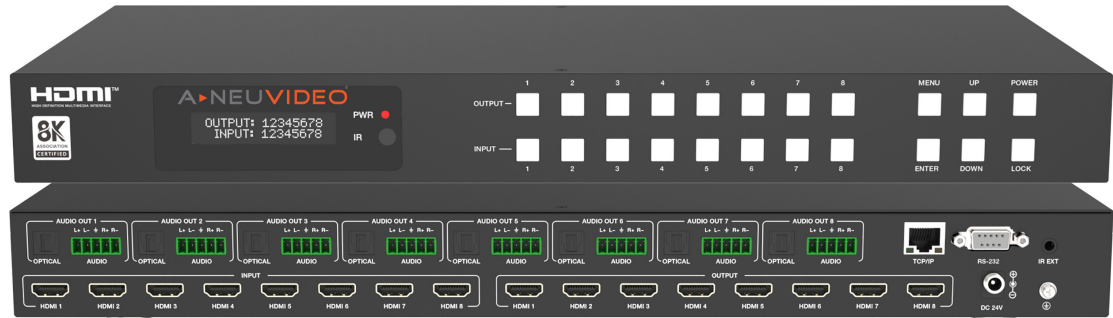


# ANI-8-8K60-S

8x8 8K HDMI 48Gbps Matrix w/ Audio Matrix



## PACKAGE CONTENTS

Before attempting to use this unit, please check the packaging and make sure the following items are contained in the shipping carton:

- ANI-8-8K60-S 48Gbps 8x8 HDMI Matrix
- DC 24V/3.75A Locking Power Adapter
- IR Remote
- IR Wideband Receiver Cable (12V, 1.5M)
- AC Power Cord (1.5M)
- RS-232 Serial Cable (1.5M, male to female head)
- (8) 5pin-3.81mm Phoenix Connector
- (8) Machine Screw (KM3x6)
- (2) Mounting Ear



## SAFETY INFORMATION



1. To ensure the best results from this product, please read this manual and all other documentation before operating your equipment. Retain all documentation for future reference.
2. Follow all instructions printed on unit chassis for proper operation.
3. To reduce the risk of fire, do not spill water or other liquids into or on the unit, or operate the unit while standing in liquid.
4. Make sure power outlets conform to the power requirements listed on the back of the unit. Keep unit protected from rain, water and excessive moisture.
5. Do not attempt to clean the unit with chemical solvents or aerosol cleaners, as this may damage the unit. Dust with a clean dry cloth.
6. Do not use the unit if the electrical power cord is frayed or broken. The power supply cords should be routed so that they are not likely to be walked on or pinched by items placed upon or against them, paying particular attention to cords and plugs, convenience receptacles, and the point where they exit from the appliance.
7. Do not force switched or external connections in any way. They should all connect easily, without needing to be forced.
8. Always operate the unit with the AC ground wire connected to the electrical system ground. Precautions should be taken so that the means of grounding of a piece of equipment is not defeated.
9. AC voltage must be correct and the same as that printed on the rear of the unit. Damage caused by connection to improper AC voltage is not covered by any warranty.
10. Turn power off and disconnect unit from AC current before making connections.
11. Never hold a power switch in the "ON" position.
12. This unit should be installed in a cool dry place, away from sources of excessive heat, vibration, dust, moisture and cold. Do not use the unit near stoves, heat registers, radiators, or other heat producing devices.
13. Do not block fan intake or exhaust ports. Do not operate equipment on a surface or in an environment which may impede the normal flow of air around the unit, such as a bed, rug, carpet, or completely enclosed rack. If the unit is used in an extremely dusty or smoky environment, the unit should be periodically "blown free" of foreign dust and matter.
14. To reduce the risk of electric shock, do not remove the cover. There are no user serviceable parts inside. Refer all servicing to qualified service personnel. There are no user serviceable parts inside.
15. When moving the unit, disconnect input ports first, then remove the power cable; finally, disconnect the interconnecting cables to other devices.
16. Do not drive the inputs with a signal level greater than that required to drive equipment to full output.
17. The equipment power cord should be unplugged from the outlet when left unused for a long period of time.
18. Save the carton and packing material even if the equipment has arrived in good condition. Should you ever need to ship the unit, use only the original factory packing.
19. Service Information Equipment should be serviced by qualified service personnel when:
  - A. The power supply cord or the plug has been damaged.
  - B. Objects have fallen, or liquid has been spilled into the equipment.
  - C. The equipment has been exposed to rain.
  - D. The equipment does not appear to operate normally, or exhibits a marked change in performance.
  - E. The equipment has been dropped, or the enclosure damaged.

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**DEAR CUSTOMER**

Thank you for purchasing this product. For optimum performance and safety, please read these instructions carefully before connecting, operating or adjusting this product. Please keep this manual for future reference.

**INTRODUCTION**

The ANI-8-8K60-S 48Gbps 8K 8x8 HDMI Matrix supports the transmission of high resolution video (up to 4K2K@120Hz 4:4:4 12bit and 8K4K@60Hz 4:2:0 12bit) and multi-channel digital audio from (8) HDMI sources to (8) HDMI displays. Resolution downscaling and HDR conversion for each HDMI output are also supported.

It works with Blue-Ray players, Set-Top boxes, Home Theater PCs, and game consoles which connect to an HDMI display, and can be controlled via front panel buttons, IR remote, RS-232, and Web GUI. This product has a 3 year warranty.

**SAFETY PRECAUTIONS**

Please read all instructions before attempting to unpack, install or operate this equipment and before connecting the power supply. Please keep the following in mind as you unpack and install this equipment:

- Always follow basic safety precautions to reduce the risk of fire, electrical shock and injury to persons.
- To prevent fire or shock hazard, do not expose the unit to rain, moisture or install this product near water.
- Never spill liquid of any kind on or into this product.
- Never push an object of any kind into this product through any openings or empty slots in the unit, as you may damage parts inside the unit.
- Do not attach the power supply cabling to building surfaces.
- Use only the supplied power supply unit (PSU). Do not use the PSU if it is damaged.
- Do not allow anything to rest on the power cabling or allow any weight to be placed upon it or any person walk on it.
- To protect the unit from overheating, do not block any vents or openings in the unit housing that provide ventilation and allow for sufficient space for air to circulate around the unit.

**DISCLAIMERS**

The information in this manual has been carefully checked and is believed to be accurate. We assume no responsibility for any infringements of patents or other rights of third parties which may result from its use.

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 Version 1.0 JULY 2024

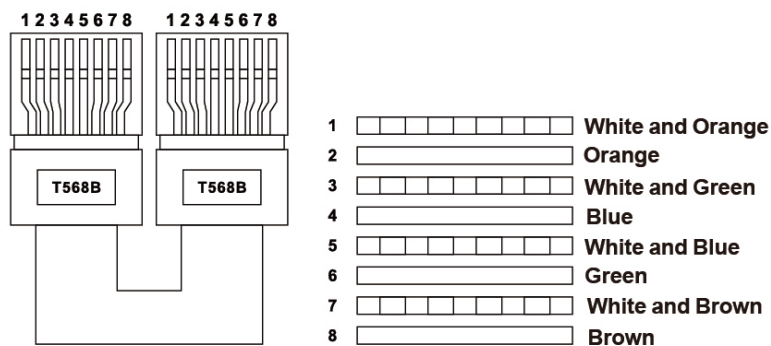
**TRADEMARK ACKNOWLEDGMENTS**

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**FEATURES**

- HDMI 2.1 and HDCP 2.3 compliant
- (8) HDMI inputs can be independently routed to (8) HDMI outputs
- Video resolution is up to 8K60Hz 4:2:0, 8K30Hz 4:4:4 and 4K120Hz 4:4:4
- Supports 48Gbps video bandwidth
- HDR, HDR10, HDR10+, Dolby Vision pass-through
- Supports 8K->4K or 8K/4K->1080p downscaling for each output port
- VRR, ALLM, QMS, QFT, SBTM are supported
- Supports optical audio and balanced analog audio output
- Advanced EDID management
- Control via front panel buttons, IR remote, RS-232, and Web GUI

The product requires the use of UTP connectors. Please connect in direct interconnection method and do not cross connect.



**Direct Interconnection Method**

**SPECIFICATIONS**

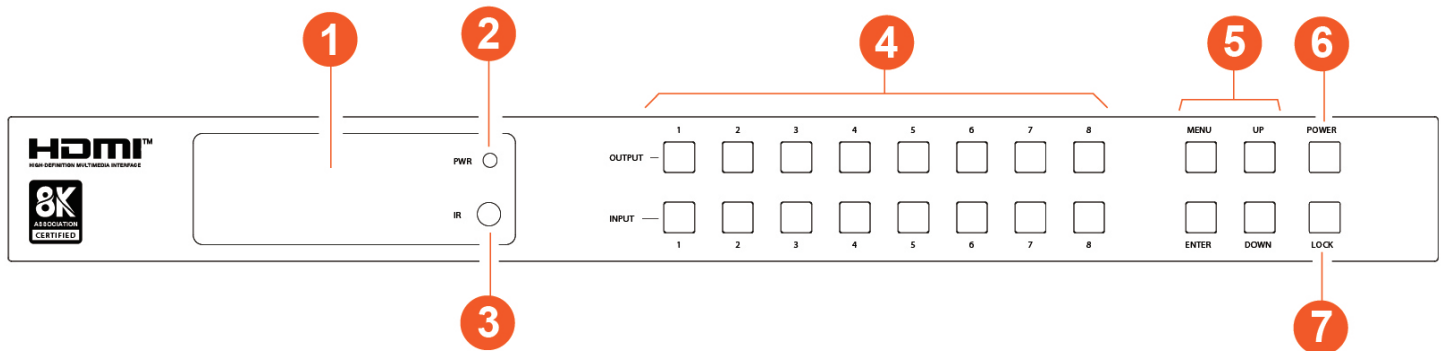
- **HDMI Compliance:** HDMI 2.1
- **HDCP Compliance:** HDCP 2.3
- **Video Bandwidth:** 48Gbps
- **Video Resolution:** Up to 8K60Hz 4:2:0, 8K30Hz 4:4:4 and 4K120Hz 4:4:4
- **Color Space:** RGB\_4:4:4, YCbCr\_4:4:4, YCbCr\_4:2:2, YCbCr\_4:2:0
- **Color Depth:** 8/10/12bit
- **HDR Formats:** HDR, HDR10, HDR10+, Dolby Vision, HLG
- **Video Latency:** No Latency
- **Audio Latency:** No Latency
- **Audio Formats:**
  - **HDMI IN/OUT:** LPCM, Dolby Digital/Plus/EX, Dolby True HD, Dolby Atmos, DTS, DTS-EX, DTS-96/24, DTS High Res, DTS-HD Master Audio, DSD
  - **AUDIO BREAKOUT:**
    - Optical outputs: LPCM 2.0CH/Dolby/DTS 5.1CH
    - Balanced Analog Audio Outputs: LPCM 2CH
- **ESD Protection Human Body Model:**
  - ± 8kV (air-gap discharge)
  - ± 4kV (contact discharge)
- **Input Ports:** (8) HDMI INPUT [Type A, 19-pin female]
- **Output Ports:**
  - (8) HDMI OUTPUT [Type A, 19-pin female]
  - (8) OPTICAL AUDIO [S/PDIF]
  - (8) L/R AUDIO [3.5mm Stereo Mini-jack]
- **Control Ports:**
  - TCP/IP [RJ45]
  - RS-232 [D-Sub 9]
  - IR EXT [3.5mm, Stereo Mini-jack]
- **Housing:** Metal Enclosure
- **Color:** Black
- **Dimensions (WxDxH):** 17.3 x 8 x 1.75 in (440x203x44.5mm)
- **Weight:** 6.5lb / 2.94kg
- **Power Supply:** Input: AC 100-240V 50/60Hz, Output: DC 24V/3.75A (US/EU standard, CE/FCC/UL certified)
- **Power Consumption:** 70W (Max)
- **Operating Temperature:** -10°C ~ 45°C / 14°F ~ 113°F
- **Storage Temperature:** -20°C ~ 60°C / -4°F ~ 140°F
- **Relative Humidity:** 20~90% RH (non-condensing)

As product improvements are continuous, specifications are subject to change without notice.

Resolution / Cable Length	8K	4K60	4K30	1080P60
HDMI IN / OUT	3M / 9.8 FT (Ultra HDMI 2.1)	5M / 16 FT	10M / 33 FT	15M / 49 FT

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

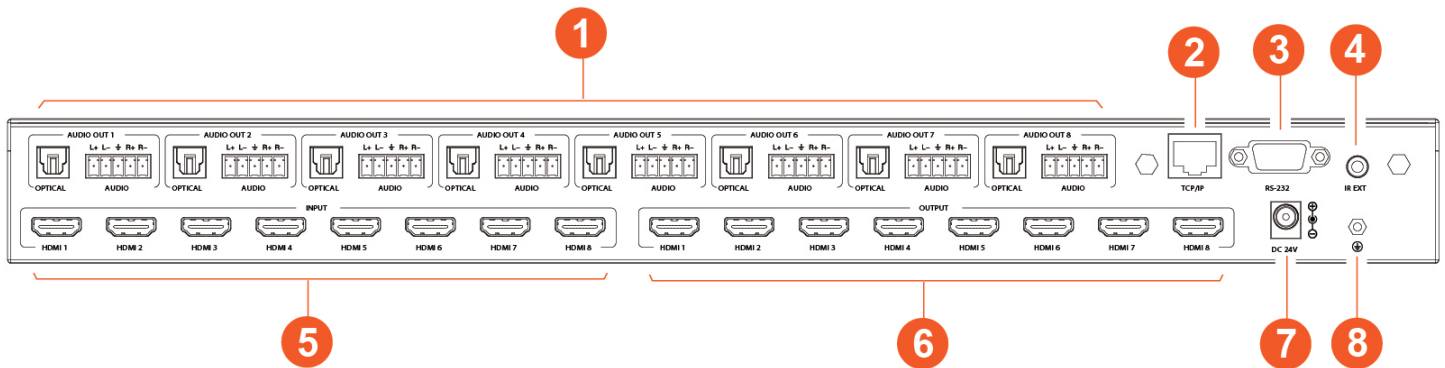
### FRONT PANEL



- ① **LCD SCREEN:** Display matrix switching status, input / output port, EDID, Baud rate, IP Address, etc.
- ② **PWR INDICATOR:** The green LED is on when the device is working. The red LED is on when the device is on standby.
- ③ **IR:** IR signal receiver. Receiving the signal from the IR remote.
- ④ **INPUT / OUTPUT BUTTONS:** Press an **OUTPUT BUTTON (1~8)** and then press an **INPUT BUTTON (1~8)** to select the corresponding input source for the output port.
- ⑤ **MENU / ENTER / UP / DOWN:** Take **RESET**, for example.
  - On the initial LCD display screen, press “**MENU**” button. There are **OUTPUT / INPUT / EXTAUDIO / SETUP** items to be selected.
  - Press the “**UP/DOWN**” button to select **SETUP** item.
  - Press the “**ENTER**” button to enter into the next menu. There are **LCD ONTIME / BAUDRATE / IP INFO / REBOOT / RESET** items to be selected.
  - Press the “**UP/DOWN**” button to select **RESET** item.
  - Press the “**ENTER**” button to confirm reset. It will prompt: **RESET SUCCESS!**

*Note: Pressing the “**MENU**” button will return to the previous menu.*
- ⑥ **POWER BUTTON:** Hold the **POWER** button for 1 second to enter the standby mode, then quickly press it to wake up the device.
- ⑦ **LOCK BUTTON:** Quickly press the **LOCK** button to lock front panel buttons (Except the power button); Press it again to unlock.

REAR PANEL



**1 AUDIO OUT (1~8):**

**OPTICAL:** Optical audio output port, connected to an audio output device such as audio amplifier.

**L/R AUDIO:** Analog audio output port, supporting balanced/unbalanced audio output, with a maximum support of 2Vrms.

**BALANCED CONNECTION METHOD:** L+, L-,  $\frac{L}{\pm}$ , R+, R-

**UNBALANCED CONNECTION METHOD:** L+,  $\frac{L}{\pm}$ , R+

**2 TCP/IP:** TCP/IP control port, connected to PC or router with an RJ45 cable.

**3 RS-232 PORT:** Connects to a PC or control system by D-Sub 9-pin cable to transmit RS-232 command.

**4 IR EXT:** If the IR receiver window of the unit is blocked or the unit is installed in a closed area out of infrared line of sight, the IR receiver cable can be inserted to the "IR EXT" port to receive the IR remote signal.

**5 HDMI INPUT PORTS (1~8):** HDMI input ports, connected to HDMI source device such as 8K computer, DVD or set-top box with an HDMI cable.

**6 HDMI OUTPUT PORTS (1~8):** HDMI output ports, connected to HDMI display device such as TV or monitor with an HDMI cable.

**7 DC 24V:** Connect to 24V/3.75A power adapter.

**8 GND:** Connect the housing to the ground.

**Note:**

1. You can restore the factory settings via the front panel, Web or RS-232 command.

2. Power cut memory function is available except for standby status.

3. The RS-232 and Web will be available in a few minutes when the device is powered on.

## REMOTE CONTROL



**1 POWER ON OR STANDBY:** Power on the Matrix or set it to standby mode.

**2 INPUT 1/2/3/4/5/6/7/8:** Press to select input source.

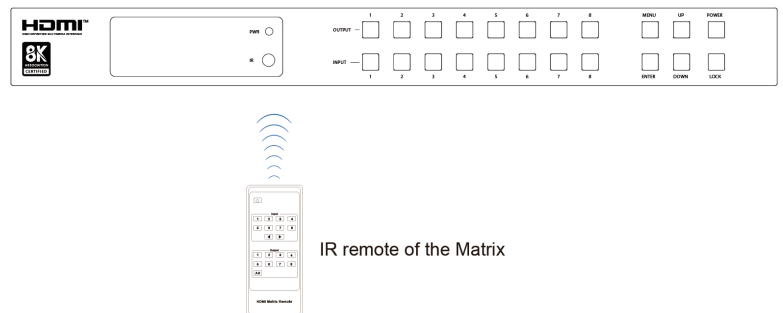
◀ ▶: Press to select the last or next input source.

**3 OUTPUT 1/2/3/4/5/6/7/8:** Press to select output channel.

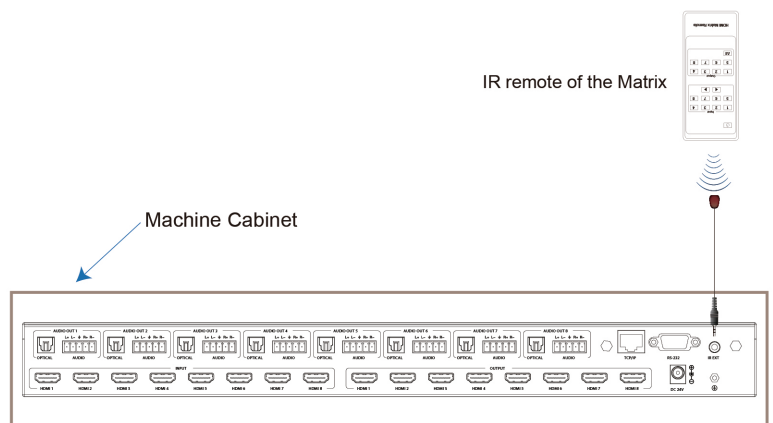
**ALL:** Select all output channel simultaneously. **For example**, when you press the “All” button and then press input “1” button, at this time the input “1” source will output to all display devices.

You need to press the output button firstly and then press input button to select the corresponding input source. **For example**, press Output-X (X means output button from 1 to 8, including “All” button), then press Input-Y (Y means input button from 1 to 8). The Matrix can be selected input source and output channel by using the IR remote. There are two ways to receive the IR remote signal.

**The first way:** The IR window accepts the IR remote signal. Using the IR remote, the furthest distance is 26 feet when the IR remote is directly faced to the matrix, and 16 feet when the using angle is  $\pm 45^\circ$ . The diagram is shown as below:



**The second way:** If the IR receiver window of the Matrix is blocked or the Matrix is installed in a closed area out of infrared line of sight, the IR receiver cable can be inserted to the “IR EXT” port to receive the IR remote signal. The furthest distance of using the IR remote is 16 feet when the IR remote is directly faced to the IR receiver head, and 9.5 feet when the using angle is  $\pm 45^\circ$ . The diagram is shown as below.

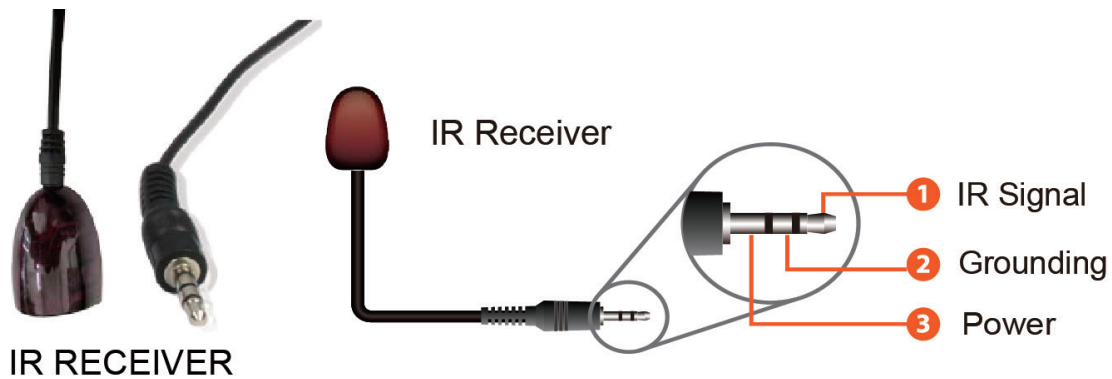




REMOTE HEX CODES

Button Function	House Code	Button Code
Power Toggle	08F7	4D
Input 1	08F7	08
Input 2	08F7	48
Input 3	08F7	4B
Input 4	08F7	43
Input 5	08F7	0C
Input 6	08F7	19
Input 7	08F7	0F
Input 8	08F7	03
Previous	08F7	57
Next	08F7	4E
Output 1	08F7	40
Output 2	08F7	10
Output 3	08F7	11
Output 4	08F7	52
Output 5	08F7	4F
Output 6	08F7	44
Output 7	08F7	50
Output 8	08F7	0E
All	08F7	13

IR CABLE PIN ASSIGNMENT



LCD DISPLAY NAVIGATION

The buttons on the the front panel are used for LCD display navigation, including **INPUT(1~8)**, **OUTPUT(1~8)**, **MENU**, **ENTER**, **UP**, **DOWN**. Menu contents are as follows:

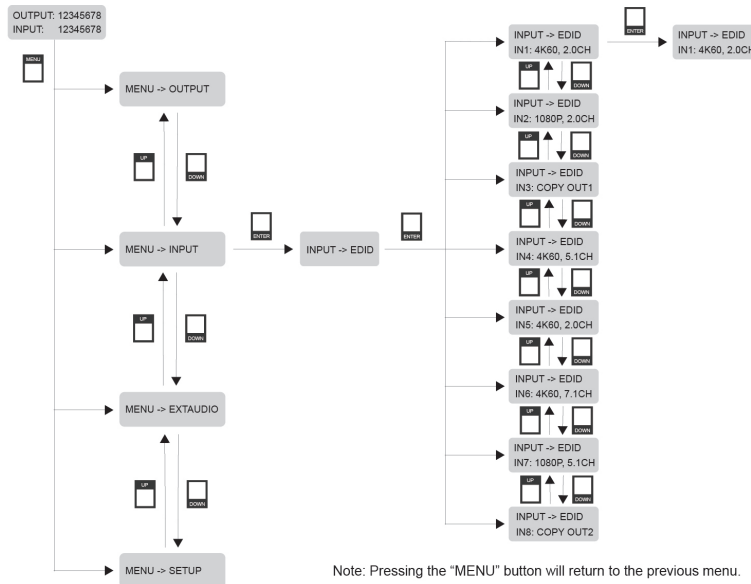
LEVEL 1	LEVEL 2	LEVEL 3	LEVEL 4
OUTPUT	SCALER	OUT1/OUT2/OUT3/OUT4/ OUT5/OUT6/OUT7/OUT8	BYPASS
			8K to 4K
			8K/4K to 1080P
			AUTO
	HDR	OUT1/OUT2/OUT3/OUT4/ OUT5/OUT6/OUT7/OUT8	BYPASS
			HDR to SDR
			AUTO
	ARC	OUT1/OUT2/OUT3/OUT4/ OUT5/OUT6/OUT7/OUT8	ON
			OFF
	STREAM	OUT1/OUT2/OUT3/OUT4/ OUT5/OUT6/OUT7/OUT8	ENABLE
			DISABLE
	INPUT	EDID	IN1/IN2/IN3/IN4/IN5/IN6/ IN7/IN8

LEVEL 1	LEVEL 2	LEVEL 3	LEVEL 4		
EXTAUDIO	OUT	OUT1/OUT2/OUT3/OUT4/ OUT5/OUT6/OUT7/OUT8	ENABLE		
			DISABLE		
	MODE	BIND to INPUT	BIND to INPUT	/	
			BIND to OUTPUT	/	
			AUDIO MATRIX	/	
	MATRIX	OUT1/OUT2/OUT3/OUT4/ OUT5/OUT6/OUT7/OUT8	OUT1/OUT2/OUT3/OUT4/ OUT5/OUT6/OUT7/OUT8	INPUT1	
				INPUT2	
				INPUT3	
				INPUT4	
				INPUT5	
				INPUT6	
				INPUT7	
				INPUT8	
				OUTPUT1 ARC	
				OUTPUT2 ARC	
				OUTPUT3 ARC	
				OUTPUT4 ARC	
				OUTPUT5 ARC	
				OUTPUT6 ARC	
OUTPUT7 ARC					
OUTPUT8 ARC					
SETUP	LCD ONTIME	OFF	OFF		
			ALWAYS ON		
			15 SECONDS	/	
			30 SECONDS		
			60 SECONDS		
	BAUDRATE	4800	9600	4800	
				9600	
				19200	/
				38400	
				57600	
				115200	
	IP INFO	DHCP: ON/OFF	192.168.0.100	DHCP: ON/OFF	
				192.168.0.100	/
	REBOOT	SUCCESS!	/		
RESET	SUCCESS!	/			

EDID MANAGEMENT

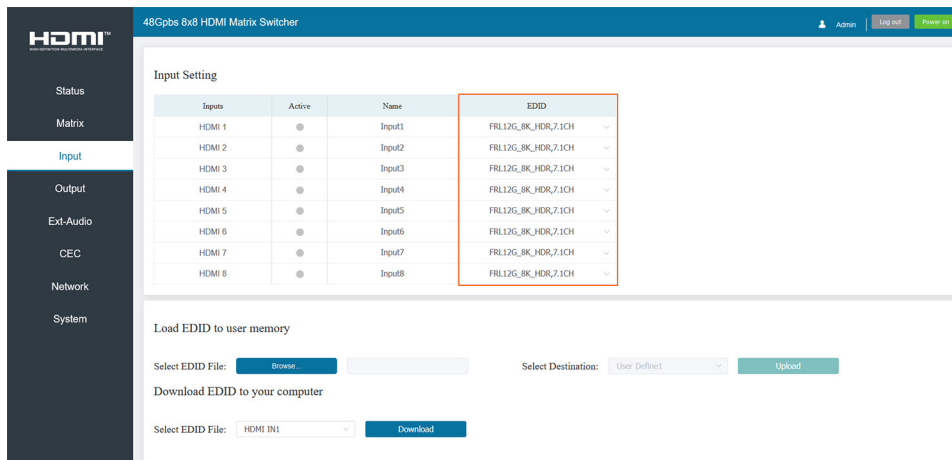
This Matrix has (36) factory defined EDID settings, (3) user-defined EDID modes and (8) copy EDID modes. You can select defined EDID mode or copy EDID mode to input port through front panel buttons, RS-232 control or Web GUI.

**On-panel button operation:** On the initial LCD display screen, press “MENU” button to enter the first level menu, press “UP/DOWN” button to select INPUT, and then press the “ENTER” button. Now the EDID item appears. Press the “ENTER” button, and then press “UP/DOWN” button to select the EDID mode you need. Then press “ENTER” button to confirm this operation.



**RS-232 control operation:** Connect the Matrix to PC with a serial cable, then open a Serial Command tool on PC to send ASCII command “s input x EDID z!” to set EDID. For details, please refer to “EDID Setting” in the ASCII command list of “RS-232 Control Command”.

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



The defined EDID setting list of the product is shown as below:

EDID MODE	EDID DESCRIPTION	EDID MODE	EDID DESCRIPTION
1	1080P, 2.0CH	25	4K120(420)_HDR, 2.0CH
2	1080P, 5.1CH	26	4K120(420)_HDR, 5.1CH
3	1080P, 7.1CH	27	4K120(420)_HDR, 7.1CH
4	4K30, 2.0CH	28	4K120(444)_HDR, 2.0CH
5	4K30, 5.1CH	29	4K120(444)_HDR, 5.1CH
6	4K30, 7.1CH	30	4K120(444)_HDR, 7.1CH
7	4K60(420), 2.0CH	31	FRL10G_8K_HDR, 2.0CH
8	4K60(420), 5.1CH	32	FRL10G_8K_HDR, 5.1CH
9	4K60(420), 7.1CH	33	FRL10G_8K_HDR, 7.1CH
10	4K60(444), 2.0CH	34	FRL12G_8K_HDR, 2.0CH
11	4K60(444), 5.1CH	35	FRL12G_8K_HDR, 5.1CH
12	4K60(444), 7.1CH	36	FRL12G_8K_HDR, 7.1CH
13	1080P_HDR, 2.0CH	37	user1_EDID
14	1080P_HDR,5.1CH	38	user2_EDID
15	1080P_HDR, 7.1CH	39	user3_EDID
16	4K30_HDR, 2.0CH	40	copy out1
17	4K30_HDR, 5.1CH	41	copy out2
18	4K30_HDR, 7.1CH	42	copy out3
19	4K60(420)_HDR, 2.0CH	43	copy out4
20	4K60(420)_HDR, 5.1CH	44	copy out5
21	4K60(420)_HDR, 7.1CH	45	copy out6
22	4K60(444)_HDR, 2.0CH	46	copy out7
23	4K60(444)_HDR,5.1CH	47	copy out8
24	4K60(444)_HDR, 7.1CH		

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. You can get the current Matrix IP address in two ways:

**THE FIRST WAY:** You can get the IP address via panel buttons. On the initial LCD display, press “**MENU**” button to enter the first level menu. Then press “**UP/DOWN**” button to select “**SETUP**”, and press “**ENTER**” to enter the second level menu. Then press “**UP/DOWN**” button to select “**IP INFO**”, and press “**ENTER**” to check current IP address.

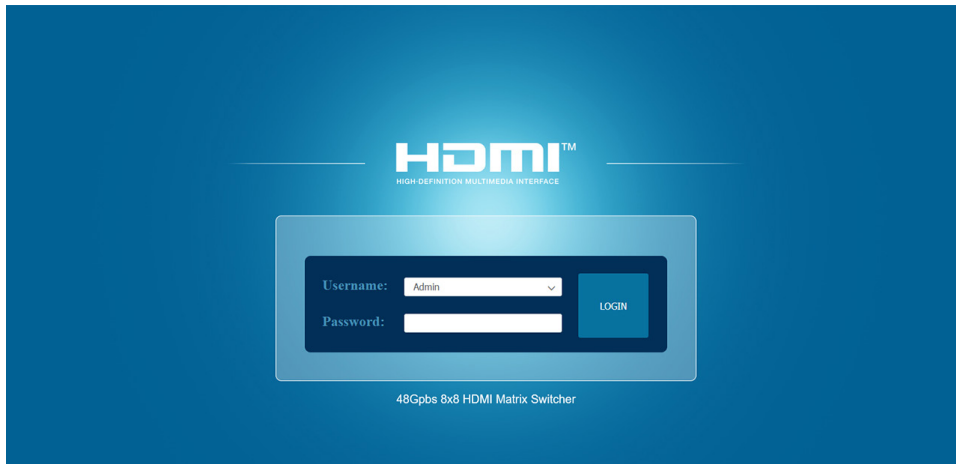
IP Mode: Static  
 IP: 192.168.0.100  
 Subnet Mask: 255.255.255.0  
 Gateway: 192.168.0.1  
 TCP/IP port=8000  
 Telnet port=23  
 Mac address: 00:1C:91:03:80:01

**THE SECOND WAY:** You can get the IP address via RS-232 control. Send the command “**r ipconfig!**” through an ASCII Command tool, then you’ll get the feedback information as shown:

**IP:** 192.168.0.100 in the above figure is the IP Address of the Matrix (the IP address is variable, depending on what the specific machine returns). For the details of ASCII control, please refer to “**RS-232 Control Commands**”.

**STEP 2:** Connect the TCP/IP port of the Matrix to a PC with an UTP cable, and set the IP address of the PC to be in the same network segment with the Matrix.

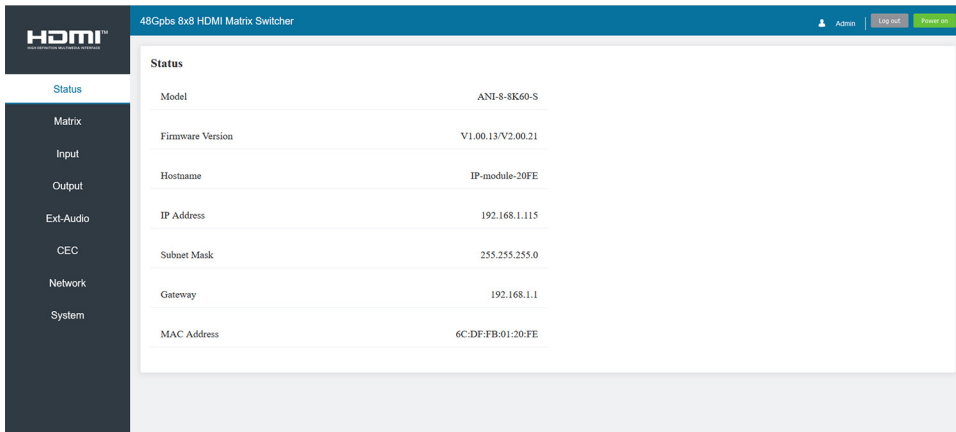
**STEP 3:** Input the IP address of the Matrix into your browser on the PC to enter Web GUI page. After entering the Web GUI page, there will be a Login page, as shown below:



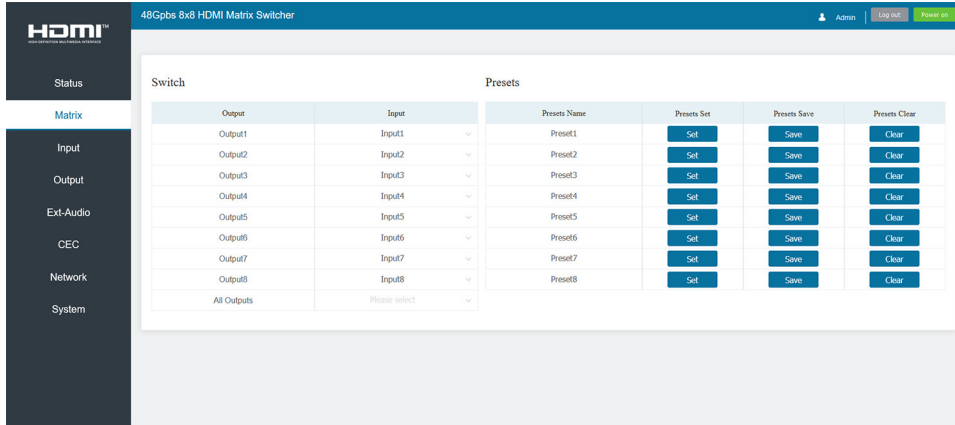
Select the username “**Admin**”, enter the password “**admin**”, and select the desired language. Then click the “**LOGIN**” button and the following Status page will appear.

**STATUS PAGE**

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



MATRIX PAGE



You can do the following operations on the Matrix page:

- 1 **SWITCH:** Select the input signal source to output. The display name of each Input and Output can be modified in Input page and Output page.
- 2 **PRESETS:** Set, save and clear the presets.

**ALL OUTPUT:**

- The set of All Output is available to all outputs above. You can select an input source for All Output to be used for 1~8 outputs.
- It is null when one or more inputs assigned for outputs are different from others.

Switch

Output	Input
Output1	Input1
Output2	
Output3	
Output4	
Output5	
Output6	
Output7	
Output8	
All Outputs	Please select

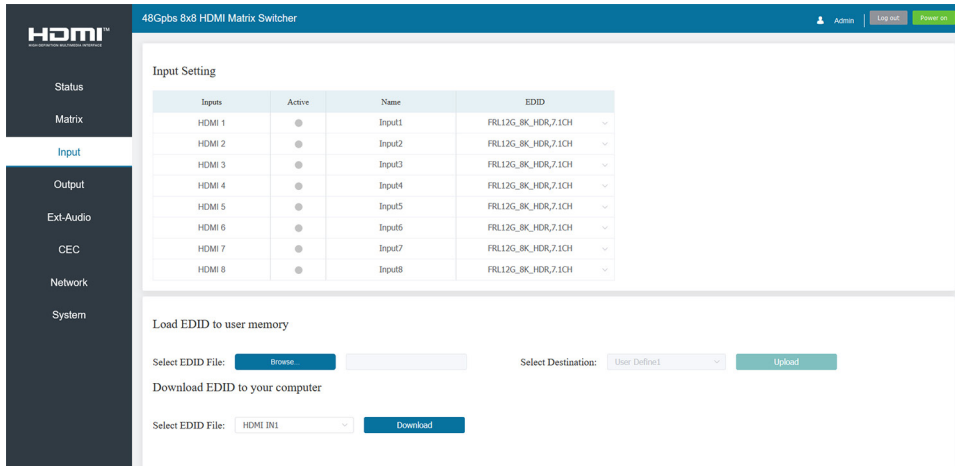
The Input drop-down list shows all input sources. Click Input drop-down menu and select the input signal source which will be transmitted to the corresponding output.

Presets

Presets Name	Presets Set	Presets Save	Presets Clear
Preset1	Set	Save	Clear
Preset2	Set	Save	Clear
Preset3	Set	Save	Clear
Preset4	Set	Save	Clear
Preset5	Set	Save	Clear
Preset6	Set	Save	Clear
Preset7	Set	Save	Clear
Preset8	Set	Save	Clear

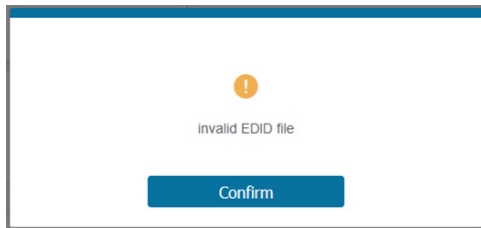
Preset1 matches with the group of Output1 and the assigned Input. Click Set button to set this preset. You can save or clear it via clicking Save or Clear. Each group of the Output and Input can be set, save and clear on the page. (8) presets are allowed to be set.

INPUT PAGE

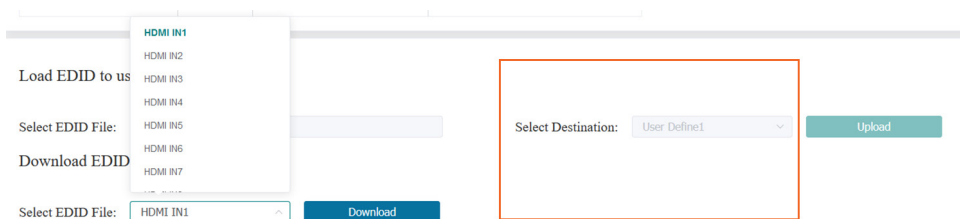


You can do the following operations on the **INPUT** page:

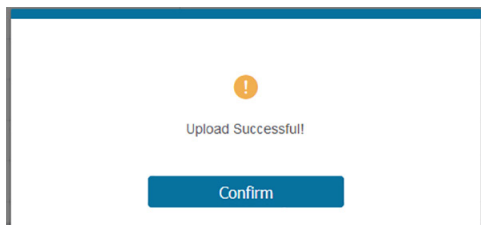
- ❶ **INPUTS:** Input channel of the device.
- ❷ **ACTIVE:** It indicates whether the channel is connected to a signal source. It is green if the input signal is detected, and gray if no signal.
- ❸ **NAME:** The input channel’s name. You can modify it by entering the corresponding name (max length: 31 characters) in the input box.
- ❹ **EDID:** It indicates the current EDID of the device. You can click the drop-down menu to select other EDIDs.
- ❺ **LOAD EDID TO USER MEMORY:** 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. Then select destination “**User Define1/User Define2/User Define3**”, and click “**Upload**”.

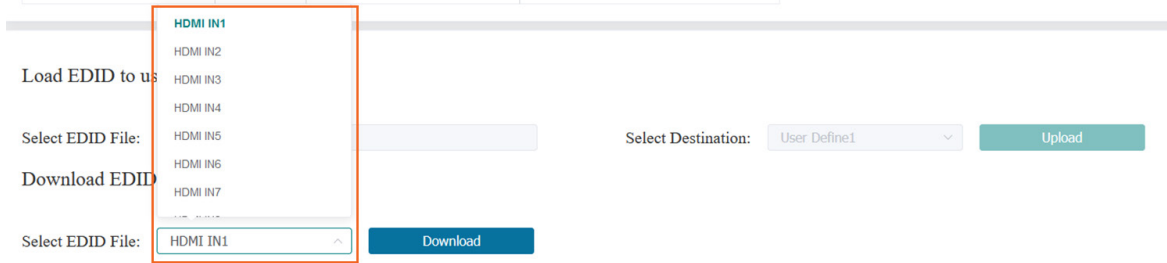


After successful setting, it will prompt as follows:

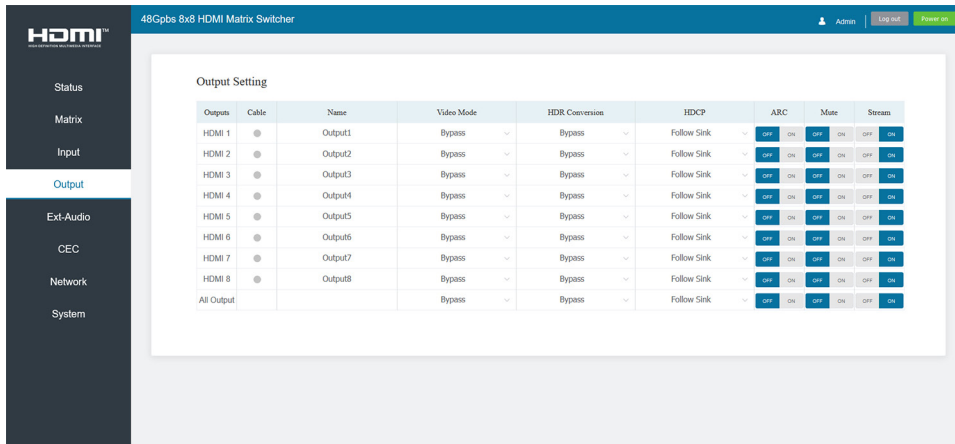




**6 DOWNLOAD EDID TO YOUR COMPUTER:** If you want to download the existing EDID, click the drop-down box of “**Select EDID File**” to select the input channel you want, and then click “**Download**” to save the corresponding EDID file to your computer.



**OUTPUT PAGE**



You can do the following operations on the **OUTPUT** page:

**1 OUTPUTS:** Output channel of the device.

**ALL OUTPUT:**

- The set of All Output is available to all outputs above if you select a value from the drop-down list.
- It is null when one or more selections for outputs above are different from others.

**2 CABLE:** It indicates the connection status of output ports. When the output port is connected to the display, it shows green, otherwise, it shows gray.



**3 NAME:** The output channel's name. You can modify it by entering the corresponding name (max length: 31 characters) in the input box.

**4 VIDEO SCALER:** This product support video downscaling on all outputs.

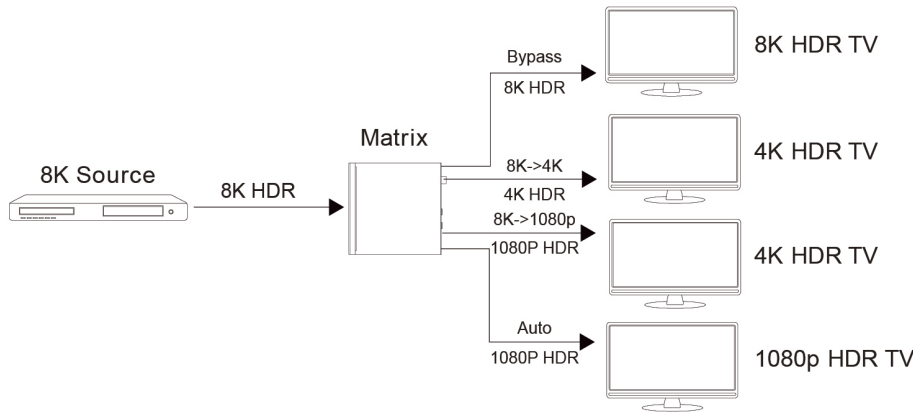
It will output the proper video resolution according to the EDID of the display device. Click the drop-down menu and set the video scaler mode you need.

Outputs	Cable	Name	Video Mode
HDMI 1	●	Output1	Bypass
HDMI 2	●	Output2	Bypass
HDMI 3	●	Output3	8k->4k
HDMI 4	●	Output4	8k/4k->1080p
HDMI 5	●	Output5	Auto(Follow Sink EDID)
HDMI 6	●	Output6	Audio Only
HDMI 7	●	Output7	Bypass
HDMI 8	●	Output8	Bypass
All Output			Bypass

There are (8) options to be selected:

- **Bypass (Default):** It means the output resolution follows the input source.
- **8K -> 4K:** Downscalls any 8K signal to 4K.
- **8K/4K -> 1080p:** Downscalls any 8K/4K signal to 1080p.
- **Auto (Follow Sink EDID):** It means the output resolution is according to the EDID of the corresponding display device.

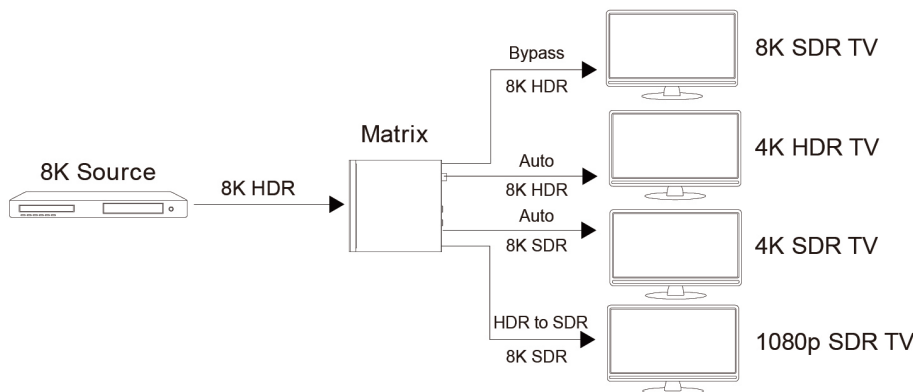
The example of video scaler is shown.



**5 HDR CONVERSION:** This product supports HDR to SDR convert on all outputs. It will output the proper HDMI signal according to the EDID of the display device, Click the drop-down menu and set the video HDR conversion mode you need.

Outputs	Cable	Name	Video Mode	HDR Conversion
HDMI 1	●	Output1	Bypass	Bypass
HDMI 2	●	Output2	Bypass	Bypass HDR to SDR Auto(Follow Sink EDID)
HDMI 3	●	Output3	Bypass	
HDMI 4	●	Output4	Bypass	
HDMI 5	●	Output5	Bypass	
HDMI 6	●	Output6	Bypass	Bypass
HDMI 7	●	Output7	Bypass	Bypass
HDMI 8	●	Output8	Bypass	Bypass
All Output			Bypass	Bypass

There are (3) options to be selected:



- **Bypass (Default):** It means the output format follows the input source.
  - **HDR to SDR:** Converts HDMI signals from HDR to SDR to meet the needs of output.
  - **Auto (Follow Sink EDID):** It means the output format is according to the EDID of the corresponding display device.
  - **Auto (Follow Sink EDID):** It means the output resolution is according to the EDID of the corresponding display device.
- The example of video scaler is shown.

**6 HDCP:** Click the drop-down menu and set the HDCP for current device output.

Outputs	Cable	Name	Video Mode	HDR Conversion	HDCP
HDMI 1	●	Output1	Bypass	Bypass	Follow Sink
HDMI 2	●	Output2	Bypass	Bypass	HDCP 1.4
HDMI 3	●	Output3	Bypass	Bypass	HDCP 2.2
HDMI 4	●	Output4	Bypass	Bypass	Follow Sink
HDMI 5	●	Output5	Bypass	Bypass	Follow Source
HDMI 6	●	Output6	Bypass	Bypass	USER MODE
HDMI 7	●	Output7	Bypass	Bypass	Follow Sink
HDMI 8	●	Output8	Bypass	Bypass	Follow Sink
All Output			Bypass	Bypass	Follow Sink

There are (5) options to be selected:

- **HDCP 1.4:** HDCP 1.4 compliant.
- **HDCP 2.2:** HDCP 2.2 compliant.
- **Follow Sink:** HDCP version follows the corresponding display device.
- **Follow Source:** HDCP version follows the assigned input source.
- **USER MODE:** Supports user-defined mode.

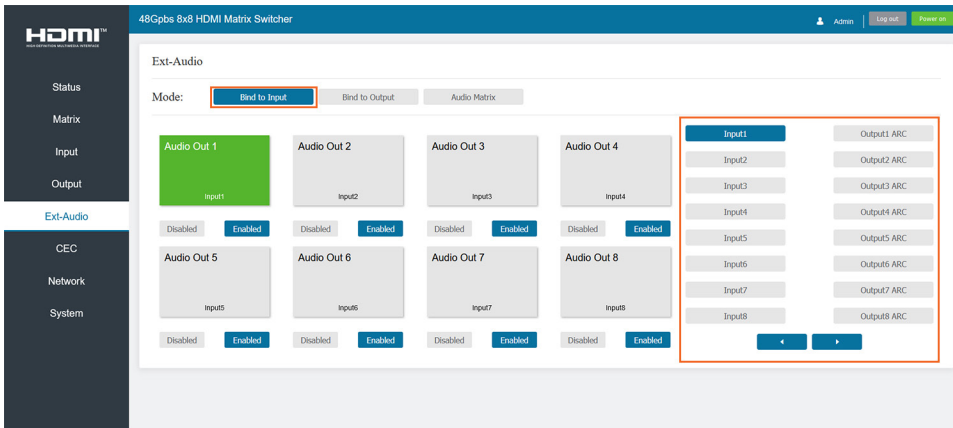
**7 ARC:** Click **ON/OFF** button to enable/disable the ARC function of the display device.

**8 STREAM:** Click **ON/OFF** button to turn on/off the output stream.

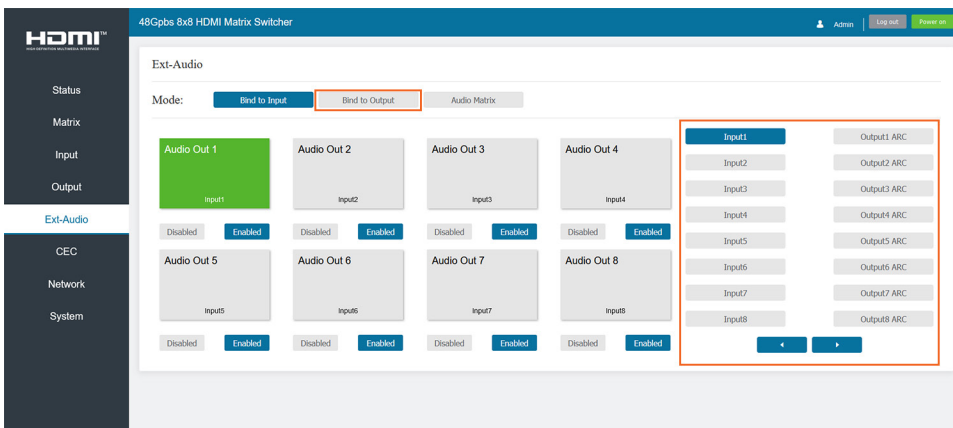
**EXT-AUDIO PAGE**

You can set the audio mode on the Ext-Audio page.

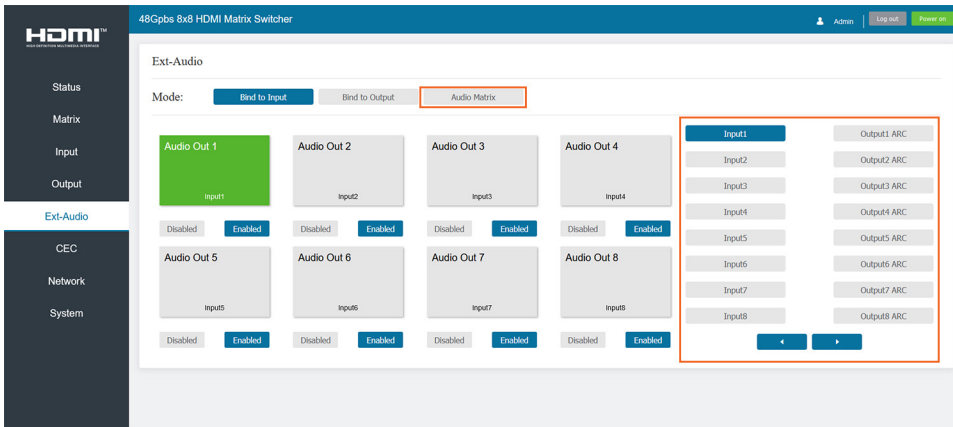
There are (3) modes: Bind to Input, Bind to Output and Audio Matrix.



**Bind to Input:** The audio output follows the HDMI input. And there is a consistent one-to-one match between each HDMI input and audio output. Click **ENABLE/DISABLE** button to turn on/off the audio channel. In this mode, the input sources and output ARC can't be selected.



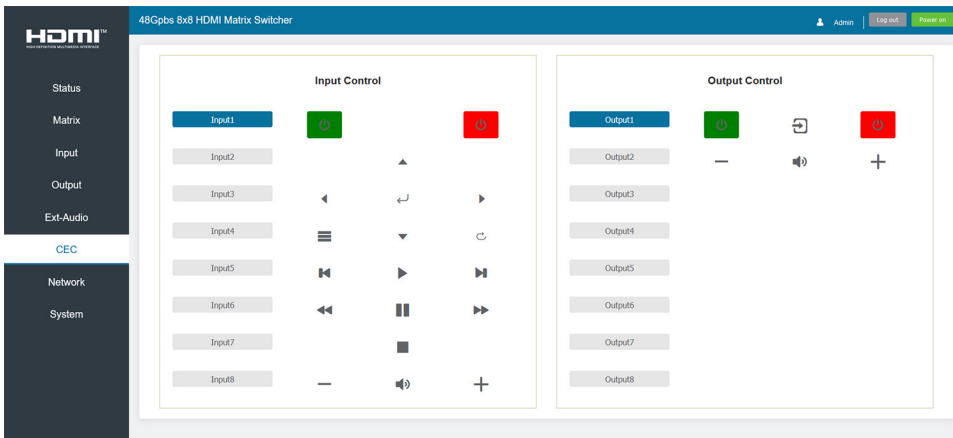
**Bind to Output:** The audio output follows the HDMI output. *For example*, if the HDMI input 3 is assigned to the HDMI output 1, the audio of **AUDIO OUT 1** which follows HDMI output 1 is from HDMI input 3. Click **ENABLE/DISABLE** button to turn on/off the audio channel. In this mode, the input sources and output ARC can't be selected.



**Audio Matrix:** This mode allows you to matrix the extracted audio independently. Click on an Audio Out, and then select any input source or ARC audio on the right which will appear below the selected audio out. One route of audio configuration is completed. Click **ENABLE/DISABLE** button to turn on/off the corresponding audio channel.

**CEC PAGE**

You can perform CEC management on this page. Inputs and Outputs can be controlled by clicking on the corresponding icons.



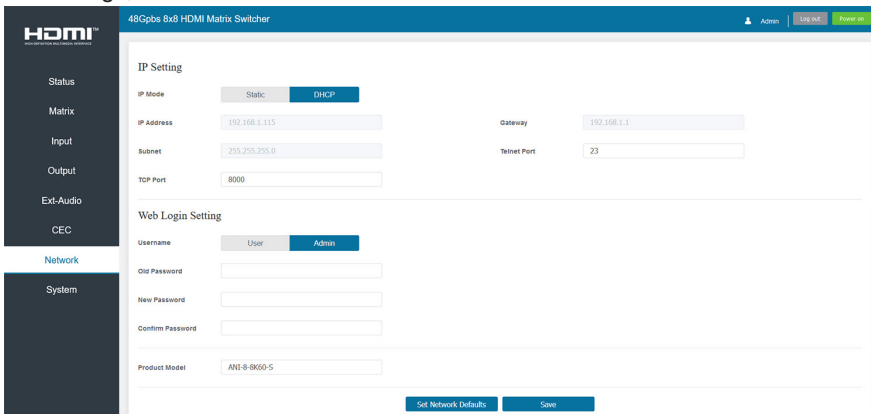
1 **INPUT CONTROL:** Select the input source on the left, and then click on the icons to power on, power off, return, switch, pause, fast-forward, fast-back, mute, unmute, etc.

2 **OUTPUT CONTROL:** Select the output on the left, and then click on the icons to control the operation of the display, such as power on/off, volume +/-/off, active source switching, etc.

**NETWORK PAGE**

You can do the following operations on the Network page:

1 **MODIFY NETWORK SETTING:** Modify the IP Mode/IP Address/Gateway/Subnet Mask/Telnet Port as required, click **“Save”** to save the settings, and then it will come into effect.



IP Setting

IP Mode:  Static  DHCP

IP Address:  Gateway:

Subnet:  Telnet Port:

TCP Port:

If the Mode is “**Static**”, you can set manually the IP Address/Gateway/Subnet/Telnet Port as required.

IP Setting

IP Mode:  Static  DHCP

IP Address:  Gateway:

Subnet:  Telnet Port:

TCP Port:

If the Mode is “**DHCP**”, it will search and be filled with the IP Address assigned by the router automatically. You can't modify it now.

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

Web Login Setting

Username:  User  Admin

Old Password:

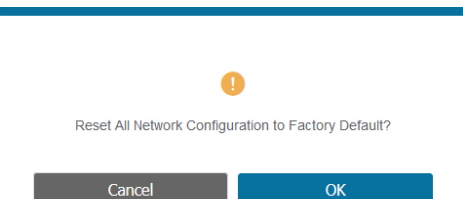
New Password:

Confirm Password:

**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.

**3 SET THE DEFAULT NETWORK:** Click “**Set Network Defaults**”, there will be a prompt, as shown in the following figure:



Click “**OK**” to search the IP Address again. After searching is completed, it will switch to the login page, the default network setting is completed.

SYSTEM PAGE

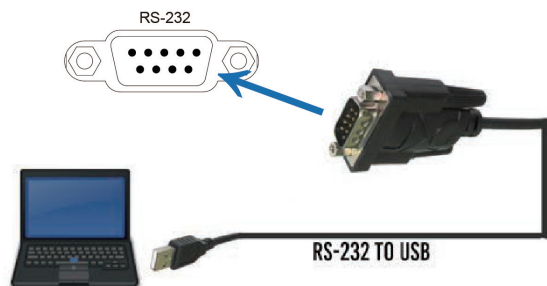
You can do the following operations on the Network page:

- ① **PANEL LOCK:** Click “**ON/OFF**” to lock/unlock panel buttons. “**ON**” indicates that panel buttons are unavailable; “**OFF**” indicates panel buttons are available.
- ② **BEEP:** Turn on/off the beep.
- ③ **LCD ON TIME:** You can turn on/off the LCD, and set the display duration time (Always ON/15s/30s/60s).
- ④ **SERIAL BAUD RATE:** Click the value to set the Serial Baud Rate.
- ⑤ **FIRMWARE UPDATE:** Click “**Browse**” to select the update file, and then click “**Update**” to complete firmware update.
- ⑥ **FACTORY RESET:** Reset the unit to factory defaults by clicking “**Reset**”.
- ⑦ **REBOOT:** Reboot the unit 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 male head and DB9 transfer USB male head. The RS-232 head of the serial cable is connected to the RS-232 control port with DB 9 at the rear of the Matrix, and the USB head of the serial 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.

ASCII COMMAND				
Serial port protocol. Baud rate: 115200, Data bits: 8bit, Stop bits:1, Check bit: 0				
TCP/IP protocol port: 8000      Telnet port: 23				
x,y,z, XXX are parameters Error Code describe: E00 -> unknown command, E01 -> parameter out of range, E02 -> get the error edid data				
COMMAND CODE	FUNCTION DESCRIPTION	EXAMPLE	FEEDBACK	DEFAULT SETTING
SETTING				
help!	List all commands	help!		
status!	Get device current	status status!	Get the unit all status: power, beep, lock, in/out connection, video/ audio crosspoint, edid, network status	
r type!	Get device model	r type!	8x8 HDMI2.1 Matrix	
r fw version!	Get Firmware version	r fw version!	MCU FW version x.xx.xx	
power z!	Power on/off the device, z=0~1 (z=0 power off, z=1 power on)	power 1!	power on System Initializing... Initialization Finished! MCU FW version x.xx.xx	
r power!	Get current power state	r power!	power on /power off	
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 off
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	

COMMAND CODE	FUNCTION DESCRIPTION	EXAMPLE	FEEDBACK	DEFAULT SETTING
s lcd on time z!	Set LCD screen remain on time, z=0~8 (0:off 1:always, 2:15s, 3:30s, 4:60s)	s lcd on time 3!	lcd on 30 seconds	lcd on 30 seconds
r lcd mode!	Get the backlight status of lcd screen	r lcd mode!	lcd always on	
s logo1*****!	Set the logo name displayed on the first line of LCD screen, the max character is 16	s logo1 Matrix Switch!	logo1:Matrix Switch	
reboot!	Reboot the device	reboot!	Reboot...8x8 hdmi 2.1 matrix system initializing...initialization finished! mcu fw version: vx.xx.xx	
reset!	Reset to factory defaults	reset!	Reset to factory defaults 8x8 hdmi 2.1 matrix system initializing... initialization finished! mcu fw version : vx.xx.xx	
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/sync/disconnect	
r link out y!	Get the connection status of the y output port, y=0~8 (0=all)	r link out 1!	hdmi output 1: connect/disconnect	
s save preset z!	Save switch state between all output port and the input port to preset z, z=1~8	s save preset 1!	save to preset 1	
s recall preset z!	Call saved preset z scenarios, z=1~8	s recall preset 1!	recall from preset 1	
s clear preset z!	Clear stored preset z scenarios, z=1~8	s clear preset 1!	clear preset 1	
r preset z!	Get preset z information, z=1~8	r preset 1!	video/audio crosspoint	
<b>OUTPUT SETTING</b>				
s output y in source x!	Route input x source to output y (y=0~8, 0=all, x=1~8) x=1. input 1, x=2. input 2 x=3. input 3, x=4. input 4...	s output 1 in source 1!	output1->input1	output1->input1 output2->input2 output3->input3 output4->input4....
r output y in source!	Get output y selected input source (y=0~8, 0=all)	r output 1 in source!	output1->input1	
s output y hdcp x!	Set output hdcp (y=0~8, x=1~5) x=1. HDCP 1.4 x=2. HDCP 2.2 x=3. Follow sink x=4. Follow source x=5. USER MODE	s output 1 hdcp 2!	output 1 HDCP: HDCP 2.2	Follow sink



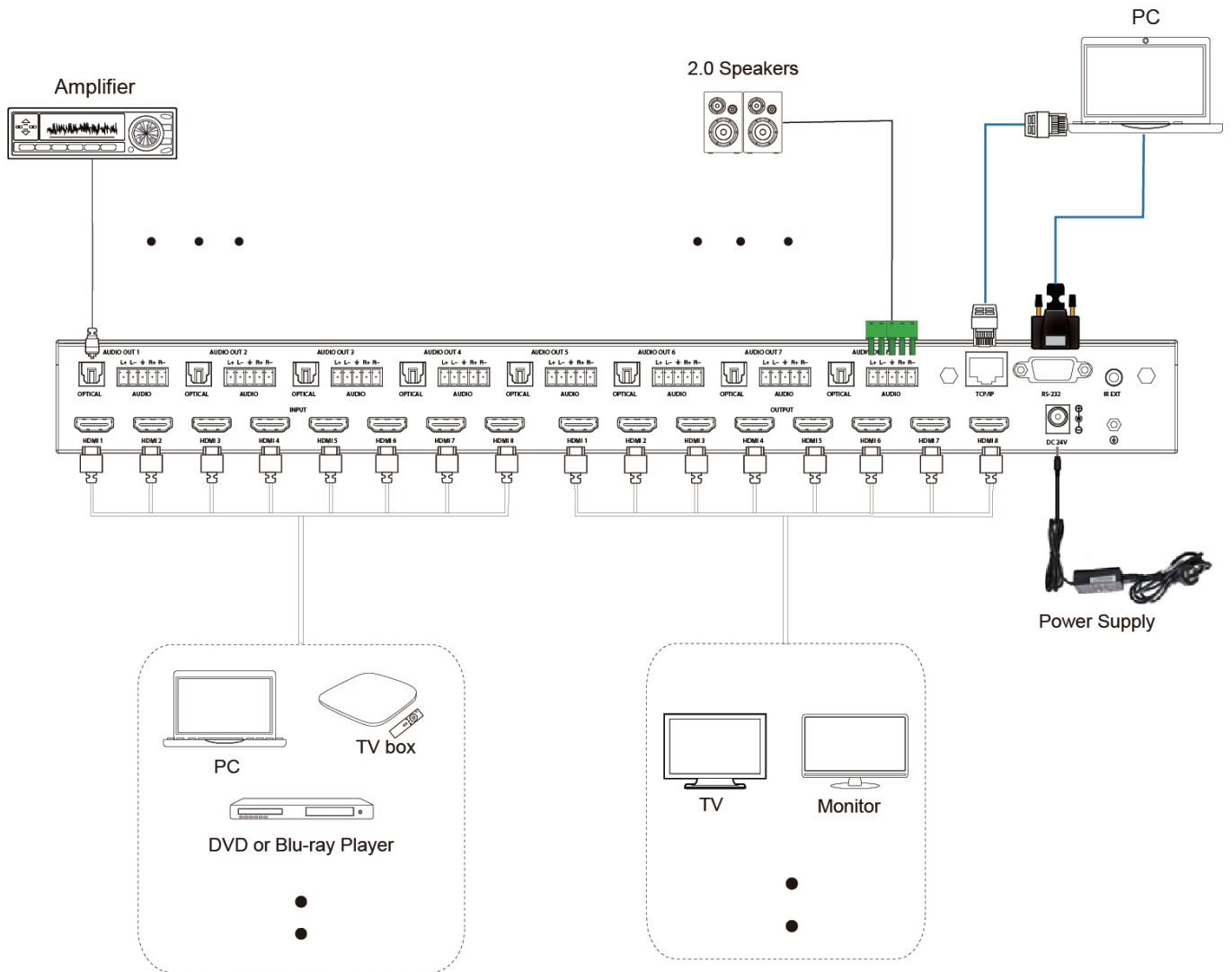
COMMAND CODE	FUNCTION DESCRIPTION	EXAMPLE	FEEDBACK	DEFAULT SETTING
r output y hdcp!	Get output y hdcp status. (y=0~8, 0=all)	r output 1 hdcp!	output 1 HDCP: HDCP 2.2	
s output y stream x!	Set output y stream enable/ disable (y=0~8, 0=all, x=0~1) x=0. stream disable x=1. stream enable	s output 1 stream 1!	output 1 stream: Enable	Enable
r output y stream!	Get output y stream status. (y=0~8, 0=all)	r output 1 stream!	output 1 stream: Enable	
s output y scaler x!	Set output y port scaler mode (y=0~8, 0=all, x=1~8) x=1. pass-through x=2. 8k->4k x=3. 8k/4k->1080p x=4. auto (follow sink EDID)	s output 1 scaler 2!	output 1 scaler mode: 8k->4k	pass-through
r output y scaler!	Get output y port scaler mode y=0~8 (0=all)	r output 1 scaler!	output 1 scaler	
s output y hdr x!	Set output y port HDR to SDR mode (y=0~8, 0=all, x=1~3) x=1. pass-through x=2. HDR to SDR X=3. auto (follow sink EDID)	s output 1 hdr 2!	output 1 HDR mode: HDR to SDR	pass-through
r output y hdr!	Get output y port HDR to SDR mode y=0~8 (0=all)	r output 1 hdr!	output 1 HDR mode: HDR to SDR	
s output y arc x!	Set output y ARC on/off (y=0~8, 0=all, x=0~1) x=0. off x=1. on	s output 1 arc 0!	output 1 arc: off	off
r output y arc!	Get output y ARC status y=0~8 (0=all)	r output 1 arc!	output 1 arc: off	
EDID SETTING				
s input x EDID z!	Set HDMI input x EDID mode (x=0~4, z=1~39) z=1. 1080P, 2.0CH, z=2. 1080P, 5.1CH, z=3. 1080P, 7.1CH z=4. 4K30, 2.0CH, z=5. 4K30, 5.1CH, z=6. 4K30, 7.1CH z=7. 4K60(420), 2.0CH, z=8. 4K60(420), 5.1CH, z=9. 4K60(420), 7.1CH z=10. 4K60(444), 2.0CH, z=11. 4K60(444), 5.1CH, z=12. 4K60(444), 7.1CH z=13. 1080P_HDR, 2.0CH,	s input 1 EDID 36!	input 1 EDID: FRL12G_8K_HDR, 7.1CH	FRL12G_8K_HDR, 7.1CH

COMMAND CODE	FUNCTION DESCRIPTION	EXAMPLE	FEEDBACK	DEFAULT SETTING
s input x EDID z! cont'd	z=14. 1080P_HDR, 5.1CH, z=15. 1080P_HDR, 7.1CH z=16. 4K30_HDR, 2.0CH, z=17. 4K30_HDR, 5.1CH, z=18. 4K30_HDR, 7.1CH z=19. 4K60(420)_HDR, 2.0CH, z=20. 4K60(420)_HDR, 5.1CH, z=21. 4K60(420)_HDR, 7.1CH z=22. 4K60(444)_HDR, 2.0CH, z=23. 4K60(444)_HDR, 5.1CH, z=24. 4K60(444)_HDR, 7.1CH z=25. 4K120(420)_HDR, 2.0CH, z=26. 4K120(420)_HDR, 5.1CH, z=27. 4K120(420)_HDR, 7.1CH z=28. 4K120(444)_HDR, 2.0CH, z=29. 4K120(444)_HDR, 5.1CH, z=30. 4K120(444)_HDR, 7.1CH z=31. FRL10G_8K_HDR, 2.0CH, z=32. FRL10G_8K_HDR, 5.1CH, z=33. FRL10G_8K_HDR, 7.1CH z=34. FRL12G_8K_HDR, 2.0CH, z=35. FRL12G_8K_HDR, 5.1CH, z=36. FRL12G_8K_HDR, 7.1CH, z=37. user1_EDID, z=38. user2_EDID, z=39. user3_EDID			
s input x edid copy output y!	Set HDMI input x EDID copy from output y (x=0~4, 0=all, y=1~8)	s input 1 edid copy output 1!	input 1 EDID: copy from output 1	
r input x EDID!	Get input x EDID mode (x=0~4, 0=all)	r input 1 EDID!	FRL12G_8K_HDR, 7.1CH	
s user x edid 00 FF FF ...!	Set user x EDID data (x=1~3) x=1. user1_EDID x=2. user2_EDID x=3. user3_EDID	s user 1 edid 00 FF FF FF ...!	user 1 EDID data: 00 FF FF FF FF FF FF 00 .....	
r user x edid!	Get user x EDID data (x=1~3)	r user 1 edid!	user 1 EDID data: 00 FF FF FF FF FF FF 00 .....	
EXT-AUDIO SETTING				
s output y exa x!	Set output y ext-audio enable/disable (y=0~8, 0=all, x=0~1) x=0. ext-audio disable x=1. ext-audio enable	s output 1 exa 1!	output 1 ext-audio: Enable	Enable
r output y exa!	Get output y ext-audio enable/disable status (y=0~8, 0=all)	r output 1 exa!	output 1 ext-audio: Enable	
s output exa mode x!	Set output ext-audio mode(x=0~2) x=0. bind to input mode x=1. bind to output mode x=2. matrix mode	s output exa mode 0!	output ext-audio mode: bind to input	bind to input
r output exa mode!	Get output ext-audio mode	r output exa mode!	output ext-audio mode: bind to input	

COMMAND CODE	FUNCTION DESCRIPTION	EXAMPLE	FEEDBACK	DEFAULT SETTING
s output y exa in source x!	Route input source audio to output ext-audio y (y=0~8, x=1~16) x=1. input 1, x=2. input 2, x=3. input 3, x=4. input 4, x=5. input 5, x=6. input 6, x=7. input 7, x=8. input 8, x=9. output 1 ARC, x=10. output 2 ARC, x=11. output 3 ARC, x=12. output 4 ARC, x=13. output 5 ARC, x=14. output 6 ARC, x=15. output 7 ARC, x=16. output 8 ARC	s output 1 exa in source 1!	output1 ext-audio->input1	output1 extaudio->input1 output2 extaudio->input2 ..... output7 extaudio->input7 output8 extaudio->input8
r output y exa in source!	Get output y ext-audio selected input source (y=0~8, 0=all)	r output 0 exa in source!	output1 ext-audio->input1 output2 ext-audio->input2 ..... output7 ext-audio->output7 ARC output8 ext-audio->output8 ARC	
<b>CEC SETTING</b>				
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	
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 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	

COMMAND CODE	FUNCTION DESCRIPTION	EXAMPLE	FEEDBACK	DEFAULT SETTING
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 ffl!	Set input x fast forward by CEC, x=0~4 (0=all input)	s cec in 1 ffl!	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=0~8 (0=all hdmi output)	s cec hdmi out 1 on!	hdmi output 1 power on	
s cec hdmi out y off!	Set hdmi output y power off by CEC, y=0~8 (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=0~8 (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=0~8 (0=all hdmi 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=0~8 (0=all hdmi 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=0~8 (0=all hdmi output)	s cec hdmi out 1 active!	hdmi output 1 active source	
NETWORK SETTING				
r ipconfig!	Get the Current IP Configuration	r ipconfig !	IP Mode: Static IP: 192.168.0.100 Subnet Mask: 255.255.255.0 Gateway: 192.168.0.1 TCP/IP port: 8000 Telnet port: 23 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 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
s ip addr xxx.xxx.xxx.	Set network IP address	s ip addr 192.168.0.100!	Set IP address:192.168.0.100 (Please use "s net reboot!" command 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 address: 192.168.0.100	
s subnet xxx.xxx.xxx.xxx!	Set network subnet mask	s subnet 255.255.255.0!	Set subnet mask: 255.255.255.0 (Please use "s net reboot!" command 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	
gateway xxx.xxx.xxx.xxx!	Set network gateway	s gateway 192.168.0.1!	Set gateway: 192.168.0.1 (Please use "s net reboot!" command to apply new config!) DHCP on, Device can't config gateway, set DHCP off first.	
r gateway!	Get network gateway	r gateway!	Gateway: 192.168.0.1	
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	
r telnet port!	Get network telnet port	r telnet port!	Telnet port: 23	
s net reboot!	Reboot network modules	s network reboot!	Network reboot... IP Mode: Static IP: 192.168.0.100 Subnet Mask: 255.255.255.0 Gateway: 192.168.0.1 TCP/IP port=8000 Telnet port=23 Mac address: 00:1C:91:03:80:01	



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