



Zenty | Professional A/V Solution Provider

User Manual [v1.0]



8x16 4K60Hz HDBaseT HDMI Matrix Extender 131ft | 230ft

ZT-119 | ZT-MT88EB



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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.

SURGE PROTECTION DEVICE RECOMMENDED

This product contains sensitive electrical components that may be damaged by electrical spikes, surges, electric shock, lightning strikes, etc. Use of surge protection systems is highly recommended in order to protect and extend the life of your equipment.

Table of Contents

1. Features.....	5
2. Package Contents	5
3. Specifications	5
4. Panel Descriptions	6
4.1 Input / Output Key Channel Operation	7
4.2 Video Switching Operation	8
4.2.1 Video Switch.....	8
4.2.2 Video Control.....	8
4.2.3 Audio Control.....	11
4.3 EDID Set Mode Interface	12
4.4 Setup Mode Interface	13
4.4.1 RS232 Baud Rate Setting.....	13
4.4.2 DCHP On/Off Setting.....	14
4.4.3 Reboot Setting.....	15
4.4.4 Factory Setting	15
4.5 Info Mode Interface	16
5. Application Diagram	17
6. Remote Control Description	18
7. IR System.....	18
8. Command Control	19
9. PC Tool Control.....	21
9.1 Link Interface	21
9.2 Video Interface	22
9.3 Audio Interface.....	24

9.4 EDID Interface	25
9.5 Network Interface	27
9.6 System Interface	27
10. Web Control.....	28
10.1 Change PC IP Address.....	28
10.2 Enter Web and Control.....	29
10.2.1 Video Interface	30
10.2.2 Audio Interface.....	31
10.2.3 EDID Interface	32
10.2.4 Network Interface.....	33
10.2.5 System Interface	34
11. RS232 Pass Through	35
12. RS232 Online Upgrading Firmware	53
13. Maintenance.....	36
14. Warranty	36
15. Mail-In Service	37
16. Limited Warranty Limits and Exclusions	37

1. Features

- Incorporates HDBaseT technology
- HDMI 2.0 version support 4K@60Hz YUV4:4:4, 18G, HDR10, Dolby Vision (HDMI LOOP)
- Any one of the 8 HDMI Sources to any one of the 8 HDMI Displays
- Each of the 8 outputs includes one HDBaseT output and one HDMI output simultaneously
- Transmit up to 70m under 1080p,40m under 4K@60Hz
- HDCP 2.2/1.4 compliant
- With wide-band Bi-Direction IR routed control(38~56KHz)
- Support 8x Analog Audio input
- Support 8x Analog Audio and 8x SPDIF Audio extraction output
- Support RS232 pass through
- Support Panel Button with LCD, IR Routing, RS232, TCP/IP, PC Tool Control
- Support POC (Receiver powered by HDBaseT Matrix)
- 2U rack design with mounting ears
- AC 110V~220V/50HZ/60HZ input

2. Package Contents

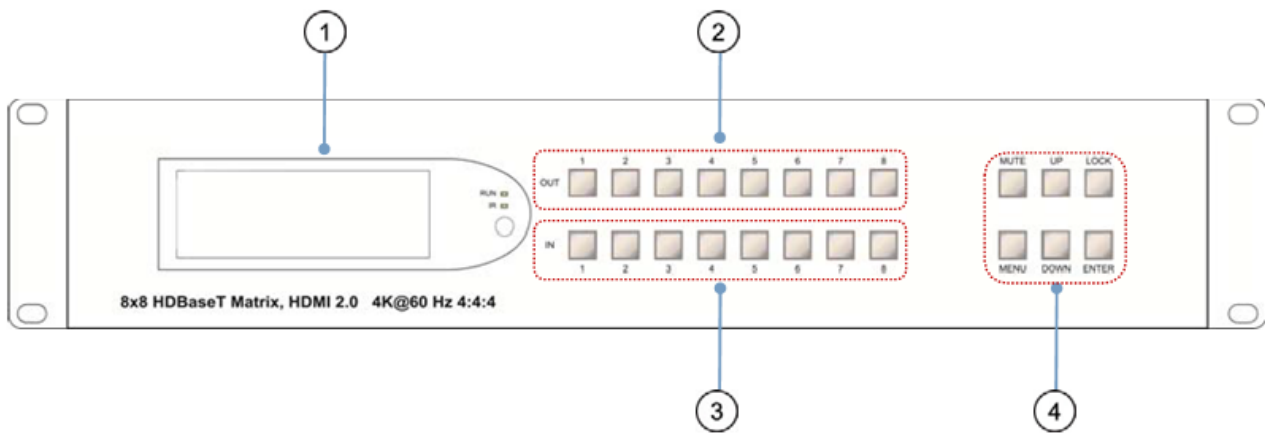
- (1) x Main Unit (HDBaseT Matrix) and 8x Receivers
- (1) x Power Cable
- (1) x Remote control
- (17) x IR Transmitter cables, 17x Wide-Band IR Receiver cables
- (1) x CD for control software & user manual

3. Specifications

Operating Temperature Range	-5 to +40 °C (23 to +104 °F)
Storage Temperature Range	-10 to +60 °C (-14 to +140 °F)
Operating Humidity Range	5 to 90 % RH (no condensation)
Input Video Signal	0.5-1.0 volts p-p
Input DDC Signal	5 volts p-p (TTL)
Bandwidth	18Gbit/s
Video Format Supported	4K@60Hz, YUV4:4:4 4k@30Hz/1080P/1080i/720P/576P/480P/576i /480i
HDCP Compliant	HDCP2.2 and HDCP1.4

Output Video	HDMI2.0 and HDMI 1.4 (over HDBaseT and HDMI)
Audio Format Supported	PCM, Dolby5.1, DTS5.1 digital audio
Maximum Transmission Distance	1080P 70m, 4K 40m
Power Consumption	125watts (Max.)
Dimensions (L x W x H)	438mm x 394mm x 88mm 17.2" x 15.5" x 3.5"
Mass (Main Unit)	8 KG 17.6lbs.

4. Panel Descriptions

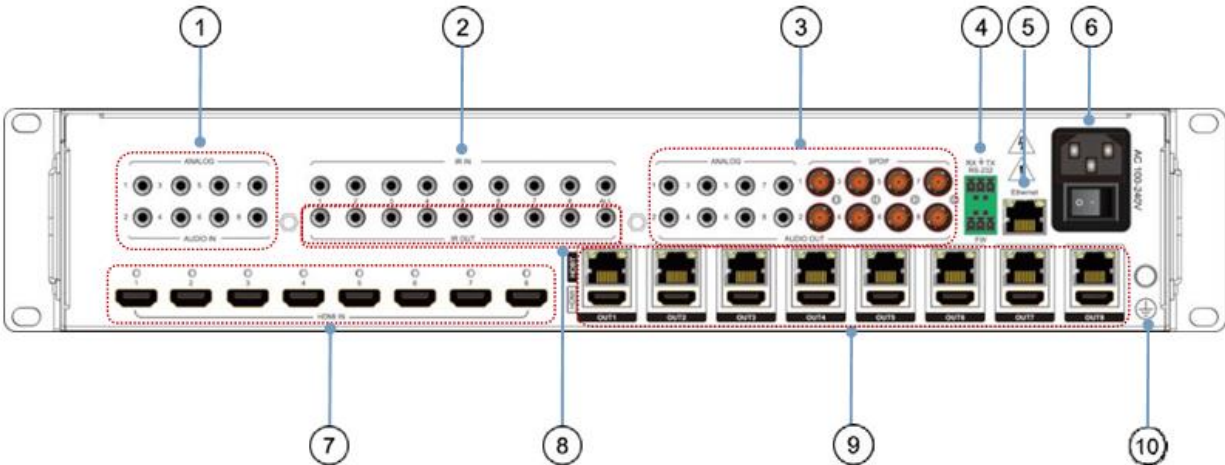


CD LCD: Showing Matrix information

@ Output button OUT1~8

® Input button IN1~8

@ Function button: MUTE; MENU; UP; DOWN; LOCK; ENTER



- CD AUDIO IN (Analog x8)
- @ IR in port x8 & All in
- ® Audio out (analog x8; spdif x8)
- @ 2xRS232 port (one for update, one for pass through)
- @ Ethernet port
- ® Power On/Off
- CT HDMI Input x8
- @ IR out port x8 & All out
- ® HDBaseT out x8 & HDMI Loop out x8
- @ Grounding

4.1 Input / Output Key Channel Operation

Channel	Button method
Any Key	The first operation of the button can wake up the screen
Input 1-8	Directly press the number key, such as input channel 1, and select "1" to press (only when the output port is selected, the input channel number will be valid)
Output 1-8	Directly press the number key, such as the output channel 5, select the key "5" and press it again to cancel the selection; Long press output channel 8 to select all channels, and long press again to cancel
MENU	Function Button; Enter the function option or back to previous option
ENTER	Confirm Button: enter function selection mode

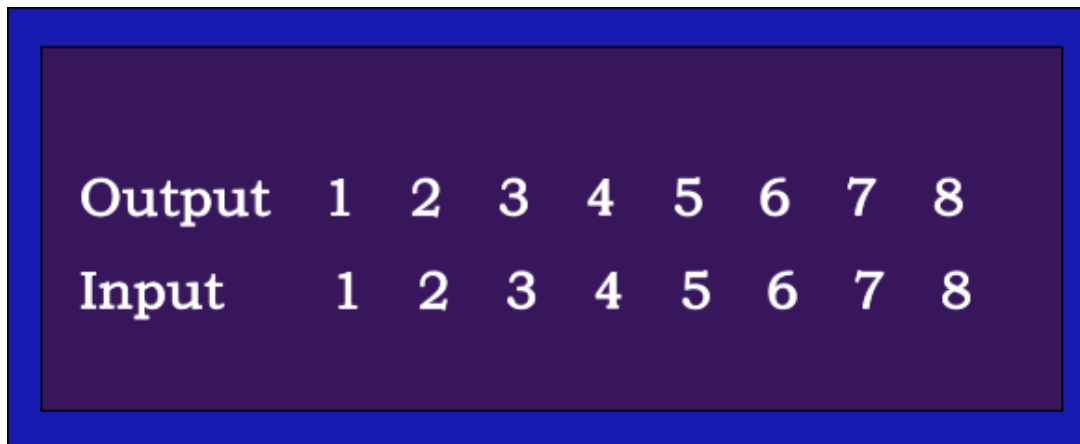
UP	Button for UP option
DOWN	Button for NEXT option
MUTE	Shut down the current selected output, press again to wake up
LOCK	Long press lock (button built-in blue light on), Long press again to cancel lock (button built-in blue light off)

4.2 Video Switching Operation

4.2.1 Video Switch

The signal switch includes 8 free switching channels, which can be configured as input/output according to the requirements, forming a matrix of 1 x 8 ~ 8 x 1, which can switch any input.

Signal to 1 channel output or all channel output



Switch the input to the output

Operation format: "output channel" + "input channel"

For ex: Output port 2, 5, 8 switch to input 7

Operation: Press OUT number "2" "5" "8" + IN number "7" to complete the switch

4.2.2 Video Control

The video interface has two sub menus:

1. Video Switch
2. Video On/Off

1. Video Switch

Switch any output to one input or all outputs to the same input

(!)Select "Video" in the menu and press "ENTER"

(l)Then use "UP""DOWN"button to select "Switching"

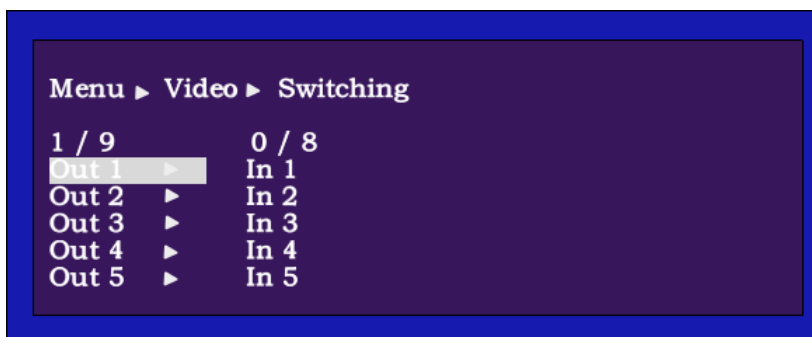
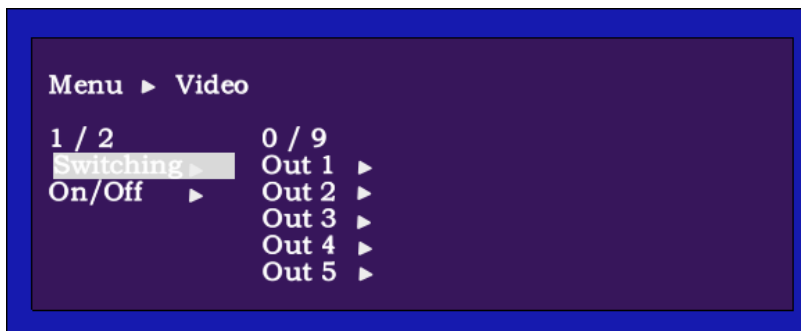
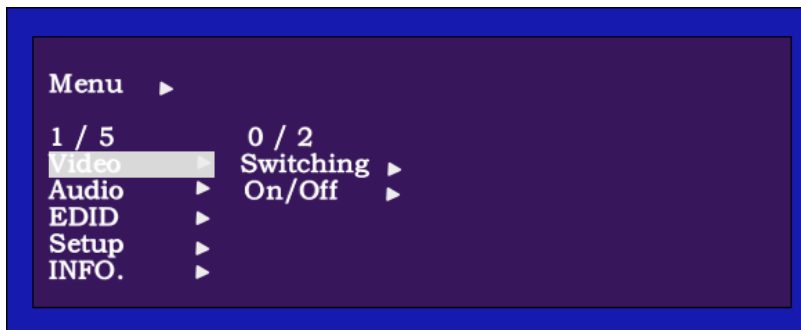
@Press "ENTER" enter next page

@Press "UP""DOWN"button to select the output(The ninth port means ALL)

@Press "ENTER"

@Press "UP""DOWN"to select the input

(Z)Press "ENTER" ↵ Switch Done



2. Video On/Off

Turn on/off any output video or all outputs video

(!)Select "Video" in the menu and press "ENTER"

(!)Then use "UP""DOWN"button to select "On/Off"

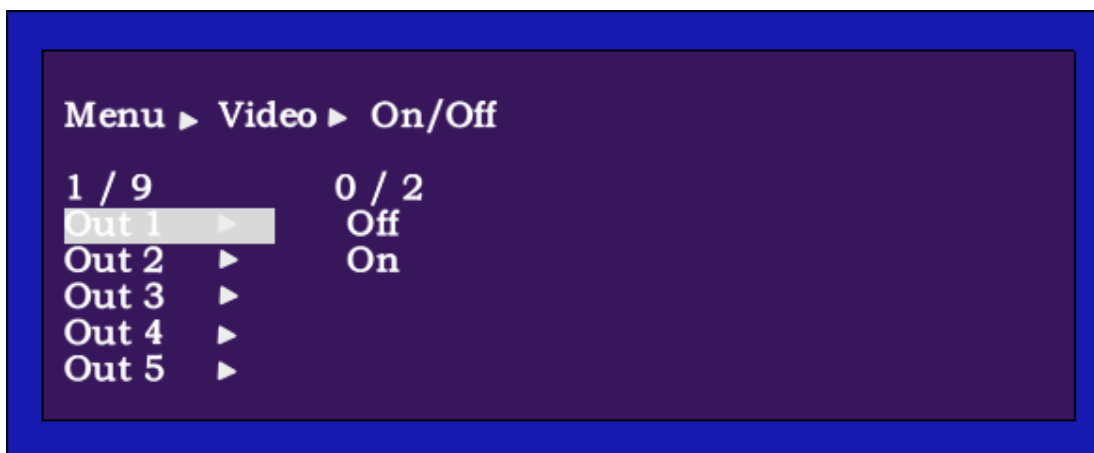
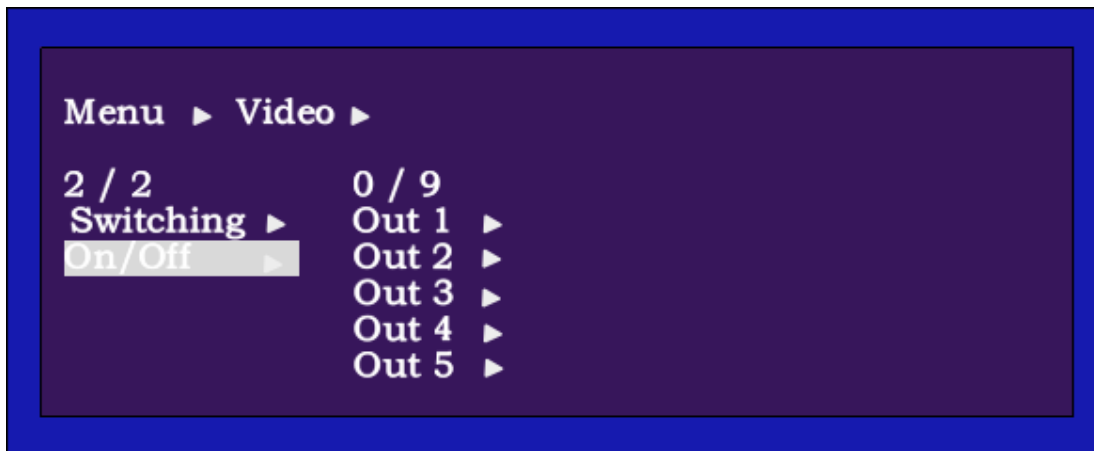
@Press "ENTER" enter next page

@Press "UP""DOWN"button to select the output (The ninth port means ALL)

@Press "ENTER"

@Press "UP""DOWN"to select "On"or "Off"

(Z)Press "ENTER" → Switch Done



4.2.3 Audio Control

The Audio Control has two sub menus:

1. Audio Embed
2. Audio De-Embed

The specific operation is as follows:

1. Audio Embed

Audio Embed is for setting input ports audio, it has: Analog; HDMI; Mute setting.

(!)Select "Audio" in the menu and press "ENTER"

(l)Then use "UP""DOWN"button to select "Embed"

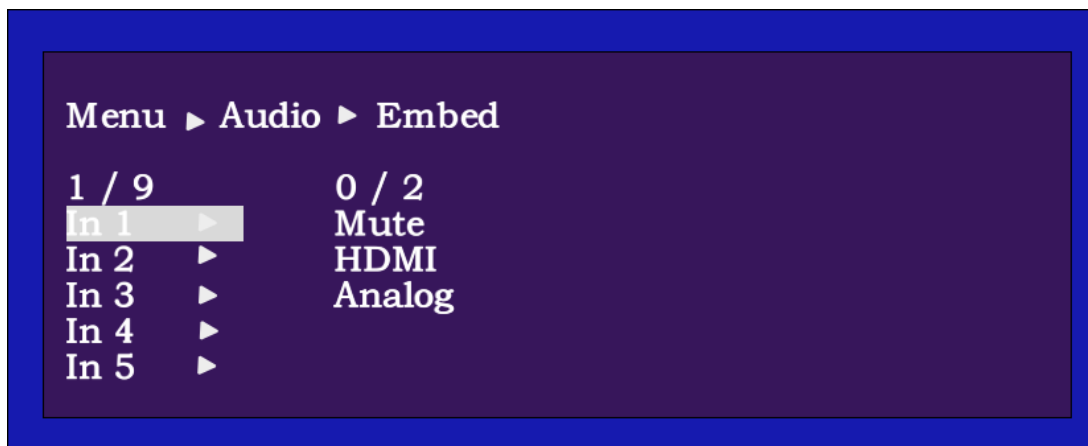
@Press "ENTER" enter next page

@Press "UP""DOWN"button to select the output (The ninth port means ALL)

@Press "ENTER"

@Press "UP""DOWN"to select the mode: Analog; HDMI; Mute

(Z)Press "ENTER" → Done



2. Audio De-Embed

In the mode of Audio De-Embed has Analog and SPDIF in each output port and can switch the audio Mute and Unmute

(!)Select"Audio"in the menu and press"ENTER"

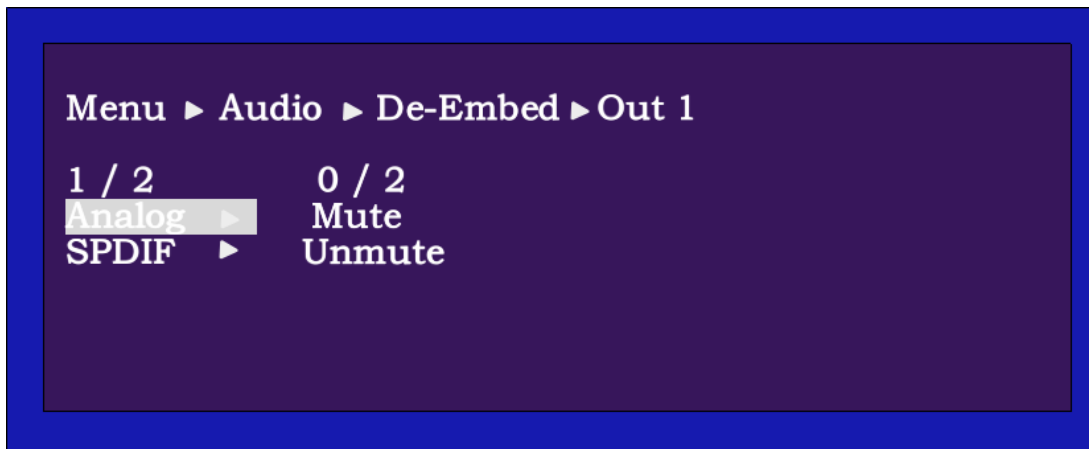
(!)Then use "UP""DOWN"button to select"De-Embed" @Press"ENTER"enter next page

@Press "UP""DOWN"button to select the output(The ninth port means ALL) @Press"ENTER"

@Press "UP""DOWN"to select the mode of Analog and SPDIF audio format

(Z)Press"ENTER",confirm

@Press"Mute"or"Unmute"to switch the audio



4.3 EDID Set Mode Interface

Default EDID

Default1	4K60 444 HDR AC-35.1	Default5	4K30 444 3D LPCM2.0
Default2	4K60 444 HDR LPCM7.1	Default6	4K60 420 HDR 3D AC-35.1
Default3	4K60 444 HDR LPCM2.0	Default7	4K60 420 3D LPCM2.0
Default4	4K60 444 LPCM2.0	Default8	1080P60 444 3D LPCM2.0

EDID Mode can set each input's EDID, includes: Default EDID; User EDID; Copy EDID; Copy HDBT EDID.

Specific operations are as follows

(!)Select"EDID"in the menu and press"ENTER"

(!)Then use "UP""DOWN"button to select the input (The "In9"means ALL input)

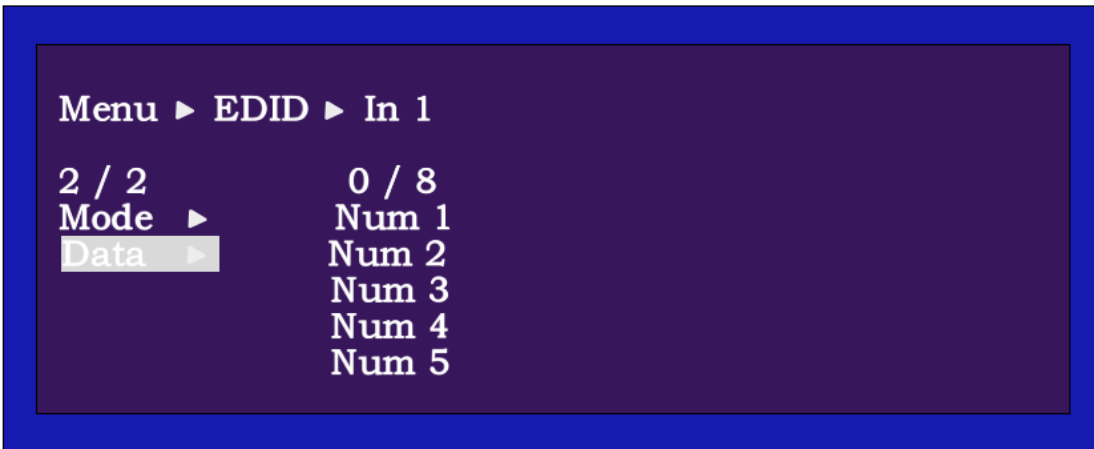
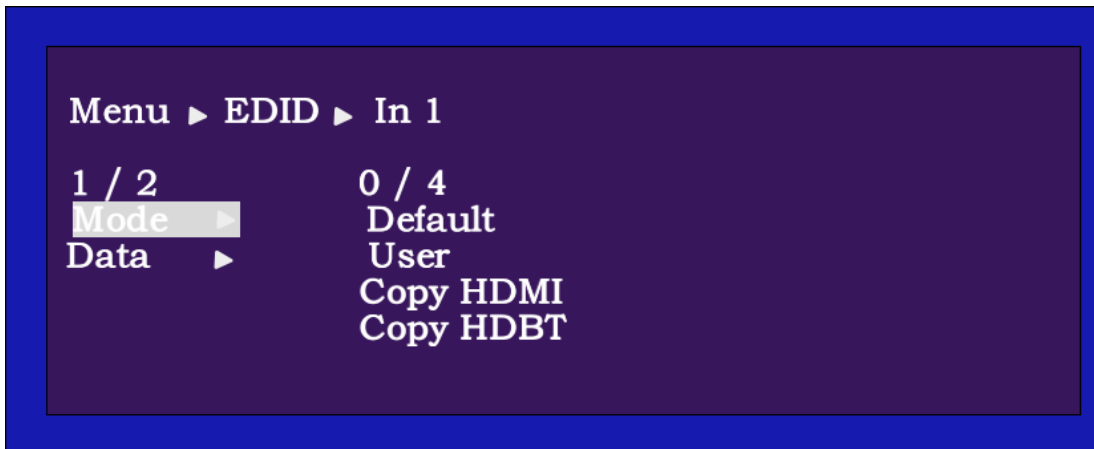
@Press "ENTER" enter next page

@Press "UP" "DOWN" button to select the MODE, then press "ENTER" to select the EDID

@Press "Menu" Back to previous option

@Press "UP" "DOWN" to select the "Data" then "ENTER" to next

(Z) Press "UP" "DOWN" to select the Num1~8, then press "ENTER" to confirm



4.4 Setup Mode Interface

SETUP mode can set the device's RS-232 baud rate, DHCP, Reboot, Factory Specific operations are as follows

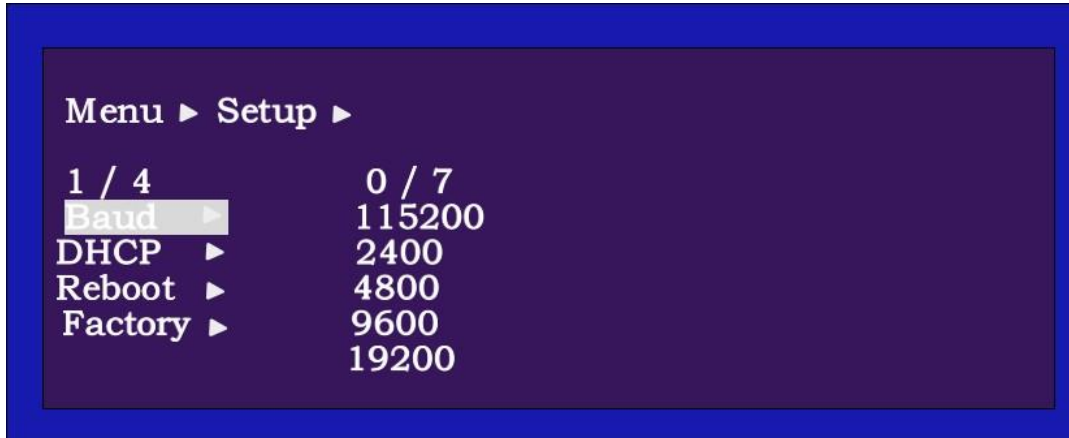
4.4.1 RS232 Baud Rate Setting

It has 7 kinds of baud rates inside the device: 2400; 4800; 9600; 19200; 38400; 57600; 115200

Default Baud Rate is: 115200

(!)Select"Setup"in the menu and press"ENTER"

(I)Then use "UP""DOWN"button to select the "BAUD"and press "ENTER" @Press "UP""DOWN"button to select the baud rate and press "ENTER"to confirm



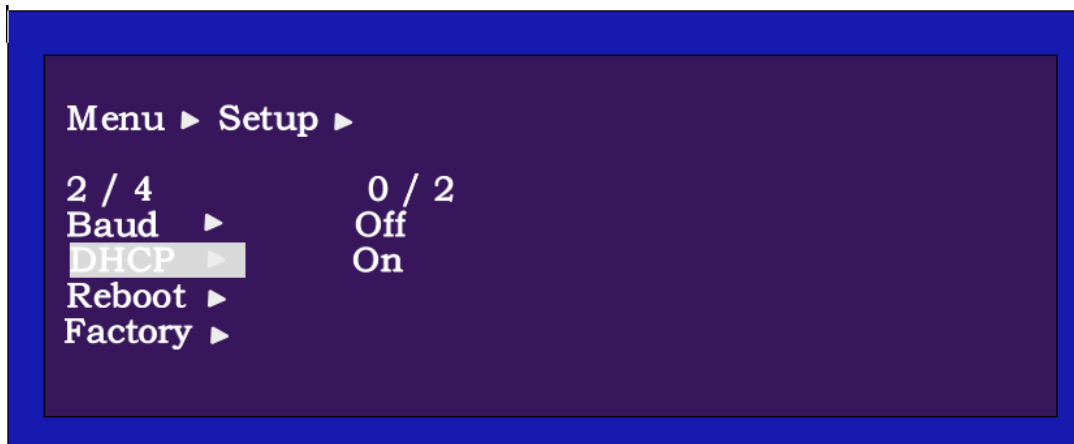
4.4.2 DHCP On/Off Setting

On means Dynamic; Off means Static

(!)Select"Setup"in the menu and press"ENTER"

(I)Then use "UP""DOWN"button to select the "DHCP"and press "ENTER"

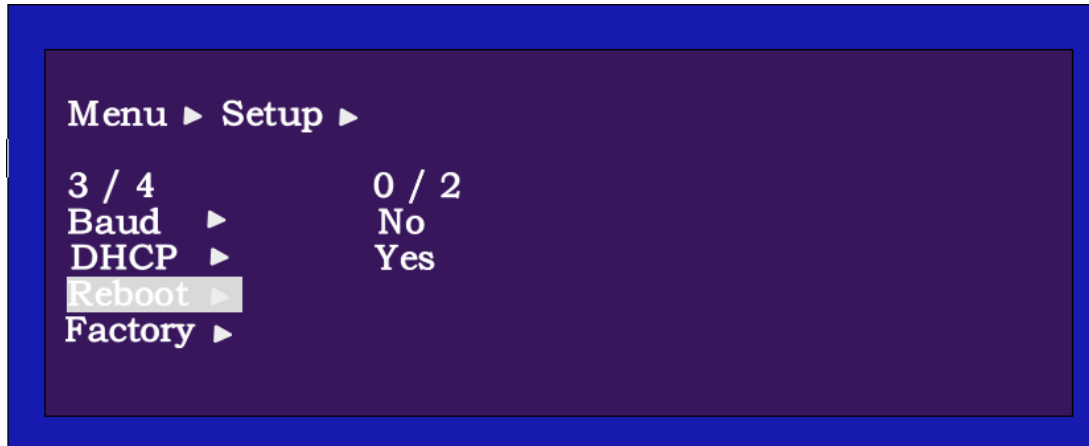
@Press "UP""DOWN"button to select"On"or "Off"and press "ENTER"to confirm



4.4.3 Reboot Setting

(!)Select"Setup"in the menu and press"ENTER"

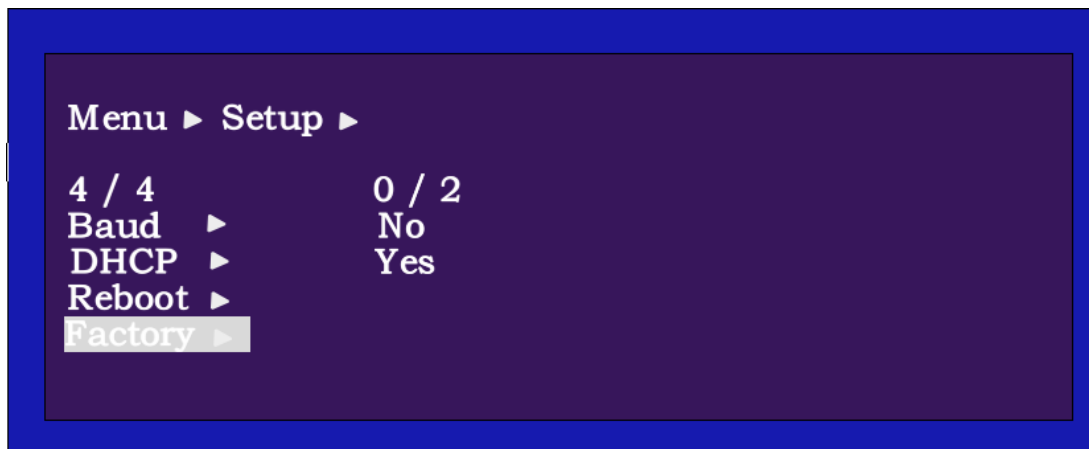
(!)Then use "UP""DOWN"button to select the "Reboot"and press "ENTER" @Press "UP""DOWN"button to select"No"or"Yes"and press "ENTER"to confirm



4.4.4 Factory Setting

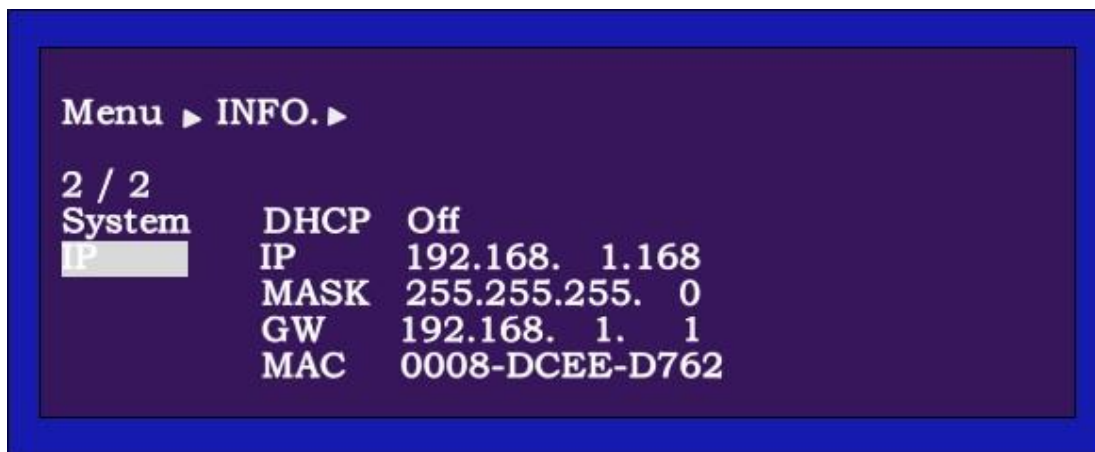
(!)Select"Setup"in the menu and press"ENTER"

(!)Then use "UP""DOWN"button to select the "Factory"and press "ENTER" @Press "UP""DOWN"button to select"No"or"Yes"and press "ENTER"to confirm

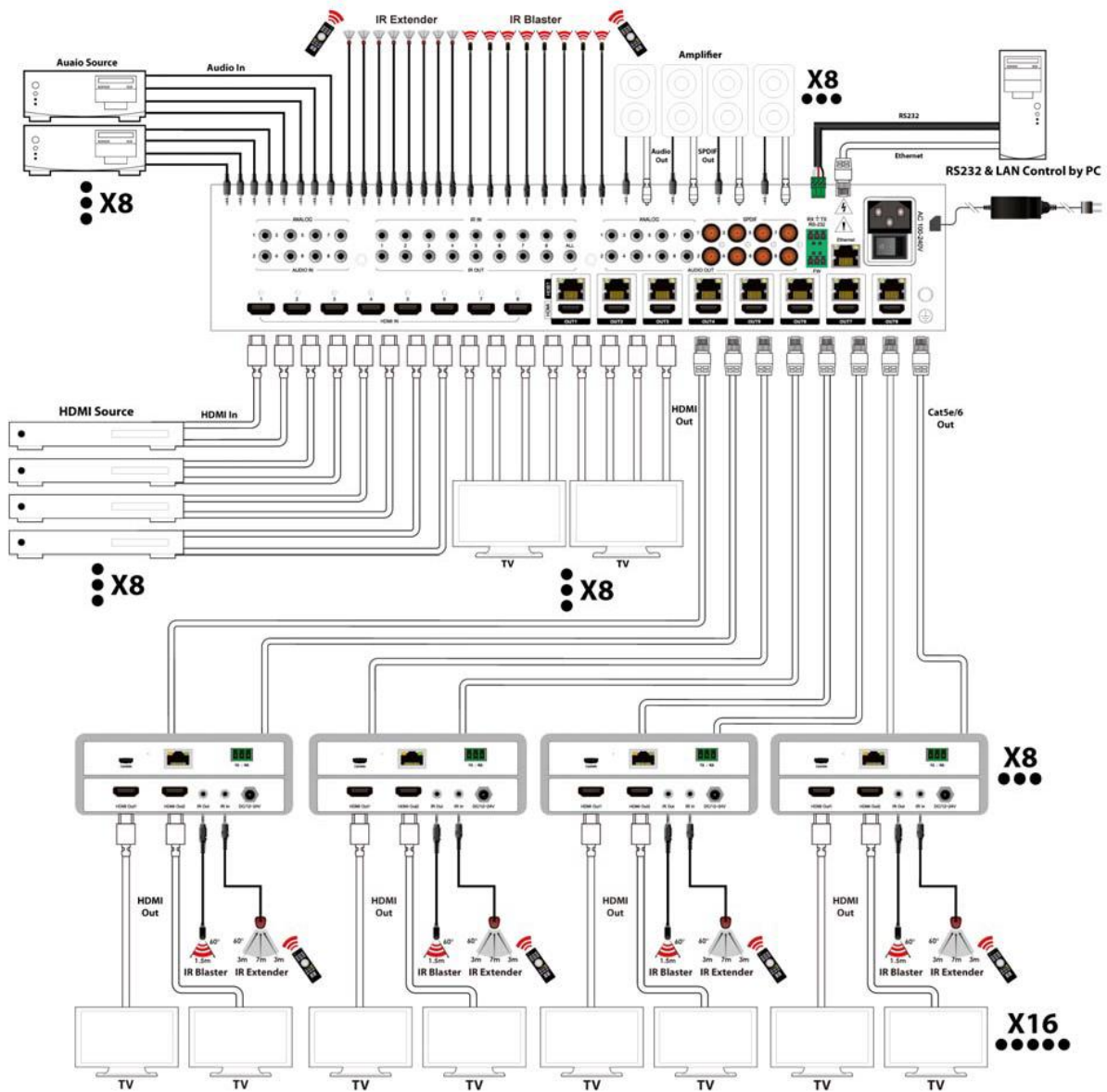


4.5 Info Mode Interface

Check the device information: IP or System information

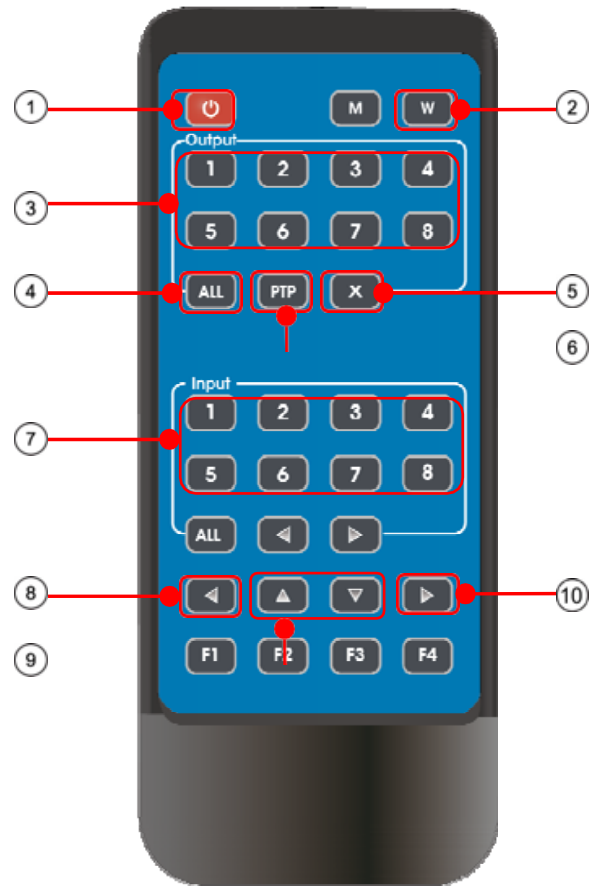


5. Application Diagram



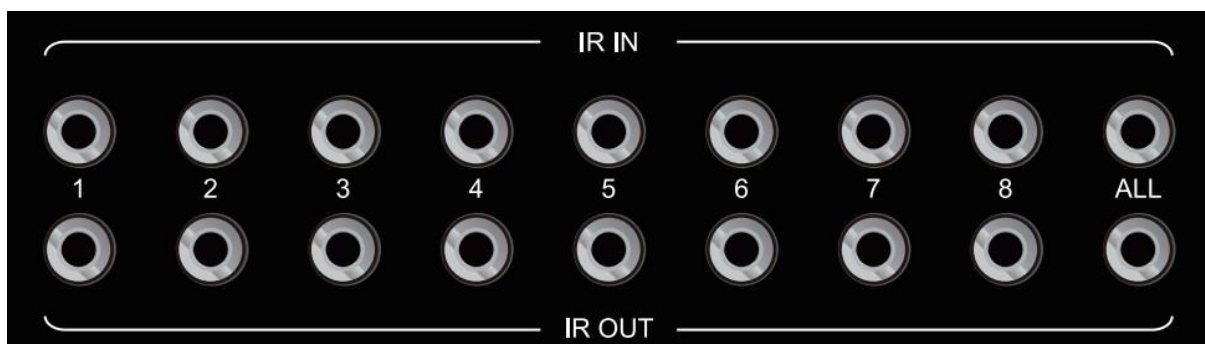
6. Remote Control Description

1. Power On/Off
2. Lock or Unlock the Panel Button
3. Choose output from 1-8
4. Choose all of the outputs
5. Turn on/off output port which you select
6. PTP Button: Mirror all inputs and outputs (Ex. Input 1 to output 1, input 2 to output 2 etc.)
7. Choose input from 1-8
8. Menu (back to previous option) button
9. UP and DOWN button
10. Enter button



7. IR System

The matrix can pass the IR signal through the IR system to the HDMI source or pass the IR signal from the HDMI source to the HDMI sink

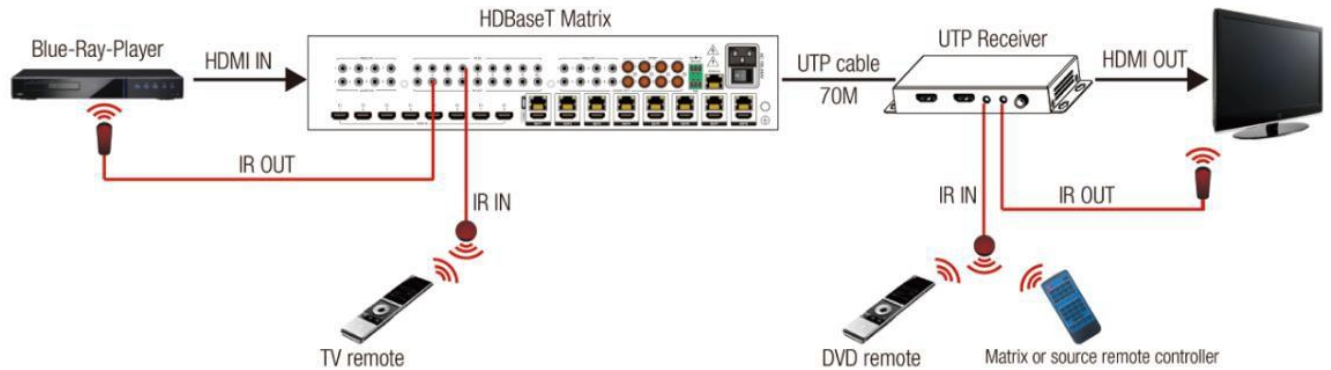


Dual way IR using:

Step1: "IR IN" is for HDBaseT output, "IR OUT" is for input channel

Step2: "IR IN ALL" Controlled by all input IR; "IR OUT ALL" Controlled by all output IR. Step3: HDBaseT receiver support connect with IR receiver to control the Matrix by remote

Step4: Matrix IR channel "IR IN ALL" support connect with IR-RX cable to control the Matrix by remote



8. Command Control

Control software operation:

The serial control software is illustrated with SSCOM32 as an example.

Basic Settings:



Double-click the software in the installation package to run specifically (as shown in figure 1 below) and install the RS232 software on the computer.

Enter the main interface of the software, as shown in the figure below

```

*****CMD STA*****
-----[CMD 00]-----
#video_%c
in%d
out%d
matrix=%d
onoff=%d
help
-----[CMD 01]-----
#audio_%c
in%d
out%d
enc=%d
iis=%d
spdif=%x
help
-----[CMD 02]-----
#edid_%c
in%d
user%d
mode=%d
data=%d
help
-----[CMD 03]-----
#lcd
main=%d
shut=%d
level=%d
help
-----[CMD 04]-----
#ip
dhcp=%d
ip=%d.%d.%d.%d
mask=%d.%d.%d.%d
gw=%d.%d.%d.%d
dns=%d.%d.%d.%d
netbios=%15t
help
-----[CMD 05]-----
#group%d
exe=%d
name=%15v
help
-----[CMD 06]-----
#register%d
id=%15t
psd=%15t
help
-----[CMD 07]-----
#login
id=%15t
psd=%15t
help
-----[CMD 08]-----
#port
in%d
hdmi%d
hdbt%d
name=%15v
help
-----[CMD 09]-----
#uart%d
baud=%d
bypass=%d
-----[CMD 10]-----
#power
shut=%d

```

In the parameter configuration area, the serial number of serial port and PC connection is selected, and the baud rate of the communication protocol is completed: 115200 (default), data location: 8. Stop bit: 1, check bit: no, you can input the instruction in the command input area and control the machine or remote receiver.

Instructions:

1. All commands start from "#", command head "%c": "d" parameters, "l" lock, "s" save.
2. The "_" in the commands cannot omit. Parameter: %d: 0 means ALL.
3. Command head & Parameter1 & Parameter2... need to add one "SPACE".

The following table is only an example. Please refer to the list of instructions.

Instruction description	instruction	parameter 1	parameter 2	parameter 3
Video channel switch	#video_%c	In%	Out%d	matrix=%d
	d: parameter s	d		
	l: lock	0: ALL input 1~8:	0: ALL output 1~8:	1-8 = Switch to?
	s: save	1~8 input	1~8 output	
EDID	#EDID_%c	In%	user%d	mode=%d
	d: parameter s	d		
	l: lock	0: ALL input 1~8: 1~8 input	0 = All EDID 1~8 EDID	0:default 1:user

Please refer to the "Command list" for details.

Example: ALL output switches to input 8.

Operation format: #video_d out0 matrix=8

9. PC Tool Control

1. Download the [8x16 HDMI2.0 Matrix.exe](#) to your computer, then open it.
2. Using USB to RS232 cable connect to the Matrix
3. Press "Search" button to find out the right port then "Open Port"

9.1 Link Interface

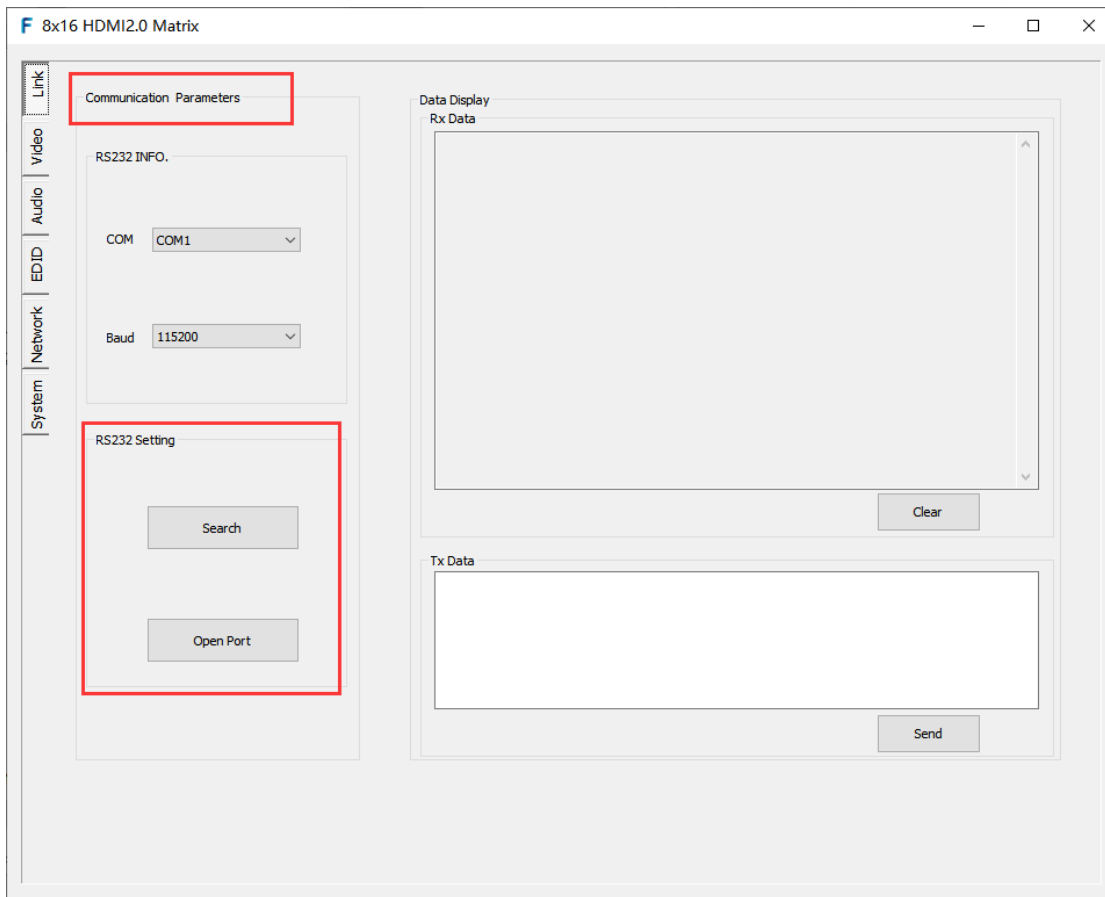
1. Communication parameters: RS232 port baud rate and port information can be displayed. Click the drop-down queue to set the port and baud rate from 2400 to 115200
2. Port setting: Search RS232 Port: "Open Port" is a compound switch Port. When showing "Open

Port” means Disconnect. When showing “Close Port: Connecting

3. Refresh button: “Search”

4. Send instruction bar: the corresponding instruction can be sent according to the command list.

5. Instruction feedback display bar: print the log after sending corresponding commands, and operate the equipment to print as well



9.2 Video Interface

1. Output option bar: 0d>>0x represents display of current device port info.

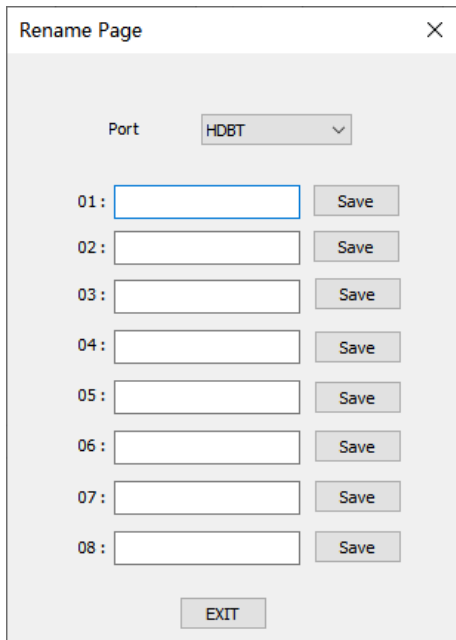
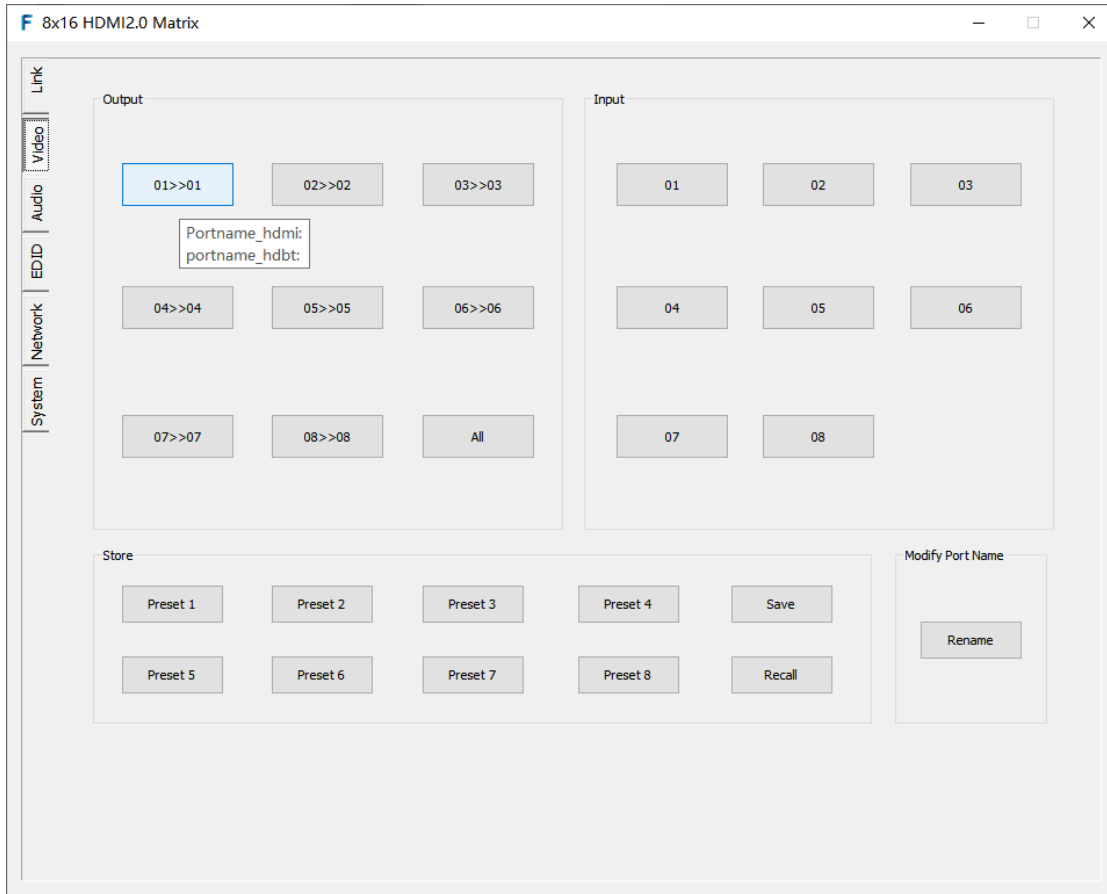
0d: 1~8 input ports, 0x: 1~8 output ports, all means all selection, support multiple selection, single selection

2. Input options: 01~08 means input port 1~8

3. Application Preset: 8 application presets are supported, save: 8 different application scenarios can be saved, and recall: call any one of them

4. Rename: HDMI, HDBT, input and other port names can be modified. A total of 8 names are

supported for each port. Mouse over one of the output options displays the HDMI and HDBT names, and mouse over one of the input options displays the input name.

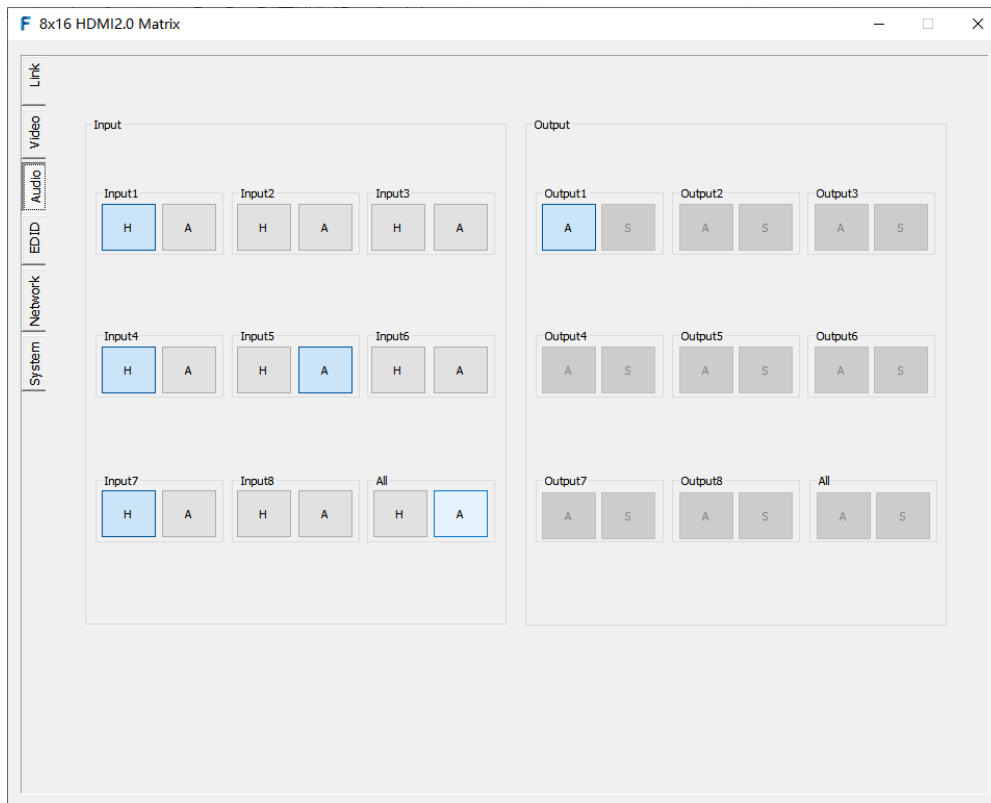


Usage:

1. Video switch: select any of the output options and then click any of the input options to switch directly, for example: click 04>>01 and select 01. The output 1 TV will display the input 1 source
2. Application Preset: users can switch and save in the application preset according to the commonly used video, and there is no need to switch the scenes for direct invocation next time. For example, after clicking all, select 08; after clicking preset1, click the red box again to save; after clicking preset1, select the green box recall to call
3. Rename modification: click on the rename page interface, select modify port type (HDMI, HDBT, input) in mode, enter the new name in the box after 01, and click save to complete the change

9.3 Audio Interface

1. Input audio option bar: HDMI audio input and analog audio input can be selected; H represents the audio of HDMI itself; A represents the mixing of analog audio
2. Output audio option bar: select analog audio separation, SPDIF audio separation, A represents analog audio separation, S represents digital audio separation
3. The blue background is selected, and gray indicates mute. It can be set with single, multiple or all options



9.4 EDID Interface

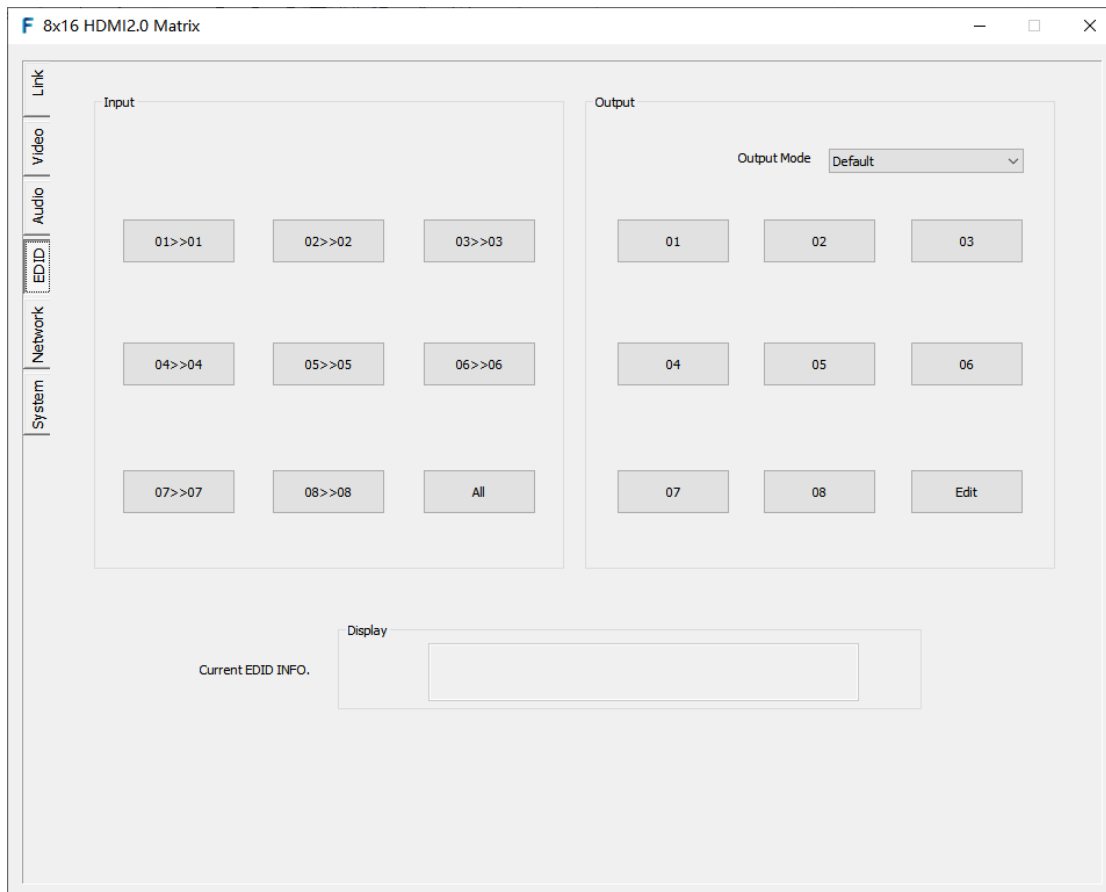
1. Input option bar: 01>>01~01>>08 is the port status, for example: 01>>01; 01> means the first HDMI port EDID, and >01 means the input port, which means the first HDMI port EDID is copied to the first signal source (in HDMI mode).

2. EDID option bar: four modes can be selected in the Output Mode drop-down box, User EDID (editable), built-in Default EDID, Output port HDMI EDID, Output port HDBT EDID

Built-in Default EDID:

Default1	4K60 444 HDR AC-35.1	Default5	4K30 444 3D LPCM2.0
Default2	4K60 444 HDR LPCM7.1	Default6	4K60 420 HDR 3D AC-35.1
Default3	4K60 444 HDR LPCM2.0	Default7	4K60 420 3D LPCM2.0
Default4	4K60 444 LPCM2.0	Default8	1080P60 444 3D LPCM2.0

3. EDID display bar: displays the currently set EDID information



Usage:

1. Copy EDID:

Select the corresponding Input port in the Input (multiple options are available, you need to select All and click the All button)

Select the Output port is HDMI (Default/User/HDBT) in the Output Mode drop-down box. Select the corresponding Output port in the Output to complete the operation

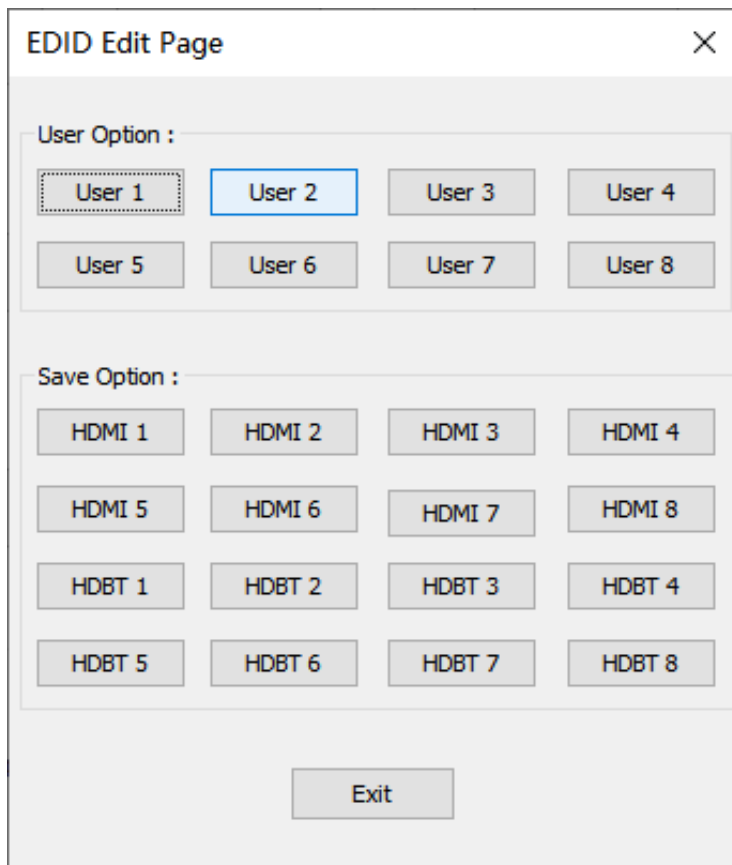
2. The user to edit EDID

Description: copy the Output EDID (currently only supports HDMI and HDBT) to the user-defined EDID (User Mode in Output Mode)

Specific steps: click Edit in the lower right corner of the Output dialog box, and the EDID Edit Page dialog box pops up. Select the corresponding User mode port in the User Option area (multiple options are available). In the Save Option area, select any HDBT or HDMI Output port (single Option) to copy the Output port information to the selected User port.

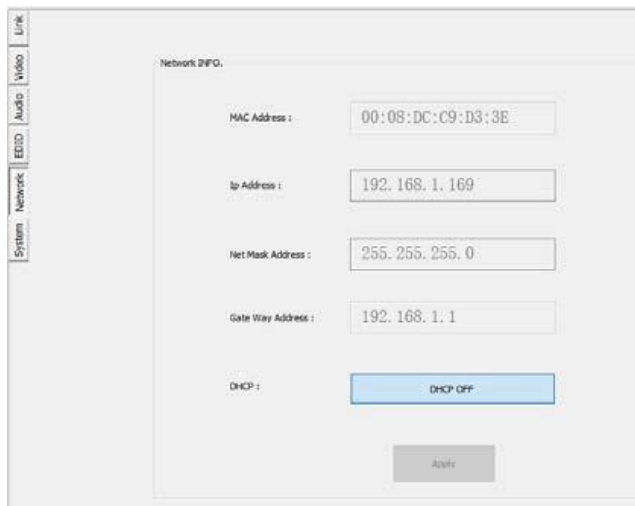
3. Click Exit or X to Exit the interface

4. Default EDID: 01-08 EDID can be selected after clicking default

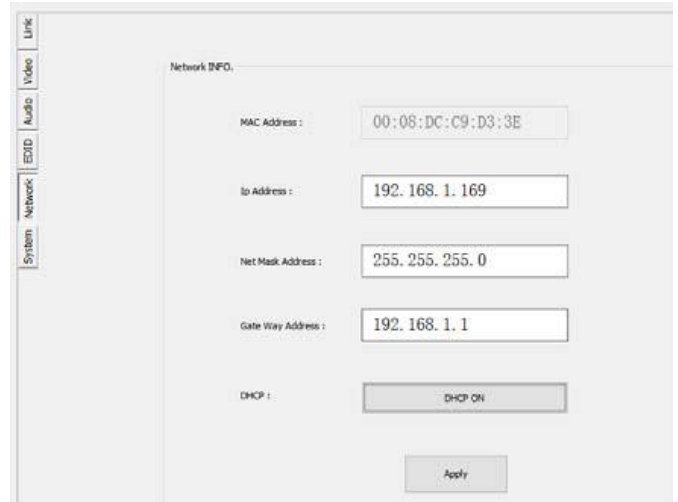


9.5 Network Interface

1. Network INFO: MAC address can only be displayed and cannot be modified
2. DHCP off state: when using static IP, IP and other addresses can be modified. After apply is applied, it needs to log in the GUI interface again and use the new IP address
3. DHCP on state: use the key switch to switch to DHCP on state, use dynamic IP, IP and other addresses below, and the dialog box turns gray. Cannot be modified, can display the current IP address information
4. DHCP switch is a compound switch, and DHCP On and DHCP Off are two choices. When off is displayed, it means the current state is static; when on is displayed, it means the current state is dynamic



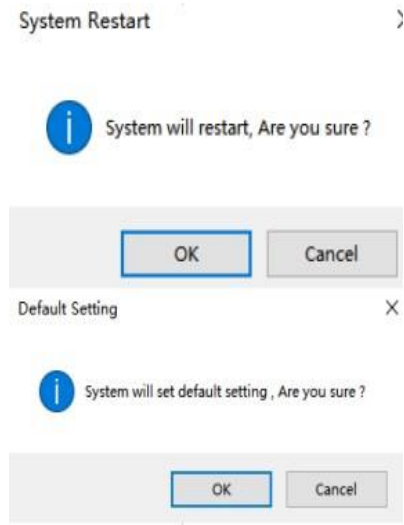
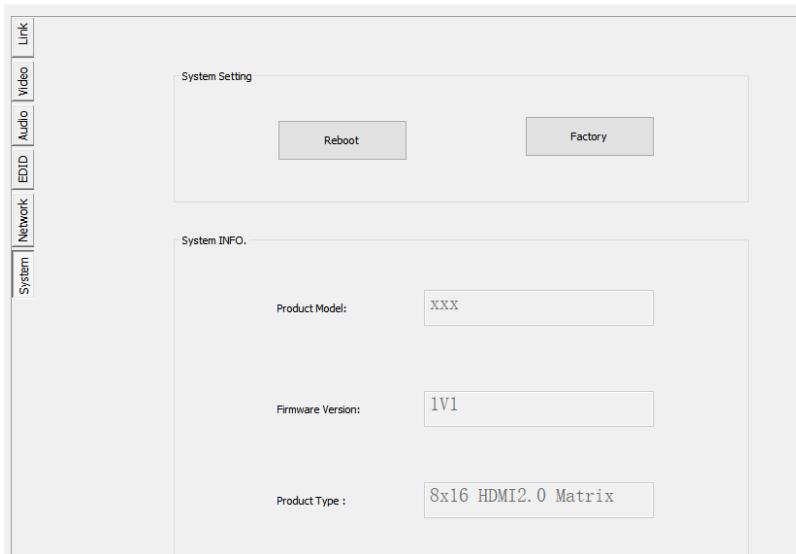
The screenshot shows the 'Network INFO.' configuration page. On the left, a vertical navigation menu includes 'System', 'Network', 'EDTD', 'Audio', 'Video', and 'Link'. The 'Network' menu item is selected. The main content area contains the following fields: 'MAC Address' (00:08:DC:C9:D3:3E), 'Ip Address' (192.168.1.169), 'Net Mask Address' (255.255.255.0), and 'Gate Way Address' (192.168.1.1). The 'DHCP' section features a blue button labeled 'DHCP OFF'. An 'Apply' button is located at the bottom center.



The screenshot shows the 'Network INFO.' configuration page with the same layout as the previous image. The 'DHCP' section now features a gray button labeled 'DHCP ON'. The 'Apply' button remains at the bottom center.

9.6 System Interface

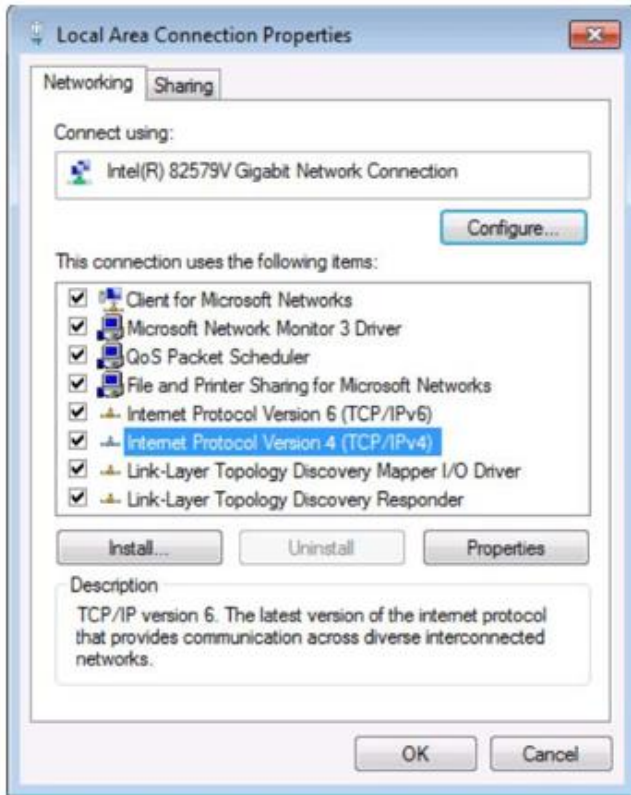
1. Product Model :(can be modified)
2. Firmware: software version (that cannot be modified)
3. Product type: original product type (cannot be modified)
4. Reboot: reboot the device
5. Factory: restore factory Settings
6. Operation steps: click reboot (factory) and the dialog box system restart (default setting) will pop up. Click OK



10. Web Control

10.1 Change PC IP Address

1. Connect the Ethernet port of matrix to the Ethernet port on PC by a crossover cable with RJ45 connectors.
2. Configure your PC as follows:
 - Click **Start > Control Panel > Network and Sharing Center.**
 - Click **Change Adapter Settings.**
 - Highlight the network adapter you want to use to connect to the device and click **Change settings of this connection.**
3. The local Area commotion properties window for Network selection appears as below:
4. Click the Highlight **Internet Protocol Version 4 (TCP/IPv4).**
5. Click **Properties.**
6. Select **Use the following IP Address** for static IP addressing and fill in the details.
For TCP/IPv4 you can use any IP address in the range 192.168.1.1 to 192.168.1.255 (excluding 192.168.1.168).
7. Click **OK.**
8. Click **Close.**



(Default IP Address: **192.168.1.168**; MASK: **255.255.255.0**; Gateway: **192.168.1.1**; MAC: **0008-DCCA-CF3F**)

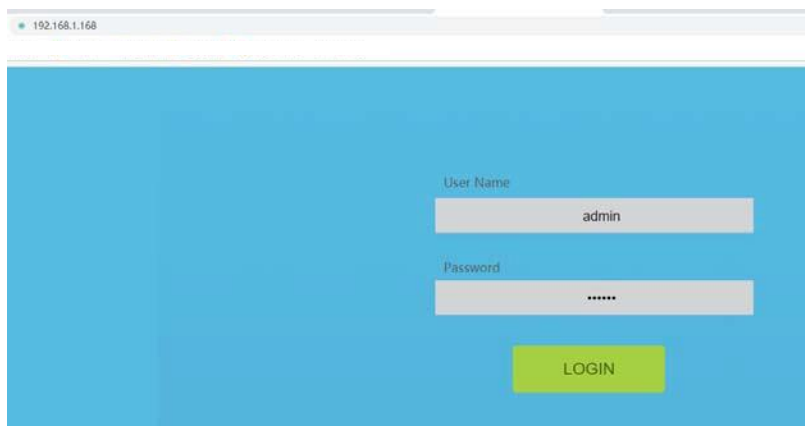
10.2 Enter Web and Control

1. Enter the default IP address of the matrix: 192.168.1.168.

2. You will see following picture and control:

(User Name: admin; Password:123456)

Note: web control is recommended to use Google, fire fox, IE8 and above browsers, using other browsers may not be compatible



10.2.1 Video Interface

1. Output selection bar: 01>>0~08>>08, input option bar: 01~08 means input port; all means select all

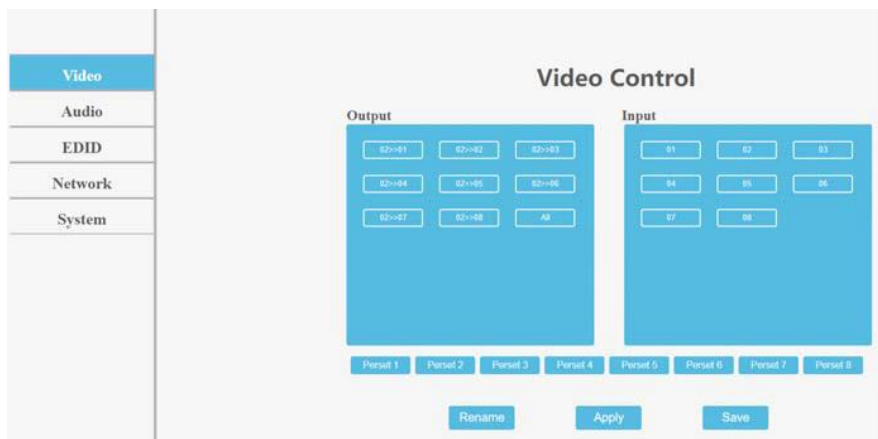
2. Video switch: First select the output then input, gray means selected, and then click apply to complete the switch.

For example: select 03>>01 then click 01, and finally click apply on the blue box will be displayed when signal source or TV is connected

3. Scenario application

Save: first select any one of preset 1-8, gray means selected, and then click save to complete the save

Apply: select any one of preset1~8 and click Apply again to complete the recall



4. Rename: modify input/output port name. Operation steps: click into the interface of port modification, enter the name of modification in the new name column and click apply

RenamePage ✉

HDMI 01: <input type="text" value="wex"/>	HDMI 02: <input type="text" value="wdx"/>
HDMI 03: <input type="text" value="New name..."/>	HDMI 04: <input type="text" value="New name..."/>
HDMI 05: <input type="text" value="New name..."/>	HDMI 06: <input type="text" value="New name..."/>
HDMI 07: <input type="text" value="New name..."/>	HDMI 08: <input type="text" value="New name..."/>
HDBT 01: <input type="text" value="New name..."/>	HDBT 02: <input type="text" value="New name..."/>
HDBT 03: <input type="text" value="New name..."/>	HDBT 04: <input type="text" value="New name..."/>
HDBT 05: <input type="text" value="New name..."/>	HDBT 06: <input type="text" value="New name..."/>
HDBT 07: <input type="text" value="New name..."/>	HDBT 08: <input type="text" value="New name..."/>
Input 01: <input type="text" value="New name..."/>	Input 02: <input type="text" value="New name..."/>
Input 03: <input type="text" value="New name..."/>	Input 04: <input type="text" value="New name..."/>
Input 05: <input type="text" value="New name..."/>	Input 06: <input type="text" value="New name..."/>
Input 07: <input type="text" value="New name..."/>	Input 08: <input type="text" value="New name..."/>

10.2.2 Audio Interface

1. Input audio mixing: H means HDMI audio mixing, A means analog audio mixing, 01~08 means audio input port, all: all selected
2. Output audio separation: A means analog audio separation; S means SPDIF audio separation; 01~08 means audio output port; All: all selected
3. Gray means selected

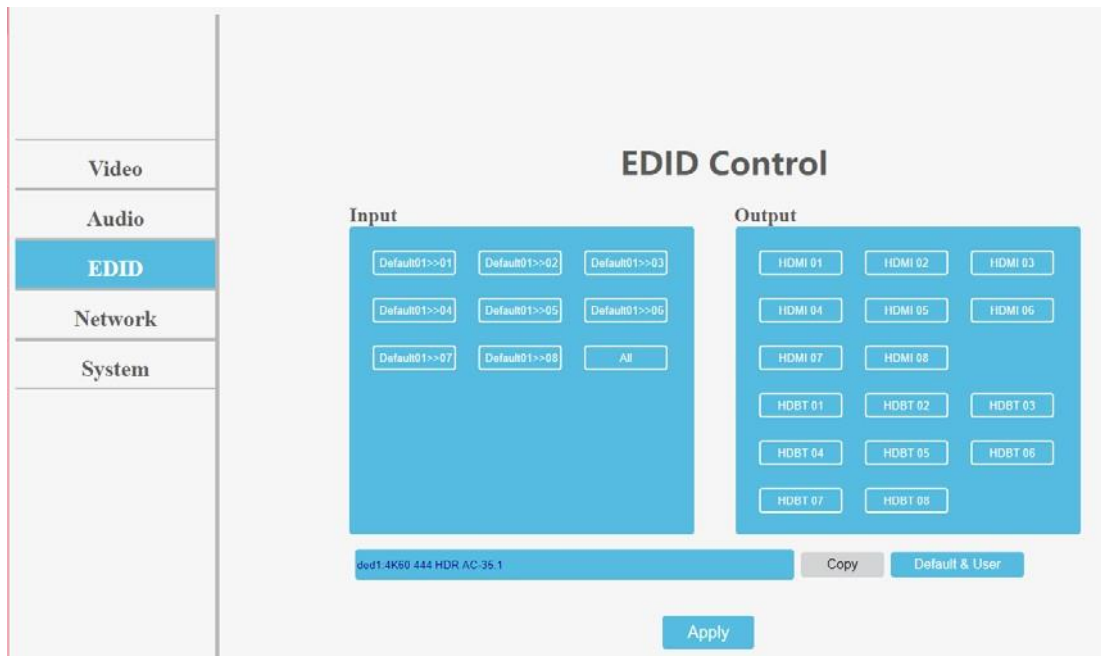
10.2.3 EDID Interface

EDID copy: HDMI01>>01 means copy output HDMI01's EDID; HDBT01>>01 means copy HDBT01's EDID.

Default EDID:

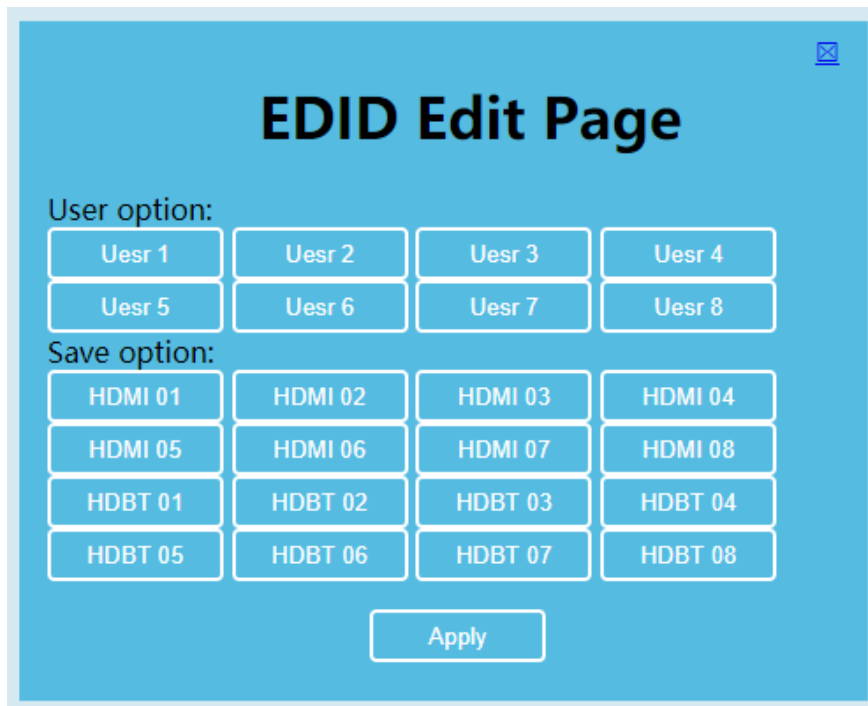
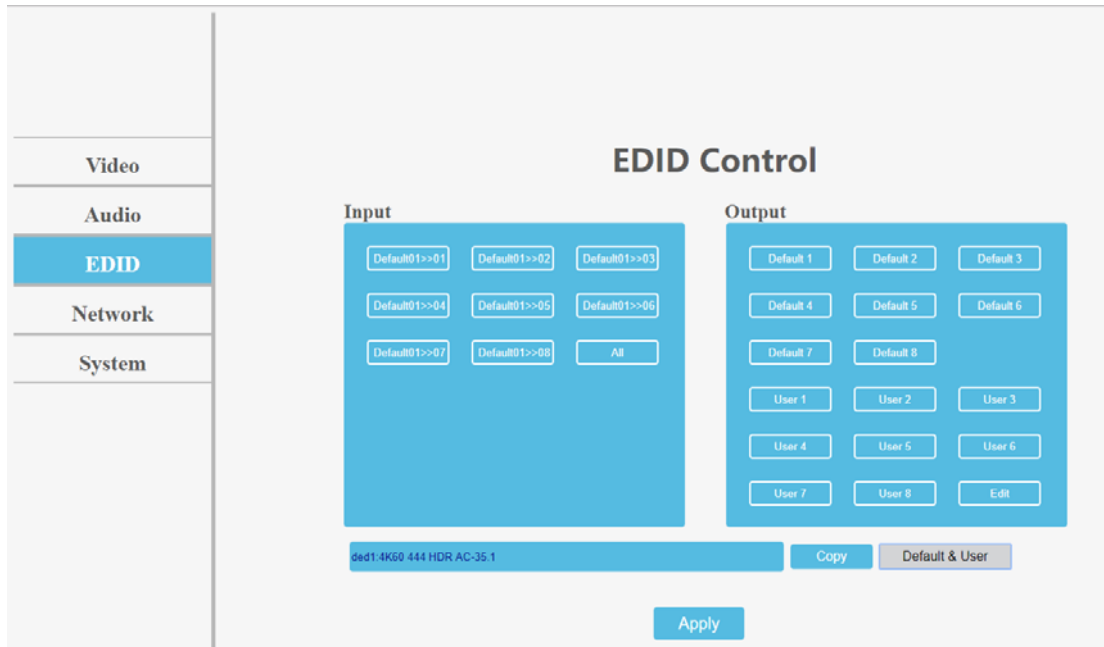
Default1	4K60 444 HDR AC-35.1	Default5	4K30 444 3D LPCM2.0
Default2	4K60 444 HDR LPCM7.1	Default6	4K60 420 HDR 3D AC-35.1
Default3	4K60 444 HDR LPCM2.0	Default7	4K60 420 3D LPCM2.0
Default4	4K60 444 LPCM2.0	Default8	1080P60 444 3D LPCM2.0

Gray means selected



User EDID: user 1~8 means the user's EDID. A total of 8 EDID can be saved.

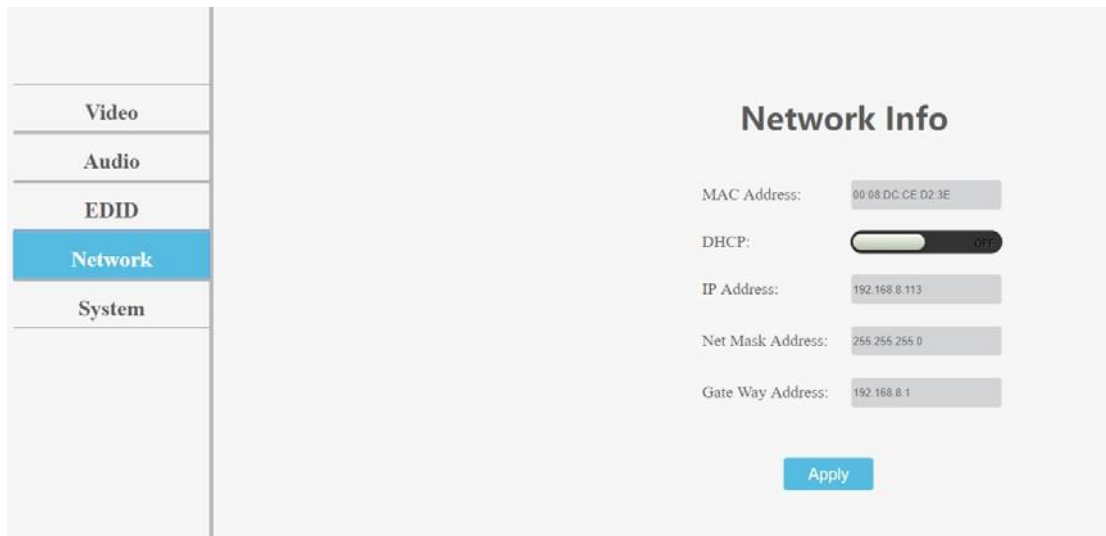
Click edit to enter the user setting interface, select any port in the save option, then click save to one of the user ports, and then click apply to confirm



10.2.4 Network Interface

1. The interface displays Mac address, IP address, sub code mask and gateway address
2. DHCP can only modify IP address, sub net mask and gateway in the off state, and does not support any parameter modification in the on state

3. DHCP switch: click Apply after click the white scroll bar to modify



The screenshot shows a web interface with a sidebar on the left containing menu items: Video, Audio, EDID, Network (highlighted in blue), and System. The main content area is titled "Network Info" and contains the following fields:

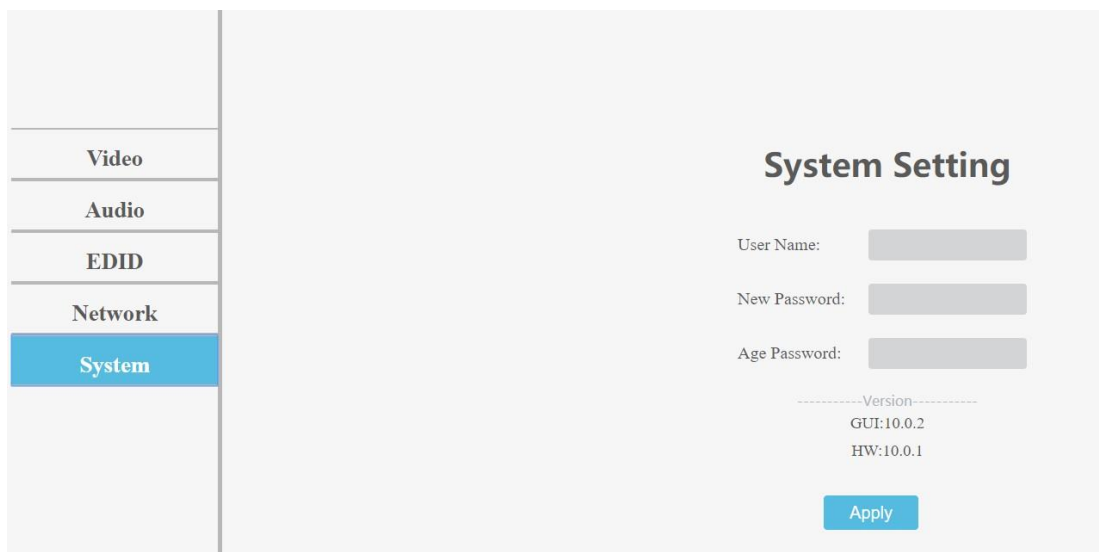
- MAC Address: 00:08:DC:CE:D2:3E
- DHCP: A toggle switch currently set to "OFF".
- IP Address: 192.168.8.113
- Net Mask Address: 255.255.255.0
- Gate Way Address: 192.168.8.1

An "Apply" button is located at the bottom center of the configuration area.

10.2.5 System Interface

The user name means change the logged-in user name. New password means enter the new password in the login interface, age password means enter the new password again, and click apply to complete the modification after entering

1. Matrix has 5 default accounts: admin~admin4, password: 123456. Account has level permissions
2. Only supports changing 6-15 characters of the account password in the form of letters, underscores and Numbers.)



The screenshot shows a web interface with a sidebar on the left containing menu items: Video, Audio, EDID, Network, and System (highlighted in blue). The main content area is titled "System Setting" and contains the following fields:

- User Name:
- New Password:
- Age Password:

Below the password fields, the version information is displayed:

-----Version-----
GUI:10.0.2
HW:10.0.1

An "Apply" button is located at the bottom center of the configuration area.

11. RS232 Pass Through

By RS232 Command, the matrix can send RS232 data to control the receivers, also the receiver can send RS232 data to control the Matrix.

Please refer to the command list which included in the manual.

12. RS232 Online Upgrading Firmware

1. Use serial port upgrade, and the host dial code is pre- adjusted to the right to enter the serial port upgrade mode;

2. RS232/Micro USB connection computer and product, open special upgrade software, click

"Refresh" to make serial number Refresh;

3. COM port to choose the port connected with the product;

4. The baud rate setting is consistent with the host baud rate (default 115200);

5. Upgrade instructions in the upgrade instruction box (some instructions are as follows);

A1 means MCU;

A1 01 means GUI;

F0 01 means HTML.

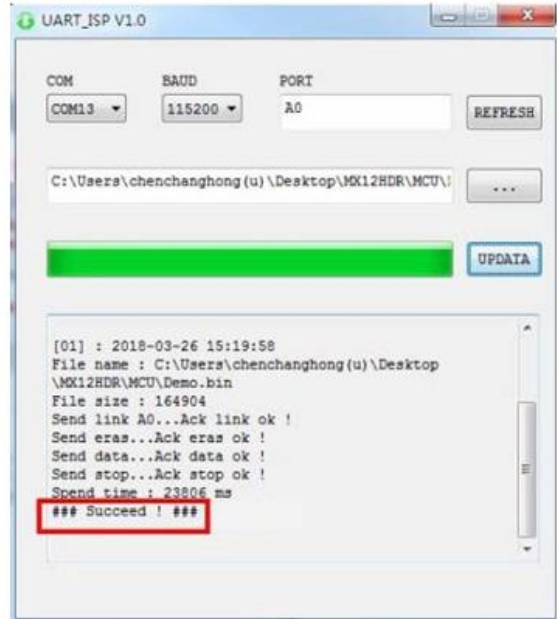
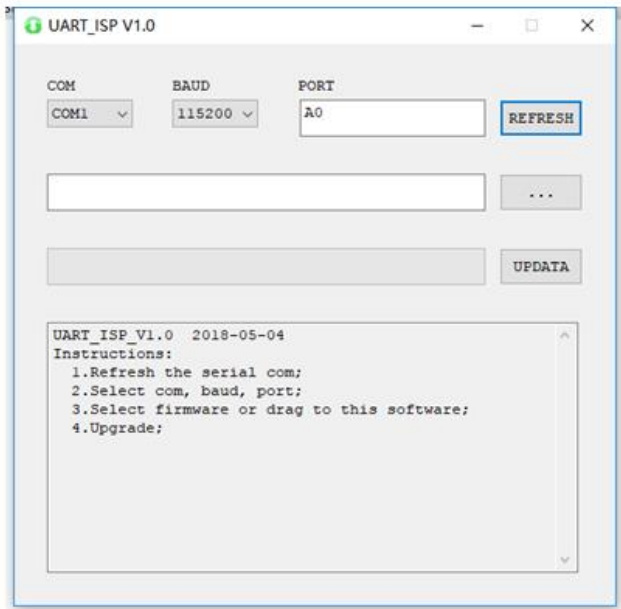
6. Click on the "...Select the upgrade file for download;

7. Click "Update" and the system starts to upgrade;

8. The updated information box will prompt "Succeed" information when the upgrade is completed, and the representative program has been upgraded successfully.

Note: Before burning, it is confirmed that HDMI/HDBT input and export are suspended. If other devices are connected, the host will automatically stop the upgrade.

If the upgrade progress bar is stopped in the middle of the upgrade, then the host will need to be rebooted, then the serial port will be upgraded.



Note: Need an adapter for Phoenix terminal to RS232 port.



13. Maintenance

Clean this unit with a soft, dry cloth. Never use alcohol, paint thinner, or benzene to clean.

14. Warranty

If your product does not work properly because of a defect in materials or workmanship, our company (referred to as “the warrantor”) will, for the length of the period indicated as below, “Parts and Labor (5) Years”, which starts with the date of original purchase (“Limited Warranty period”), at its option either (a) repair your product with new or refurbished parts, or (b) replace it with a new or a refurbished product. The decision to repair or replace will be made by the warrantor.

During the “Labor” limited warranty period, there will be no charge for labor. During the “Parts” warranty period, there will be no charge for parts. You must mail-in your product during the warranty

period. This Limited Warranty is extended only to the original purchaser and only covers products purchased as new. A purchase receipt or other proof of original purchase date is required for Limited Warranty service.

15. Mail-In Service

When shipping the unit, carefully pack and send it prepaid, adequately insured, and preferably in the original carton. Include a letter detailing the complaint and provide a day time phone and/or email address where you can be reached.

16. Limited Warranty Limits and Exclusions

This Limited Warranty ONLY COVERS failures due to defects in material or workmanship, and DOES NOT COVER normal wear and tear or cosmetic damage. The Limited Warranty ALSO DOES NOT COVER damages which occurred in shipment, or failures which are caused by products not supplied by warrantor, or failures which result from accidents, misuse, abuse, neglect, mishandling, misapplication, alteration, faulty installation, set-up adjustments, mis-adjustment of consumer controls, improper maintenance, power line surge, lightning damage, modification, or service by anyone other than a Factory Service center or other Authorized Servicer, or damage that is attributed to acts of God.

THERE ARE NO EXPRESS WARRANTIES EXCEPT AS LISTED UNDER "LIMITED WARRANTY COVERAGE". THE WARRANTOR IS NOT LIABLE FOR INCIDENTAL OR CONSEQUENTIAL DAMAGES RESULTING FROM THE USE OF THIS PRODUCT, OR ARISING OUT OF ANY BREACH OF THIS WARRANTY. (As examples, this excludes damages for lost time, cost of having someone remove or re-install an installed unit if applicable, travel to and from the service, loss of or damage to media or images, data or other recorded content. The items listed are not exclusive, but are for illustration only.) PARTS AND SERVICE, WHICH ARE NOT COVERED BY THIS LIMITED WARRANTY, ARE YOUR RESPONSIBILITY.



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