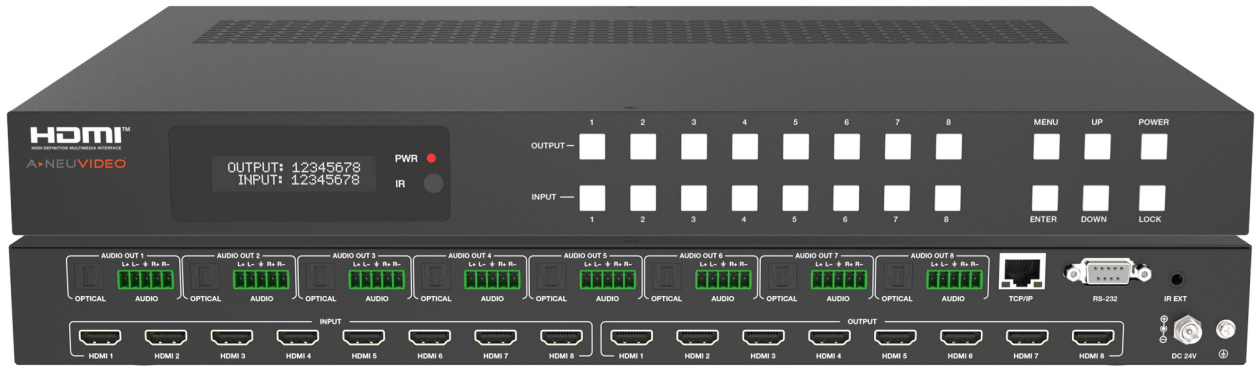


ANI-VW-88UHD

8x8 4K60 UHD HDR Quad/PIP/PoP Multiviewer Video Switcher



PACKAGE CONTENTS

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

- 18Gbps 8x8 Matrix
- 24V/3.75A Locking Power Supply
- IR Remote
- IR Wideband Receiver Cable (1.5M)
- USB to RS-232 Serial Cable (USB A to RS-232 serial DB9 male connector)
- (8) 5pin-3.5mm Phoenix Connector (male)
- (8) Machine Screw
- (8) Mounting Ear

4K @60Hz
UHD

A-NeuVideo.com

Frisco, Texas 75036

A-NEUVIDEO[®]



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.

▶ CONTENTS

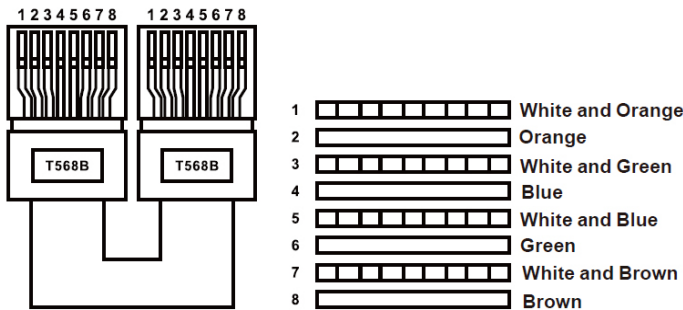
INTRODUCTION1
 FEATURES / SPECIFICATIONS2
 OPERATION CONTROLS & FUNCTIONS3
 IR REMOTE5
 IR CABLE PIN ASSIGNMENT & IR CONTROL SYSTEM.....6
 LCD DISPLAY NAVIGATION7
 EDID MANAGEMENT.....8
 WEB GUI USER GUI.....10
 RS-232 CONTROL COMMAND.....18
 APPLICATION EXAMPLE.....26

INTRODUCTION

The 18Gbps 8x8 Matrix is a perfect solution for video transmission from (8) HDMI sources to (8) HDTV displays. Video resolution is up to 4K@60Hz 4:4:4. Each output supports resolution downscaling individually. It features video wall function and built-in WEB server. It also has 8 routes L/R audio output channels to output balanced audio. And switching ensures a smooth picture transition without frame loss. This matrix can be controlled via front panel buttons, IR remote, RS-232 and Web GUI. This product has a 3 year warranty.

CAUTION

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



Direct Interconnection Method

VIDEO RESOLUTION HDMI CABLE LENGTH (HDMI IN / OUT):

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

- 4K60: 5M/16ft
- 4K30: 10M/32ft
- 1080P60: 15M/50ft

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 w(8) 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.

We assume no responsibility for any inaccuracies that may be contained in this document. We make no commitment to update or to keep current the information contained in this document.

We reserve the right to make improvements to this document and/or product at any time and without notice.

COPYRIGHT NOTICE

No part of this document may be reproduced, transmitted, transcribed, stored in a retrieval system, or any of its part translated into any language or computer file, in any form or by any means — electronic, mechanical, magnetic, optical, chemical, manual, or otherwise — without the express written permission and consent.

© Copyright 2024. All Rights Reserved.
 Version 1.1 NOV 2024

TRADEMARK ACKNOWLEDGMENTS

All products or service names mentioned in this document may be trademarks of the companies with which they are associated.

FEATURES

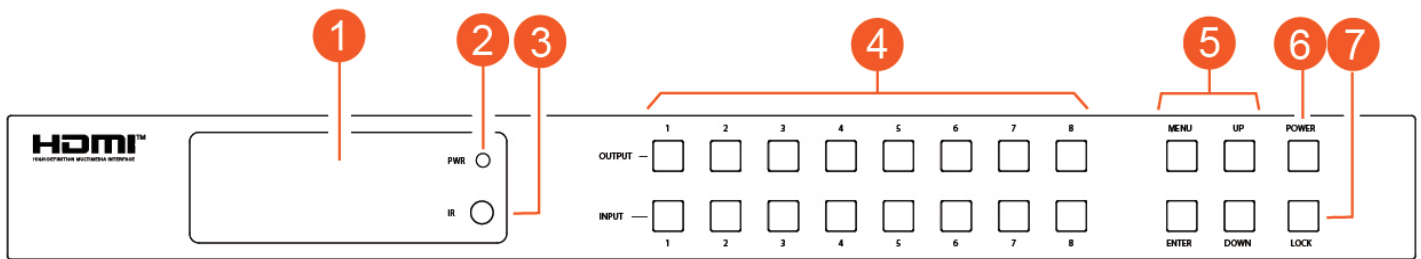
- HDCP 2.2 compliant
- Supports video resolution up to 4K@60Hz 4:4:4 and 18Gbps video bandwidth, as specified in HDMI 2.0b
- Supports (8) routed L/R balanced audio output
- Each output supports horizontal mirror and vertical mirror
- Blank screen, blue screen and output off are optional when no signal outputs
- HDMI audio format: LPCM, Dolby Digital/Plus/EX, Dolby True HD, DTS, DTS-EX, DTS-96/24, DTS High Res, DTS-HD Master Audio
- Supports CEC control, and multiple video resolution output
- Supports power-off memory and advanced EDID management
- Control via front panel buttons, IR remote, RS-232, and Web GUI
- Compact design for easy and flexible installation, standard height of 1RU. **Installation requires 2RU.** (pg. 3)**

SPECIFICATIONS

- **Input Ports:** (8) HDMI INPUT [Type A, 19-pin female]
- **Output Ports:**
 - (8) HDMI OUTPUT [Type A, 19-pin female]
 - (8) OPTICAL AUDIO OUT [S/PDIF]
 - (8) L/R AUDIO OUT [3.5mm, 5pin Phoenix Connector]
- **Control Ports:**
 - TCP/IP [RJ45]
 - RS-232 [D-Sub 9]
 - IR EXT [3.5mm, Stereo Mini-jack]
- **HDMI Compliance:** HDMI 2.0
- **HDCP Compliance:** HDCP 2.2
- **Video Bandwidth:** 594MHz/18Gbps
- **Video Resolution:** Up to 4K@60Hz 4:4:4
- **Color Space:** RGB, YCbCr 4:4:4, YCbCr 4:2:2, YCbCr 4:2:0
- **Color Depth:** 8/10/12bit
- **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 Extracted:**
 - **Optical Outputs:** LPCM 2.0CH/Dolby/DTS 5.1CH
 - **Balanced Analog Audio Outputs:** LPCM 2CH-HD
- **IR Level:** 5Vp-p
- **IR Frequency:** Wideband 20K-60KHz
- **ESD Protection:** Human body model — ±8kV (Air-gap discharge) & ±4kV (Contact discharge)
- **Dimensions (WxDxH):** 17.2 x 11 x 1.75 in (440x300x44.5mm)
- **Housing & Color:** Black Metal Enclosure
- **Weight:** 8.7 lbs / 3.95kg
- **Power Supply Input:** **Input:** AC 100-240V 50/60Hz, **Output:** DC 24V/3.75A (US/EU standard, CE/FCC/UL certified)
- **Power Consumption:** 25W (Max)
- **Operating Temperature:** 32 - 104°F / 0 - 40°C
- **Storage Temperature:** -4 - 140°F / -20 - 60°C
- **Relative Humidity:** 20 - 90% RH (no-condensing)

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

FRONT PANEL



- ❶ **OLED SCREEN:** Display matrix switching status, input/output port, EDID, baud rate, IP address, etc.
- ❷ **PWR INDICATOR:** The LED is on green when the device is working. The LED is on red when the device is on standby.
- ❸ **IR:** IR signal receiver, receiving the signal from the IR remote.
- ❹ **INPUT / OUTPUT BUTTONS:** You need to press an output button (1~8) firstly and then press an input button (1~8) to select the corresponding input source for the output port.
- ❺ **MENU / ENTER / UP /DOWN:** Take RESET, for example.
 1. On the initial LCD display screen, press “MENU” button. There are **OUTPUT / MV / VM / INPUT / EXTAUDIO / SET** items to be selected.
 2. Press the “UP/DOWN” button to select “SET” item.
 3. Press the “ENTER” button to enter into the next level menu. There are **LCD ONTIME / BAUD RATE / IP INFO / BG PATTERN / REBOOT / RESET** items to be selected.
 4. Press the “UP/DOWN” button to select “RESET” item.
 5. Press the “ENTER” button to confirm the selection.
 6. Press the “ENTER” button, and then it will prompt: SUCCESS!
- ❻ **POWER BUTTON:** Press the button for 1 second to enter the standby mode, then quickly press it to wake up the device.
- ❼ **LOCK BUTTON:** Short press the button to lock front panel buttons (Except the power button); press it again to unlock.

Note:

- Pressing the “MENU” button will return to the previous menu.
- In any level menu, it will return to the initial display screen if no operation goes on within 10 seconds.

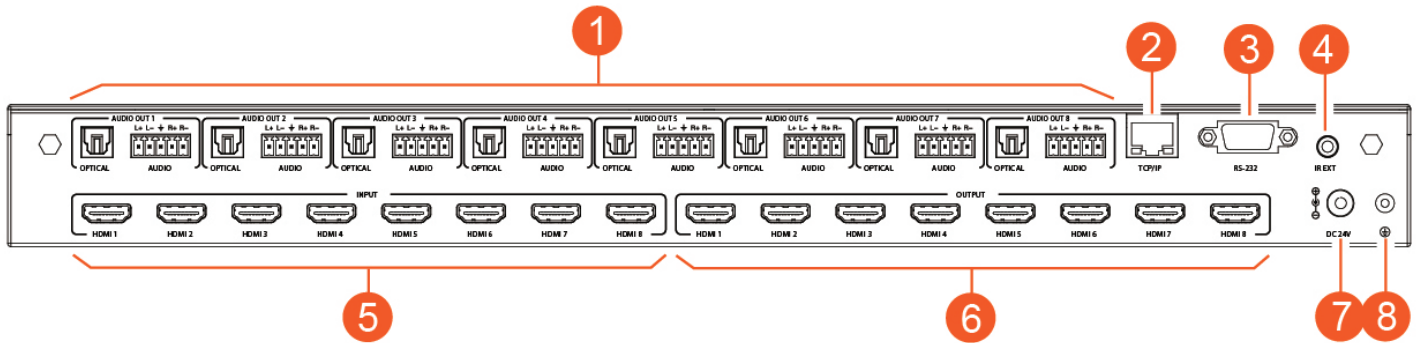
****2RU Installation Required**

The ANI-VW-88UHD has two (2) top mounted exhaust fans. Installation requires a minimum of **1RU above** the top of the chassis.

Exhaust Fan Location



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-, R+, R-

Unbalanced connection method: L+, R+

2 TCP/IP: TCP/IP control port, connected to PC or router with a CAT cable.

3 RS-232 PORT: Connect 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 connected to the “IR EXT” port to receive the IR remote signal.

5 HDMI INPUT PORTS (1~8): HDMI input ports, connected to HDMI source devices such as Blu-ray player or PC with an HDMI cable.

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

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

8 GND: Connect the housing to the ground.

Note:

1. You can restore the factory settings via the front panel, web GUI or RS-232 command.
2. Power cut memory function is available except for standby status and panel lock.
3. The RS-232 and Web will be available in a few minutes when the device is powered on.

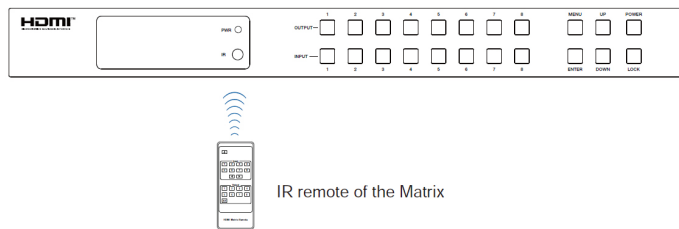
REMOTE CONTROL

- ❶ **POWER ON OR STANDBY:** Power on the Matrix or set it to standby mode.
- ❷ **INPUT 1/2/3/4/5/6/7/8:** Press these buttons to select the input source.
- ❸ **◀ ▶:** Select the last or next input source.
- ❹ **OUTPUT 1/2/3/4/5/6/7/8:** Select the output display device.
- ❺ **ALL:** Select all output simultaneously. **For example**, when you press the “All” button and then press input “1” button, at this time the input “1” source will be output to all display devices.

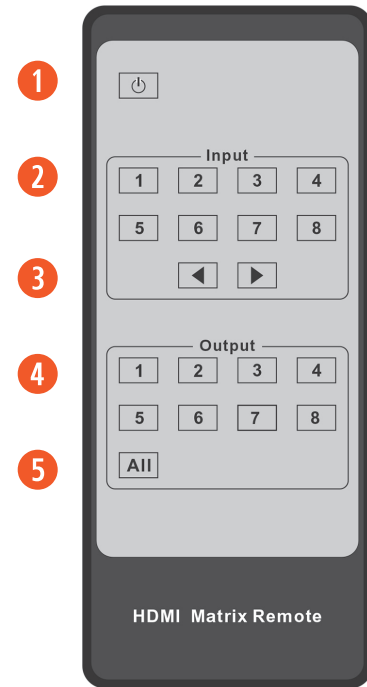
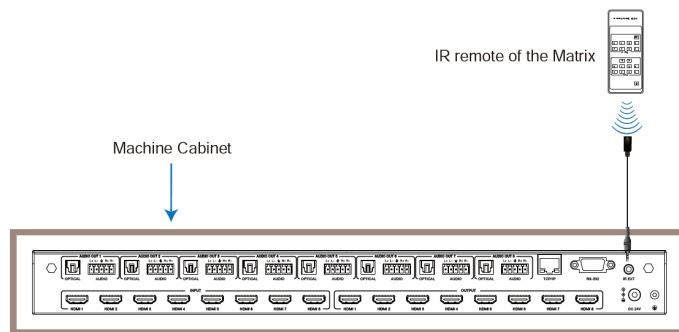
OPERATION INSTRUCTION: You need to press the output button firstly and then press input button to select the corresponding input source.
For example, press Output-X (X means output button from 1 to 8, including “All” button), then press Input-Y (Y means input button from 1 to 8)

The Matrix can be selected input and output source 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 8 meters when the IR remote is directly faced to the matrix, and 5 meters when the using angle is $\pm 45^\circ$. The diagram is shown as below:



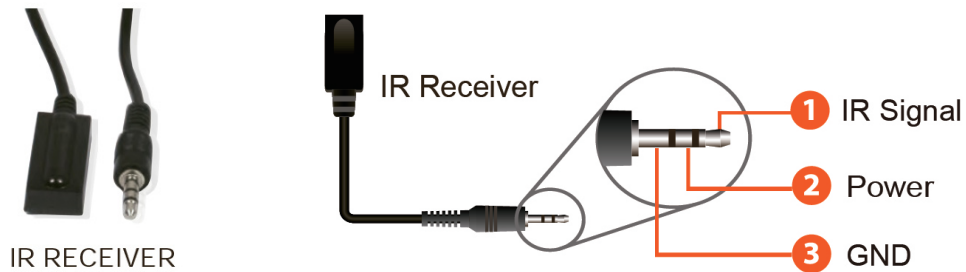
The second way: If the IR receiver window of the Matrix is blocked or the Matrix is installed in a closed area out of infrared line of sight, the IR receiver cable can be inserted to the “IR EXT” port to receive the IR remote signal. The furthest distance of using the IR remote is 5 meters when the IR remote is directly faced to the IR receiver head, and 3 meters when the using angle is $\pm 45^\circ$. The diagram is shown as below.



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



IR CONTROL SYSTEM

This product supports one-way IR control. When the matrix is connected to IR receiver cable and IR blaster cable, you can control the corresponding input source devices through IR signal transmission remotely at the side of display devices. Four IR blaster cables connected to the IR outputs must be placed near the four HDMI input sources. Four IR receiver cables connected to the IR inputs must be placed near the display devices connected to the four HDMI outputs. IR matrix follows the HDMI matrix. For example, if HDMI INPUT3 is selected for HDMI OUT1 to output, the signal of IR OUT3 near the HDMI INPUT3 is emitted to IR IN1 near the HDMI OUT1. Now you can use the IR remote of the DVD connected to HDMI INPUT3 to control it at the side of the TV connected to HDMI OUT1. Similarly, if HDMI INPUT1 is selected for all HDMI OUT1/2/3/4 to output, the signal of IR OUT1 near the HDMI INPUT1 is emitted to IR IN1/2/3/4 near the four HDMI OUT.

LCD DISPLAY NAVIGATION

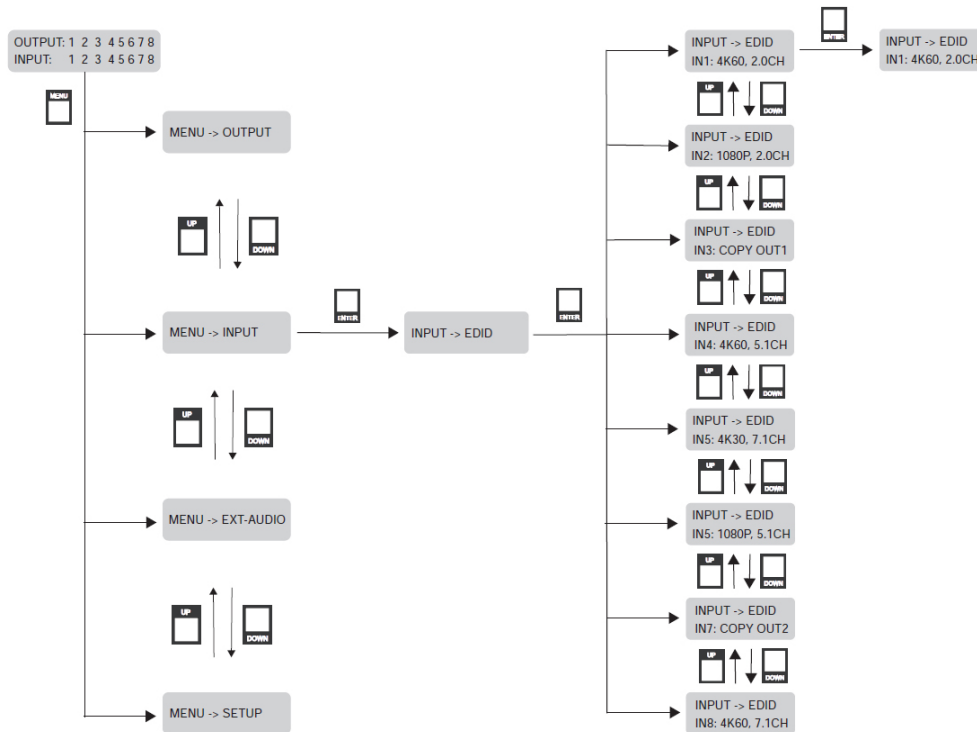
The buttons on the the front panel are used for LCD display navigation, including **INPUT(1~8)**, **OUTPUT(1~8)**, **MENU**, **ENTER**, **UP**, **DOWN**. Menu items are as follows:

| LEVEL 1 | LEVEL 2 | LEVEL 3 | LEVEL 4 |
|----------|------------|---|--|
| OUTPUT | RESO | OUT1 / OUT2 / OUT3 / OUT4 / OUT5 / OUT6 / OUT7 / OUT8 / OUT5 / OUT6 / OUT7 / OUT8 | 4Kx2K60W, 4Kx2K50W, 4Kx2K60, 4Kx2K50, 4Kx2K30, 1080P60, 1080P50, 1080i60, 1080i50, 1920x1200P60RB, 1360x768P60, 1280x800P60, 720P60, 720P50, XGA60, AUTO |
| | CSC | OUT1 / OUT2 / OUT3 / OUT4 / OUT5 / OUT6 / OUT7 / OUT8 / OUT5 / OUT6 / OUT7 / OUT8 | RGB 444 YUV 444 YUV 422 YUV 420 |
| | STREAM | OUT1 / OUT2 / OUT3 / OUT4 / OUT5 / OUT6 / OUT7 / OUT8 | ENABLE DISABLE |
| | MIRROR | OUT1 / OUT2 / OUT3 / OUT4 / OUT5 / OUT6 / OUT7 / OUT8 | OFF H MIRROR V MIRROR HV MIRROR |
| INPUT | EDID | IN1 / IN2 / IN3 / IN4 / IN5 / IN6 / IN7 / IN8 | 4K60, 2.0CH / 4K60, 5.1CH 4K60, 7.1CH / 4K30, 2.0CH 4K30, 5.1CH / 4K30, 7.1CH 1080P, 2.0CH / 1080P, 5.1CH 1080P, 7.1CH / 1920x1200, 2.0CH / 1360x768, 2.0CH / 1024x768, 2.0CH / USER1 / USER2 / COPY OUT1 / COPY OUT2 / COPY OUT3 / COPY OUT4 / COPY OUT5 / COPY OUT6 / COPY OUT7 / COPY OUT8 |
| EXTAUDIO | OUT | OUT1 / OUT2 / OUT3 / OUT4 / OUT5 / OUT6 / OUT7 / OUT8 | ENABLE DISABLE |
| | MODE | BIND TO INPUT / BIND TO OUTPUT / AUDIO MATRIX | / |
| | MATRIX | OUT1 / OUT2 / OUT3 / OUT4 / OUT5 / OUT6 / OUT7 / OUT8 | INPUT1, INPUT2, INPUT3, INPUT4, INPUT5, INPUT6, INPUT7, INPUT8 |
| | V BEZEL | 0-10 | |
| SETUP | LCD ONTIME | OFF / ALWAYS ON / 15 SECONDS / 30 SECONDS / 60 SECONDS | / |
| | BAUD RATE | 4800 / 9600 / 19200 / 38400 / 57600 / 115200 | / |
| | IP INFO | DHCP:ON / OFF | / |
| | REBOOT | / | / |
| | RESET | / | / |

EDID MANAGEMENT

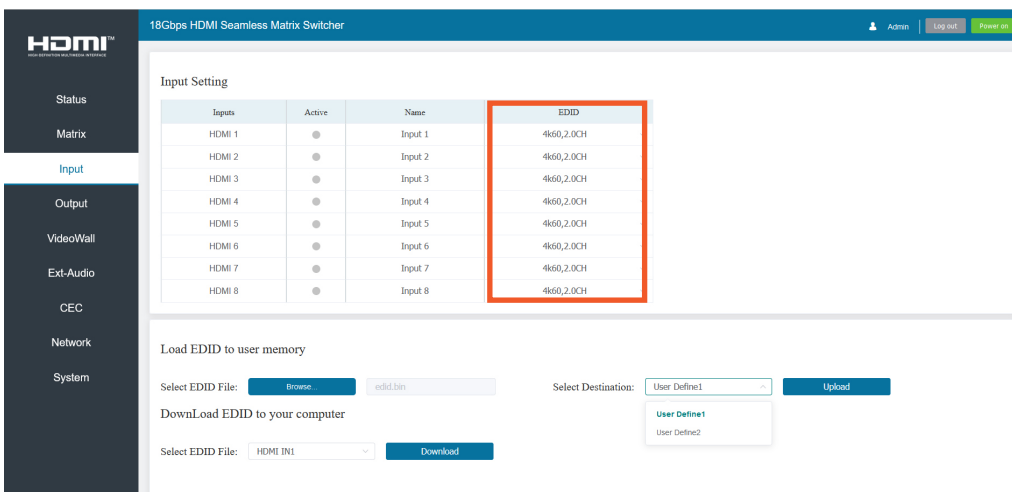
This Matrix has 12 factory defined EDID settings, 2 user-defined EDID modes and 8 copy EDID modes. You can select defined EDID mode or copy EDID mode to input port through front panel buttons, RS-232 control or Web GUI.

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 |
|-----------|------------------|
| 1 | 4K60, 2.0CH |
| 2 | 4K60, 5.1CH |
| 3 | 4K60, 7.1CH |
| 4 | 4K30, 2.0CH |
| 5 | 4K30, 5.1CH |
| 6 | 4K30, 7.1CH |
| 7 | 1080P, 2.0CH |
| 8 | 1080P, 5.1CH |
| 9 | 1080P, 7.1CH |
| 10 | WUXGA, 2.0CH |
| 11 | 768P, 2.0CH |
| 12 | XGA, 2.0CH |
| 13 | USER1 |
| 14 | USER2 |
| 15 | COPY OUT1 |
| 16 | COPY OUT2 |
| 17 | COPY OUT3 |
| 18 | COPY OUT4 |
| 19 | COPY OUT5 |
| 20 | COPY OUT6 |
| 21 | COPY OUT7 |
| 22 | COPY OUT8 |

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

The first way: You can get the IP address via IR remote. Pressing the INFO button on remote, the IP address and serial baud will be displayed in the top right corner of the screen.

The second way: You can get the IP address via RS-232 control. Send the command “**r ip addr!**” through an ASCII Command tool, and then you’ll get the feedback information as shown: **IP: 192.168.0.100**

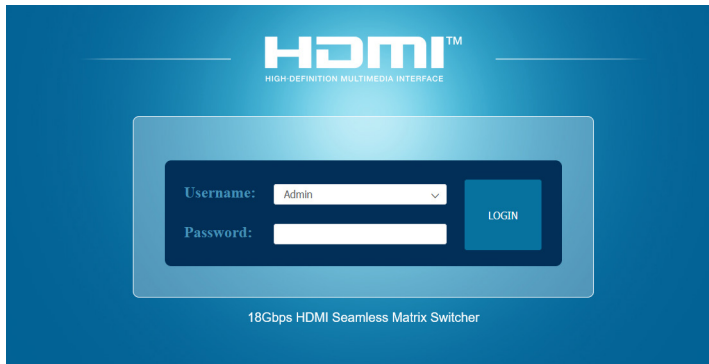
IP:192.168.0.100 is the IP Address of the Matrix (the IP address is variable, depending on what the specific machine returns). For the details of ASCII control, please refer to “**RS-232 Control Command**”. After entering the Web GUI page, there will be a Login page, as shown below:

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.

IP: 192.168.0.100

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



Select the Username and enter the password. The default password is:

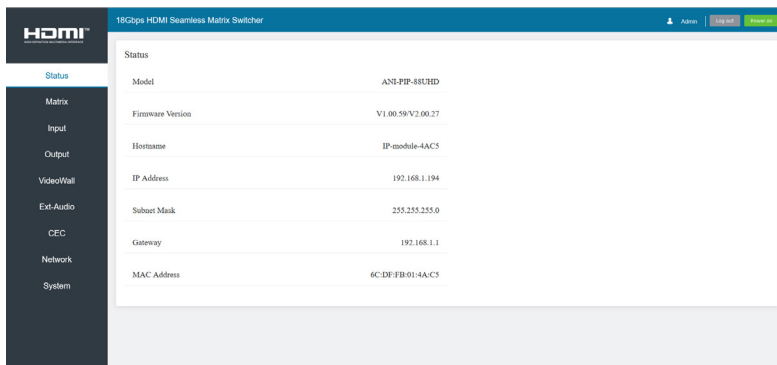
Username **User / Admin**

Password **user / admin**

Then click the “**LOGIN**” button and the following Status page will appear.

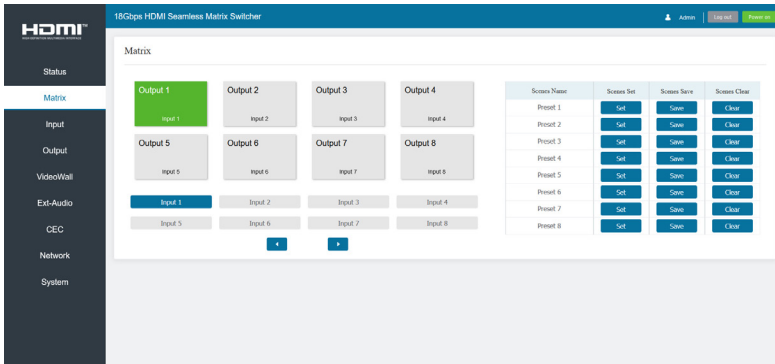
STATUS PAGE

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



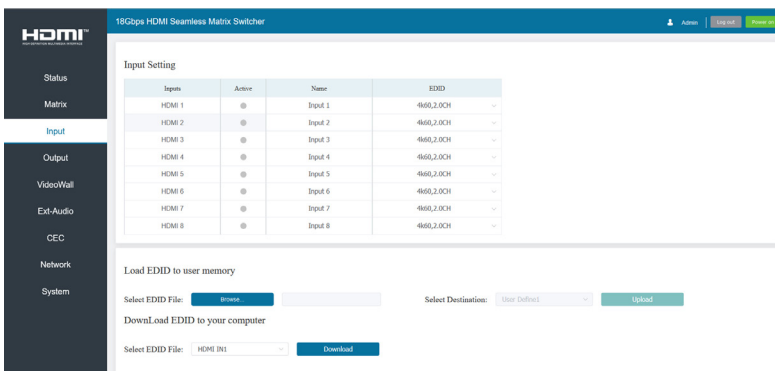
MATRIX PAGE

In Matrix page, you can configure the HDMI matrix freely and create a preset if needed.



- 1. Matrix:** you can click and select an output (1~8) firstly, and then select an input source (1~8) below which will appear in the selected output area. One route of video output configuration is completed. You can switch it freely.
- 2. Preset:** you can set, save or clear any route video matrix configuration if needed.

INPUT PAGE



- 1. Input:** Input channel of the device.
- 2. Active:** It indicates whether the channel is connected to a signal source. It is green if connected, and gray if not connected.
- 3. Name:** The input channel's name. You can modify it by entering the corresponding name (max length: 31 characters) in the input box.
- 4. EDID:** It indicates the current EDID of the device. You can click the drop-down menu to select other EDIDs.
- 5. 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.

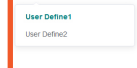
Load EDID to user memory

Select EDID File:

DownLoad EDID to your computer

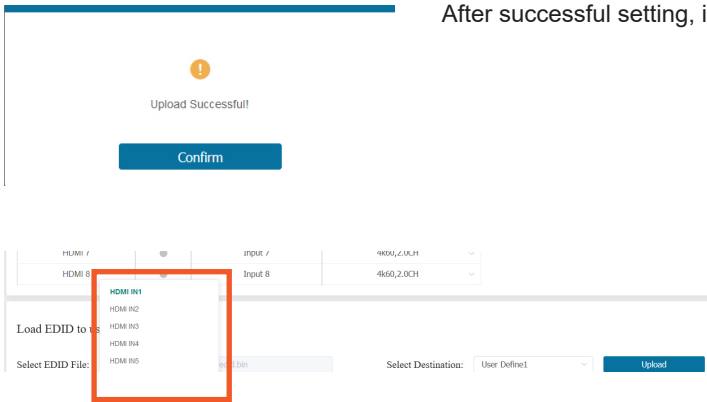
Select EDID File:

Select Destination:



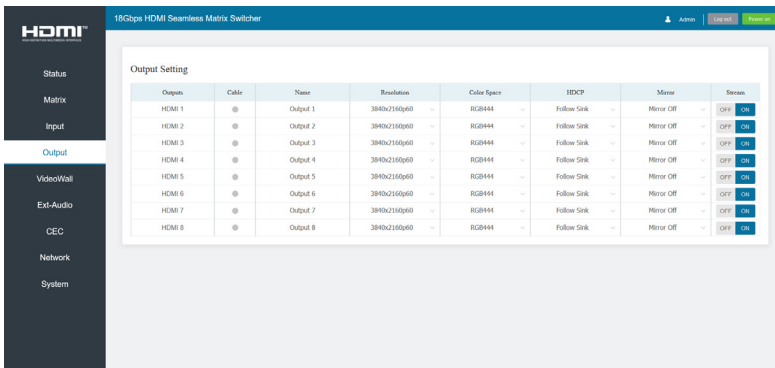
Make sure to select the correct file, then you can check the name of the selected file. Then select destination **"User Define1/User Define2"**, and click **"Upload"**.

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.
- 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: 50 characters) in the input box.
- 4. Output Resolution:** Set the video resolution for current output. Click the drop-down menu and set the resolution you need. There are 16 options to be selected. If you select **AUTO**, it will output the proper video resolution according to the EDID of the display device.

Output Setting

| Output | Cable | Name | Resolution | Color Space | HDCP | Mirror | Stream |
|--------|-------|----------|--------------|-------------|-------------|------------|--------|
| HDMI 1 | ● | Output 1 | 3840x2160p60 | RGB444 | Follow Sink | Mirror Off | OFF ON |
| HDMI 2 | ● | Output 2 | 4096x2160p60 | RGB444 | Follow Sink | Mirror Off | OFF ON |
| HDMI 3 | ● | Output 3 | 4096x2160p50 | RGB444 | Follow Sink | Mirror Off | OFF ON |
| HDMI 4 | ● | Output 4 | 4096x2160p30 | RGB444 | Follow Sink | Mirror Off | OFF ON |
| HDMI 5 | ● | Output 5 | 4096x2160p25 | RGB444 | Follow Sink | Mirror Off | OFF ON |
| HDMI 6 | ● | Output 6 | 4096x2160p24 | RGB444 | Follow Sink | Mirror Off | OFF ON |
| HDMI 7 | ● | Output 7 | 3840x2160p60 | RGB444 | Follow Sink | Mirror Off | OFF ON |
| HDMI 8 | ● | Output 8 | 3840x2160p60 | RGB444 | Follow Sink | Mirror Off | OFF ON |

5. Color Space: Set the color space for current output. Click the drop-down menu and select the item as required. There are four options to be selected.

Output Setting

| Output | Cable | Name | Resolution | Color Space | HDCP | Mirror | Stream |
|--------|-------|----------|--------------|-------------|-------------|------------|--------|
| HDMI 1 | ● | Output 1 | 3840x2160p60 | RGB444 | Follow Sink | Mirror Off | OFF ON |
| HDMI 2 | ● | Output 2 | 3840x2160p60 | RGB444 | Follow Sink | Mirror Off | OFF ON |
| HDMI 3 | ● | Output 3 | 3840x2160p60 | RGB444 | Follow Sink | Mirror Off | OFF ON |
| HDMI 4 | ● | Output 4 | 3840x2160p60 | YCBCR444 | Follow Sink | Mirror Off | OFF ON |
| HDMI 5 | ● | Output 5 | 3840x2160p60 | YCBCR422 | Follow Sink | Mirror Off | OFF ON |
| HDMI 6 | ● | Output 6 | 3840x2160p60 | YCBCR420 | Follow Sink | Mirror Off | OFF ON |
| HDMI 7 | ● | Output 7 | 3840x2160p60 | RGB444 | Follow Sink | Mirror Off | OFF ON |
| HDMI 8 | ● | Output 8 | 3840x2160p60 | RGB444 | Follow Sink | Mirror Off | OFF ON |

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

Output Setting

| Outputs | Cable | Name | Resolution | Color Space | HDCP | Mirror | Stream |
|---------|-------|----------|--------------|-------------|---------------|------------|--------|
| HDMI 1 | ● | Output 1 | 3840x2160p60 | RGB444 | Follow Sink | Mirror Off | OFF ON |
| HDMI 2 | ● | Output 2 | 3840x2160p60 | RGB444 | Follow Sink | Mirror Off | OFF ON |
| HDMI 3 | ● | Output 3 | 3840x2160p60 | RGB444 | HDCP 1.4 | Mirror Off | OFF ON |
| HDMI 4 | ● | Output 4 | 3840x2160p60 | RGB444 | HDCP 2.2 | Mirror Off | OFF ON |
| HDMI 5 | ● | Output 5 | 3840x2160p60 | RGB444 | Follow Sink | Mirror Off | OFF ON |
| HDMI 6 | ● | Output 6 | 3840x2160p60 | RGB444 | Follow Source | Mirror Off | OFF ON |
| HDMI 7 | ● | Output 7 | 3840x2160p60 | RGB444 | User Mode | Mirror Off | OFF ON |
| HDMI 8 | ● | Output 8 | 3840x2160p60 | RGB444 | Follow Sink | Mirror Off | OFF ON |

There are five options to be selected:

- HDCP1.4: HDCP 1.4 compliant.
- HDCP2.2: 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. Mirror: Click the drop-down menu and set the mirror mode for current output.

There are four options to be selected:

- Mirror Off: Turn off the mirror function.
- H Mirror On: Set horizontal mirror for the output signal.
- V Mirror On: Set vertical mirror for the output signal.
- H+V Mirror On: Set horizontal and vertical mirror for the output signal.

Output Setting

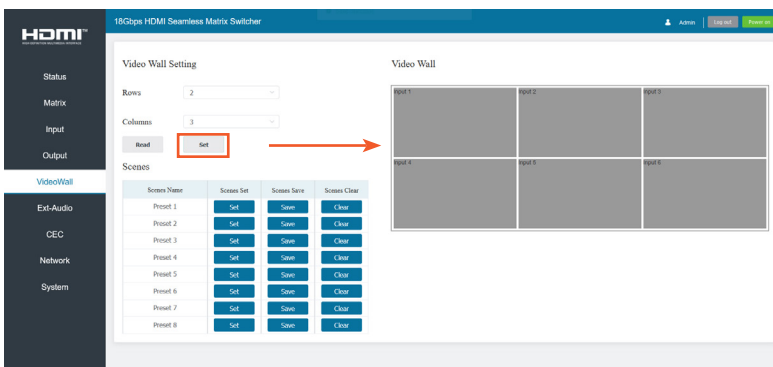
| Outputs | Cable | Name | Resolution | Color Space | HDCP | Mirror | Stream |
|---------|-------|----------|--------------|-------------|-------------|---------------|--------|
| HDMI 1 | ● | Output 1 | 3840x2160p60 | RGB444 | Follow Sink | Mirror Off | OFF ON |
| HDMI 2 | ● | Output 2 | 3840x2160p60 | RGB444 | Follow Sink | Mirror Off | OFF ON |
| HDMI 3 | ● | Output 3 | 3840x2160p60 | RGB444 | Follow Sink | Mirror Off | OFF ON |
| HDMI 4 | ● | Output 4 | 3840x2160p60 | RGB444 | Follow Sink | Mirror Off | OFF ON |
| HDMI 5 | ● | Output 5 | 3840x2160p60 | RGB444 | Follow Sink | Mirror Off | OFF ON |
| HDMI 6 | ● | Output 6 | 3840x2160p60 | RGB444 | Follow Sink | H Mirror On | OFF ON |
| HDMI 7 | ● | Output 7 | 3840x2160p60 | RGB444 | Follow Sink | V Mirror On | OFF ON |
| HDMI 8 | ● | Output 8 | 3840x2160p60 | RGB444 | Follow Sink | H+V Mirror On | OFF ON |

8. Stream: Turn on/off the output stream.

VIDEO WALL PAGE

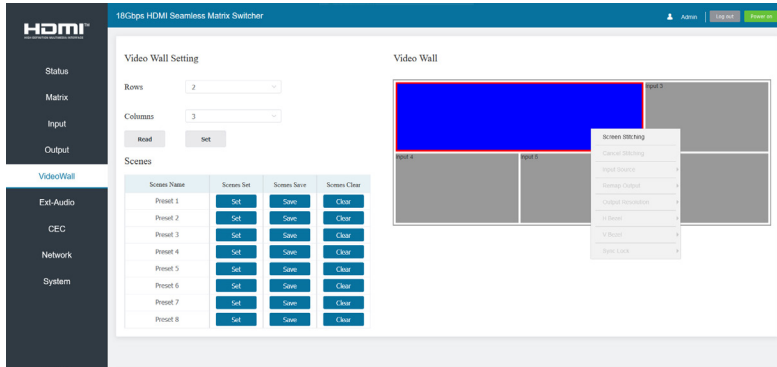
You can do the following operations on the Video Wall page:

- 1. Video Wall Setting:** Set the splicing mode, such as 1x8, 2x3. The range of Rows and Columns is 1~8. Click **Read** button to refresh the system setting. Click **Set** button to confirm current setting.
- 2. Presets:** Set, save or clear the presets. You can rename it if needed, and the max length of a preset name is 50 characters.
- 3. Video Wall:** After setting rows and columns, click **Set** button and it will be displayed in Video Wall area. Aspect ratio of each window is 16:9.



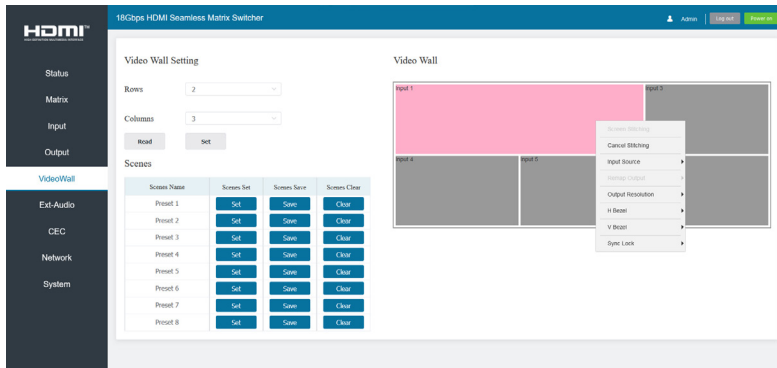
In Video Wall area, you can drag the mouse and choose the adjacent screens to splice. The splicing screen is distinguished by a color automatically.

Note: Before splicing, it is necessary to assign each spliced screen to the output port via right-click menu.



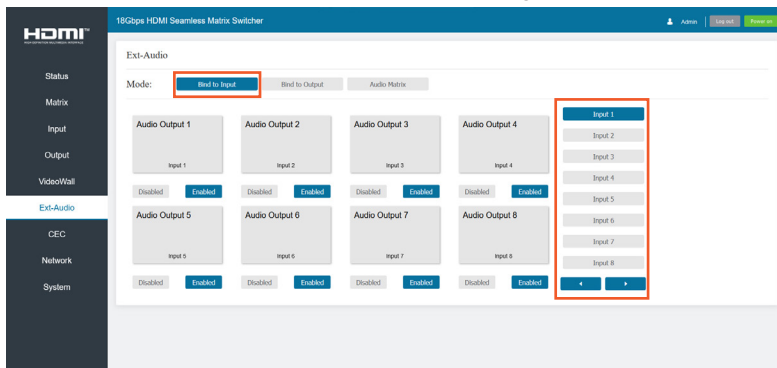
To the splicing screens, you can configure them at the same time by the right-click menu.

- Cancel the splicing screens.
- Select an input source.
- Specify an output resolution.
- Adjust horizontal and vertical bezel.
- Set the screens output synchronization.

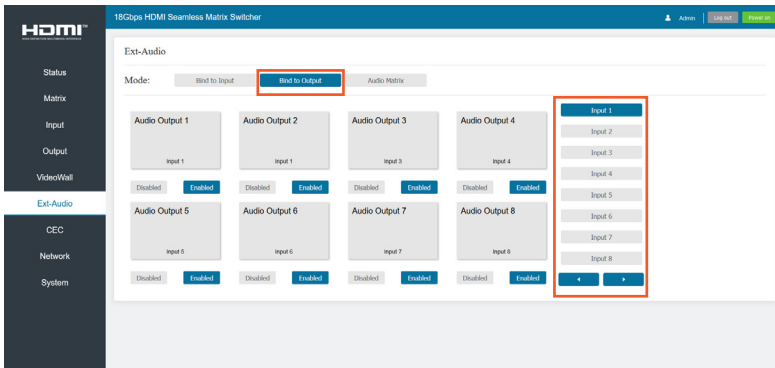


EXT-AUDIO PAGE

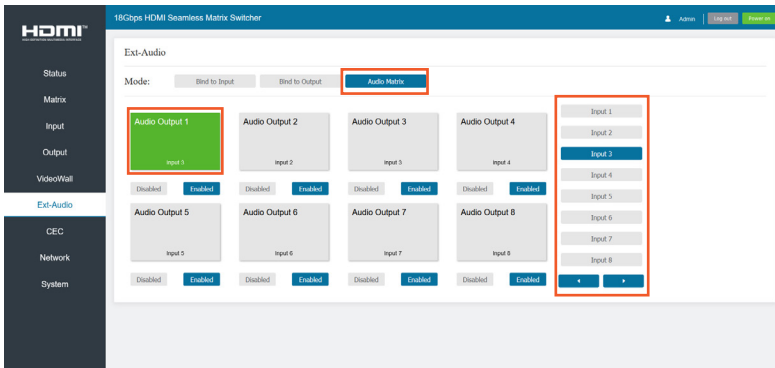
You can set the audio mode on the Ext-Audio page. There are three modes: Bind to Input, Bind to Output and Audio Matrix.



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 can't be selected.



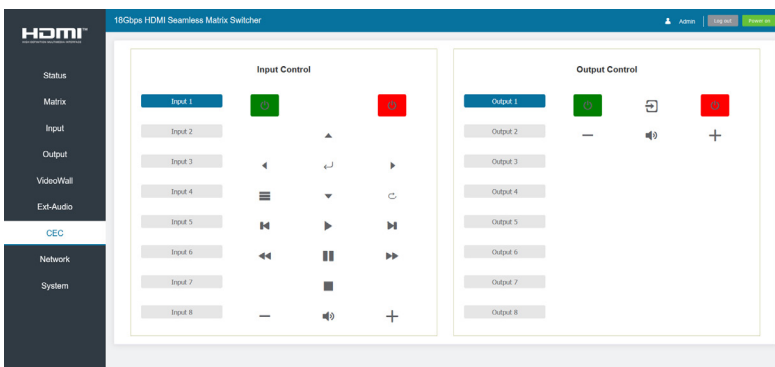
Bind to Output: The Audio Output follows the HDMI Output. For example, if the HDMI Input 3 is assigned to the HDMI Output 1, the audio of AUDIO Output 1 which follows HDMI Output 1 is from HDMI Input 3. Click **Enable/Disable** button to turn on/off the audio channel. In this mode, the input sources 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 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

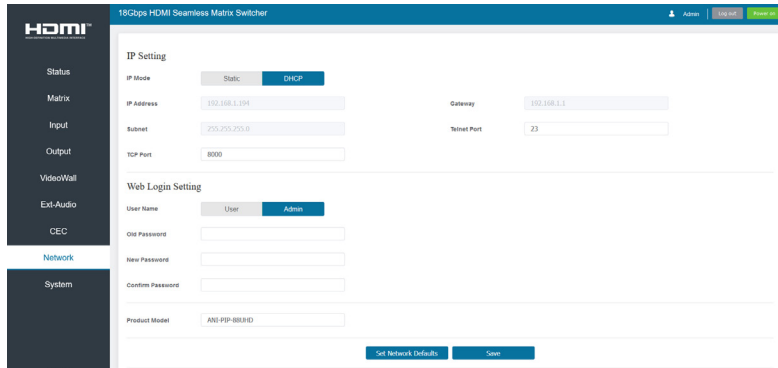
You can perform CEC management on this page. Inputs and Outputs can be controlled by clicking on the corresponding icons.



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.

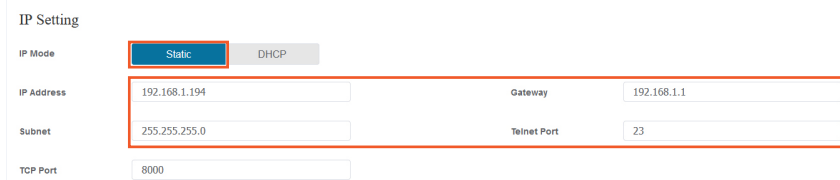
2. Output Control: Select the output on the left, and then click on the icons to control the operation of the display, such as power on/off, volume +/-, etc.

NETWORK PAGE

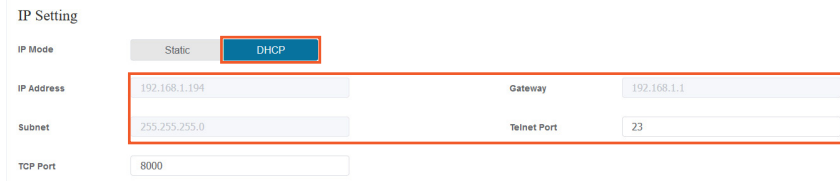


You can do the following operations on the Network page:

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.

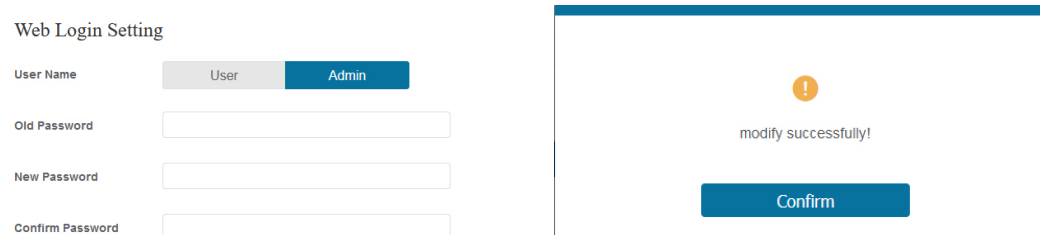


If the Mode is **“Static”**, you can set manually the IP Address/Gateway/Subnet/Telnet Port as required.



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.

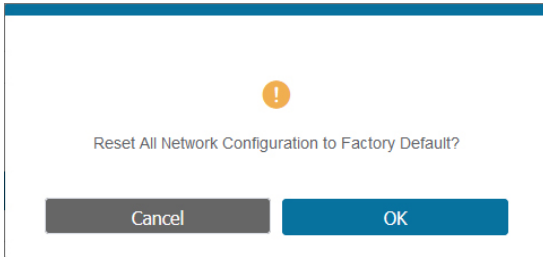
2. Modify User Password: Click the **“User”** button, enter the correct Old Password, New Password, and Confirm Password, and then click **“Save”**. After successful modification, there will be a prompt, as shown in the following figure:



Note: Input rules for changing passwords:

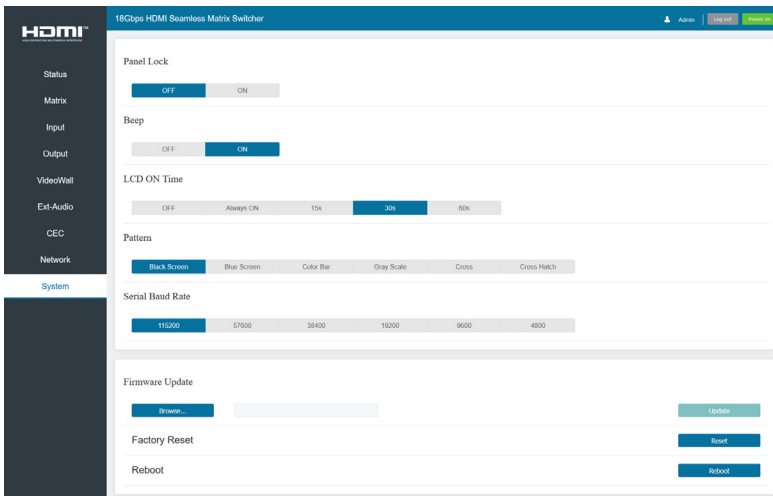
- (1) The password can't be empty.
- (2) New Password can't be the same as Old Password.
- (3) New Password and Confirm Password must be the same.

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



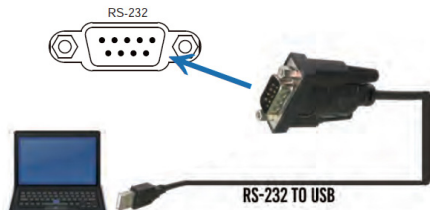
You can do the following operations on the System page:

- 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 set the display duration time (OFF/Always ON/15s/30s/60s).
- 4. Pattern:** Click to select 6 patterns for the LCD screen.
- 5. Serial Baud Rate:** Click the value to set the Serial Baud Rate.
- 6. Firmware Update:** Click “Browse” to select the update file, and then click “Update” to complete firmware update.
- 7. Factory Reset:** Reset the unit to factory defaults by clicking “Reset”.
- 8. 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 (Default), Data bits: 8, Stop bits:1, Check bit: 0 | | | | |
| x, y, z, XXX are parameters Error Code describe: E00 -> unkown command E01 -> parameter out of range E02 -> get the error edid data | | | | |
| COMMAND CODE | FUNCTION | DESCRIPTION | EXAMPLE | FEEDBACK DEFAULT |
| SYSTEM SETTING | | | | |
| help! | List all commands | help! | | |
| r status! | Get device current status | r status! | get the unit all status: power, beep, lock, in/out connection, video/audio crosspoint, edid, scaler, network status | |
| r type! | Get device mode | r type! | 8x8 hdmi matrix | |
| r fw version! | get firmware version | r fw version! | mcu fw version :1.00.05 web gui version :2.00.07 cpld version :1.00.03 audio version :1.00.01 key version :0.00.00 | |
| 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... cpld fw: 1.00.03 audio fw: 1.00.01 mcu fw version :1.00.05 web gui version :2.00.07 key version :0.00.00 initialization finished! search for ip,please wait ...! | |
| 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 z! | 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 lcd on time z! | Set lcd screen remain on time, z=0~4 (0:off 1: always, 2:15s, 3:30s, 4:60s) | s lcd on time 3! | lcd on 30 seconds | lcd on 30 seconds |

| COMMAND CODE | FUNCTION | DESCRIPTION | EXAMPLE | FEEDBACK DEFAULT |
|-------------------|--|------------------------|--|------------------------------|
| 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 Swtich! | logo1:Matrix Switch | |
| s reboot! | reboot the device | s reboot! | reboot... system initializing... cpld fw: 1.00.03 audio fw: 1.00.01 mcu fw version: 1.00.05 web gui version: 2.00.07 key version: 0.00.00 initialization finished! search for ip,please wait ...! | |
| s baud rate x! | Set RS232 baudrate x=1~6 (1:115200, 2:57600, 3:38400, 4:19200, 5:9600, 6:4800) | s baud rate 1! | s baud rate 115200 | 115200 |
| s fan x y! | Set fans on/off (x=0~2, y=0~1) x=0, all fans x=1, side fans x=2, top fans y=0, off y=1, on | s fan 2 0! | set top fans off | side fans:off top fans:on |
| s reset! | reset to factory defaults | s reset! | reset to factory defaults system initializing... cpld fw: 1.00.03 audio fw: 1.00.01 mcu fw version: 1.00.05 web gui version: 2.00.07 key version: 0.00.00 initialization finished! search for ip, please wait ...! | |
| r device sn! | get device serial number | r device sn! | serial number:12345634534 | |

OUTPUT SETTING

| | | | | |
|-------------------|---|-------------------|--------------------------------------|--------------|
| s output x res y! | Set output x resolution (x=0~8 (0=all output), y=1~16) 1. 4096x2160p60, 2. 4096x2160p50, 3. 3840x2160p60, 4. 3840x2160p50, 5. 3840x2160p30, 6. 1920x1080p60, 7. 1920x1080p50, 8. 1920x1080i60, 9.1920x1080i50, 10. 1920x1200p60rb, 11.1360x768p60, 12.1280x800p60, 13.1280x720p60, 14.1280x720p50, 15.1024x768p60, 16. auto | s output 1 res 3! | output 1 resolution: 3840x2160p60 | 3840x2160p60 |
|-------------------|---|-------------------|--------------------------------------|--------------|

| COMMAND CODE | FUNCTION | DESCRIPTION | EXAMPLE | FEEDBACK DEFAULT |
|----------------------|--|----------------------|-----------------------------------|--|
| r output x res! | Get output x resolution (y=0~8 (0=all output)) | r output 1 res! | output 1 resolution: 3840x2160p60 | |
| s output x csc y! | Set output x color space (x=0~8 (0=all output), y=1~4) y=1. rgb444 y=2. ycbcr444 y=3. ycbcr422 y=4. ycbcr420 | s output 1 csc 1! | output 1 csc: rgb444 | rgb444 |
| r output x csc! | Get output x color space status. (x=0~8 (0=all output)) | r output 1 csc! | output 1 csc: rgb444 | |
| s output x hdcp y! | Set output hdcp (x=0~8 (0=all output), y=1~5) y=1. hdcp 1.4 y=2. hdcp 2.2 y=3. follow sink y=4. follow source y=5. user mode | s output 1 hdcp 1! | output 1 hdcp: hdcp 1.4 | follow sink |
| r output x hdcp! | Get output x hdcp status. (x=0~8 (0=all output)) | r output 1 hdcp! | output 1 hdcp: hdcp 1.4 | |
| s output x mirror y! | Set output y mirror mode (x=0~8 (0=all output), y=0~3) y=0. mirror off y=1. h mirror on y=2. v mirror on y=3. h+v mirror on | s output 1 mirror 0! | output 1 mirror off | output 1 mirror off output 2 mirror off output 3 mirror off output 4 mirror off output 5 mirror off output 6 mirror off output 7 mirror off output 8 mirror off |
| r output x mirror! | Get output x mirror status (x=0~8 (0=all output)) | r output 1 mirror! | output 1 h mirror off | |
| s output x stream y! | Set output x stream enable/disable (x=0~8 (0=all output), y=0~1) y=0. stream disable y=1. stream enable | s output 1 stream 1! | output 1 stream: enable | enable |
| r output x stream! | Get output x stream status. (x=0~8 (0=all output)) | r output 1 stream! | output 1 stream: enable | |
| s output bg x! | Set output no signal background display mode (x=1~6) x=1. black screen x=2. blue screen x=3. color bar x=4. gray scale x=5. cross x=6. cross hatch | s output bg 1! | output background: black screen | black screen |
| r output bg! | Get output no signal background display mode | r output bg! | output background: black screen | |

| COMMAND CODE | FUNCTION | DESCRIPTION | EXAMPLE | FEEDBACK DEFAULT |
|-------------------------------|--|-------------------------------|---------------------------|--|
| EDID SETTING | | | | |
| s input x edid z! | Set hdmi input x edid mode (x=0~8 (0=all input), z=1~22) z=1. 4k60, 2.0ch z=2. 4k60, 5.1ch z=3. 4k60, 7.1ch z=4. 4k30, 2.0ch z=5. 4k30, 5.1ch z=6. 4k30, 7.1ch z=7. 1080p, 2.0ch z=8. 1080p, 5.1ch z=9. 1080p, 7.1ch z=10. wuxga, 2.0ch z=11. 768p, 2.0ch z=12. xga, 2.0ch z=13. user1 z=14. user2 z=15. copy out1 z=16. copy out2 z=17. copy out3 z=18. copy out4 z=19. copy out5 z=20. copy out6 z=21. copy out7 z=22. copy out8 | s input 1 edid 1! | input 1 edid: 4k60, 2.0ch | 4k60, 2.0ch |
| r input x edid! | Get input x edid mode (x=0~8 (0=all input)) | r input 1 edid! | input 1 edid: 4k60, 2.0ch | |
| VIDEO MATRIX SETTING | | | | |
| s display mode x! | Set output display mode (x=0~1) x=0 matrix mode x=1 video wall mode | s display mode 0! | display mode: martrix | martrix |
| r display mode! | Get output display mode | r display mode! | display mode: martrix | |
| s output x in source y! | Route input source to output x (x=0~8, y=1~8) x=0. output all x=1. output 1 x=2. output 2 x=3. output 3 x=4. output 4 x=5. output 5 x=6. output 6 x=7. output 7 x=8. output 8 y=1. input1 y=2. input2 y=3. input3 y=4. input4 y=5. input5 y=6. input6 y=7. input7 y=8. input8 | s output 1 in source 1! | output 1->input 1 | output 1->input 1 output 2->input 2 output 3->input 3 output 4->input 4 output 5->input 5 output 6->input 6 output 7->input 7 output 8->input 8 |
| r output x in source! | Get output x selected input source (x=0~8 (0=all output)) | r output 1 in source! | output 1->input 1 | |
| save mx preset z! | Save matrix state to preset z, z=1~8 | save mx preset 1! | save to preset 1 | |
| recall mx preset z! | Recall matrix preset z scenarios, z=1~8 | recall mx preset 1! | recall from preset 1 | |
| clear mx preset z! | Clear matrix preset z scenarios, z=1~8 | clear mx preset 1! | clear preset 1 | |
| r mx preset z! | Get matrix preset z information, z=1~8 | r mx preset 1! | video/audio crosspoint | |
| VIDEO WALL SETTING | | | | |
| create vw screen row x col y! | Create video wall screen rows and columns layouts (x=1~8, y=1~8) | create vw screen row 2 col 4! | create vw screen 2x4 | |
| s screen x output y! | Set hdmi output y to screen x (x=1~8, y=1~8) | s screen 1 output 1! | hdmi output1->screen 1 | hdmi output 1->screen 1 hdmi output 2->screen 2 hdmi output 3->screen 3 hdmi output 4->screen 4 |

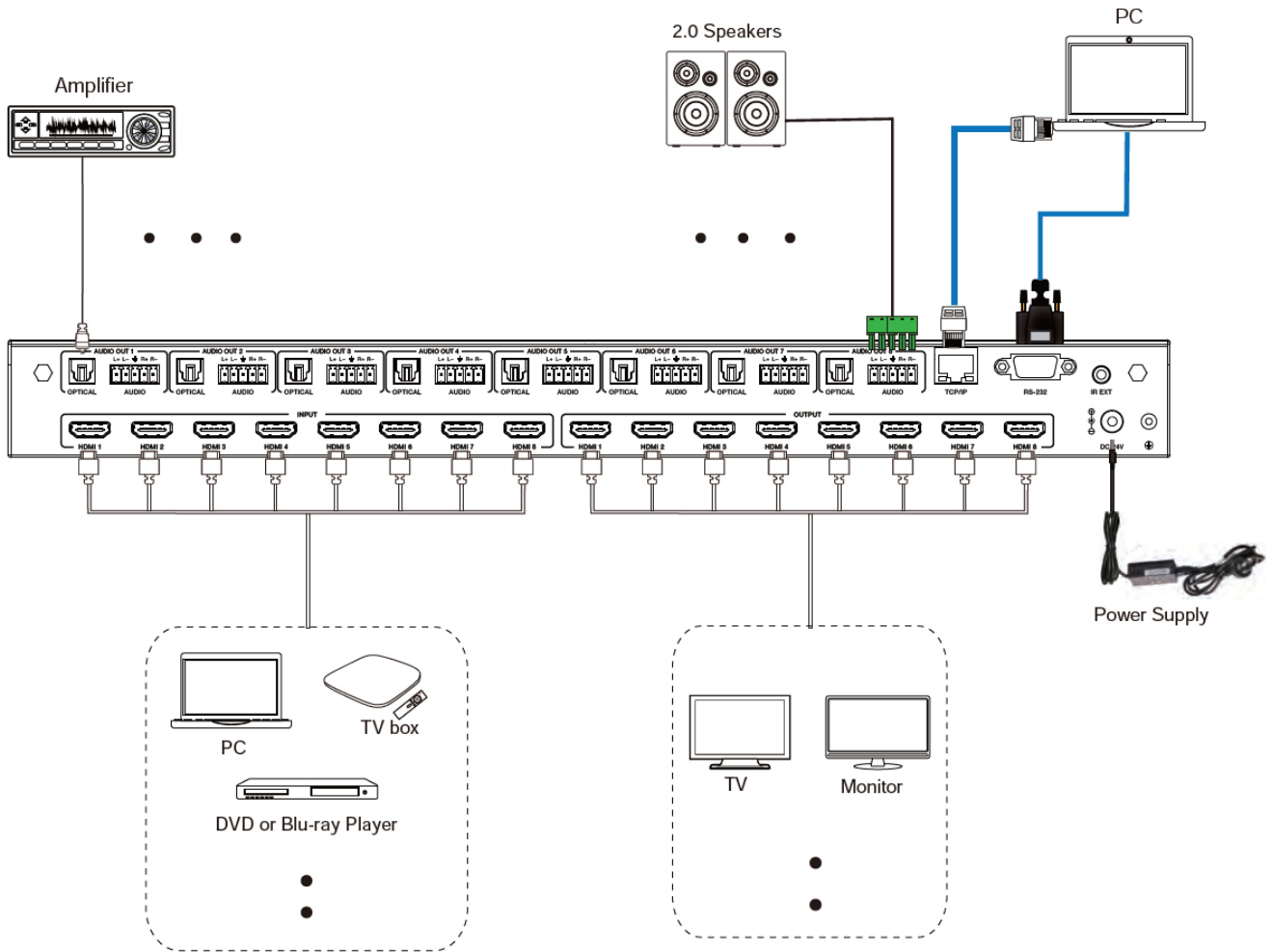
| COMMAND CODE | FUNCTION | DESCRIPTION | EXAMPLE | FEEDBACK DEFAULT |
|--------------------------------|--|---------------------------|--|--|
| s screen x output y! cont'd | | | | hdmi output 5->screen 5 hdmi output 6->screen 6 hdmi output 7->screen 7 hdmi output 8->screen 8 |
| s vw group z row x col y! | Set video wall group z rows and columns (z<=1~4, x=1~8, y=1~8, x*y<=8) | s vw group 1 row 1 col 2! | vw group 1 row 1 col 2! | |
| s vw group z screen abcd! | Set video wall group z screen number (z<=1~4) | s vw group 2 screen 2367! | vw group 2 screen 2367! | |
| s vw group z source x! | Set video wall group z select input source (z<=1~4, x<=1~8) | s vw group 1 source 1! | vw group 1 source 1! | |
| s vw group z hbezel x! | set video wall group z horizontal bezel (z<=1~4, x=0~10) | s vw group 1 hbezel 0! | video wall group 1 h bezel: 0 | video wall group 1 h bezel: 0 |
| s vw group z vbezel y! | set video wall group z vertical bezel (z<=1~4, x=0~10) | s vw group 1 vbezel 0! | video wall group 1 v bezel: 0 | video wall group 1 v bezel: 0 |
| s vw group z out res x! | Set video wall group z output resolution (z=1~4, x=1~15) 1. 4096x2160p60, 2. 4096x2160p50, 3. 3840x2160p60, 4. 3840x2160p50, 5. 3840x2160p30, 6. 1920x1080p60, 7. 1920x1080p50, 8. 1920x1080i60, 9. 1920x1080i50, 10. 1920x1200p60rb, 11. 1360x768p60, 12. 1280x800p60, 13. 1280x720p60, 14. 1280x720p50, 15. 1024x768p60 | s vw group 1 out res 6! | video wall group 1 resolution: 1920x1080p60 | 1920x1080p60 |
| delete vw group z! | Delete video wall group z config (z=1~4) | delete vw group 1! | delete vw group 1! | |
| r vw info! | Get current video wall scene information | r vw info! | video wall info: row: 2 col: 4 output: 1 2 3 4 5 6 7 8 input: 4 4 4 4 4 4 4 4 mosaic number: 1 mosaic id: 1 mosaic row: 2 mosaic col: 2 mosaic src: 4 mosaic res: 3840x2160p60 mosaic screen: 1 2 5 6 B85 | |
| save vw preset z! | Save video wall state to preset z, z=1~8 | save vw preset 1! | save to preset 1 | |
| recall vw preset z! | Recall video wall preset z scenarios, z=1~8 | recall vw preset 1! | recall from preset 1 | |

| COMMAND CODE | FUNCTION | DESCRIPTION | EXAMPLE | FEEDBACK DEFAULT |
|-----------------------------|---|-----------------------------|--|--|
| clear vw preset z! | Clear video wall preset z scenarios, z=1~8 | clear vw preset 1! | clear preset 1 | |
| r vw preset z! | Get video wall preset z information, z=1~8 | r vw preset 1! | video/audio crosspoint | |
| EXT- AUDIO SETTING | | | | |
| s output x exa y! | set output x ext-audio enable/disable (x=0~8 (0=all output), y=0~1) y=0. ext-audio disable y=1. ext-audio enable | s output 1 exa 1! | output 1 ext-audio: enable | enable |
| r output x exa! | get output x ext-audio enable/disable status. (x=0~8 (0=all output)) | 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 moe: bind to input | bind to output |
| r output exa mode! | Get output ext-audio mode | r output exa mode! | output ext-audio mode: bind to input | |
| s output x exa in source y! | Route input source audio y to output ext-audio x (x=0~8(0=all output), y=0~8) y=1. input1 y=2. input2 y=3. input3 y=4. input4 y=5. input5 y=6. input6 y=7. input7 y=8. input8 | s output 1 exa in source 1! | output 1 ext-audio ->input 1 | output 1 ext-audio->input 1 output 2 ext-audio->input 2 output 3 ext-audio->input 3 output 4 ext-audio->input 4 output 5 ext-audio->input 5 output 6 ext-audio->input 6 output 7 ext-audio->input 7 output 8 ext-audio->input 8 |
| r output y exa in source! | Get output y ext-audio selected input source (y=0~8 (0=all output)) | r output 0 exa in source! | output 1 ext-audio->input 1 output 2 ext-audio->input 2 output 3 ext-audio->input 3 output 4 ext-audio->input 4 output 5 ext-audio->input 5 output 6 ext-audio->input 6 output 7 ext-audio->input 7 output 8 ext-audio->input 8 | |
| CEC SETTING | | | | |
| s cec in x on! | Set input x power on by cec, x=0~8 (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=0~8(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=0~8(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=0~8(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=0~8(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=0~8(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=0~8(0=all input) | s cec in 1 left! | input 1 menu left operation | |

| COMMAND CODE | FUNCTION | DESCRIPTION | EXAMPLE | FEEDBACK DEFAULT |
|--------------------------|---|--------------------------|--|------------------|
| s cec in x right! | set input x menu right operation by cec, x=0~8(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=0~8(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=0~8(0=all input) | s cec in 1 play! | input 1 play operation | |
| s cec in x pause! | set input x pause by cec, x=0~8(0=all input) | s cec in 1 pause! | input 1 pause operation | |
| s cec in x stop! | set input x stop by cec, x=0~8(0=all input) | s cec in 1 stop! | input 1 stop operation | |
| s cec in x rew! | set input x rewind by cec, x=0~8(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=0~8(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=0~8(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=0~8(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=0~8(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=0~8(0=all input) | s cec in 1 previous! | input 1 previous operation | |
| s cec in x next! | set input x next by cec, x=0~8(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 | |

| COMMAND CODE | FUNCTION | DESCRIPTION | EXAMPLE | FEEDBACK DEFAULT |
|----------------------------|--|-----------------------------|---|------------------|
| 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. (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 | |
| s ip addr xxx.xxx.xxx.xxx! | set network ip address | s ip addr 192.168.0.100! | set ip address: 192.168.0.100 (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 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 (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 192.168.0.1! | set gateway:192.168.0.1 (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:192.168.0.1 | |
| 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 net 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 | |

CONNECTION DIAGRAM



THIS PAGE IS INTENTIONALLY LEFT BLANK.

THIS PAGE IS INTENTIONALLY LEFT BLANK.

THIS PAGE IS INTENTIONALLY LEFT BLANK.

PLEASE READ THE FOLLOWING TERMS AND CONDITIONS CAREFULLY BEFORE USING THIS HARDWARE, COMPONENTS AND SOFTWARE PROVIDED BY, THROUGH OR UNDER A-NeuVideo, INC (COLLECTIVELY, THE "PRODUCT"). By using installing or using the Product, you unconditionally signify your agreement to these Terms and Conditions. If you do not agree to these Terms and Conditions, do not use the Product and return the Product to A-NeuVideo, Inc. at the return address set forth on the Product's packing label at your expense. A-NeuVideo, Inc. may modify these Terms and Conditions at anytime, without notice to you.

RESTRICTIONS ON USE OF THE PRODUCT

It is your responsibility to read and understand the installation and operation instructions, both verbal and in writing, provided to you with respect to the Product. You are authorized to use the Product solely in connection with such instructions. Any use of the Product not in accordance with such instructions shall void any warranty pertaining to the Product. Any and all damages that may occur in the use of the Product that is not strictly in accordance with such instructions shall be borne by you and you agree to indemnify and hold harmless A-NeuVideo, Inc. from and against any such damage.

The Product is protected by certain intellectual property rights owned by or licensed to A-NeuVideo. Any intellectual property rights pertaining to the Product are licensed to you by A-NeuVideo, Inc. and/or its affiliates, including any manufacturers or distributors of the Product (collectively, "A-NeuVideo") for your personal use only, provided that you do not change or delete any proprietary notices that may be provided with respect to the Product.

The Product is sold to you and any use of any associated intellectual property is deemed to be licensed to you by A-NeuVideo for your personal use only. A-NeuVideo does not transfer either the title or the intellectual property rights to the Product and A-NeuVideo retains full and complete title to the intellectual property rights therein. All trademarks and logos are owned by A-NeuVideo or its licensors and providers of the Product, and you may not copy or use them in any manner without the prior written consent of A-NeuVideo, which consent may be withheld at the sole discretion of A-NeuVideo.

The functionality and usability of the Product is controlled by A-NeuVideo, Inc. from its offices within the State of Texas, United States of America. A-NeuVideo makes no representation that materials pertaining to the Product are appropriate or available for use in other locations other than the shipping address you provided with respect thereto. You are advised that the Product may be subject to U.S. export controls.

DISCLAIMERS AND LIMITATION OF LIABILITY

A-NeuVideo may change or modify the Product at any time, from time to time.

THE PRODUCT IS PROVIDED "AS IS" AND WITHOUT WARRANTIES OF ANY KIND EITHER EXPRESS OR IMPLIED. A-NEUVIDEO DOES NOT WARRANT OR MAKE ANY REPRESENTATIONS REGARDING THE USE OR THE RESULTS OF THE USE OF THE PRODUCT'S CORRECTNESS, ACCURACY, RELIABILITY, OR OTHERWISE.

A-NeuVideo has no duty or policy to update any information or statements pertaining to the Product and, therefore, such information or statements should not be relied upon as being current as of the date you use the Product. Moreover, any portion of the materials pertaining to the Product may include technical inaccuracies or typographical errors. Changes may be made from time to time without notice with respect to the Product.

TO THE FULLEST EXTENT PERMISSIBLE PURSUANT TO APPLICABLE LAW, A-NEUVIDEO DISCLAIMS ALL WARRANTIES, EXPRESS OR IMPLIED, INCLUDING, BUT NOT LIMITED TO IMPLIED WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NON-INFRINGEMENT. A-NEUVIDEO DOES NOT WARRANT THE ACCURACY, COMPLETENESS OR USEFULNESS OF ANY INFORMATION WITH RESPECT TO THE PRODUCT. A-NEUVIDEO DOES NOT WARRANT THAT THE FUNCTIONS PERTAINING TO THE PRODUCT WILL BE ERROR-FREE, THAT DEFECTS WITH RESPECT TO THE PRODUCT WILL BE CORRECTED, OR THAT THE MATERIALS PERTAINING THERETO ARE FREE OF DEFECTS OR OTHER HARMFUL COMPONENTS. A-NEUVIDEO WILL USE ITS REASONABLE EFFORTS TO CORRECT ANY DEFECTS IN THE PRODUCT UPON TIMELY WRITTEN NOTICE FROM YOU NOT TO EXCEED 10 BUSINESS DAYS AFTER RECEIPT BY YOU OF THE PRODUCT, BUT YOU (AND NOT A-NEUVIDEO) ASSUME THE ENTIRE COST OF ALL NECESSARY SERVICING, REPAIR AND CORRECTION THAT WAS CAUSED BY YOU UNLESS OTHERWISE AGREED TO IN A SEPARATE WRITING BY A-NEUVIDEO.

UNDER NO CIRCUMSTANCES, INCLUDING, BUT NOT LIMITED TO, NEGLIGENCE, SHALL A-NEUVIDEO BE LIABLE FOR ANY SPECIAL OR CONSEQUENTIAL DAMAGES THAT RESULT FROM THE USE OF, OR THE INABILITY TO USE THE PRODUCT IN ACCORDANCE WITH ITS SPECIFICATIONS, EVEN IF A-NEUVIDEO OR ITS REPRESENTATIVES HAVE BEEN ADVISED OF THE POSSIBILITY OF SUCH DAMAGES. IN NO EVENT SHALL A-NEUVIDEO'S TOTAL LIABILITY TO YOU FROM ALL DAMAGES, LOSSES, AND CAUSES OF ACTION (WHETHER IN CONTRACT, OR OTHERWISE) EXCEED THE AMOUNT YOU PAID TO A-NEUVIDEO, IF ANY, FOR THE PRODUCT.