



J-TECH DIGITAL[®]

USER MANUAL



HDMI 4K@60HZ 4:4:4 4x4 HDBaseT Matrix Extender

JTD-3000 | Model: JTECH-MXT40B



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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.

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1. Features

- Incorporates HDBaseT technology
- 4 x HDMI input and 4 x HDBaseT output with 4 x HDMI Loop out
- HDMI 2.0 version support 4K@60Hz YUV4:4:4, 8bit, 18G, HDR10
- Transmit up to 70m/230ft. under 1080p, 40m/131ft. under 4K@60Hz
- HDCP 2.2/1.4 compliant
- With wide-band Bi-Direction IR routed control(38~56KHz)
- Supports 4x Analog Audio input
- Supports 4x Analog Audio and 4x SPDIF Audio extraction output
- Supports Panel Button with LCD, IR Routing, RS232, TCP/IP, PC Tool Control
- Supports POC (Receiver powered by HDBaseT Matrix)
- Supports Micro USB for FW updating

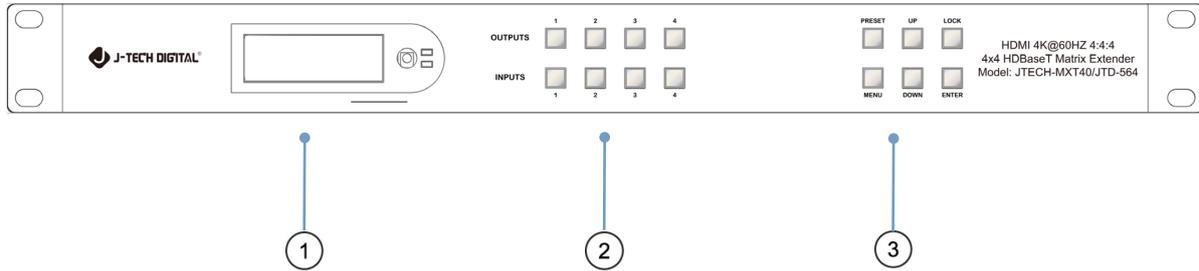
2. Package Contents

- 1). (1) x Main Unit (HDBaseT Matrix)
- 2). (1) x DC24V4A Power adapter
- 3). (1) x Remote control
- 4). (5) x IR Transmitter cables, 5x Wide-Band IR Receiver cables
- 5). (1) x CD for control software & user manual & Command list
- 6). (4) x 3Pin plug for Analog audio output
- 7). 1U rack design metal case with 2 mounting ears

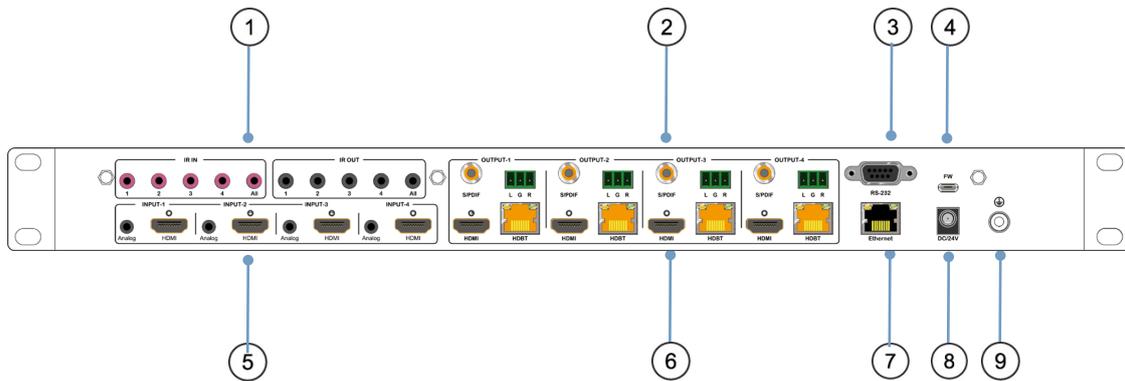
3. Specifications

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 8bit 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/230ft. 4K 40m/131ft.
Power Consumption	68 watts (Max.)
Dimensions	L438 x W394 x H44 mm
Mass (Main Unit)	3kg/6.6lbs

4. Panel Descriptions

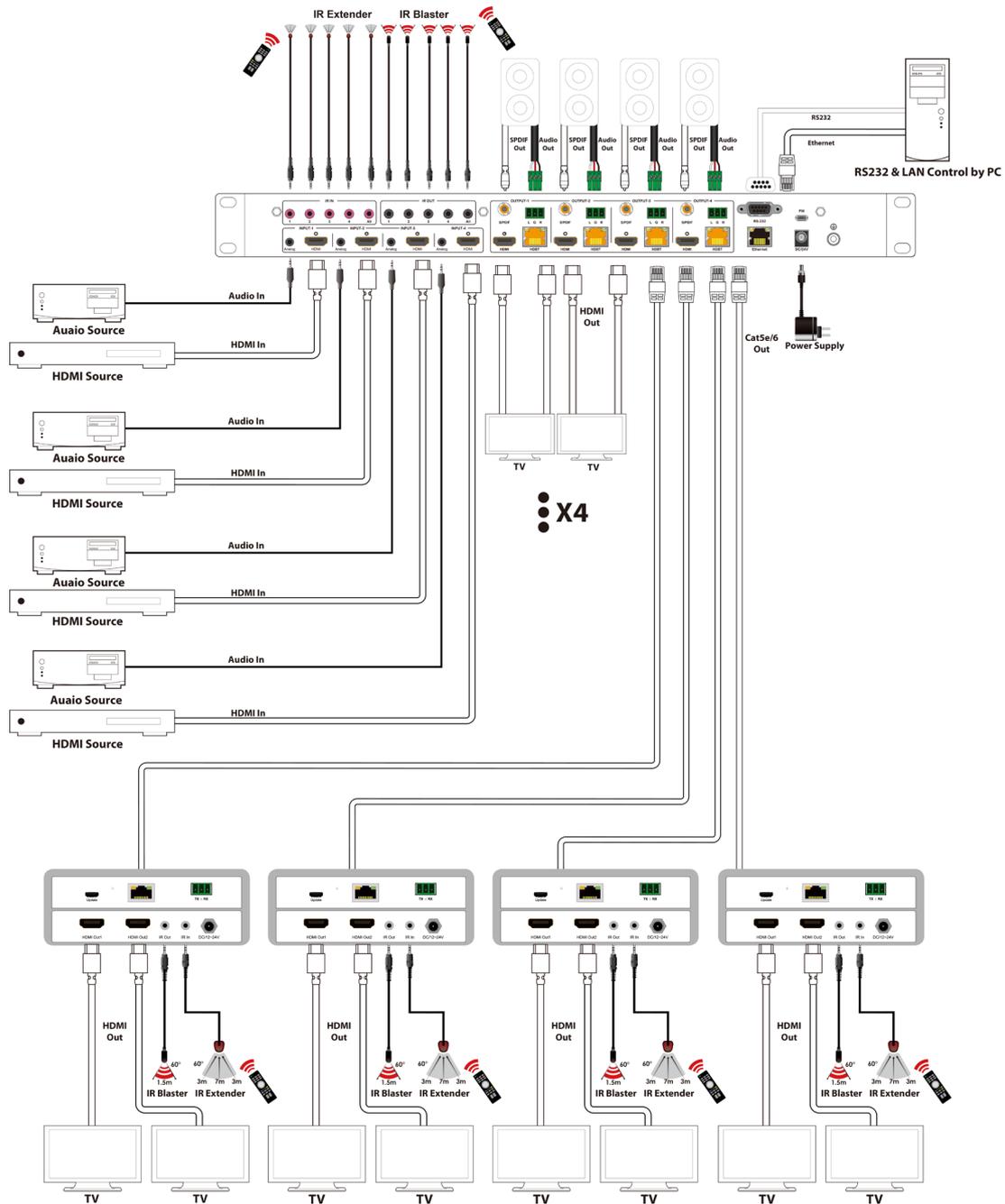


- ① LCD: Shows Matrix information
- ② Output button OUT1~8 & Input button IN1~8
- ③ Function button: MUTE; MENU; UP; DOWN; LOCK; ENTER



- ① IR input port x4 & All in & IR output port x4 & All out
- ② Audio out (Analog x4; SPDIF x4)
- ③ RS232 port
- ④ FW update port
- ⑤ HDMI Input x4 AUDIO IN (Analog x4)
- ⑥ HDBaseT out x4 & HDMI Loop out x4
- ⑦ Ethernet port
- ⑧ Power On/Off
- ⑨ Grounding

5. Wiring Diagram





6. Input / output channel key operation

Channel	Button method
Input 1-4	1. 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) 2. Long press means all outputs select current input
Output 1-4	Directly press the number key, such as the output channel 2, press button "2" and press it again to cancel the selection; Long press output 4 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
PRESET	Preset, short press to quickly enter the preset call function
LOCK	Long press to LOCK, Long press again to UNLOCK

7. Video switching operation

7.1. Video switch

The signal switch includes 4 free switching channels, which can be configured as input/output according to the requirements, forming a matrix of 1 x 4 ~ 4 x 1, which can switch any input. Signal to 1 channel output or all channel output.

The specific operation as follows:

Output	1	2	3	4
Input	1	2	3	4

Switch the input to the output

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

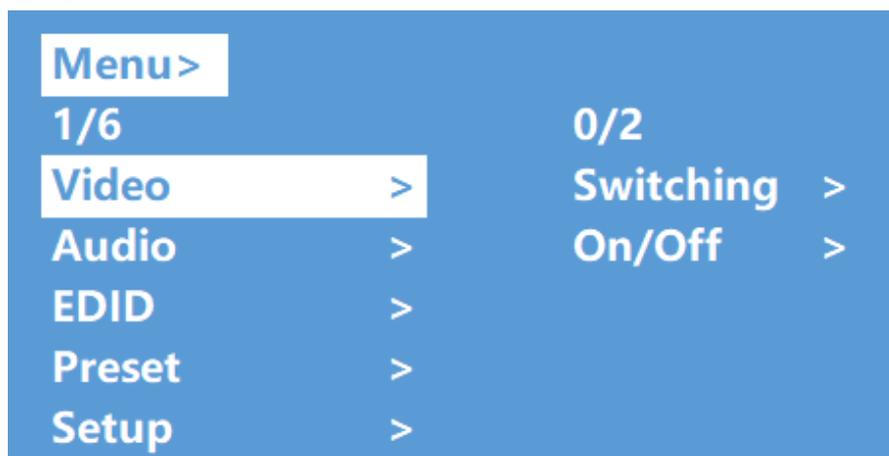
For Example: Output port 2 switch to input 1

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

7.2. Video Control

The video interface has two sub menus:

1. Video Routing
2. Video On/Off



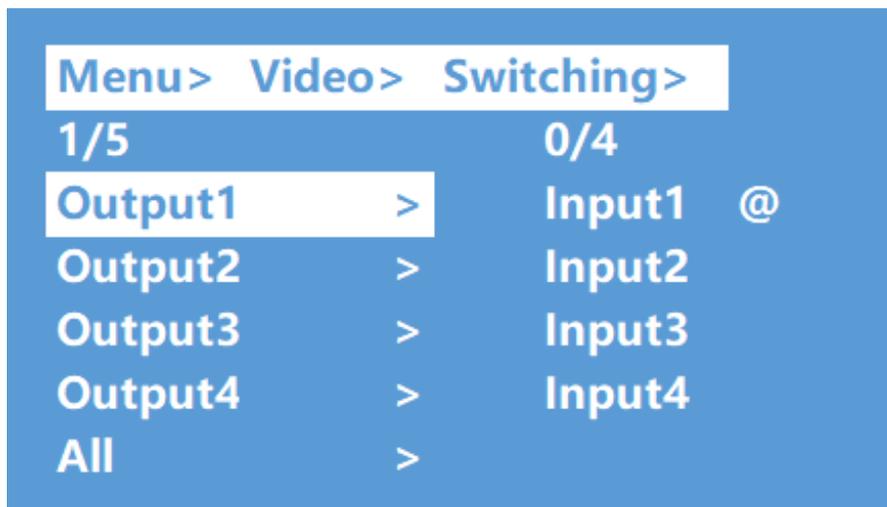
The specific operation as follows:

1. Video Switch

Switch any output to one input or all outputs to the same input, default PTP.

- ① Select "Video" in the menu and press "ENTER"

- ② Then use "UP" " DOWN" button to select "Switching"
- ③ Press "ENTER" enter next page
- ④ Press "UP" " DOWN" button to select the output (The fifth port means ALL)
- ⑤ Press "ENTER"
- ⑥ Press "UP" " DOWN" to select the input
- ⑦ Press "ENTER" , Switch Done



2.Video On/Off

Turn on/off any output video or all outputs video

- ① Select "Video" in the menu and press "ENTER"
- ② Then use "UP" " DOWN" button to select "On/Off"
- ③ Press "ENTER" enter next page
- ④ Press "UP" " DOWN" button to select the output (The 9th port means ALL)
- ⑤ Press "ENTER" to select the HDMI 1~4; HDBT 1~4
- ⑥ Press "UP" " DOWN" to select "On" or "Off"
- ⑦ Press "ENTER" , Switch Done



7.3. Audio Control

The Audio Control have three sub menus:

1. Line Out
2. Audio Embed
3. Audio De-Embed

The specific operation is as follows:

1. Line Out

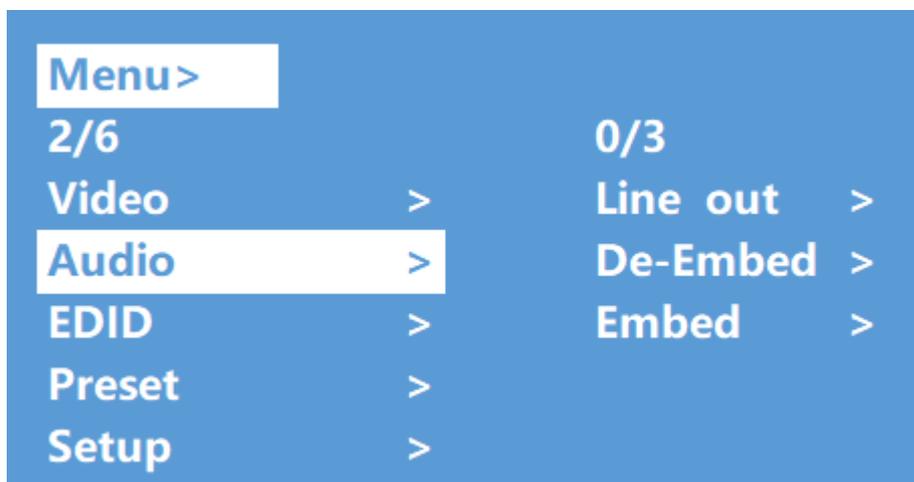
HDMI output audio switch. You can select a channel of HDMI output to mute the sound of the TV

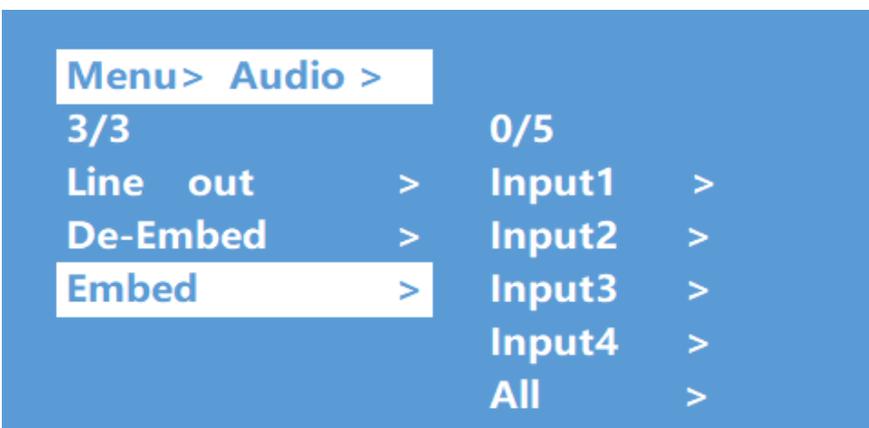
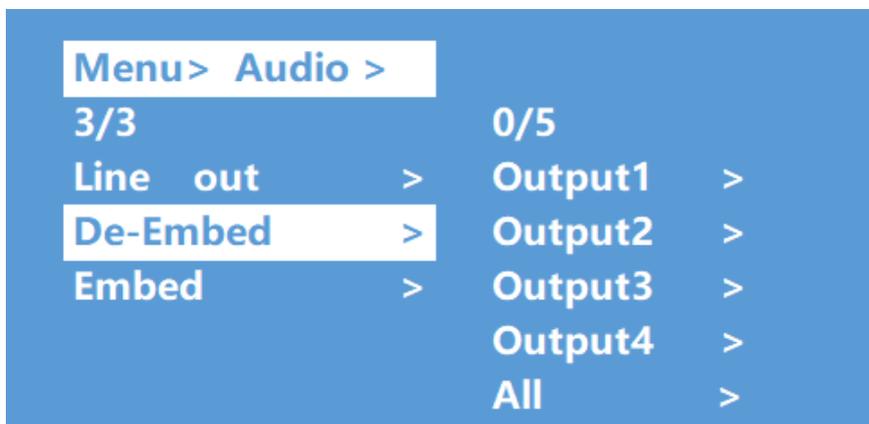
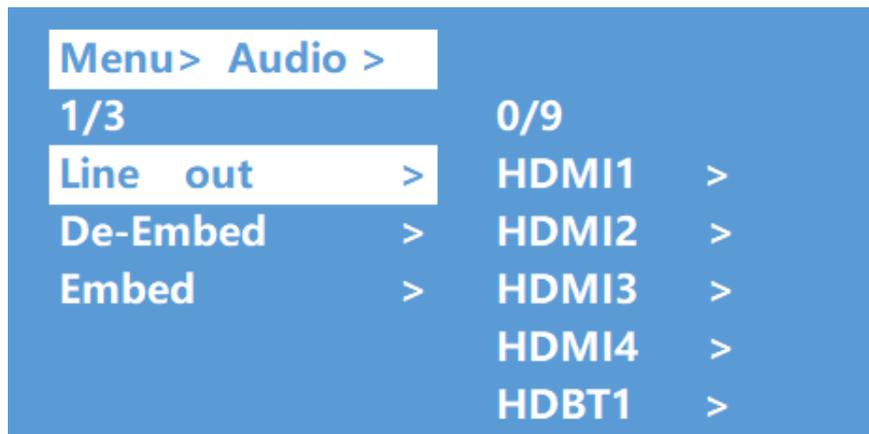
2. Audio Embed

Audio can be embedded to HDMI input. The embedded sound will cover the original sound of the signal source. You can select any input to embed

3. Audio De-Embed

You can set the output audio (analog audio and coaxial audio) at the same time. You can choose a certain audio output or mute



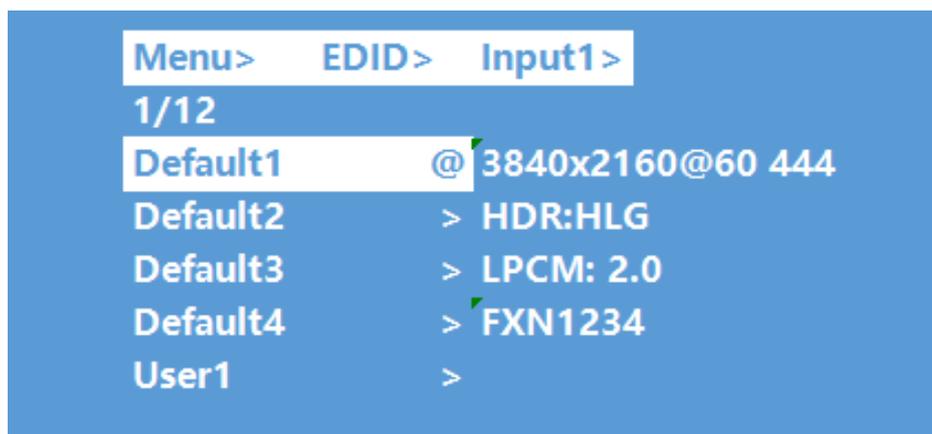
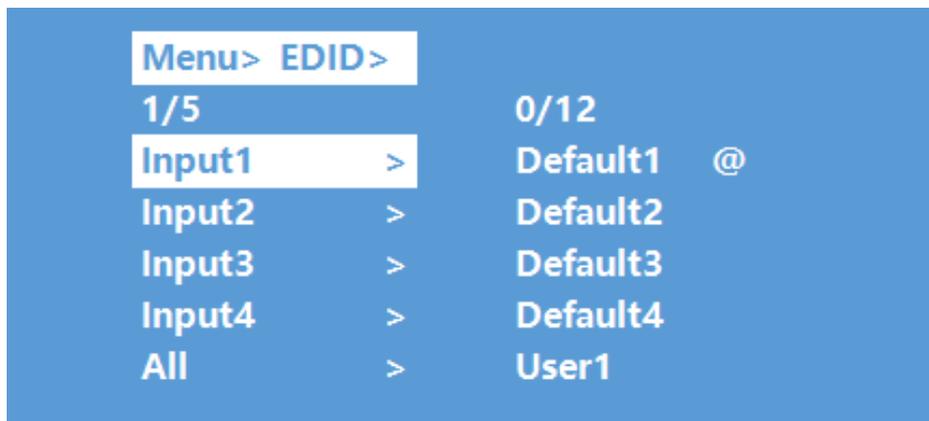
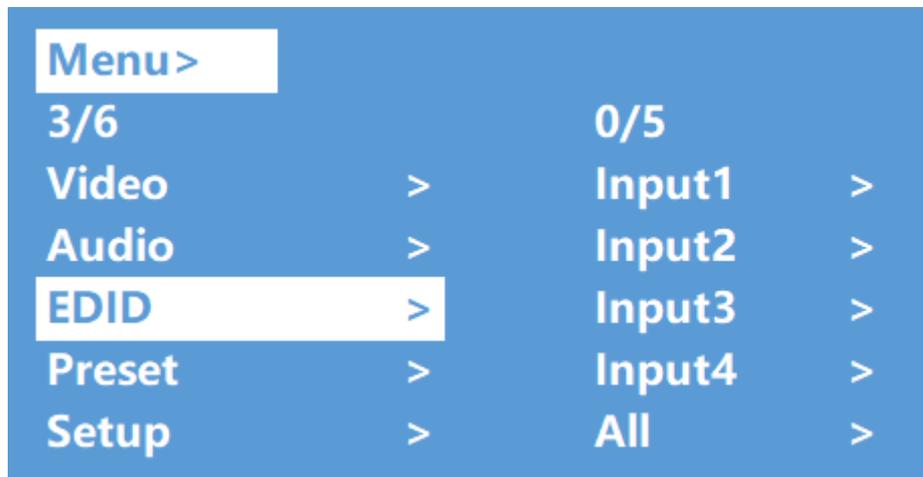


7.4. EDID Set Mode Interface

Default EDID

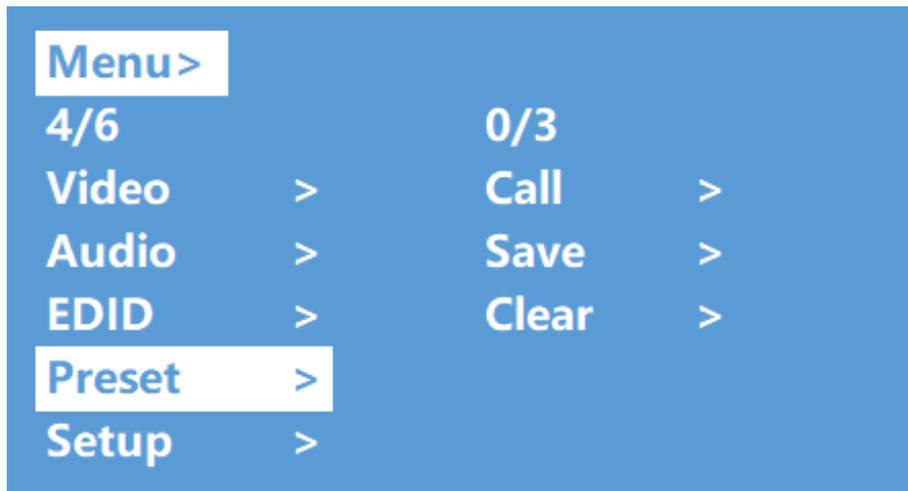
Default1	4K60 444-LPCM: 2.0 FXN1234	Default2	4K60 420-LPCM: 2.0 FXN1234
Default3	4K30 444-LPCM: 2.0 FXN1234	Default4	1080P60 444-LPCM: 2.0 FXN1234

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



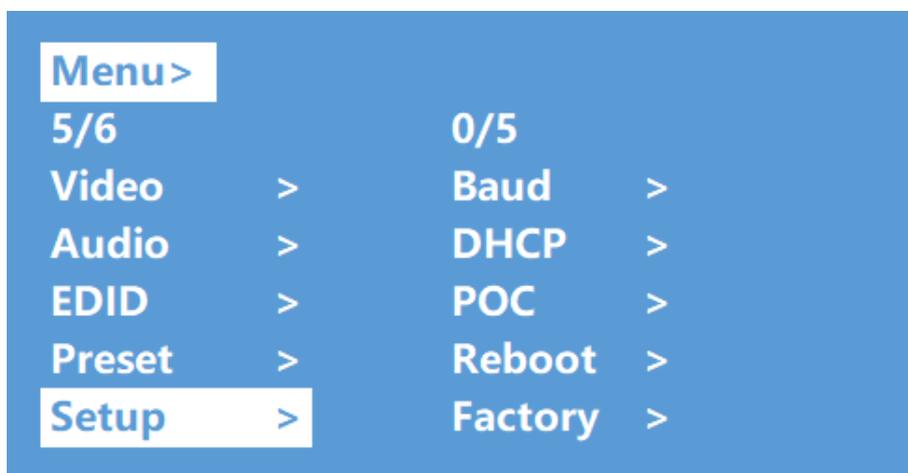
7.5. Preset Interface

The PRESET interface can save the current video, audio, EDID, system Settings, etc., and supports 8 different scenes. Scenes can be modified and cleared through web pages, commands, and panels. The default preset is consistent with factory Settings



7.6. SETUP mode Interface

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

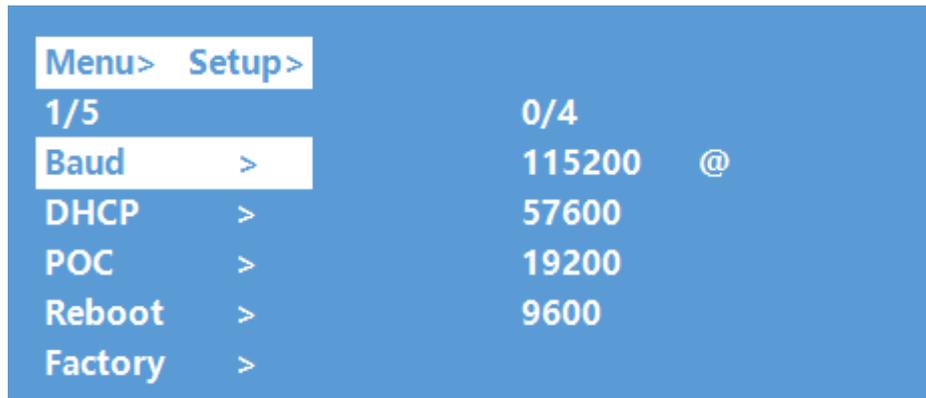


7.6.1. RS-232 Baud Rate setting

It has 4 kinds of baud rates inside the device: 9600; 19200; 57600; 115200

Default Baud Rate is: 115200

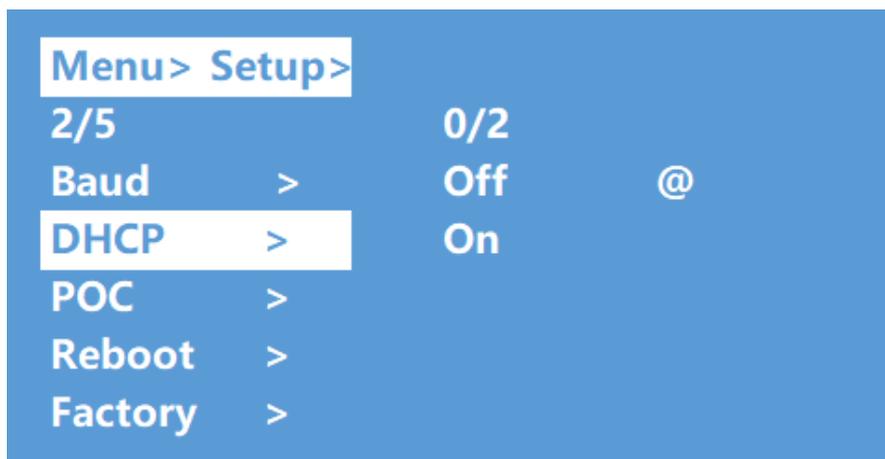
- ① Select "Setup" in the menu and press "ENTER"
- ② Then use "UP" "DOWN" button to select the "BAUD" and press "ENTER"
- ③ Press "UP" "DOWN" button to select the baud rate and press "ENTER" to confirm



7.6.2. DHCP On/Off setting

On means Dynamic; Off means Static

- ① Select "Setup" in the menu and press "ENTER"
- ② Then use "UP" "DOWN" button to select the "DHCP" and press "ENTER"
- ③ Press "UP" "DOWN" button to select "On" or "Off" and press "ENTER" to confirm

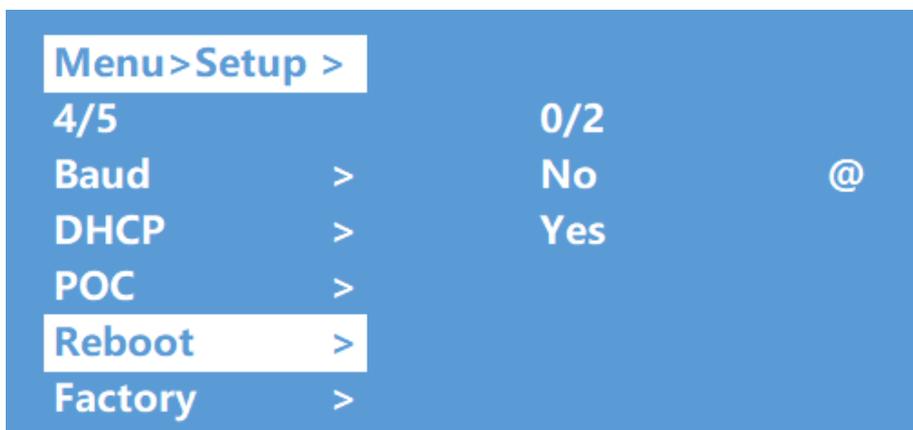


7.6.3. POC power switch

The POC interface can select a certain HDBT output switch to control POC power supply, and the default POC is "On"



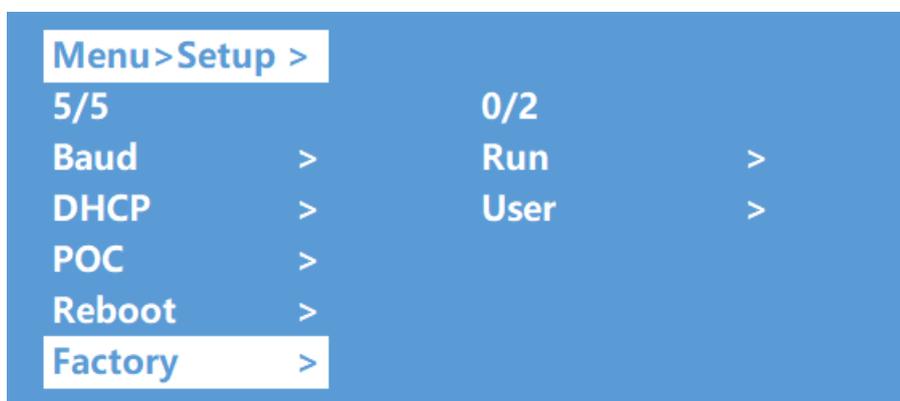
7.6.4. Reboot setting



7.6.5. Factory setting

Factory Run: Reset Video, Audio, EDID, Setup setting, Preset, Device name.

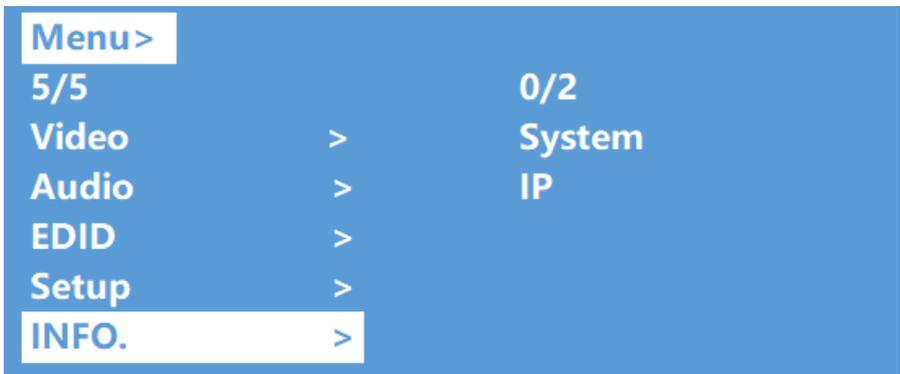
Factory User: Reset Video, Audio, EDID, Setup setting.

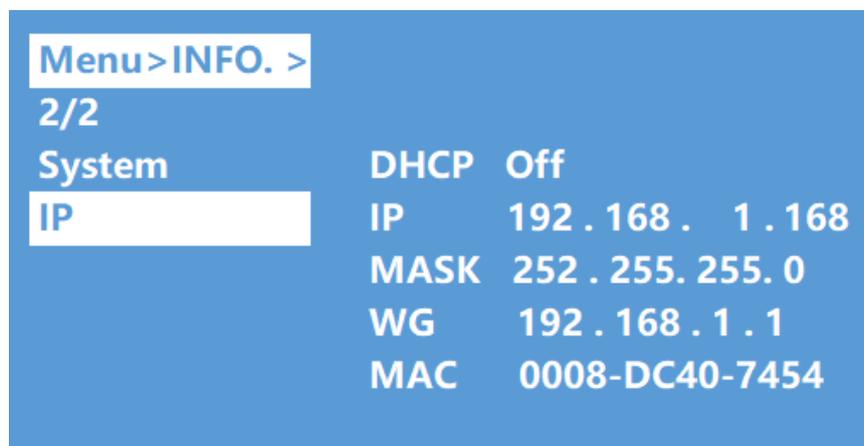
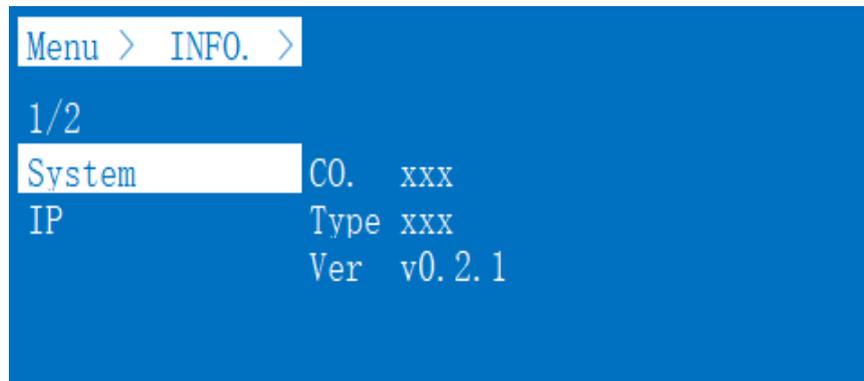




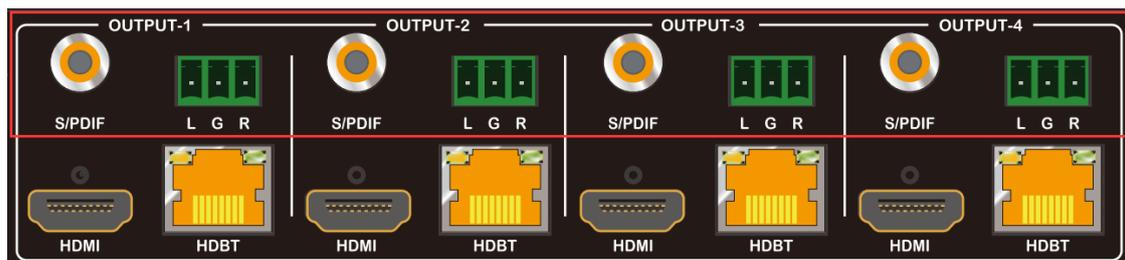
7.7. INFO mode Interface

Check the device information: IP or System information





8. Audio Extraction



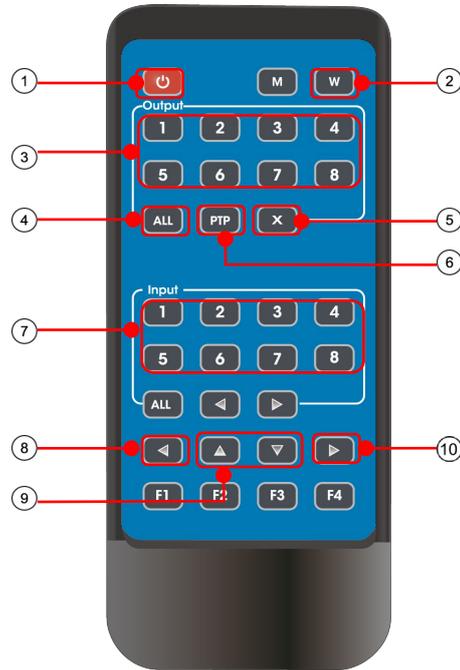
HDMI audio output supports uncompressed audio PCM, compressed audio Dolby and DTS, with a maximum support of 7.1 sound channels and a maximum sampling rate of 192KHz.

Analog audio supports PCM 2.0 channel.

S/PDIF audio supports Dolby or DTS, 5.1 channel.

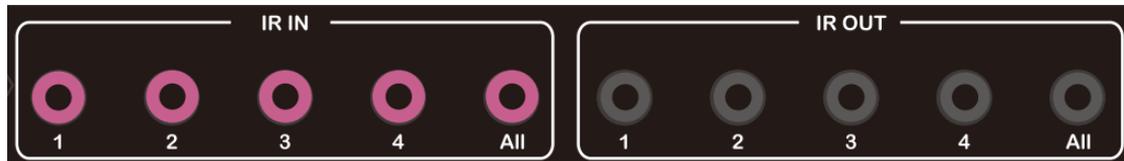
9. Remote Control Description

- ① Standby Mode
- ② Lock or Unlock the Panel Button
- ③ Choose output from 1-4
- ④ Choose all the outputs.
- ⑤ X: 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 1-4
- ⑧ Menu (back to previous option) button
- ⑨ UP and DOWN button
- ⑩ Enter button



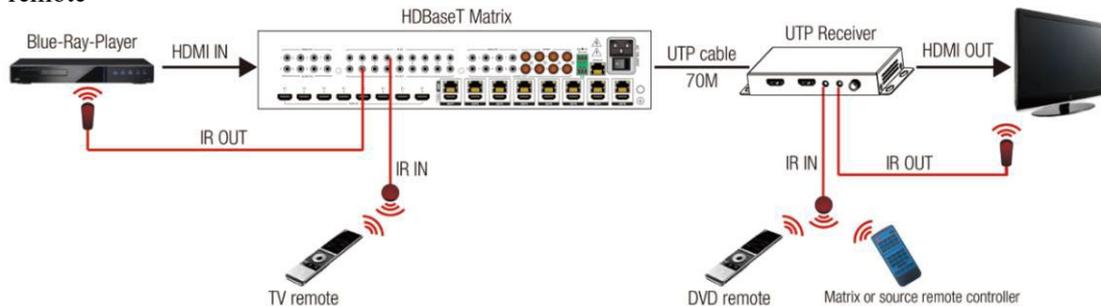
10. IR system

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



11. 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.



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

Then can input commands in the command input area to control the local or remote receiver

Instructions:

1. All commands start from “#”, command head “%c”: “d” parameters, “l” lock, “s” saves.
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.

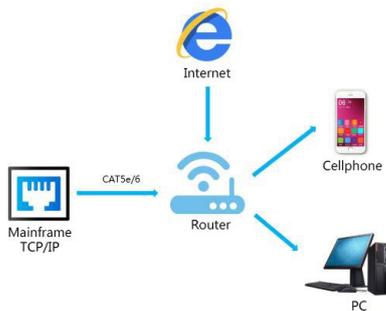
Instruction description	instruction	parameter 1	parameter 2
Video switch	#video_d		
Audio Mode Switch	#audio_%c	in%d	enc=%d
EDID	#EDID_%c	In%d	cfg=%d

Please refer to the " Command list" for details.

Example: ALL output switches to input 4.

Operation format: #video_d out0 matrix=4

12. Web Control



- 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:
 - 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). 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.**

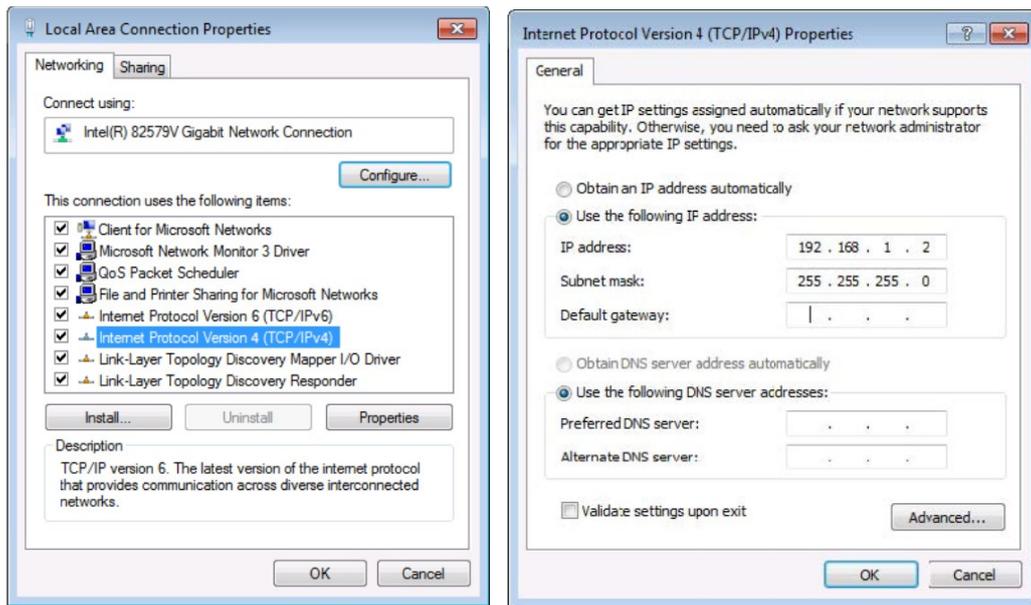
8). Click **Close.**

Default IP Address: 192.168.1.168

MASK: 255.255.255.0

Gateway:192.168.1.1

MAC:0008-DCCA-CF3F



12.1. Enter Web and Control

Enter the default IP address of the matrix: 192.168.1.168

Account: admin

Password: admin

12.2. “Status” interface:

Input Info & Output Info & Device Info:

1. CONNECT: The input status display bar. After connecting with the device, it will check whether the current input terminal has access signal source.

When no signal source connected, it will be displayed as "×", and when there is a normal working signal source connected, it will be displayed as "√".

2. AUDIO-EMBED: The Audio Embed status display bar. After connecting with the device, it will check whether the current HDMI output terminal has Audio Embed.

When audio is not embedded, it will be displayed as "×". When audio is embedded, it will be displayed as "√".

3. Connect (Local) and (Remote): It will be displayed as "X" when there is no display device access, and "√" when there is display device access.

4. Audio De-Embed: Indicates if Audio separation is turned on. "X": means off. "√": means on

5. Audio HDMI & HDBT: Indicates if the current local (HDMI) / Remote (HDBT) Audio output is available. When the HDMI/HDBT Audio output is turned off, displayed as "×", and when the HDMI/HDBT Audio output is turned on, displayed as "√".

6. POC (Remote): “ON” “OFF” means POC turned on or off

7. HTML Version: Current WEB Version

Status	<p>Input Info</p> <table border="1"> <thead> <tr> <th></th> <th>Connect</th> <th>Audio-Embed</th> </tr> </thead> <tbody> <tr> <td>In1</td> <td>√</td> <td>×</td> </tr> <tr> <td>In2</td> <td>√</td> <td>×</td> </tr> <tr> <td>In3</td> <td>√</td> <td>×</td> </tr> <tr> <td>In4</td> <td>√</td> <td>×</td> </tr> </tbody> </table> <p>Output Info</p> <table border="1"> <thead> <tr> <th></th> <th>Connect(Local)</th> <th>Connect(Remote)</th> <th>Audio De-Embed</th> <th>Audio-HDMI</th> <th>Audio-HDBT</th> <th>POC(Remote)</th> </tr> </thead> <tbody> <tr> <td>Out1</td> <td>√</td> <td>√</td> <td>√</td> <td>√</td> <td>√</td> <td>OFF</td> </tr> <tr> <td>Out2</td> <td>√</td> <td>√</td> <td>√</td> <td>√</td> <td>√</td> <td>OFF</td> </tr> <tr> <td>Out3</td> <td>√</td> <td>√</td> <td>√</td> <td>√</td> <td>√</td> <td>OFF</td> </tr> <tr> <td>Out4</td> <td>√</td> <td>√</td> <td>√</td> <td>√</td> <td>√</td> <td>OFF</td> </tr> </tbody> </table> <p>Device Info</p> <p>HTML Version: V0.0.1</p>								Connect	Audio-Embed	In1	√	×	In2	√	×	In3	√	×	In4	√	×		Connect(Local)	Connect(Remote)	Audio De-Embed	Audio-HDMI	Audio-HDBT	POC(Remote)	Out1	√	√	√	√	√	OFF	Out2	√	√	√	√	√	OFF	Out3	√	√	√	√	√	OFF	Out4	√	√	√	√	√	OFF
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Output																																																									
Preset																																																									
User EDID																																																									
Network																																																									
System																																																									

12.3. “Input” interface:

Noted: Double Click the Rename column can change the name of the ports.

Status																												
Input	<table border="1"> <thead> <tr> <th>Input</th> <th>Rename</th> <th>Audio-Embed</th> <th>Copy EDID From</th> </tr> </thead> <tbody> <tr> <td>In1</td> <td>Input1</td> <td><input type="checkbox"/></td> <td>Default1:3840x2160P@60 444</td> </tr> <tr> <td>In2</td> <td>Input2</td> <td><input type="checkbox"/></td> <td>Default1:3840x2160P@60 444</td> </tr> <tr> <td>In3</td> <td>Input3</td> <td><input type="checkbox"/></td> <td>Default1:3840x2160P@60 444</td> </tr> <tr> <td>In4</td> <td>Input4</td> <td><input type="checkbox"/></td> <td>Default1:3840x2160P@60 444</td> </tr> <tr> <td>All</td> <td></td> <td><input type="checkbox"/></td> <td>Default1:3840x2160P@60 444</td> </tr> </tbody> </table>				Input	Rename	Audio-Embed	Copy EDID From	In1	Input1	<input type="checkbox"/>	Default1:3840x2160P@60 444	In2	Input2	<input type="checkbox"/>	Default1:3840x2160P@60 444	In3	Input3	<input type="checkbox"/>	Default1:3840x2160P@60 444	In4	Input4	<input type="checkbox"/>	Default1:3840x2160P@60 444	All		<input type="checkbox"/>	Default1:3840x2160P@60 444
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Network																												
System																												

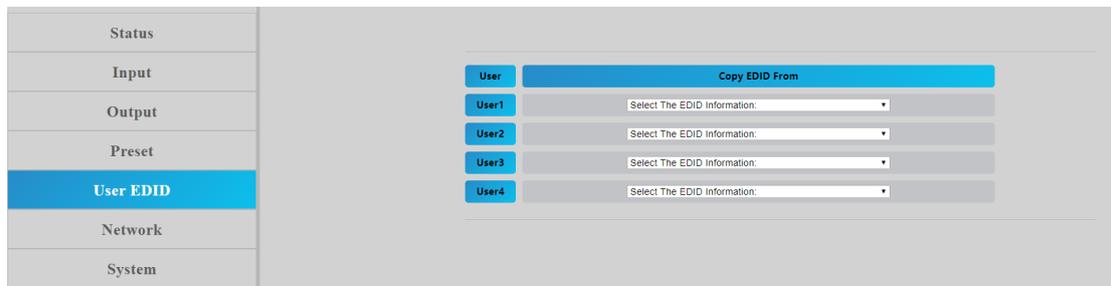
12.4. “Output” interface:

Status																																																															
Input																																																															
Output	<table border="1"> <thead> <tr> <th>Output</th> <th>Rename</th> <th>Video HDMI</th> <th>Video HDBT</th> <th>Audio De-Embed</th> <th>Audio HDMI</th> <th>Audio HDBT</th> <th>Source</th> <th>POC</th> </tr> </thead> <tbody> <tr> <td>Out1</td> <td>Output1</td> <td><input type="checkbox"/></td> <td><input type="checkbox"/></td> <td><input type="checkbox"/></td> <td><input type="checkbox"/></td> <td><input type="checkbox"/></td> <td>In1:CHANGHONG</td> <td><input type="checkbox"/></td> </tr> <tr> <td>Out2</td> <td>Output2</td> <td><input type="checkbox"/></td> <td><input type="checkbox"/></td> <td><input type="checkbox"/></td> <td><input type="checkbox"/></td> <td><input type="checkbox"/></td> <td>In1:CHANGHONG</td> <td><input type="checkbox"/></td> </tr> <tr> <td>Out3</td> <td>Output3</td> <td><input type="checkbox"/></td> <td><input type="checkbox"/></td> <td><input type="checkbox"/></td> <td><input type="checkbox"/></td> <td><input type="checkbox"/></td> <td>In1:CHANGHONG</td> <td><input type="checkbox"/></td> </tr> <tr> <td>Out4</td> <td>Output4</td> <td><input type="checkbox"/></td> <td><input type="checkbox"/></td> <td><input type="checkbox"/></td> <td><input type="checkbox"/></td> <td><input type="checkbox"/></td> <td>In1:CHANGHONG</td> <td><input type="checkbox"/></td> </tr> <tr> <td>All</td> <td></td> <td><input type="checkbox"/></td> <td><input type="checkbox"/></td> <td><input type="checkbox"/></td> <td><input type="checkbox"/></td> <td><input type="checkbox"/></td> <td>In1:CHANGHONG</td> <td><input type="checkbox"/></td> </tr> </tbody> </table>									Output	Rename	Video HDMI	Video HDBT	Audio De-Embed	Audio HDMI	Audio HDBT	Source	POC	Out1	Output1	<input type="checkbox"/>	In1:CHANGHONG	<input type="checkbox"/>	Out2	Output2	<input type="checkbox"/>	In1:CHANGHONG	<input type="checkbox"/>	Out3	Output3	<input type="checkbox"/>	In1:CHANGHONG	<input type="checkbox"/>	Out4	Output4	<input type="checkbox"/>	In1:CHANGHONG	<input type="checkbox"/>	All		<input type="checkbox"/>	In1:CHANGHONG	<input type="checkbox"/>																				
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12.5. “Preset” interface:



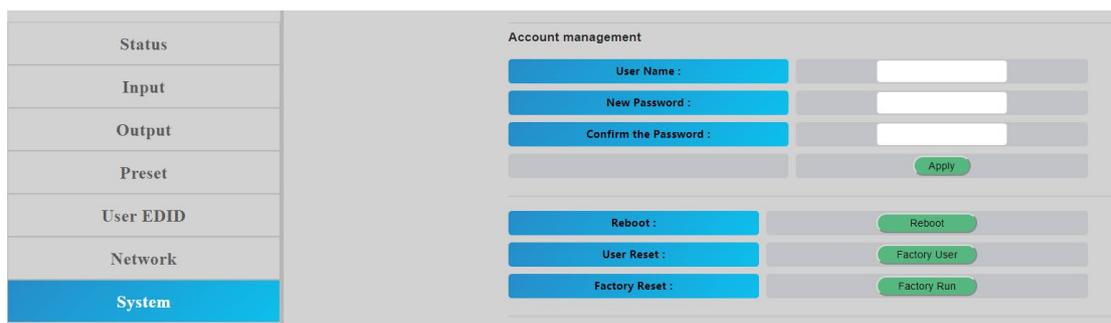
12.6. “User EDID” interface:



12.7. “Network” interface:



12.8. “System” interface:



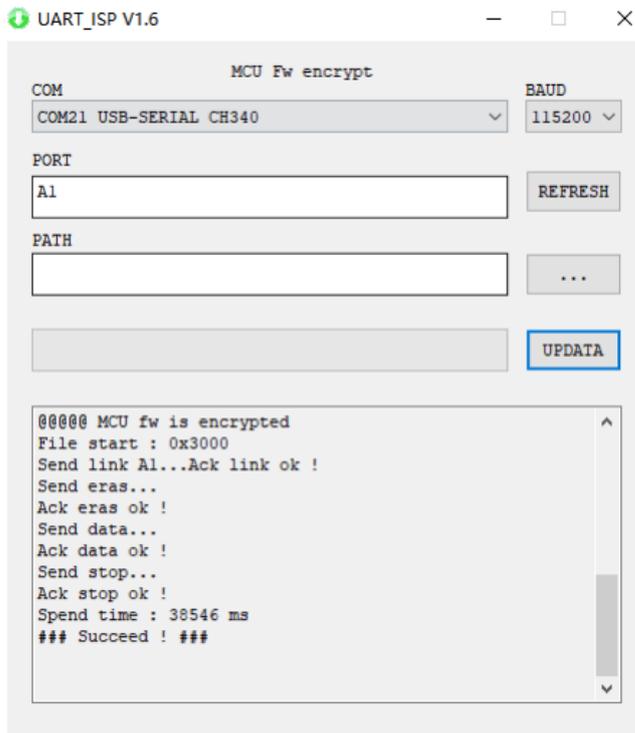
13. FW UPGRADE

First upgrade MCU (layer of application) and then upgrade CPLD, finally upgrade HTML (web page), (CPLD, HTML, MCU all support to use USB Micro port for upgrading)

- A1 means MCU
- C0 means CPLD
- F0 means HTML

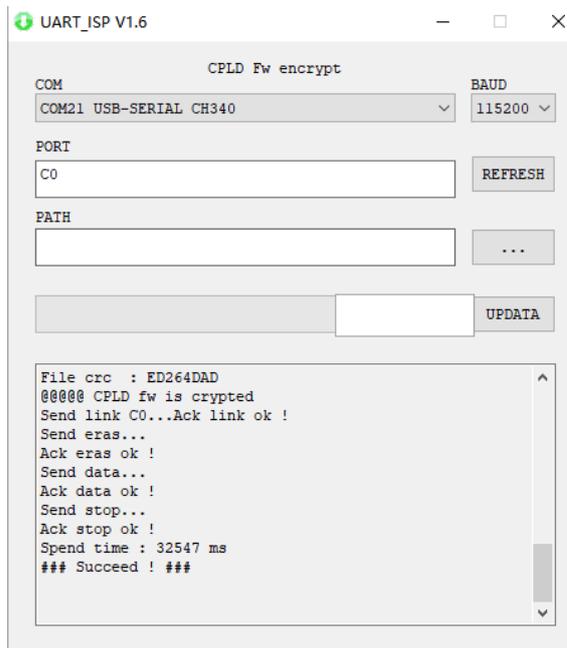
13.1. MCU Upgrade:

Open the software UART_ISP_V1.6.exe on PC, select the correct port and baud rate 115200, enter "A1" in Port, then select the path of the program in PATH (XXX. Bin), and click UPDATA to complete the upgrade



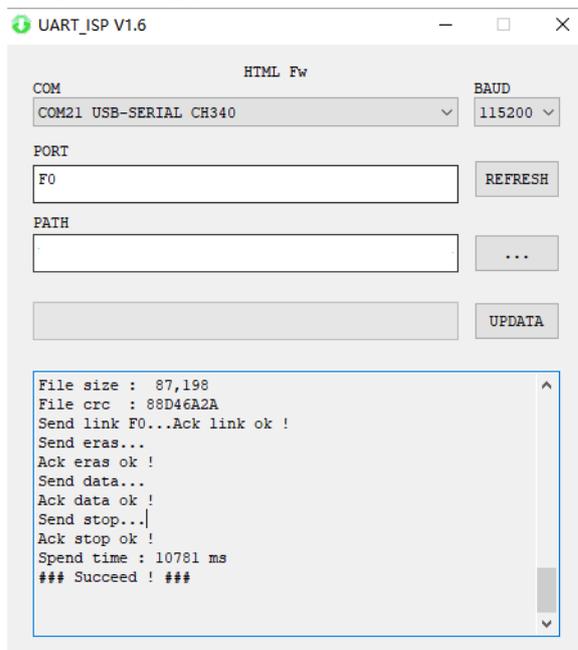
13.2. CPLD Upgrade:

Open the software UART_ISP_V1.6.exe on PC, select the correct port and baud rate 115200, enter "C0" in Port, then select the path of the program (XXX. VME) in PATH, and click UPDATA to complete the upgrade



13.3. HTML (WEB GUI) Upgrade:

Open the software UART_ISP_V1.6.exe on PC, select the correct port and baud rate 115200, enter "F0" in Port, then select the path of the program (XXX. HTML) in PATH, and click UPDATA to complete the upgrade



MAINTENANCE

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

PRODUCT SERVICE

(1) **Damage requiring service:**

The unit should be serviced by qualified service personnel if:

- (a) The DC power supply cord or AC adaptor has been damaged;
- (b) Objects or liquids have gotten into the unit;
- (c) The unit has been exposed to rain;
- (d) The unit does not operate normally or exhibits a marked change in performance;

The unit has been dropped or the cabinet damaged.

(2) **Service Personnel:** Do not attempt to service the unit beyond that described in these operating instructions. Refer all other servicing to authorized servicing personnel.

(3) **Replacement parts:** When parts need replacing ensure the servicer uses parts specified by the manufacturer or parts that have the same characteristics as the original parts. Unauthorized substitutes may result in fire, electric shock, or other Hazards.

(4) **Safety check:** After repairs or service, ask the servicer to perform safety checks to confirm that the unit is in proper working condition.

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 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 product purchased as new. A purchase receipt or other proof of original purchase date is required for Limited Warranty service.



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