J-TECH DIGITAL®

USER MANUAL

4K60HZ 8X8 HDMI 2.0 MATRIX SWITCH

JTD-2985 I JTECH-88B

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HDMI™ HIGH DEFINITION MULTIMEDIA INTERFACE RoHS compliant CE FC

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.

SAFETY PRECAUTIONS

Please read all instructions before attempting to unpack, install or operate this equipment and before connecting the power supply.

Please keep the following in mind as you unpack and install this equipment:

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

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1. Introduction

This 8x8 4k HDMI Matrix supports the transmission of video (resolutions up to 4K2K@60Hz, HDCP 2.2, HDMI2.0) and multi- channel digital audio from 8 HDMI sources to 8 HDMI outputs and 8 SPDIF Output. This matrix supports high resolution digital audio formats such as Dolby TrueHD and DTS-HD Master Audio as well as 3D video content. In addition, this matrix also allow Analog audio embed and extract from 8 Analog audio inputs and 8 Analog audio outputs.

Controllable via Panel buttons, local IR, RS-232, IP or Web GUI. We can provide control drivers for all the major control systems. This unit also supports HDR10 to bring ultimate visual experience. It is designed to save end users' time and energy for they are able to update the system by the creative RS232 interface.

2. Applications

- Video/TV wall display and control
- Security surveillance and control
- Commercial advertising, display and control
- University lecture hall, display and control
- Retail sales and demonstration

3. Package Contents

- 1 x HDMI Matrix
- 1 x DC12V 3A power supply
- 1 x Remote control
- 1 x IR Ext RX Cable
- 1 x Mounting kit
- 1 x CD for control software & user manual

4. System Requirements

- HDMI source equipment such as media players, game consoles or set-top boxes.
- HDMI receiving equipment such as HDTV, monitors, or audio amplifiers.
- The use of “Premium High-Speed HDMI” cables is highly recommended.

5. Features

- HDMI 2.0 Matrix system with 8 inputs and 8 outputs
- Supports 4K60Hz YUV4:4:4 and 3D
- Bandwidth up to 18Gbps
- HDCP1.4/2.2 compliant
- Support HDR10, HLG, Dolby Vision
- 8 x Analog audio inputs and 8 x Analog audio outputs, and 8 x S/PDIF audio outputs
- Supports Analog audio embedding and HDMI audio extraction
- Supports LPCM2.0-5.1/16-24BIT/32-192KHZ, Dolby Atmos and DTS-X
- RS232 interface for control and firmware upgrade
- Controllable via front-panel buttons, IR remote, RS232, Web GUI
- Support EDID management, CEC and ARC

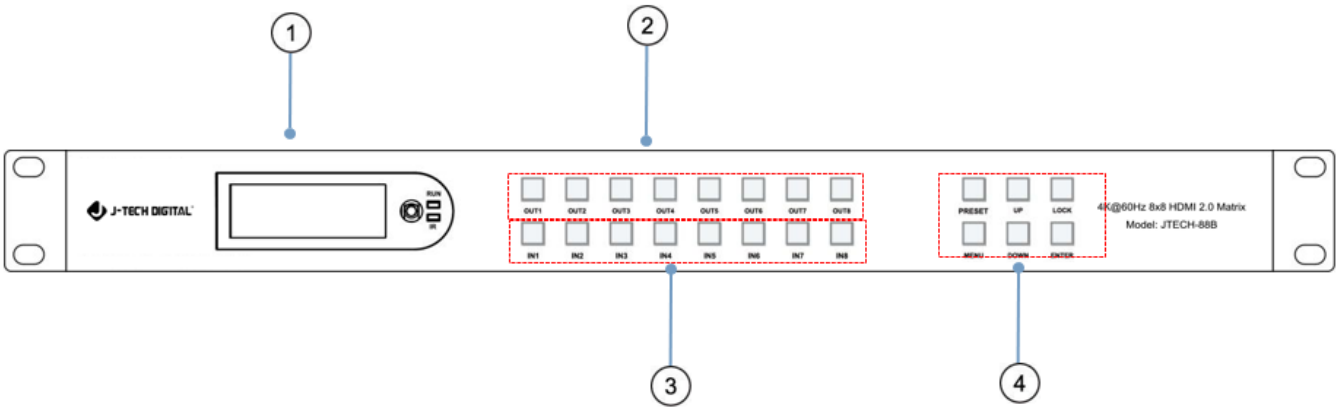
6. Specifications

Bandwidth	18 Gbps
Resolution	480p@60hz, 576P@50hz, 720P@60hz 1080P@24hz, 1080P@50hz, 1080P@60hz, 4K@24hz, 4K@30hz, 4K@60hz YUV4:2:0, 4K@60hz YUV4:4:4
Video Input Connectors	8 x HDMI Type A, 19-pin, female
Video Output Connectors	8 x HDMI Type A, 19-pin, female

Audio Input Connectors	8 x Analog audio, 3.5mm, female
Audio Output Connectors	8 x Analog audio, 3.5mm, female, 8 x SPDIF Coaxial
RS-232 serial port	DB9, female
Ethernet port (IP control)	RJ45, female
IR Ext port	1x3.5mm stereo jack
Dimensions (WxHxD)	482.4mm x 220mm x 44mm | 18.99” x 8.66” x 1.73”
Net Weight	2.8kg | 6.17lbs
Operating Temperature	32°F to 104°F (0°C to 40°C)
Storage Temperature	14°F to 140°F (-10°C to 60°C)
Power consumption	28W (Max)

7. Operation Controls and Functions

7.1 Front Panel



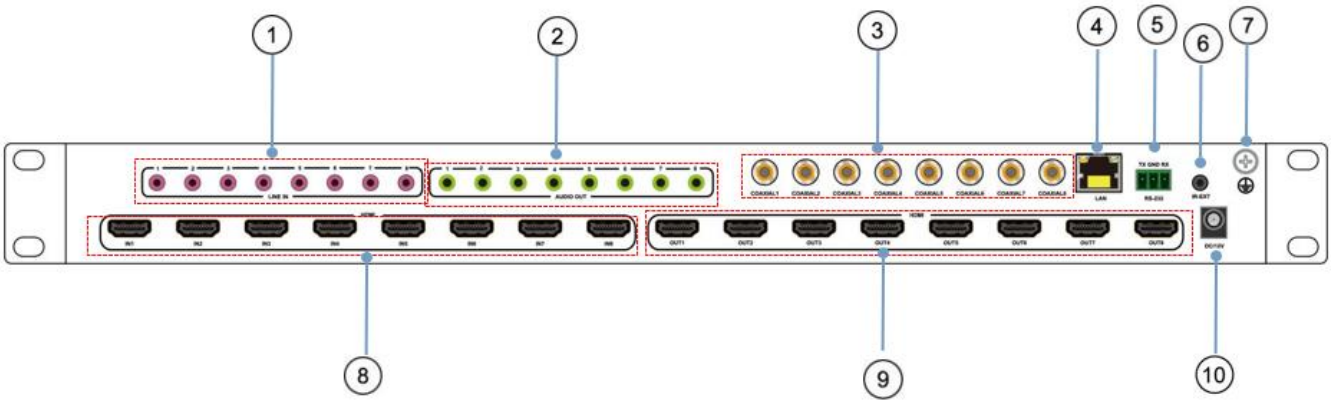
① LCD: Showing Matrix information

② Output button OUT1~8

③ Input button IN1~8

④ Function button: PRESET; MENU; UP; DOWN; LOCK; ENTER

7.2 Rear Panel



① AUDIO IN (Analog x8)

② AUDIO OUT (Analog x8)

③ AUDIO OUT (SPDIF x8)

④ Ethernet port

⑤ RS232

⑥ IR port

⑦ Grounding

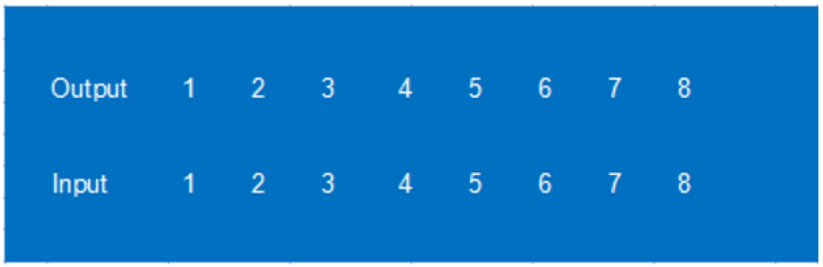
⑧ HDMI Input ×8

⑨ HDMI Output×8

⑩ Power on/off

7.3 LCD Screen Information

Device Startup interface(picture-1)



Channel interface (picture-2)

7.3.1 Input / Output Channel Key Operation

Channel	Button method
Any Key	The first operation of the button can wake up the screen and complete the key function while the blue button light will light up.
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 any channel number to select all channels, and long press again to cancel. After press the button, no next operation is performed within 10 seconds, and the operation state ends.
MENU	Function Button; Enter the function option or back to previous option. Long press back to function option, the next step is not performed for 30 seconds, screen back to select channel interface
ENTER	Confirm Button: enter function selection mode
UP	Button for UP option
DOWN	Button for NEXT option
PRESET	Quick selection scene button
LOCK	Long press lock (button built-in blue light on), Long press again to cancel lock (button built-in blue light off)

7.3.2 Video Switching Operation

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 to any input. Signal to 1 channel output or all channel outputs.

The specific operation is as follows:

Video switching mode (picture-3)

Switching the input to the output:

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

For Example: Output port 1, 2, 4 switch to input 3

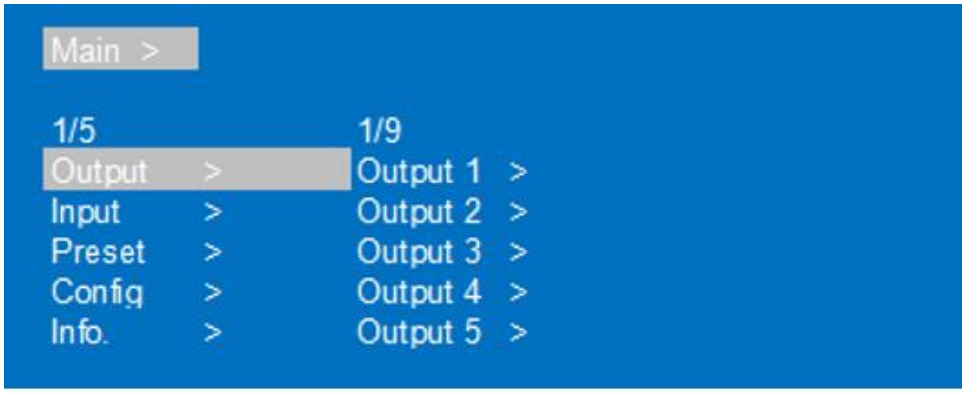
Operation: Press OUT number "1" "2" "4" + IN number "3" to complete the switch

For Example: Switch all outputs to input 4

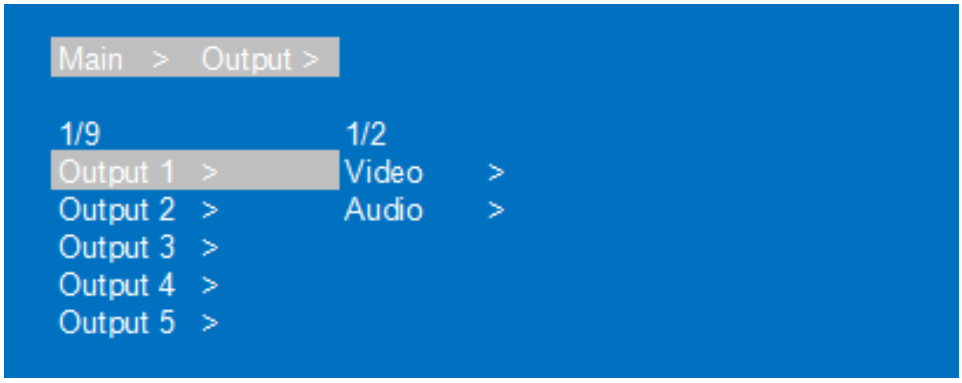
Operation: Long press input number "4" to complete the switch

Output signal Control

Output interface has nine sub-menus: Output1-Output8 and All. Switch the video source of the output port and turn on/off the output audio video signal.



Output menu interface(picture-4)



Output port menu interface(picture-5)

Output Video Switch and On/Off

Switch any output to one input, or switch all outputs to one input; Default 8×8 matrix, 8 inputs and 8 outputs, one to one output.

Operation instructions:

①Select “Output” in the menu and press “ENTER”

②Then use “UP” “DOWN” button to select “output 1~8 or All”, The bottom color of the selected output port becomes white.

③Press “Enter” enter next page.

④Press “UP” “DOWN” button to select “Video”, press “Enter”

⑤Press “UP” “DOWN” button to select “Source”, press “Enter”

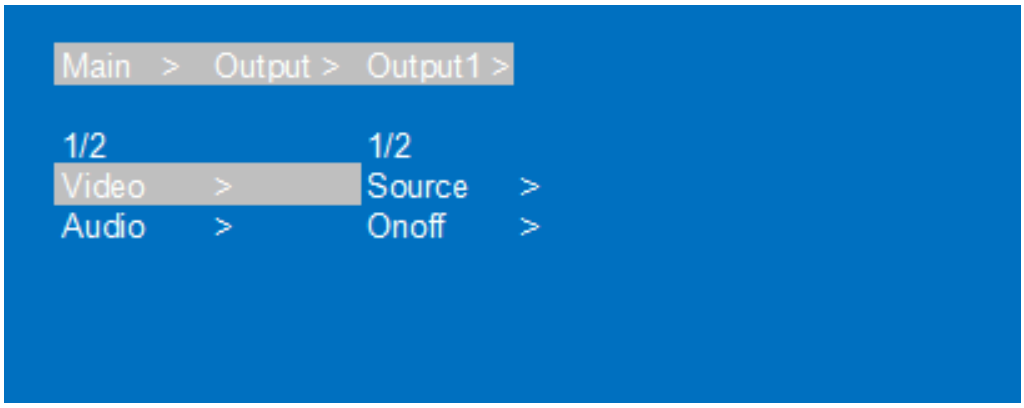
⑥Press “UP” “DOWN” button to select “Source”, press “Enter”

⑦Press “UP” “DOWN” button to select “Input 1~8”, press “Enter”, switch done

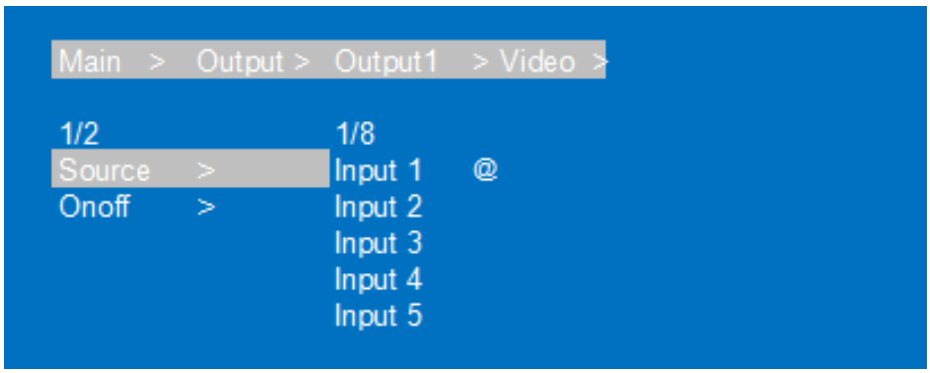
⑧Press “MENU” button back to previous option, Press “UP” “DOWN” button to select “On/off”

⑨Press “Enter”

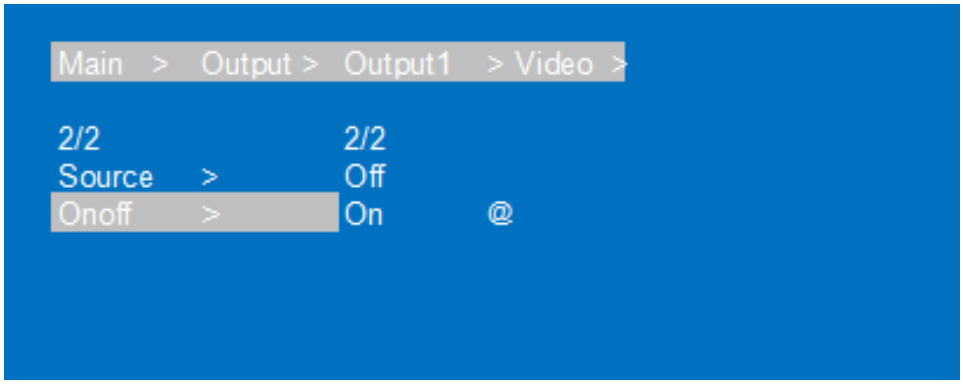
⑩Press “UP” “DOWN” button to select “On/off”, output video on/off done. (This function is on by default)



Video Switch interface(picture-6)



Input port select interface(picture-7)



On/off select interface(picture-8)

7.3.3 Output Audio On/Off Control

On/off output audio, include HDMI, Analog, SPDIF, ARC; ARC function is off by default.

Operation instructions: (turn off other audio is same)

①Select “Output” and press “ENTER”

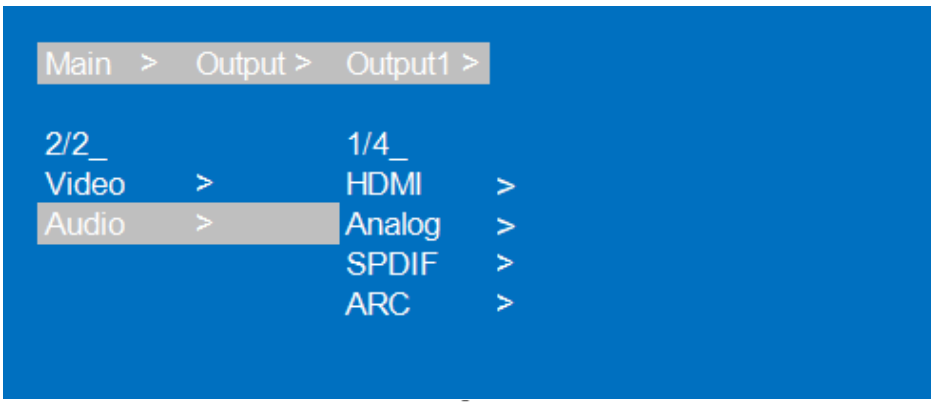
②Press “UP” “DOWN” button to select “Output1~8 or All (means all outputs)”. The bottom color of the selected output port becomes white.

③Press “Enter”

④Press “UP” “DOWN” button to select “Audio”, Press “ENTER”

⑤Press “UP” “DOWN” button to select the mode: HDMI; Analog; SPDIF; ARC, press “ENTER”

⑥Press “UP” “DOWN” button to select “On/Off”, output audio on/off done

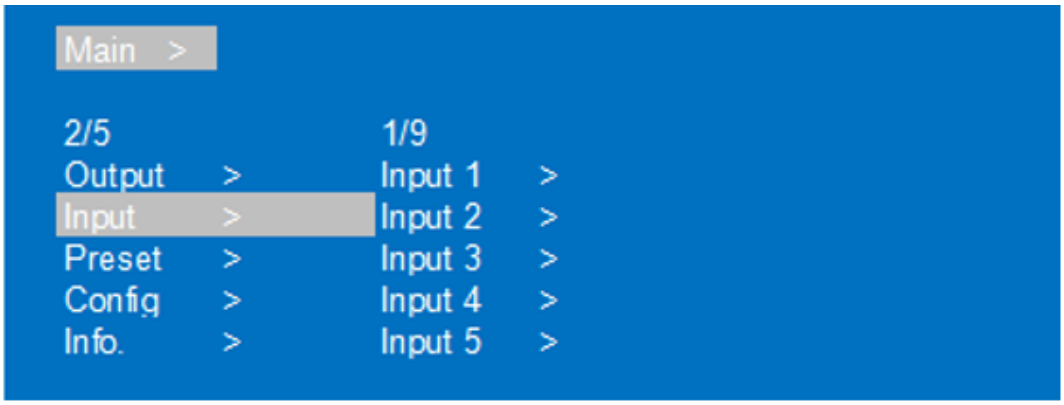


Audio control interface(picture-9)

Output audio on/off interface(picture-10)

7.3.4 Input Signal Control

Input signal control interface has nine sub-menus: Input1~8 and All (means all inputs), The third level sub-menu includes Video, Audio, and EDID settings.



Input option interface(picture-11)

Input mode interface(picture-12)

1) On/off input video

Turn on/off input video settings

Operation instructions:

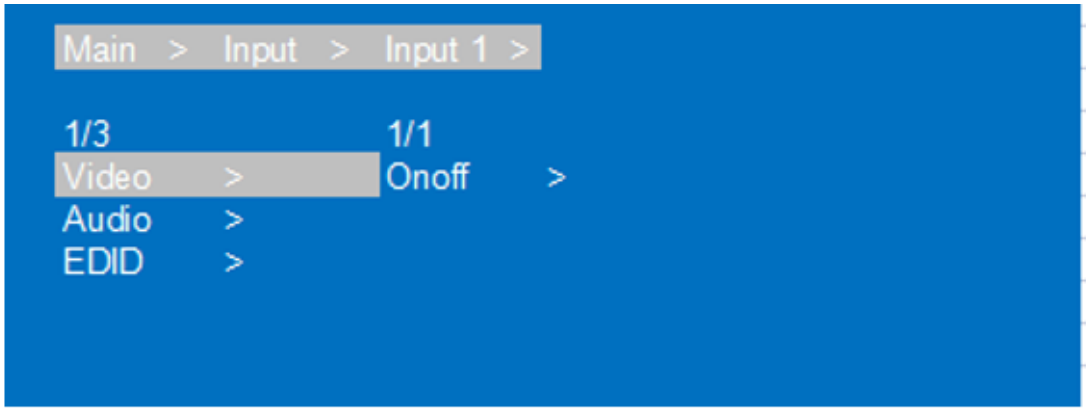
①Select “Input”, Press “ENTER”

②Press “UP” “DOWN” button to select “Input1~8 or All”, Press “ENTER”

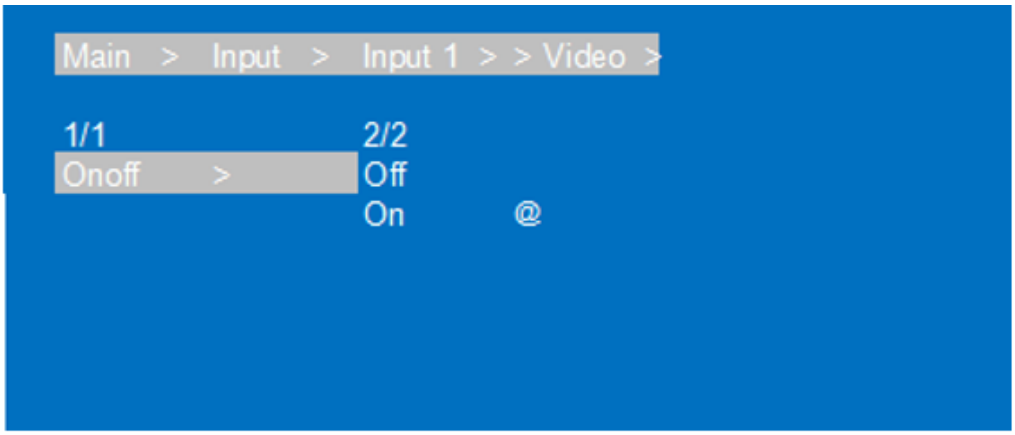
③Press “UP” “DOWN” button to select “Video”, Press “ENTER”

④Select “On/off”, Press “ENTER”

⑤Press “UP” “DOWN” button to select “On/Off”, On/off input video done



Input video control interface(picture-13)



On/off input video interface(picture-14)

2) On/off input audio and choose audio source

Choose HDMI input audio or Analog audio embedded and On/off input audio

Operation instructions:

①Select “Input”, Press “ENTER”

②Press “UP” “DOWN” button to select “Input1~8 or All”, Press “ENTER”

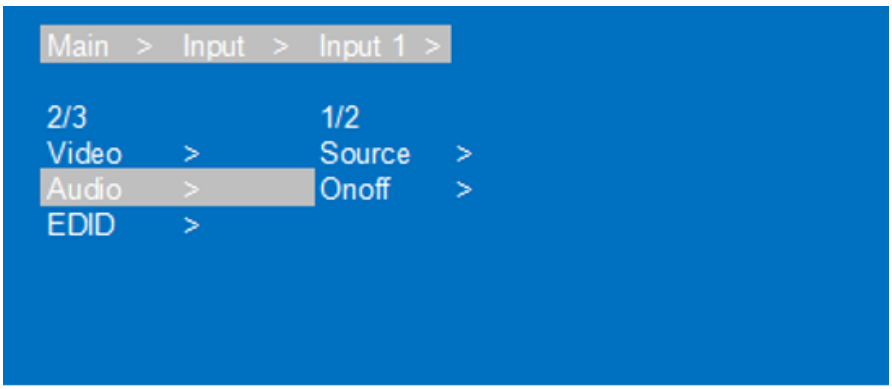
③Press “UP” “DOWN” button to select “Audio”, Press “ENTER”

④Press “UP” “DOWN” button to select “Source”, Press “ENTER”

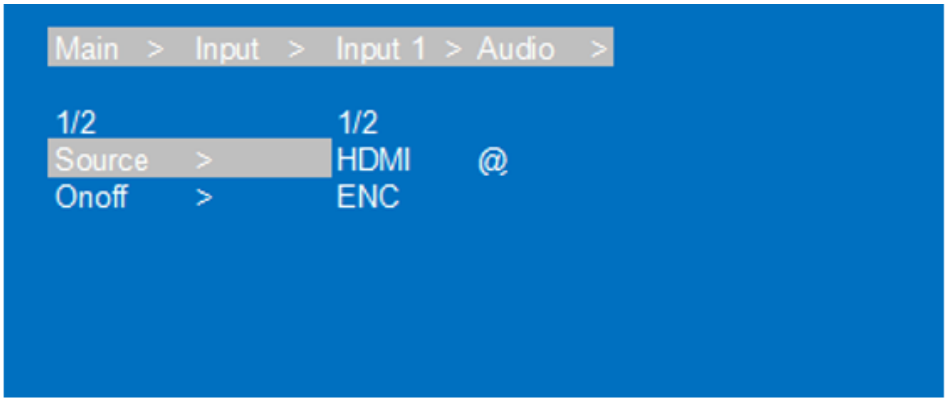
⑤Press “UP” “DOWN” button to select “HDMI/ENC”, Press “ENTER”, The selected off/on show @

⑥Press ”MENU”, then press “UP” “DOWN” button to select “On/off”, Press “ENTER”

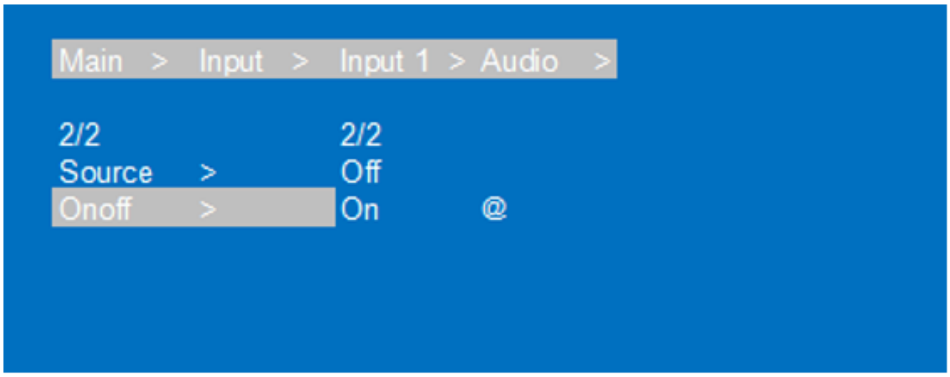
⑦Press “UP” “DOWN” button to select “On/Off”, input audio on/off done.



Input audio settings interface(picture-15)



Input audio source choose interface(picture-16)



On/off input audio source interface(picture-17)

7.3.5 EDID Settings

EDID Mode can set each input's EDID, Include: Default EDID; User EDID; Copy EDID;

1-4 are Default EDID, 5-8 are User EDID, 9-16 are Copy output 1-8 EDID, 17 is temporary EDID.

Operation instructions:

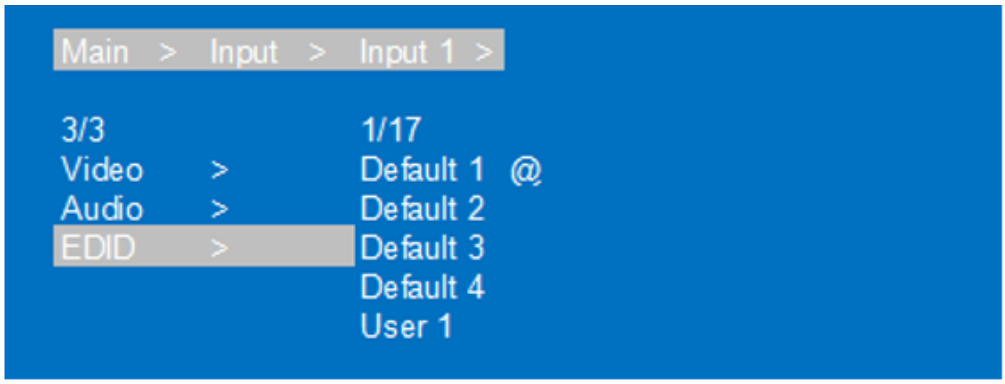
①Select "Input", Press "ENTER"

②Press "UP" "DOWN" button to select "Input1~8 or All", Press "ENTER"

③Press "UP" "DOWN" button to select "EDID", Press "ENTER"

④Press "UP" "DOWN" button to select EDID "Default1", Press "ENTER", setup complete

⑤The selected EDID will show EDID details (name, Max resolution, audio format, sound track)

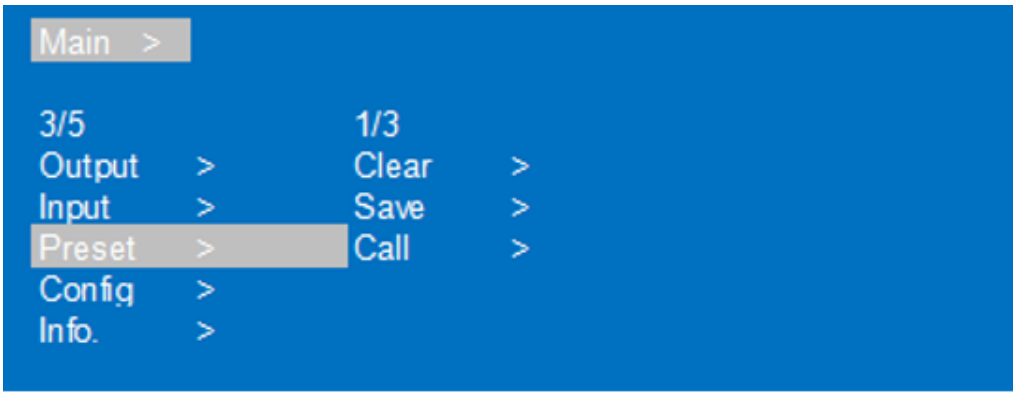


EDID settings interface(picture-18)

EDID information interface(picture-19)

7.4 Preset Scene Settings

Preset can save video, audio, EDID, system settings, support 8 differences presets, It can be changed and called by web page, command and panel buttons. The default preset is same as the factory setting PTP.



Preset option interface(picture-20)

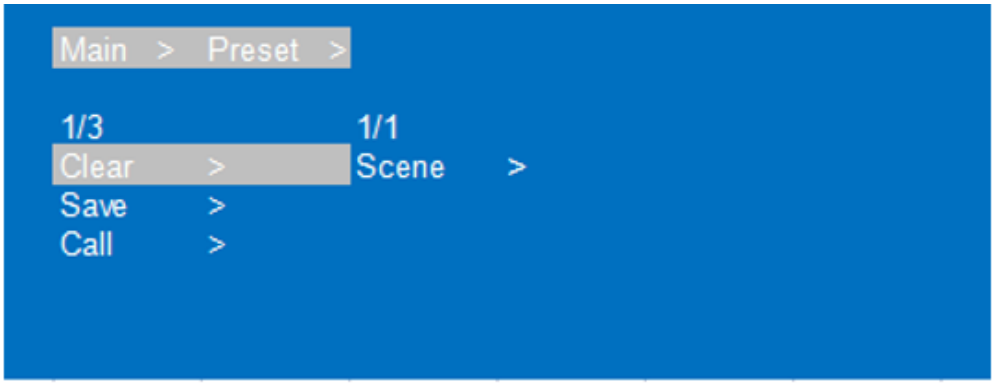
Operation instructions:

①Select “Preset”, Press “ENTER”, then enter preset scene interface;

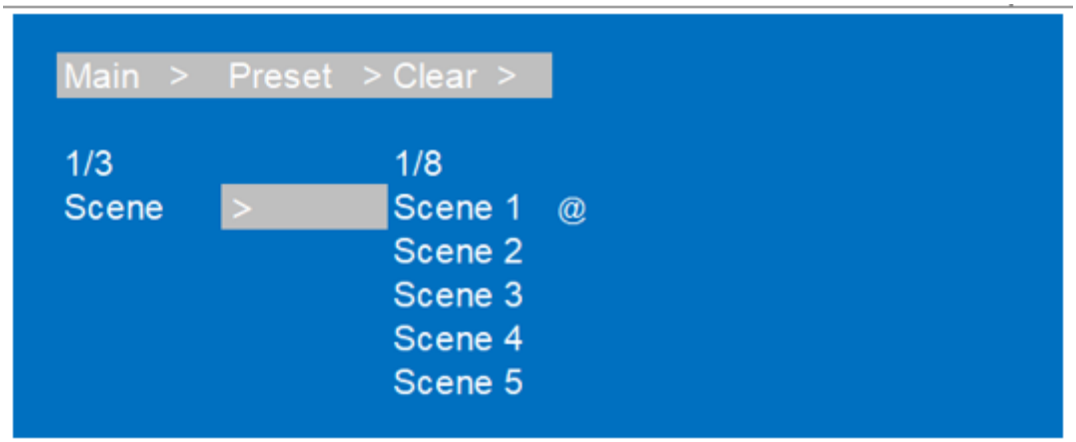
②Save preset: Select “Save” on preset interface, then select one of “Preset1~8”; Press “ENTER”, save current scene.

③Call preset: Select “Call” on preset interface, select one of the saved preset1-8 presets; Press “ENTER”, Call the preset scene saved previously.

④Clear preset: Select “Clear” on preset interface, select one of the saved preset1-8 presets; Press “ENTER”, this preset will return default.



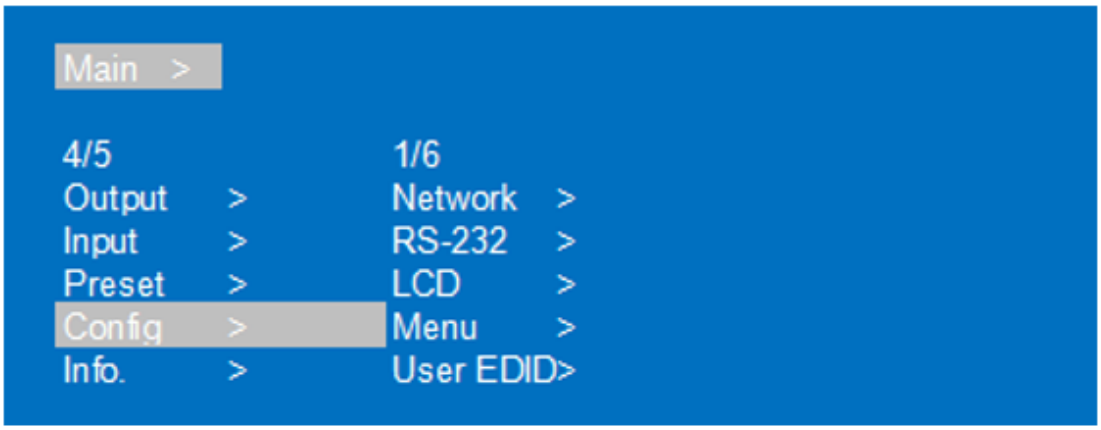
Scene preset interface(picture-21)



Preset operation interface(picture-22)

7.5 System Configuration

System configuration can set the device's network parameter, RS-232 baud rate, LCD screen, Menu, User EDID, system parameter.



System configuration interface(picture-23)

Network parameter settings

Set DHCP/IP/MASK/GW/Port/DNS/MAC

1) DHCP: Default Off (Static), After turn on (Dynamic), IP/MASK/GW are unable to set.

2) IP address: Default 192.168.1.168

3) MASK address: Default 255.255.255.0

4) GW: Default 192.168.1.1

5) PORT: TCP&UDP port, Default TCP 5000, UDP 5001.

6) DNS: Default 144.144.144.144 (unalterable)

Operation instructions:

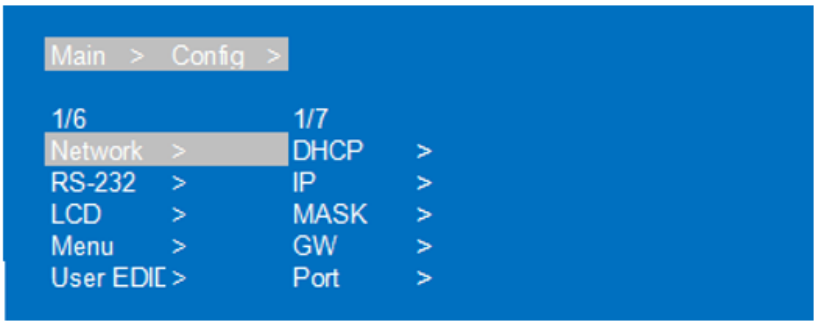
①Select “Config”, Press “ENTER”

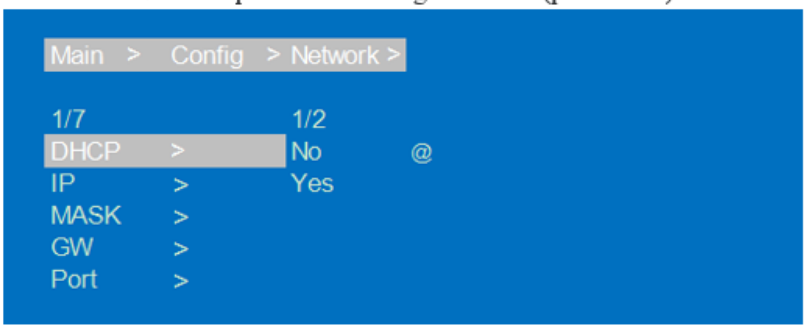
②Press “UP” “DOWN” button to select “Network”, Press “ENTER”

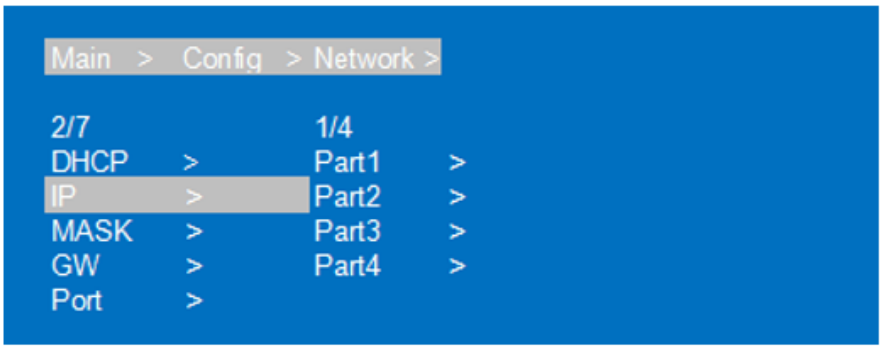
③Press “UP” “DOWN” button to select “DHCP”, Press “ENTER”, you can select “Yes/On” to turn on/off DHCP

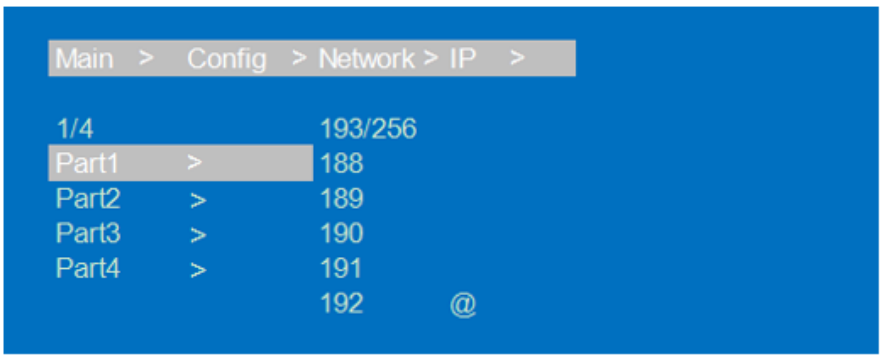
④Press “MENU”, Select “IP/MASK/GW/Port/DNS/MAC”, Press “ENTER”

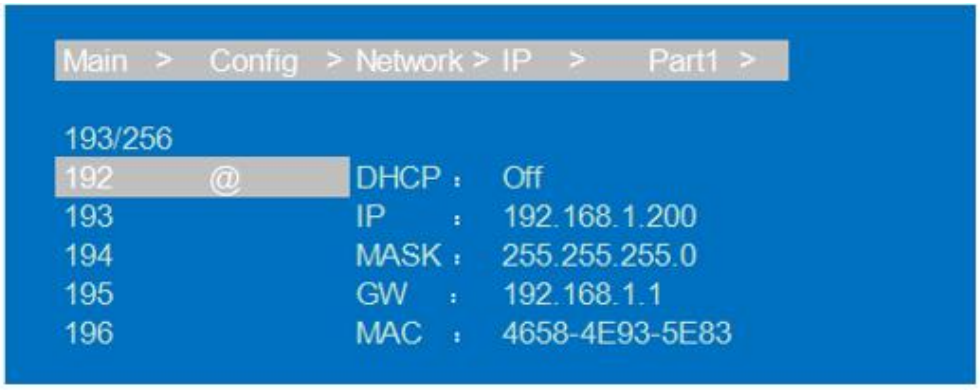
⑤Such as change IP address: After select IP, enter and select Part 1~4, then Set IP address parameters for each part; Press “Enter” again, LCD will show the current network parameters. (Do the same for other parameters).











Network parameter display interface(picture-28)

7.5.1 RS232 Parameter Settings

It can change device's baud rate, but Data/Stop/Parity are used for checking and cannot be set

1) Baud: device's baud rate provide 6 choices, 115200, 57600, 38400, 19200, 9600, 4800. The device is 115200 by default.

2) Data/Stop/Parity: is used only for view and cannot be changed, unless you use the highest account.

3) The underscore show that this parameter cannot be set.

Operation instructions:

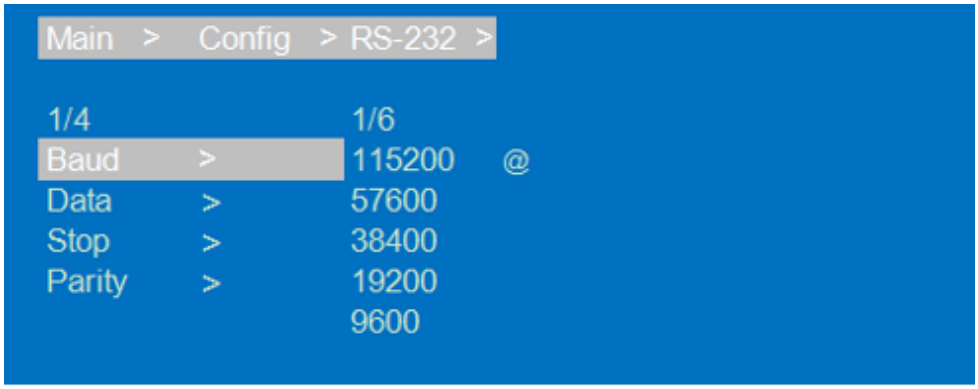
①Select "Config", Press "ENTER"

②Press "UP" "DOWN" button to select "RS-232", Press "ENTER"

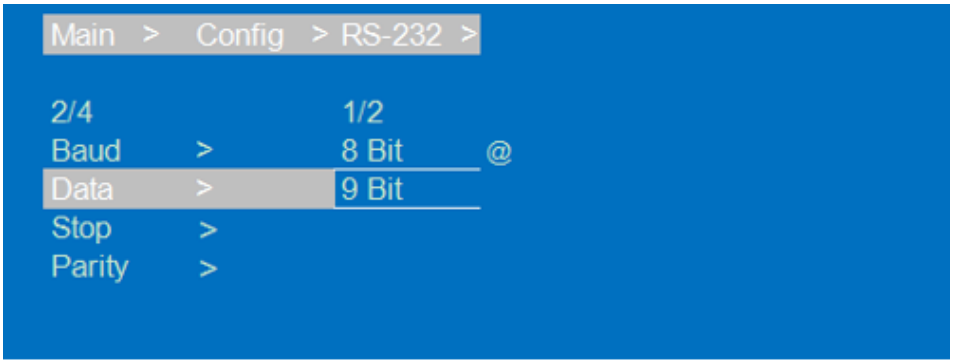
③Press "UP" "DOWN" button to select "Baud", Press "ENTER"

④Press "UP" "DOWN" button to select Baud rate you need, Press "ENTER, Baud rate set done.

RS232 control interface(picture-29)



Baud rate set interface(picture-30)



Data display interface(picture-31)

7.5.2 LCD Screen Settings

You can set LCD screen's bright and Screen rest time; Bright is 8 by default, Screen rest time is 30S by default.

Operation instructions:

①Select “Config”, Press “ENTER”

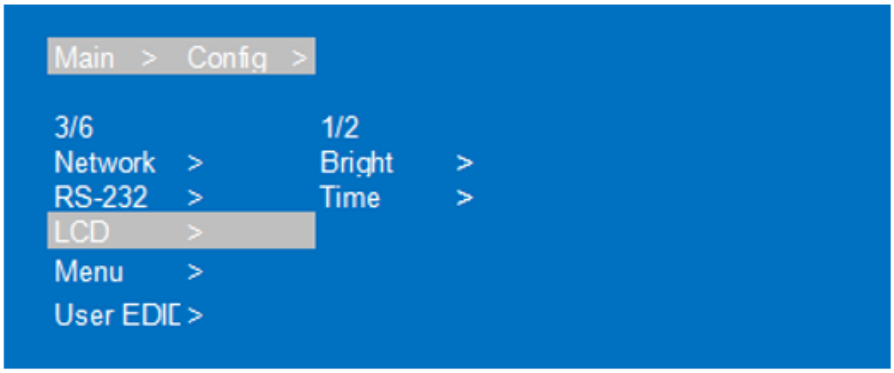
②Press “UP” “DOWN” button to select “LCD”, Press “ENTER”

③Press “UP” “DOWN” button to select “Bright”, Press “ENTER”

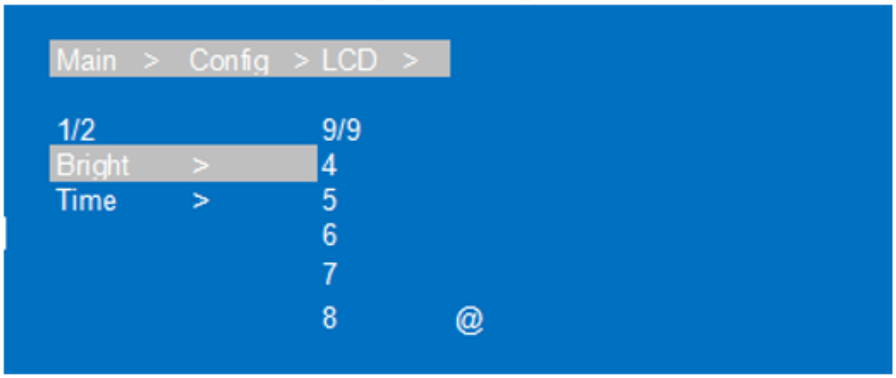
④Press “UP” “DOWN” button to select LCD brightness level, The higher the brightness level, the greater the brightness, otherwise the lower the brightness.

⑤Press “MENU”, then press “UP” “DOWN” button to select “Time”, Press “ENTER”

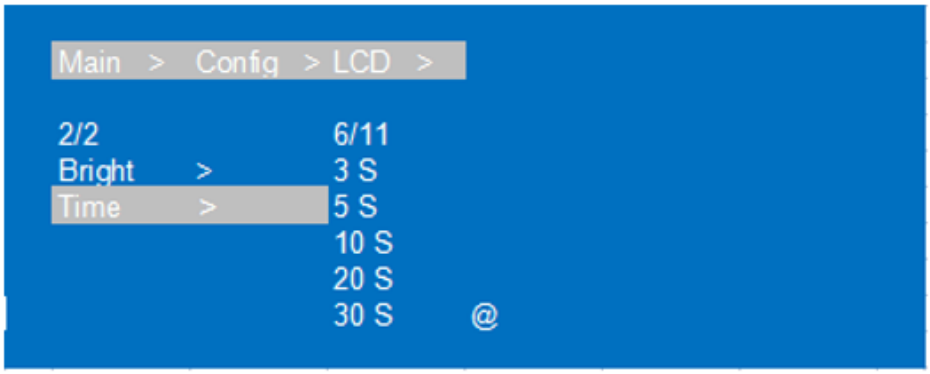
⑥Press “UP” “DOWN” button to select screen rest time.



LCD settings interface(picture-32)



LCD brightness settings interface(picture-33)



Screen rest time settings interface(picture-34)

7.5.3 Menu Settings

You can set menu time, Select-run, LV-Read.

1) Time: No next operation within 30s and return to the channel interface.

2) Select-run: The default is Disable, Press the button to switch parameters to complete the setting. No need press “Enter”.

3) LV-Read: The default level is 1. It's not possible to switch level directly, unless you get client access and then switch by command. (Note that a low level can't set a high level)

Operation instructions:

①Select “Config”, Pres “ENTER”

②Press “UP” “DOWN” button to select “Menu”, Press “ENTER”

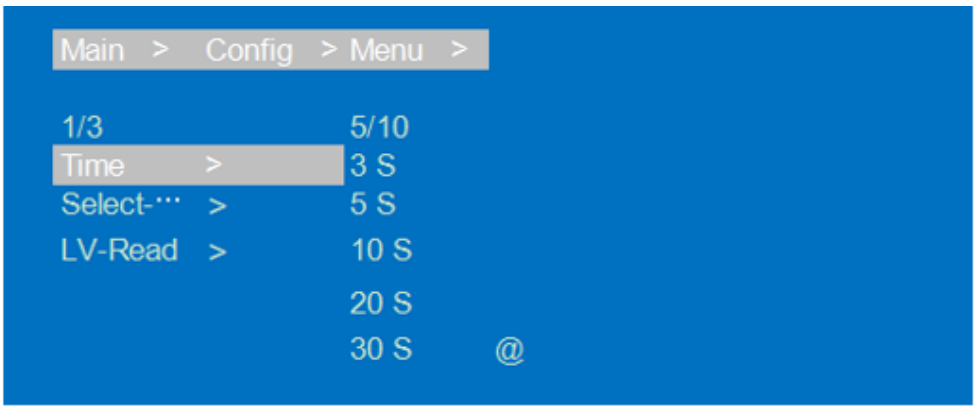
③Press “UP” “DOWN” button to select “Time”, Press “ENTER”

④Press “UP” “DOWN” button to select the time you need.

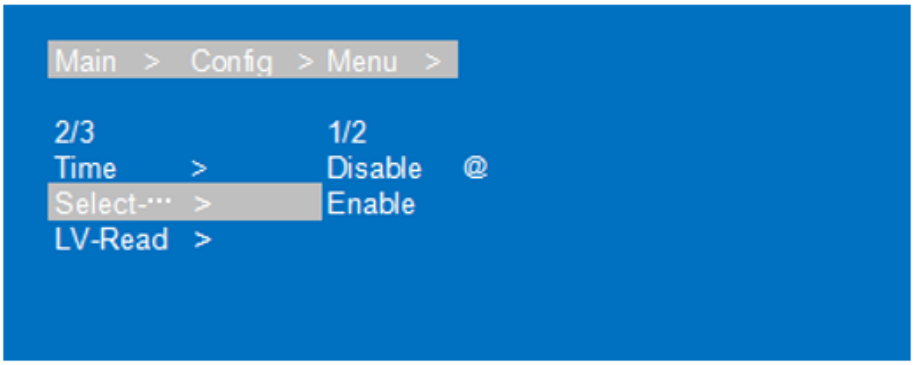
⑤Press “MENU”, Press “UP” ”DOWN” button to select “Select-run”, Press “ENTER”

⑥Press “UP” “DOWN” button to select “Disable/Enable”, settings done

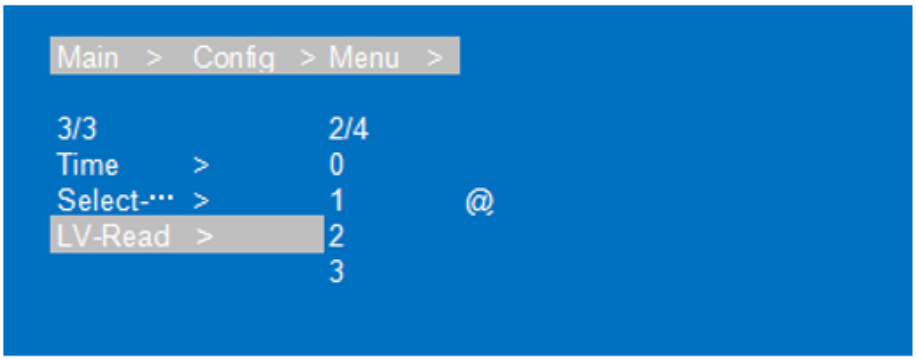
Menu settings interface(picture-35)



Exit menu Time settings interface(picture-36)



Select-run settings interface(picture-37)



LV-Read settings interface(picture-38)

7.5.4 User EDID Settings

You can save default EDID, output EDID and temporary EDID to the User EDID.

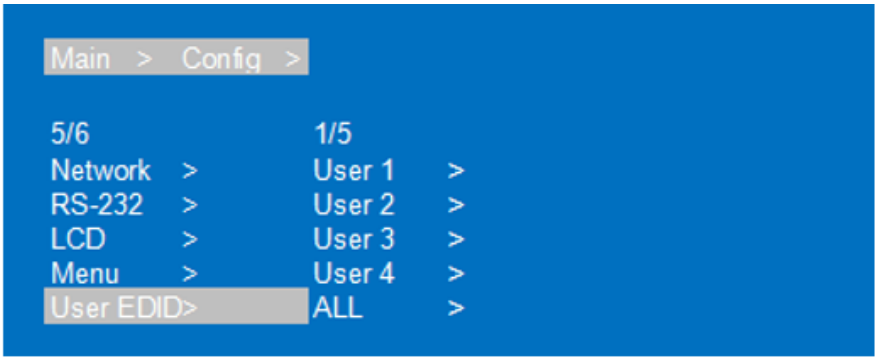
Operation instructions:

①Select “Config”, Press “ENTER”

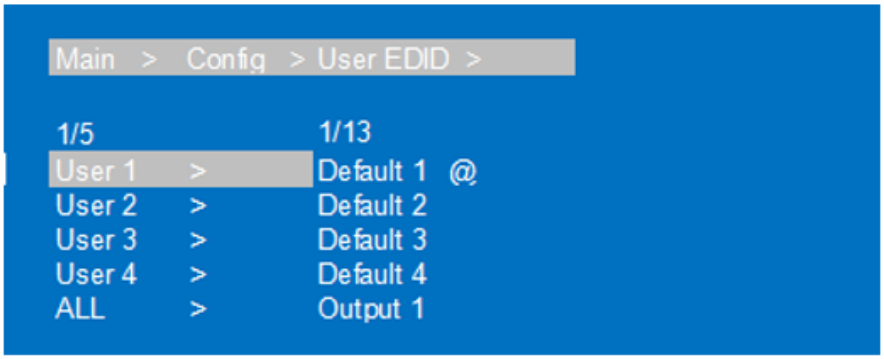
②Press “UP” “DOWN” button to select “User EDID”, Press “ENTER”

③Press “UP” “DOWN” button to select “User1~4 or ALL”, Press “ENTER”

④Press “UP” “DOWN” button to select default EDID, output EDID or temporary EDID to save User EDID, while you can check EDID information.



User EDID settings interface(picture-39)



User EDID choose interface(picture-40)

EDID information display interface(picture-41)

7.5.5 System Settings

You can set device's Reboot, Timing switch, Factory data reset.

1) Reboot: Restart device

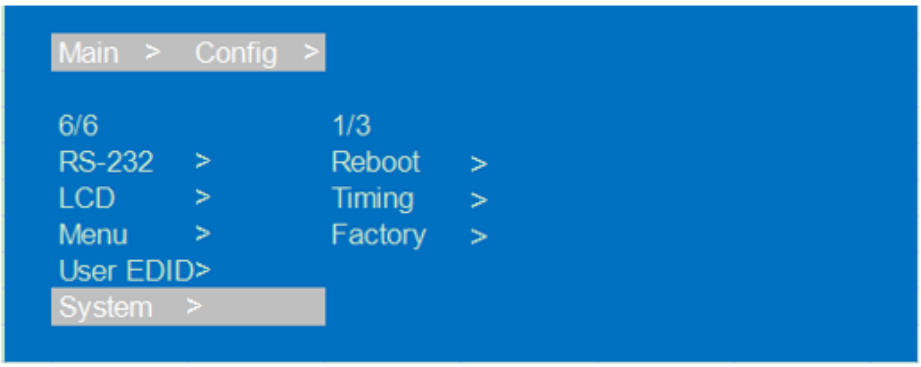
Operation instructions:

①Select “Config”, Press “ENTER”

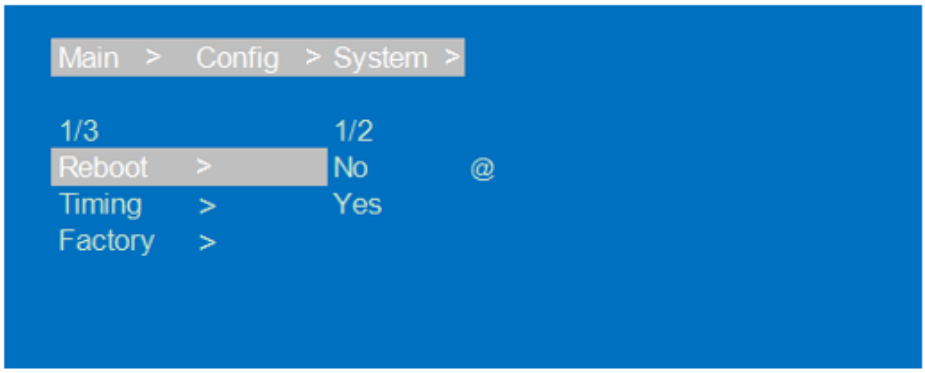
②Press “UP” “DOWN” button to select “System”, Press “ENTER”

③Press “UP” “DOWN” button to select “Reboot” + Press “ENTER”

④Press “UP” “DOWN” button to select “Yes” + Press “ENTER”, device reboot has finished.



System settings interface(picture-42)



Device reboot interface(picture-43)

2) Timing switch settings: The default is Endless, no timing Settings; The timing units are S/M/H/D, Second/minute/hour/day

Operation instructions:

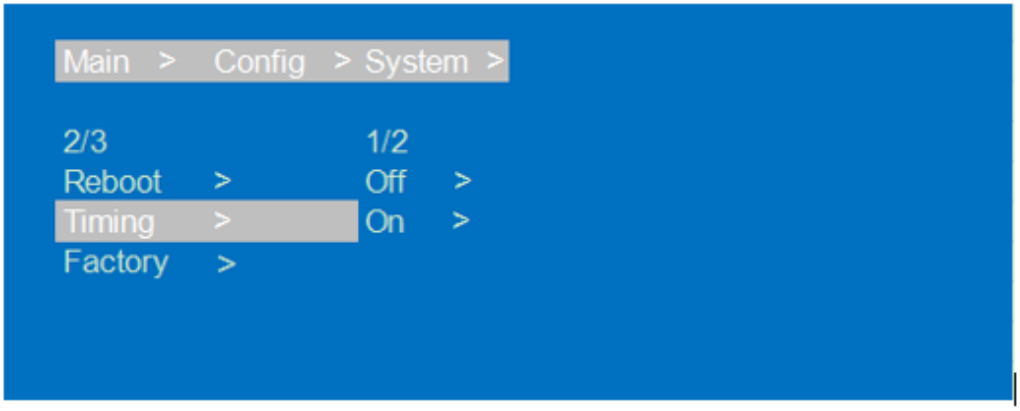
①Select “Config”, Press “ENTER”

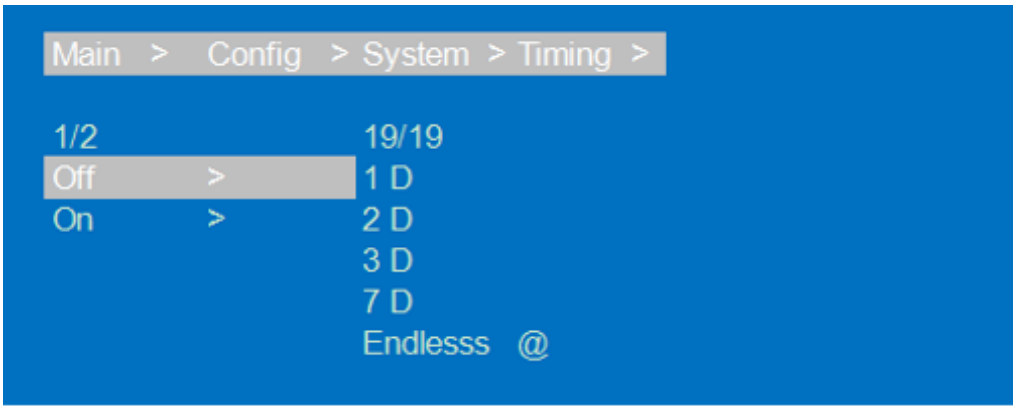
②Press “UP” “DOWN” button to select “System”, Press “ENTER

③Press “UP” “DOWN” button to select “Timing” + Press “ENTER

④Press “UP” “DOWN” button to select “Off/On”, Press “ENTER

⑤Press “UP” “DOWN” button to select time you need





3) Factory data reset: Device function initialization Settings,

General will restore video/audio/EDID/baud to default.

User will restore all settings to default except account.

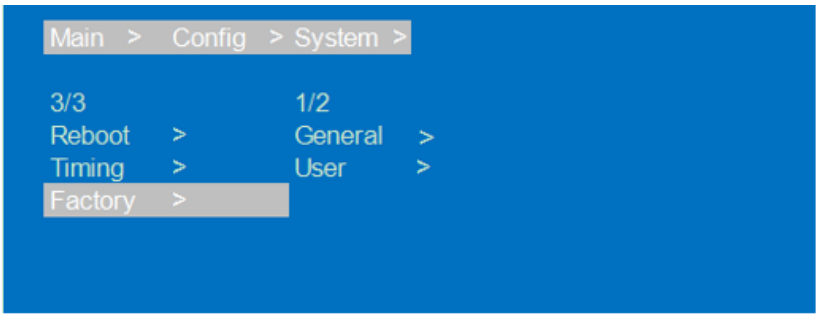
Operation instructions:

①Select “Config”, Press “ENTER”

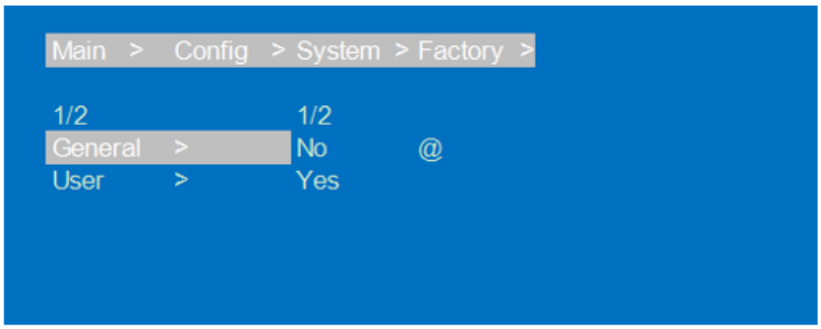
②Press “UP” “DOWN” button to select “System”, Press “ENTER”

③Press “UP” “DOWN” button to select “General” + Press “ENTER”

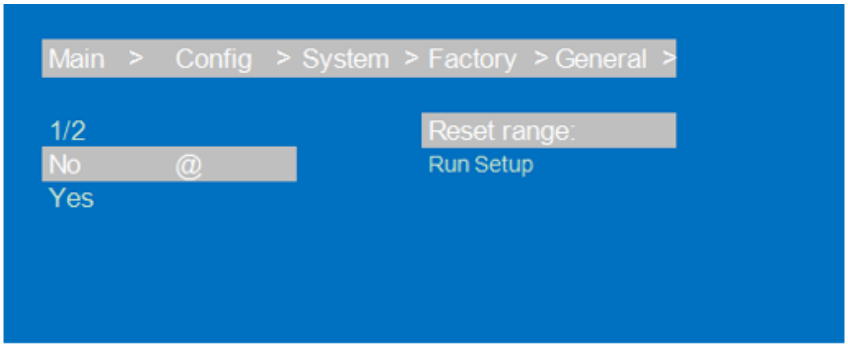
④Press “UP” “DOWN” button to select “Yes”, Device factory data reset done.



Factory data reset interface(picture-46)



General factory data reset interface(picture-46)



Factory data reset range interface(picture-47)

7.6 Device Information Query

Device information: input information, output information, system information

1) input information: Input connection status, Input resolution, Color gamut color depth, audio format and input HDCP version.

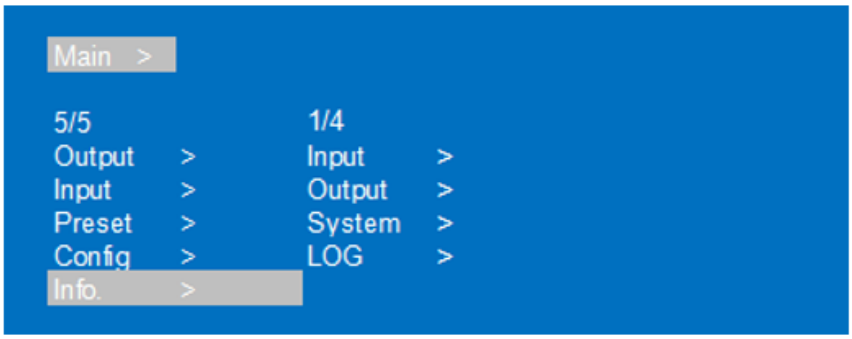
2) output information: output connection status, output resolution, Color gamut color depth, audio format

Operation instructions:

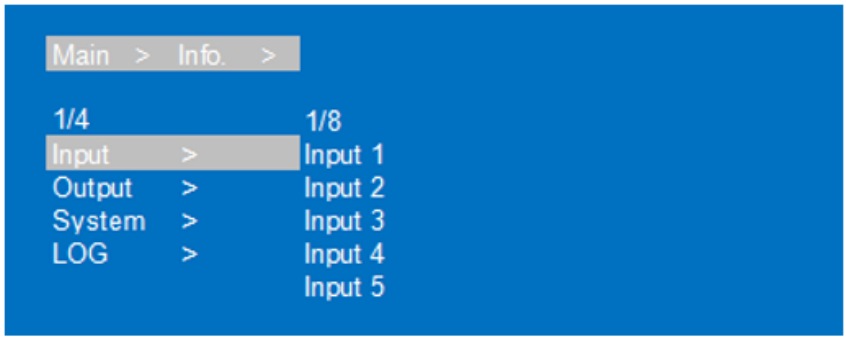
①Select “INFO”, Press “ENTER”

②Press “UP” “DOWN” button to select “Input/Output”, Press “ENTER”

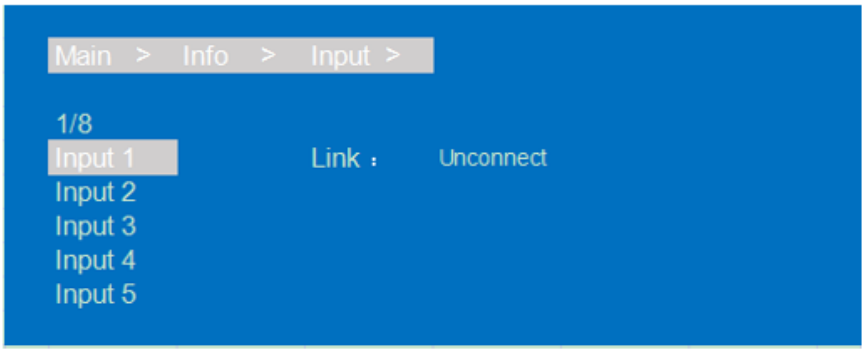
③Press “UP” “DOWN” button to select input/output port, then see input/output information.



Device information interface(picture-48)



Input port choose interface(picture-49)



Input information display interface(picture-50)

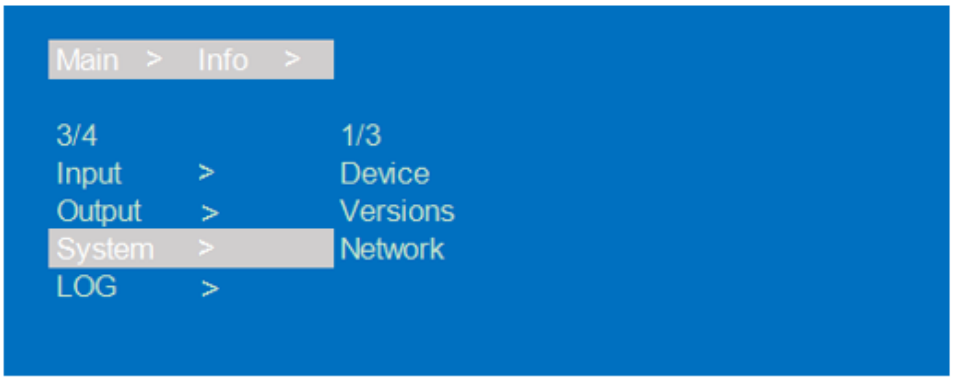
3) System interface: is used for checking device system information (Manufacturer/Device ID/device type), Version (MCU/web page) and Network parameter (IP/GW, Mask)

Operation instruction:

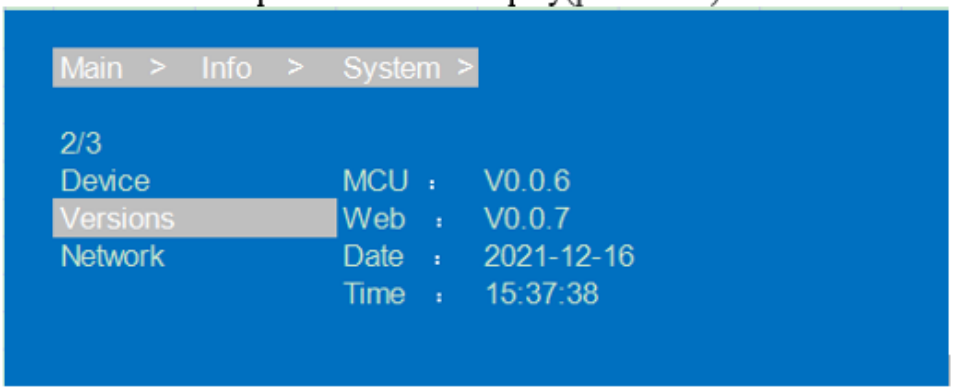
①Select “INFO”, Press “ENTER”

②Press “UP” “DOWN” button to select “Device”, Press “ENTER”

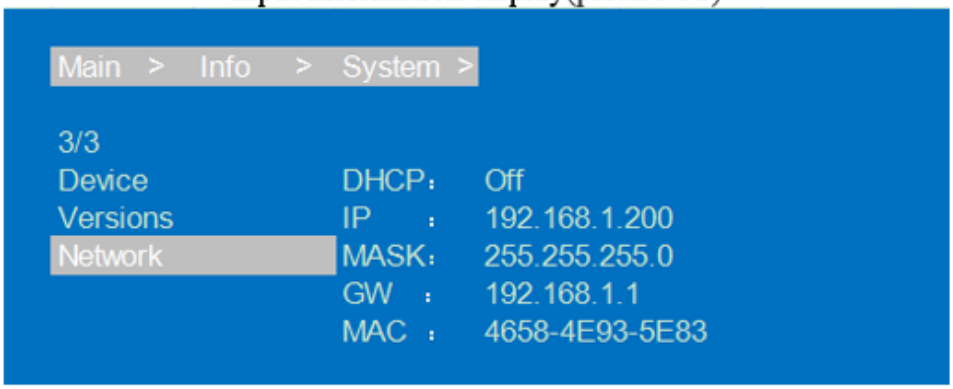
③Press “UP” “DOWN” button to select “Device/Versions/Network”, then you can check information.



Input information display(picture-51)



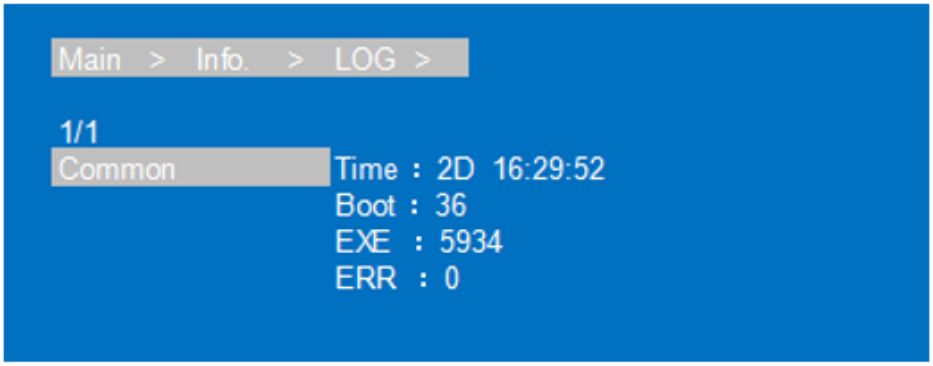
Input information display(picture-52)



Input information display(picture-53)

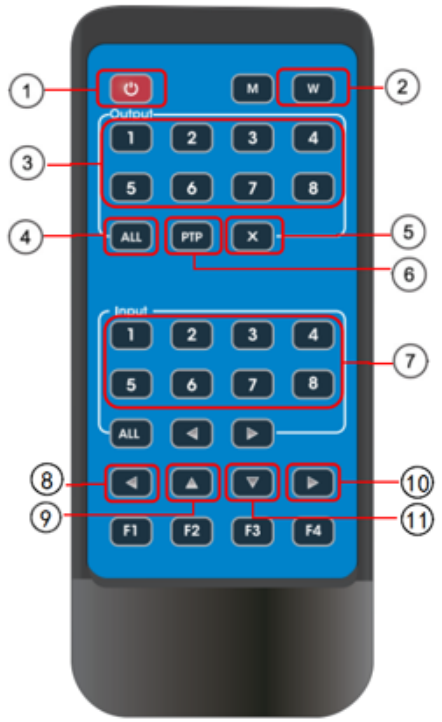
4) LOG: it used for checking device information: running time, startup times, operation times, runs errors times.

Input information display(picture-54)



Input information display(picture-55)

7.7 Remote Control Description



①Standby mode

②Lock or Unlock panel button

③Choose output from 1~8

④Choose all the outputs

⑤X:Turn on/off output port which you select

⑥PTP button:Mirror all inputs and outputs (Ex. Input 1 to output 1, input 2 to output 2, etc)

⑦Choose Input from 1~8

⑧Menu (back to previous option) button

⑨UP button

⑩Enter button

⑪DOWN button

8. Audio Introductions

8.1 HDMI Audio

HDMI audio support PCM2.0-7.1/32-192KHZ/16-24bit, Dolby/DTS/Dolby Atmos/DTS-HD, and maximum 7.1 channels, but the supported audio format, channel, and sampling rate depend on the EDID.

8.2 Audio Extraction

Analog audio only support PCM2.0, 32-192KHZ, 16-24BIT; S/PDIF audio output support PCM/Dolby/DTS, 32-96KHZ, 16-24bit, maximum 5.1 channels

8.2.1 Analog Audio Extraction

①When the 8×8 matrix is selected for one-to-one output, the analog audio output can only output the audio of the port.

②When the HDMI output port is muted, coaxial and analog audio output will not be affected

③Analog audio only support PCM2.0, otherwise Auto-Mute

④Analog audio left and right channels cannot be reversed output

⑤Analog audio will Auto-Mute when digital audio input.

8.2.2 SPDIF Audio Extraction

①When the 8×8 matrix is selected for one-to-one output, the coaxial audio output can only output the audio of the port.

②When the HDMI output port is muted, coaxial and analog audio output will not be affected.

8.3 Audio Embedding

8 × analog audio support embedded, LINE IN1~8 correspond HDMI IN1~8Analog audio only support PCM2.0 format audio. After the audio embedding function is turned on, embedded audio can be output through HDMI/analog/SPDIF ports.

8.4 ARC Audio

Supports output 1~8 audio transmission back to SPDIF 1~8 and PCM/DTS/DOBLY 5.1 audio format

Operation instruction:

1. HDMI source and TV both need support CEC, TV also need support ARC. You need to turn on the TV and HDMI source CEC and ARC functions.
2. HDMI source connects to TV
3. TV's HDMI ARC port connects to output 1~8
4. Use a coaxial cable to connect the power amplifier to SPDIF port (correspond HDMI ARC output)
5. Turn on device's ARC function by panel button/command/WEB, done.

9. EDID Management

The device includes 4 EDID modes: Default EDID, User EDID, Output EDID, Temp1, control EDID by WEB and RS232. Factory Default: Default1 4K60 444 2CH

The instructions are follows:

1. Send instruction: #edid_d in%8,d source=%d switch EDID, “in%8,d” parameter need to input 255 or 0~7 (255 means all input), source=%d=0~24(Correspond the table below)

EDID MODE	EDID Index	EDID
Default EDID	0	4096x2160@60-444 HLG 2CH(default)
	1	4096x2160@60-420 HLG 2CH
	2	4096x2160@30-444 HLG 2CH
	3	1920x1080P@120-444 HLG 2CH
User EDID	4-7	User EDID is set by user, with power-off memory function, new EDID will auto-cover old EDID.
Output EDID	8-15	Copy output 1-8 ports' EDID with storage function. without power-off memory
Temp1	24	Temporary EDID

Note The above EDID supports 4K Downscaler 1080P

10. RS232 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. In the parameter configuration area, select the serial port number that the serial line connects to the PC.

Baud rate: 115200 (default)

Data location: 8

Stop bit: 1

Check bit: no

Enter Port Command in Send options.

Instructions:

All commands start from “#”, command head “%c”: “d” parameters.

The “_” in the commands cannot omit. Parameter: %d: 0 means ALL.

Command head & Parameter1 &Parameter2... need to add one “SPACE”.

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

Type	format	data	Rule
instructions	#video_%c	d:data	
Target 1	in%8,d	0~7:assign port 255:all port	parameter 2 attributes are available
Target 2	out%8,d	0~7:assign port 255:all port	All parameter attributes are available
Parameter 1	source=%d	0~7: input channel	
Parameter 2	onoff=%d	0:image output turn off 1:image output turn on	

Please refer to the " Command list" for details

Example: ALL output turn off.

Operation format: #video_d out255 onoff=0

11. Web Control

11.1 Address Information

Static IP Add:	192.168.1.168
Sub-Mask:	255.255.255.0
Gateway:	192.168.1.1
Dynamic IP	OFF
TCP/UDP Port	TCP 5000; UDP 5001

11.2 Change the IP Address of your PC

1). Connect the HDMI Matrix and PC to the LAN.

2). Configure your PC as follows:

① Click **Start > Control Panel > Network and Sharing Center.**

② Click **Change Adapter Settings**.

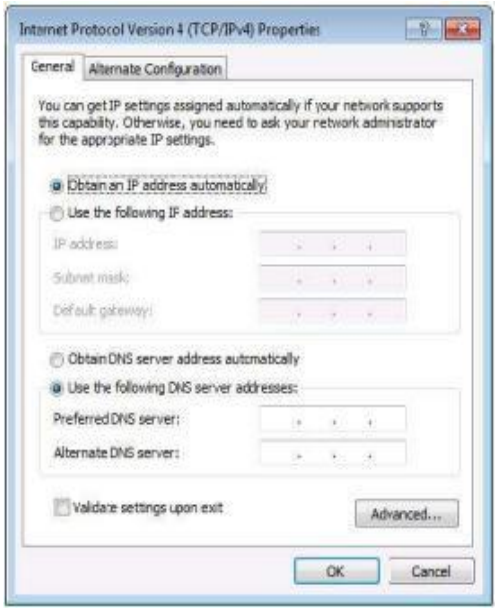
③ Highlight the network adapter you want to use to connect to the device and click **Change settings of this connection**.

3). Connect to the device and click change settings of this connection:

4). Highlight **Internet Protocol Version 4 (TCP/IPv4)** by clicking on the item.

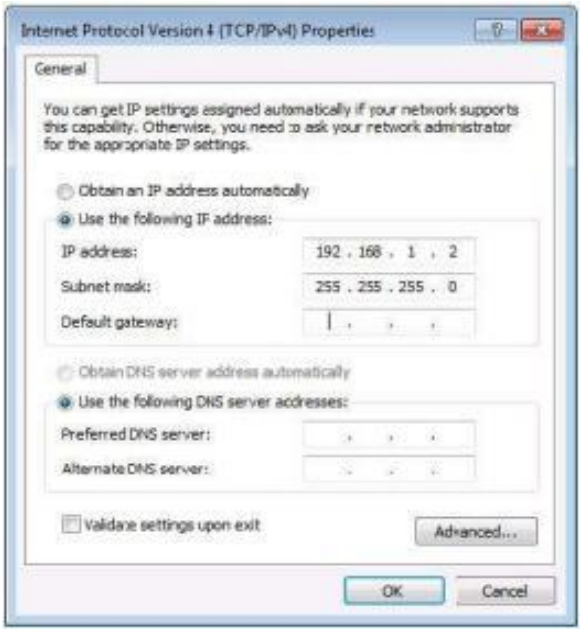
5). Click **Properties**.

Change IP address interface (picture-57)



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 192.168.1.2 to 192.168.1.254 (excluding 192.168.1.168).



Change IP address interface (picture-58)

7). Click **OK**.

8). Click **Close**.

Enter Web and Control

Enter the default IP address of the matrix: 192.168.1.168

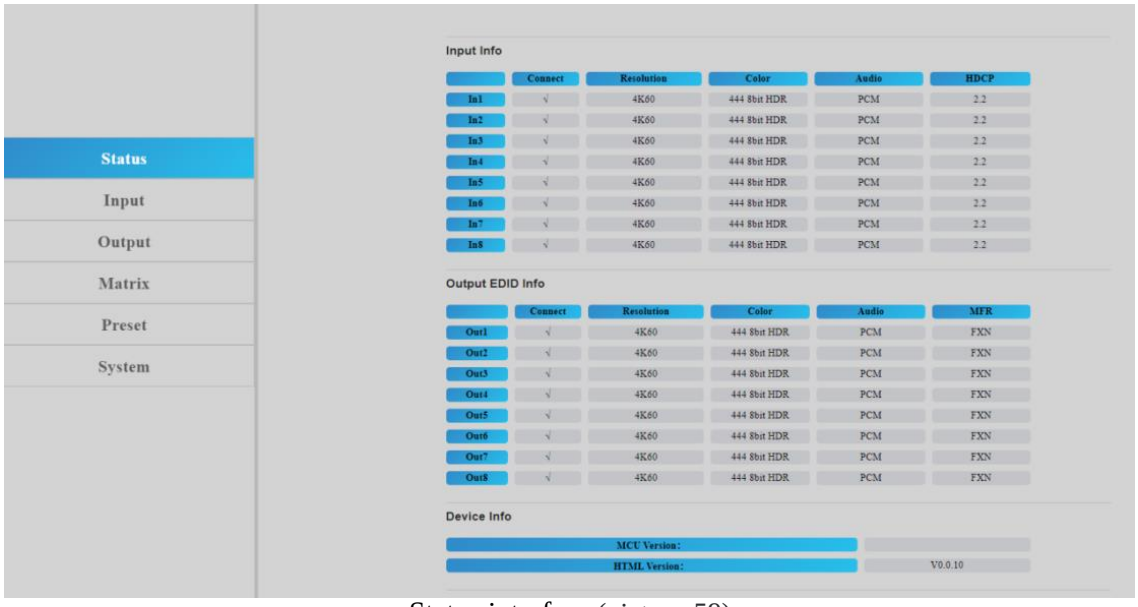
Account: admin

Password: 123456

12. Status Interface

Status interface include 3 parts: input information, output information and device version information

1. Input info: Displays the status and information of the current device input port, Includes the connection status, input resolution, gamut color depth, HDCP version information and input audio format of each input port.
2. Output EDID info: Displays the status and information about the output port, Includes the connection status, output resolution and color gamut, output audio format, EDID manufacturer of each output port.
3. Device info: Displays the current name of the device, MCU and HTML of version number (Same as on the screen)
4. “√” shows that open or connect normally, “×” shows that close or not connected.



Status interface (picture-59)

12.1 Input Interface

Interface introduction: This page is mainly used for renaming input ports, switching video signals (opened by default), switching audio input, selecting EDID, and switching audio source signals.

1. Rename: Modify the current name of input port, support 1~15 characters (numbers, letters and underscores) which is synchronized with the screen.
2. Video: Switch input video, Once the input video is off, the audio extraction output is muted.
3. Audio: Switch audio of audio source (include HDMI and embedded audio), The default is on.
4. Audio Source: Switch audio source, HDMI: select input source audio, ENC: select embedded audio input.
5. Switch EDID: Set default, copy, user EDID, and show EDID information (HDR, audio channel, resolution, color gamut)
6. User EDID: Save default/copy EDID to User EDID, and upgrade the BIN file to the User EDID.
7. All: select all input ports to realize fast switch.

Input interface (picture-60)

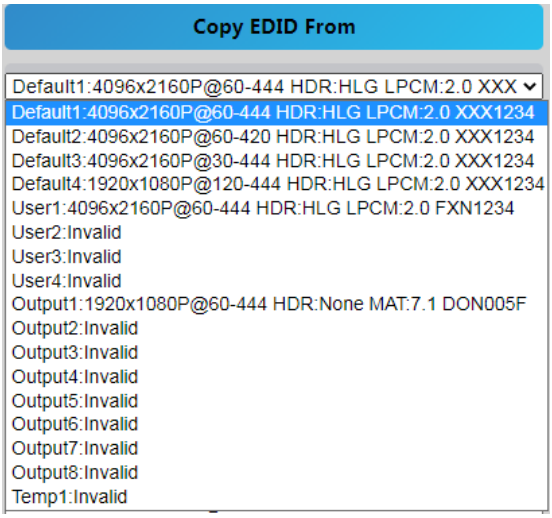
Operation instructions:

1. Rename: Double click the left mouse button to enter the name editing to customize the name, name modify done.

2. Video/Audio: Click the two-way button to complete the switch setting of input video and audio; Green means on and gray means off.

3. Audio source: Use the mouse to click the white combo box to switch the corresponding input audio source.

4. Copy EDID from: Use the mouse to click the white combo box to complete the corresponding EDID switch. The combo box will show the current EDID information.



Copy EDID from (picture-61)

5. User EDID selection:

①: Click the white combobox, select EDID, then select user1 ~ 4 in the combo box, and finally click apply, User EDID settings done.

②: Click browse and select the path where the bin file is located, then select user1 ~ 4 in the combo box and finally click Upload. The EDID can be imported into user EDID.

12.2 Output Interface

Interface introduction: The page used for port renaming, switching output video (on by default), switching audio output (HDMI/Analog/SPDIF), ARC function (off by default).

1. Rename: Modify the current name of output port, support 1~15 characters (numbers, letters and underscores) which is synchronized with the screen.
2. Video: Switch output video, close the output port video does not affect the audio extraction function, the 5V output needs to be turned off at the same time.
3. Audio-HDMI: Switch HDMI output audio, on by default.
4. Audio-Analog: Switch Analog audio extraction output, on by default.
5. Audio-SPDIF: Switch SPDIF audio extraction output, on by default.
6. ARC: Switch ARC audio return output, off by default.
7. CEC: TV with CEC function, support start up; shutdown cannot be supported.

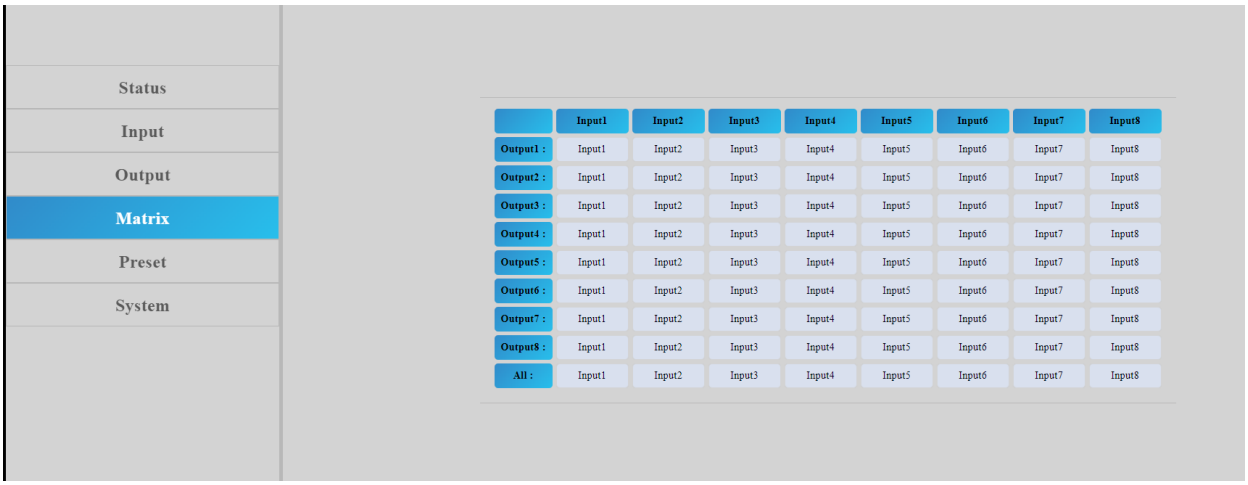
Output interface(picture-62)

Operation instructions:

1. Double click the left mouse button to enter the name editing to customize the name, the output port name modifies done.
2. Click the two-way button to complete the switch setting of output video, audio and ARC function; Green means on and gray means off.

12.3 Matrix Interface

Interface introduction: The page is used for displaying the input source corresponding to the current output port, Switching the input to a output port and output the image; Vertical axis means output port selection, abscissa axis means input port selection, All means select all outputs.



Matrix interface (picture-63)

Operation instructions: Click the input box to switch the corresponding output port, The above picture show the PIP one to one output.

12.4 Preset Interface

Interface introduction: The page is used for renaming, saving, calling and clearing of preset scene.

1. The device can preset 8 scenes and support scene renaming.

2. Clear means clears the current saved scene.

3. Save means save the current changed scene, the video, audio and system settings can be saved, but network parameter cannot be saved.

4. Call means call the changed scene.

Preset interface (picture-64)

Operation instructions:

1. Double click the left mouse button Preset1 , Click enter to the name edit box, custom name done.

2. Click Clear, scene clear done

3. Click Save, save the current scene

4. Click Call, call the saved scene

12.5 System Interface

Interface introduction: The page can modify and show network parameters and control protocol parameters, modify web login account and password, reboot device, general restore factory, user restore factory.

1. Mac address can only be displayed and cannot be modified.

2. IP address is 192.168.1.168 by default，it can be modified.

①After DHCP is opened, dynamic IP is used, in this case, the IP address cannot be modified and can assign by router.

②After DHCP is off, static IP is used, in this case, the IP address can be modified. After the modification, click Apply.

3. MASK and GW address can be modified, but the prerequisites are same as the IP address.

4. DHCP use two-way button as switch, click directly to open DHCP. Green button means open DHCP, Gray means close DHCP.

5. Account management: Enter your account and password in the white box, Click Apply, It takes effect on next login, support 1~15 characters (numbers, letters and underscores

6. Click Reboot/Factory General/Factory User, click enter according to the prompt, Device Reboot/restore factory done.

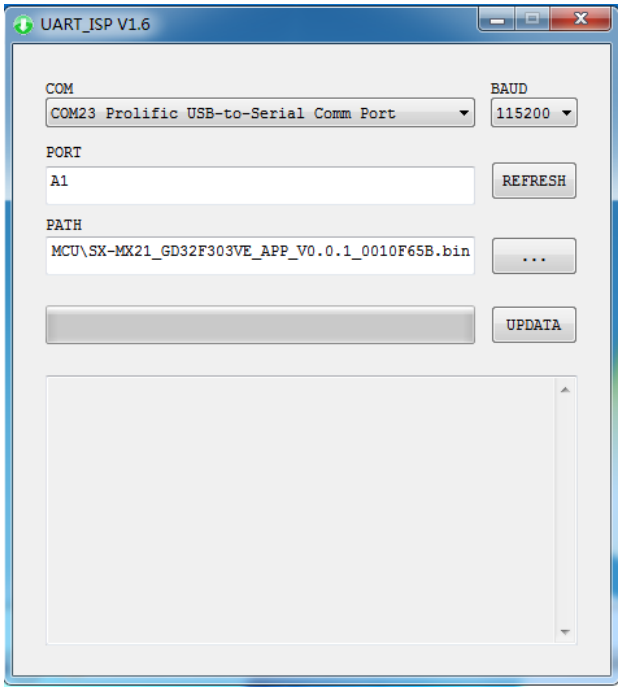
System interface (picture-65)

13. Firmware Upgrade

Operation instructions：

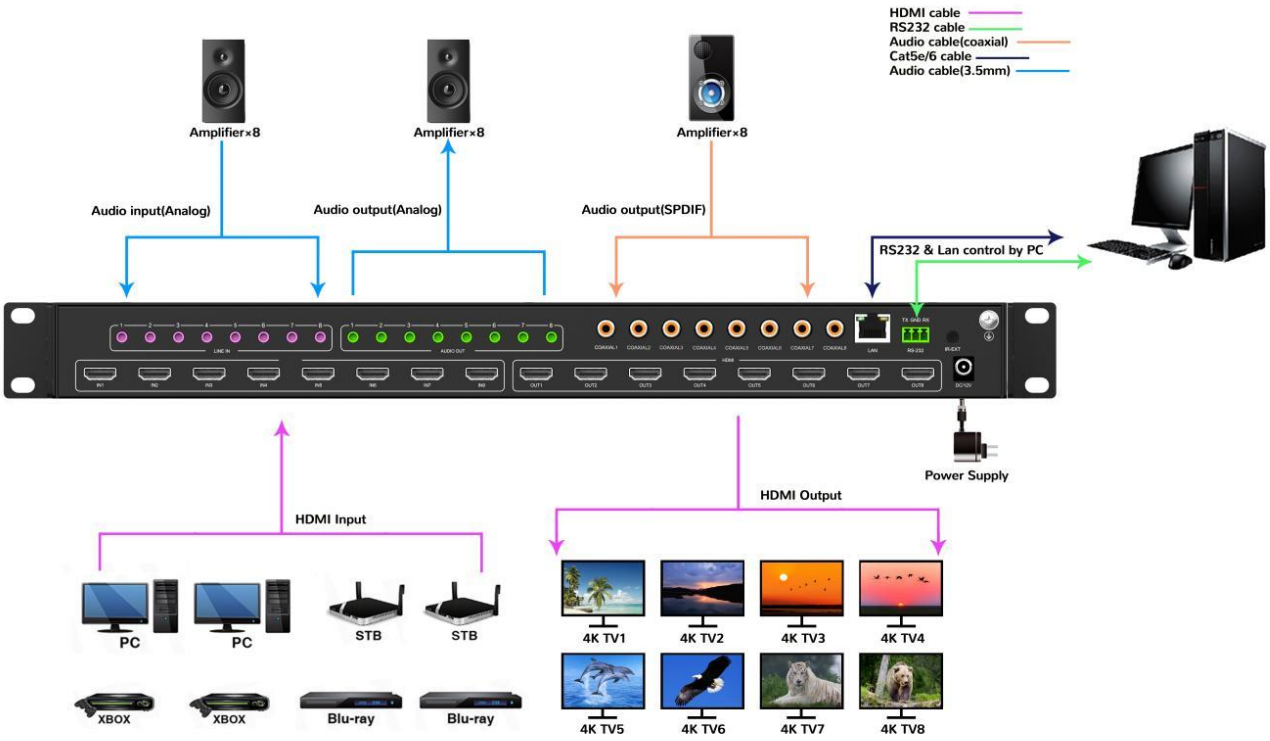
1. Connect PC and Device with RS232, open software UART_ISP_V1.6.exe on PC
2. Click “Refresh” refresh the serial port number and select the correct serial port number
3. Baud data is 115200 by default.
4. Input “A1” on the port, Select the path where the program resides to upgrade the MCU.
5. Input “F0” on the port, Select the path where the program resides to upgrade the web page.

Click “Update”, the system starts to update until “Succeed” is displayed in the information bar, update done



Upgrade interface (picture-66)

14. Connection Diagram



15. Warranty

If your product does not work properly because of a defect in materials of workmanship, our company (referred to as “the warrantor”) will, for the length of the period indicated as below, “Parts and Labor (1) Year”, 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.

16. 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.

17. 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 CONSEQUENTAIL 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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