=0~4 (0=all input)	s cec in 1 down!	input 1 menu down operation	

Command Code	Function Description	Example	Feedback	Default Setting
<i>CEC Setting</i>				
s cec in x left!	Set input x menu left operation by CEC, x=0-4 (0=all input)	s cec in 1 left!	input 1 menu left operation	
s cec in x right!	Set input x menu right operation by CEC, x=0-4 (0=all input)	s cec in 1 right!	input 1 menu right operation	
s cec in x enter!	Set input x menu enter operation by CEC, x=0-4 (0=all input)	s cec in 1 enter!	input 1 menu enter operation	
s cec in x play!	Set input x play by CEC, x=0-4 (0=all input)	s cec in 1 play!	input 1 play operation	
s cec in x pause!	Set input x pause by CEC, x=0-4 (0=all input)	s cec in 1 pause!	input 1 pause operation	
s cec in x stop!	Set input x stop by CEC, x=0-4 (0=all input)	s cec in 1 stop!	input 1 stop operation	
s cec in x rew!	Set input x rewind by CEC, x=0-4 (0=all input)	s cec in 1 rew!	input 1 rewind operation	
s cec in x mute!	Set input x volume mute by CEC, x=0-4 (0=all input)	s cec in 1 mute!	input 1 volume mute	
s cec in x vol-!	Set input x volume down by CEC, x=0-4 (0=all input)	s cec in 1 vol-!	input 1 volume down	
s cec in x vol+!	Set input x volume up by CEC, x=0-4 (0=all input)	s cec in 1 vol+!	input 1 volume up	
s cec in x ff!	Set input x fast forward by CEC, x=0-4 (0=all input)	s cec in 1 ff!	input 1 fast forward operation	
s cec in x previous!	Set input x previous by CEC, x=0-4 (0=all input)	s cec in 1 previous!	input 1 previous operation	
s cec in x next!	Set input x next by CEC, x=0-4 (0=all input)	s cec in 1 next!	input 1 next operation	
s cec hdmi out y on!	Set hdmi output y power on by CEC, y=0-4 (0=all hdmi output)	s cec hdmi out 1 on!	hdmi output 1 power on	

Command Code	Function Description	Example	Feedback	Default Setting
CEC Setting				
s cec hdmi out y off!	Set hdmi output y power off by CEC, y=0-4 (0=all hdmi output)	s cec hdmi out 1 off!	hdmi output 1 power off	
s cec hdmi out y mute!	Set hdmi output y volume mute by CEC, y=0-4 (0=all hdmi output)	s cec hdmi out 1 mute!	hdmi output 1 volume mute	
s cec hdmi out y vol-!	Set hdmi output y volume down by CEC, y=0-4 (0=all output)	s cec hdmi out 1 vol-!	hdmi output 1 volume down	
s cec hdmi out y vol+!	Set hdmi output y volume up by CEC, y=0-4 (0=all output)	s cec hdmi out 1 vol+!	hdmi output 1 volume up	
s cec hdmi out y active!	Set hdmi output y active source by CEC, y=0-4 (0=all output)	s cec hdmi out 1 active!	hdmi output 1 active source	

Command Code	Command Code	Example	Feedback	Default Setting
Network Setting				
r ipconfig!	Get the Current IP Configuration	r ipconfig!	IP Mode: Static IP: 192.168.1.72 Subnet Mask: 255.255.255.0 Gateway: 192.168.1.1 TCP/IP port=8000 Telnet port=10 Mac address: 00:1C:91:03:80:01	
r mac addr!	Get network MAC address	r mac addr!	Mac address: 00:1C:91:03:80:01	
s ip mode z!	Set network IP mode to static IP or DHCP, z=0-1 (z=0 Static, z=1 DHCP)	s ip mode 0!	Set IP mode:Static (Please use "s net reboot!" command or repower device to apply new config!)	
r ip mode!	Get network IP mode	r ip mode!	IP Mode: Static	

Command Code	Function Description	Example	Feedback	Default Setting
Network Setting				
s ip addr xxx.xxx.xxx. xxx!	Set network IP address	s ip addr 192.168.1.100!	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!	Get network IP address	r ip addr!	IP:192.168.1.100	
s subnet xxx.xxx.xxx. xxx!	Set network subnet mask	s subnet 255.255.255.0!	Set subnet Mask address: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!	Get network subnet mask	r subnet!	Subnet Mask: 255.255.255.0	
s gateway xxx.xxx.xxx. xxx!	Set network gateway	s gateway 192.168.1.1!	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!	Get network gateway	r gateway!	Gateway:192.168.1.1	
s tcp/ip port x!	Set network TCP/IP port (x=1~65535)	s tcp/ip port 8000!	Set TCP/IP port:8000	
r tcp/ip port!	Get network TCP/IP port	r tcp/ip port!	TCP/IP port:8000	
s telnet port x!	Set network telnet port (x=1~65535)	s telnet port 23!	Set Telnet port:23	

Command Code	Command Code	Example	Feedback	Default Setting
Network Setting				
r telnet port!	Get network telnet port	r telnet port!	Telnet port:23	
s net reboot!	Reboot network modules	s net reboot!	Network reboot... IP Mode: Static IP: 192.168.1.72 Subnet Mask: 255.255.255.0 Gateway: 192.168.1.1 TCP/IP port=8000 Telnet port=10 Mac address: 00:1C:91:03:80:01	

FAQ & Troubleshooting

Q1: Poor video quality or no video signal on display:

A1: Check whether the HDMI cables are connected properly and are in good working condition.

A2: Make sure the resolution of the display is compatible with the Matrix's resolution.

Q2: Snowy or fuzzy screen on the displays:

A1: Cause by damaged or low quality HDMI cables. Change to a higher quality HDMI cable. Make sure the cable length is less than or equal to 5 meters.

A2: Try another CAT cable and make sure the cable length is within the specified range.

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