



# J-TECH DIGITAL<sup>®</sup>

## USER MANUAL



4K 60Hz 8x8 HDMI Matrix Extender 213ft. (65m)

JTD-2980 | JTECH-4K88EX3

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RoHS  
compliant



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## 1. Features

- 8 x HDMI inputs and 8 x Ethernet outputs with 8 x HDMI Loop out ports
- HDMI 2.0 version supports 4K@60Hz YUV4:4:4, 18G, deep color max 12bit, HD 8CH digital audio format
- Extending 4K60Hz video signal to distances up to 213ft. (65m) over single Cat6 Ethernet cable
- HDCP 2.2/1.4 compliant (follows input)
- Dolby Vision, HDR10, HDR-HLG
- LPCM up to 7.1/24-bit/96 kHz, Dolby Atmos and DTS-X Atmos
- Ethernet port supports Telnet, UDP, http, TCP/IP protocol
- Wide-band Bi-Direction IR routed control (38~56KHz)
- 8 x analog audio extraction (5-pin phoenix port),
- 8 x analog audio in (3-pin phoenix port)
- Panel Button with LCD, IR Remote control, RS232 Control, TCP/IP Control
- Supports 4K downscale to 1080p
- Smart EDID management
- AC100~240V power supply, supports 8 x POC power outputs
- 3-Pin phoenix terminal plug for FW updating

## 2. Package Contents

- (1) x Main Unit (HDMI Matrix Extender)
- (1) x AC100~240V power cable
- (1) x Remote control
- (9) x IR Transmitter cables, 9x Wide-Band IR Receiver cables
- (1) CD for user manual & Command list

- (8) x 5-Pin Phoenix terminal plug
- (10) x 3-Pin Phoenix terminal plug
- 2U rack design metal case with 2 mounting ears
- (1) x USB2.0 to RS232 upgrade cable

### 3. Specifications

General	
Operating Temperature Range	-5°C ~ 40°C (23°F ~ 104°F)
Storage Temperature Range	-10°C ~ 60°C (-14°F ~ 140°F)
Operating Humidity Range	5 – 90% RH (No Condensation)
Input Video Signal	0.5 – 1.0V p-p
Input DDC Signal	5V p-p (TTL)
Bandwidth	18Gbit/s
Video Format Support	4K60Hz, YUV 4:4:4 8-bit 4K30Hz, 1080P / 1080i / 720P / 576P / 480P / 576i / 480i
HDCP Compliant	HDCP 2.2   1.4
Output Video	HDMI 2.0
Audio Format Support	LPCM up to 7.2 / 24-bit / 96kHz, Dolby Atmos, DTS-X Atmos
Maximum Transmission Distance	213ft. (65m)
Power Consumption	70W (Max.)
Dimensions (L x W x H)	Matrix: 438mm x 279mm x 88mm  17.24" x 10.98" x 3.46"  Receiver:

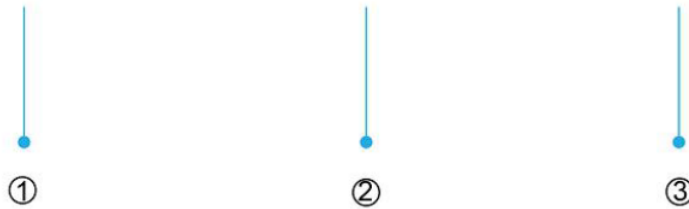
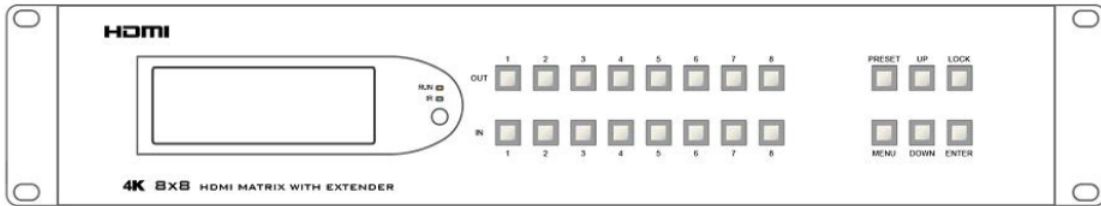
	110.2mm x 68.3mm x 18mm 4.34" x 2.69" x 0.71"
Net Weight	11.86lbs.

VESA Resolution List		
Rate	Resolution	Supported
60Hz	640 x 480	<input checked="" type="checkbox"/>
	800 x 600	<input checked="" type="checkbox"/>
	1027 x 768	<input checked="" type="checkbox"/>
	1280 x 768	<input checked="" type="checkbox"/>
	1280 x 1024	<input checked="" type="checkbox"/>
	1600 x 1200	<input checked="" type="checkbox"/>
	1680 x 1050	<input checked="" type="checkbox"/>
	1920 x 1080	<input checked="" type="checkbox"/>
	1280 x 720	<input checked="" type="checkbox"/>
	1360 x 768	<input checked="" type="checkbox"/>
	1920 x 1200	<input checked="" type="checkbox"/>
	3840 x 2160	<input checked="" type="checkbox"/>

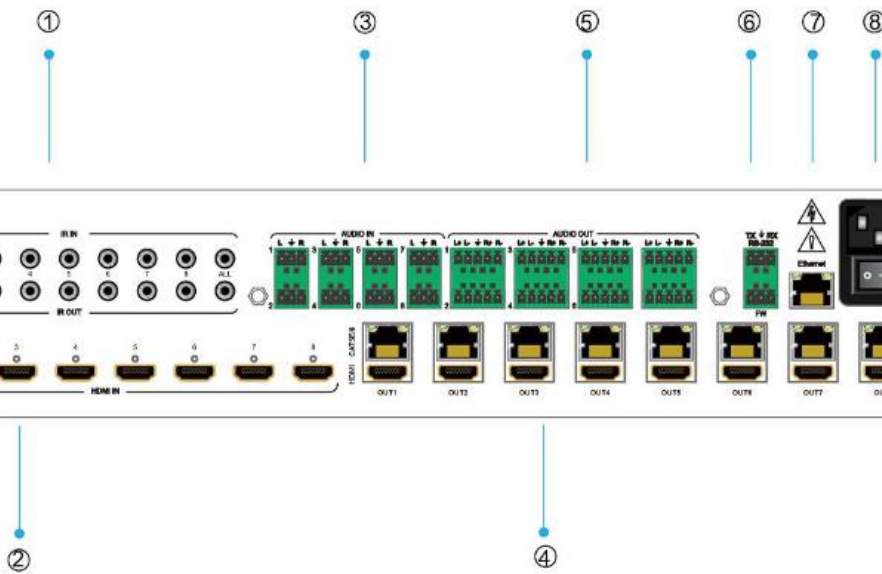
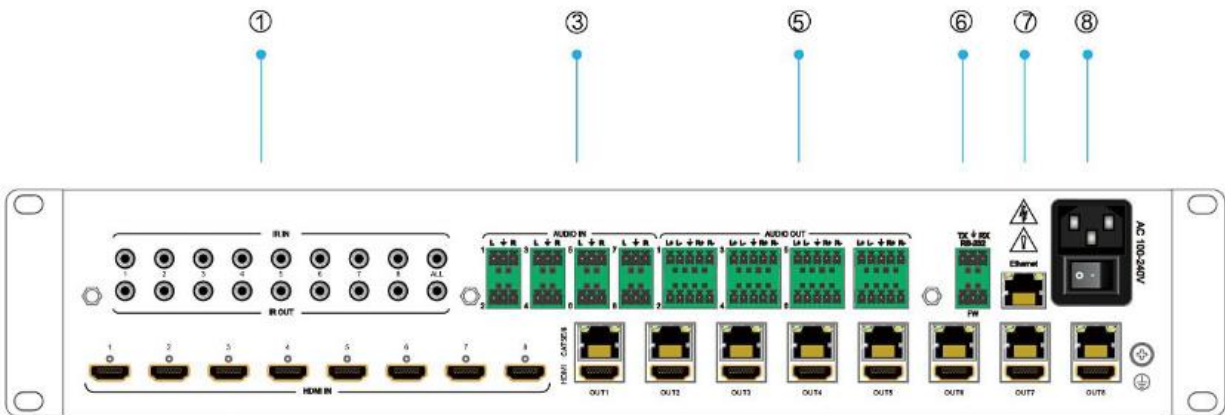
Testing Resolution List			
Rate	I/P	Resolution	Supported
50Hz	I	576i	<input type="checkbox"/>
	P	576P	<input checked="" type="checkbox"/>
	P	720P	<input checked="" type="checkbox"/>
	P	1080P	<input checked="" type="checkbox"/>

	I	1080i	☑
	P	4K2K	☑
60Hz / 59.94Hz	I	480i	x
	P	480P	☑
	P	720P	☑
	P	1080P	☑
	P	4K2K	☑
30 / 29.97Hz	P	720P	☑
	P	1080P	☑
	P	4K2K	☑
24Hz	P	720P	☑
	P	1080P	☑
	P	4K2K	☑
25Hz	P	720P	☑
	P	1080P	☑
	P	4K2K	☑

## 4. Panel Descriptions



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



- ① IR input port x8 & All in & IR output port x8 & All out
- ② HDMI input x8
- ③ Analog Audio in x8
- ④ Ethernet output x8 & HDMI Loop out x8
- ⑤ Analog Audio out x8
- ⑥ RS232 port & FW update port
- ⑦ Ethernet port
- ⑧ Power On/Off





## 6. Input / Output Channel Key Operation

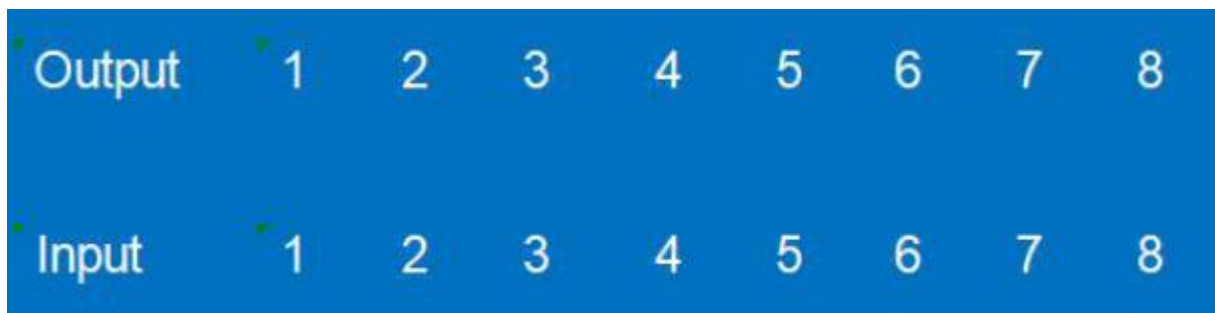
Channel	Button method
Any Key	The first operation of the button can wake up the screen and do the command
Output 1-8	Directly press the number key, such as the output channel 5, press button "5" and press it again to cancel the selection; Long press output 8 to select all channels, and long press again to cancel
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) Long press means all outputs select current input
MENU	Function Button; Short press to 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	Select the output port,press MUTE button to close output,press again to awaken output
LOCK	Long press to LOCK(button blue light on), Long press again to UNLOCK (button blue light off)

## 7. Video Switching Operation

### 7.1 Video Switching

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.

The specific operation as follows:



Switch the input to the output

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

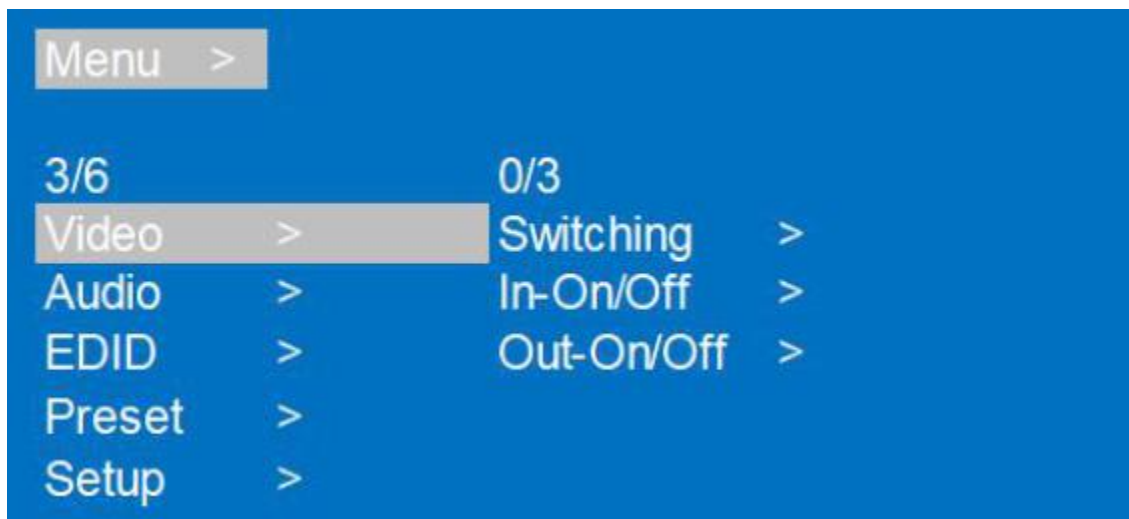
For Example: Output port 1 switch to input 5

Operation: Press OUT number "1" + IN number "5" to complete the switch

## 7.2 Video Control

The video interface has three sub menus:

1. Video Switching
2. Video-in On / Off
3. Video-out On / Off

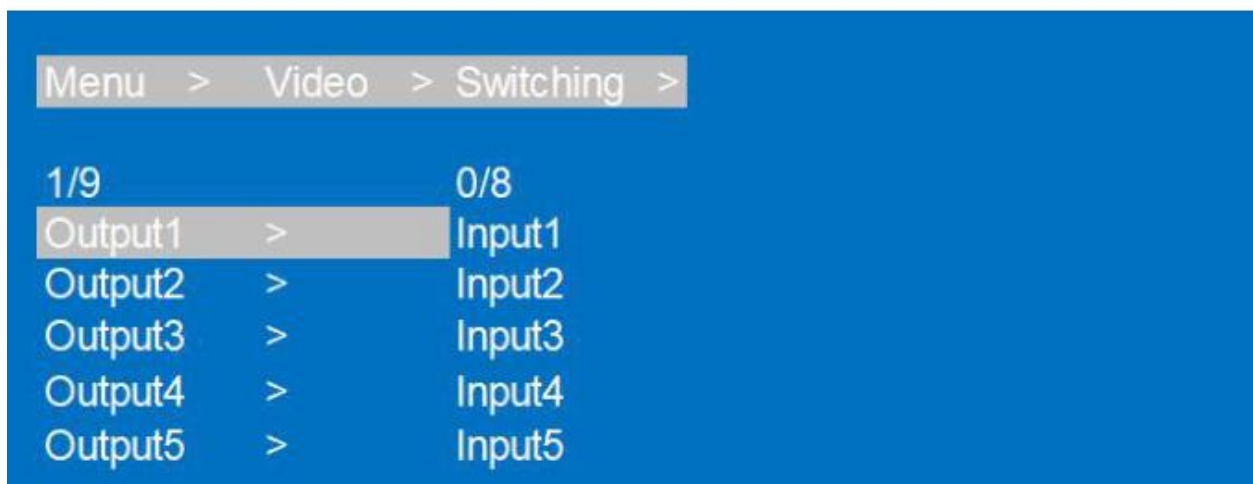
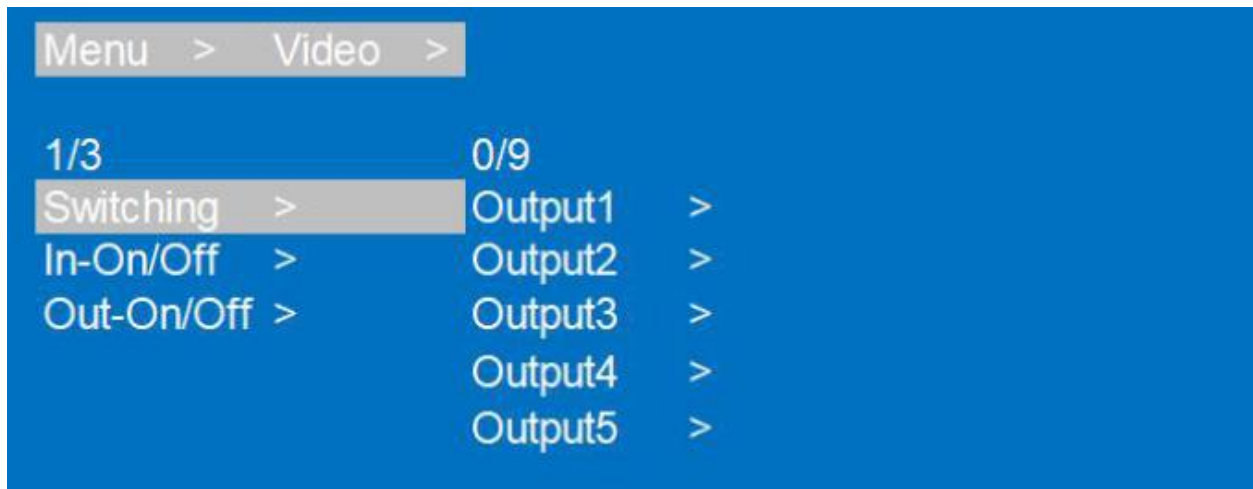


The specific operation as follows:

### 1. Video Switching

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

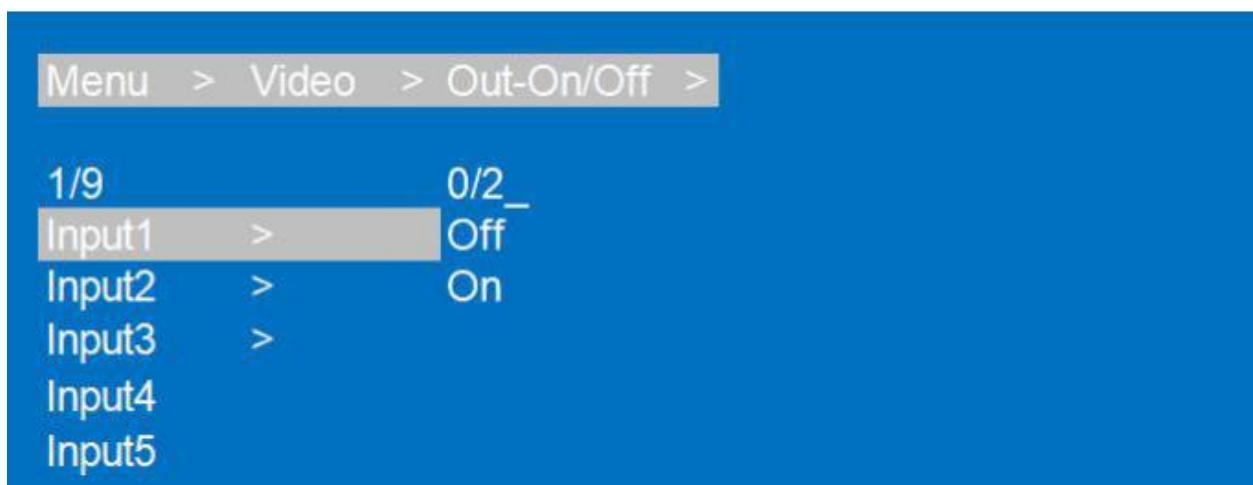
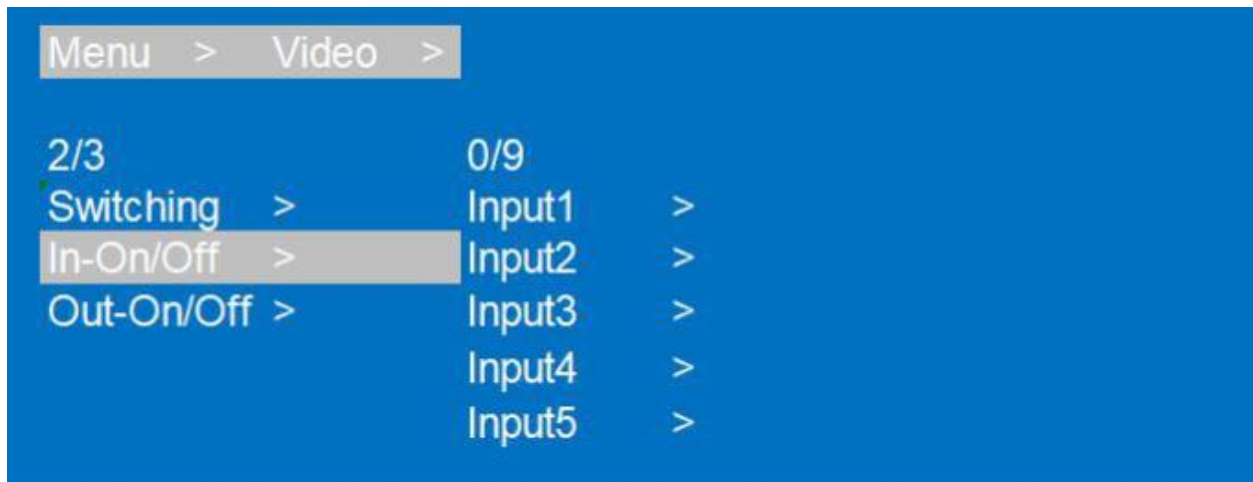
- ① Select "Video" in the menu and press "ENTER"
- ② Then use "UP", "DOWN" button to select "Switching"
- ③ Press "ENTER" enter next page
- ④ Press "UP", "DOWN" button to select the output (The ninth option means ALL outputs)
- ⑤ Press "ENTER"
- ⑥ Press "UP", "DOWN" to select the input
- ⑦ Press "ENTER" Switching Done



## 2. Video-in On/Off

Turn on/off any output video or all outputs video

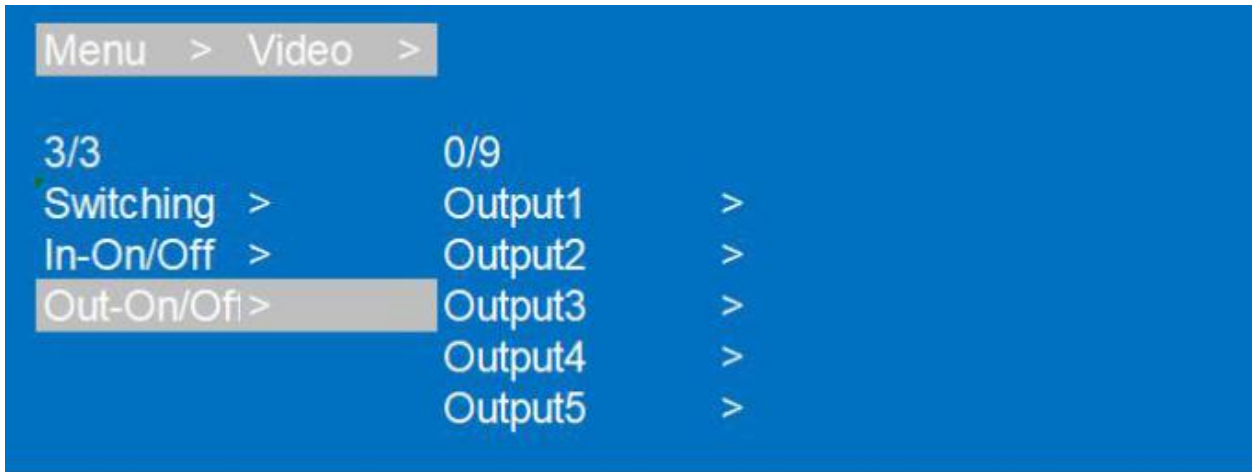
- ① Select "Video" in the menu and press "ENTER"
- ② Then use "UP", "DOWN" button to select "In On/Off"
- ③ Press "ENTER" enter next page
- ④ Press "UP", "DOWN" button to select the input (The 9th option means ALL inputs)
- ⑤ Press "ENTER" to enter next page
- ⑥ Press "UP", "DOWN" to select "On" or "Off"
- ⑦ Press "ENTER", Switching Done



### 3. Video-out On/Off

Turn on/off any output video or all outputs video

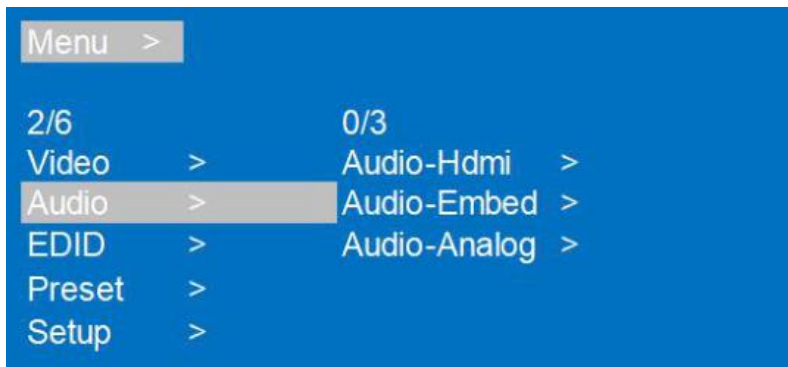
- ① Select "Video" in the menu and press "ENTER"
- ② Then use "UP"," DOWN" button to select "Output On/Off"
- ③ Press "ENTER" enter next page
- ④ Press "UP"," DOWN" button to select the output (The 9th option means ALL outputs)
- ⑤ Press "ENTER" to enter next page
- ⑥ Press "UP" "DOWN" to select "On"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



### 7.3 Audio Control

The Audio Control has three sub menus

1. Audio - HDMI (HDMI Input Audio)
2. Audio - Embed (Analog in)
3. Audio - Analog (Analog out)



The specific operation is as follows:

### 1. Audio - HDMI

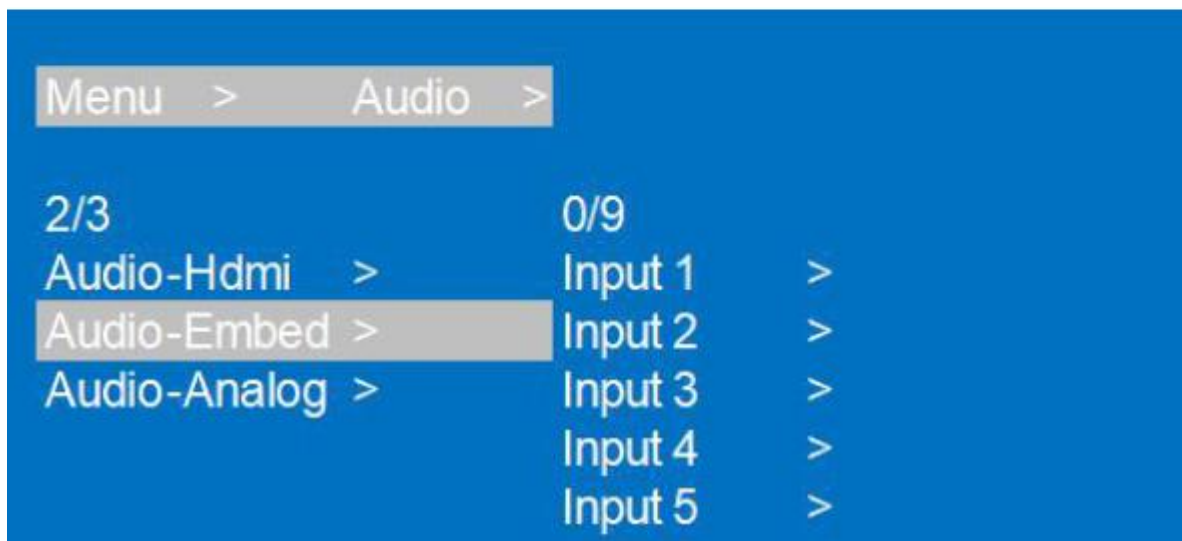
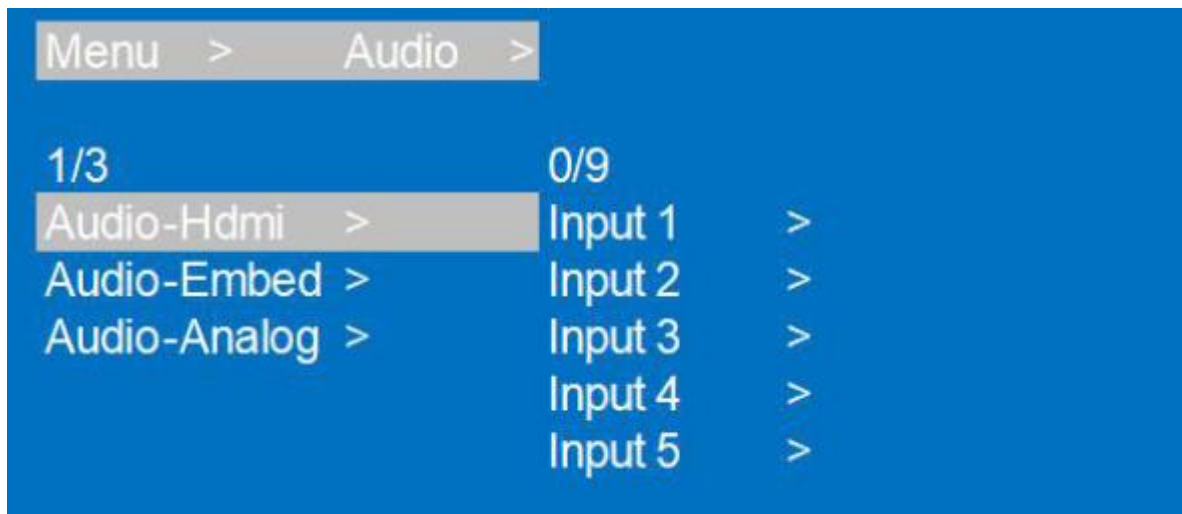
HDMI input audio switch. You can select any one of HDMI input source audio to be mute

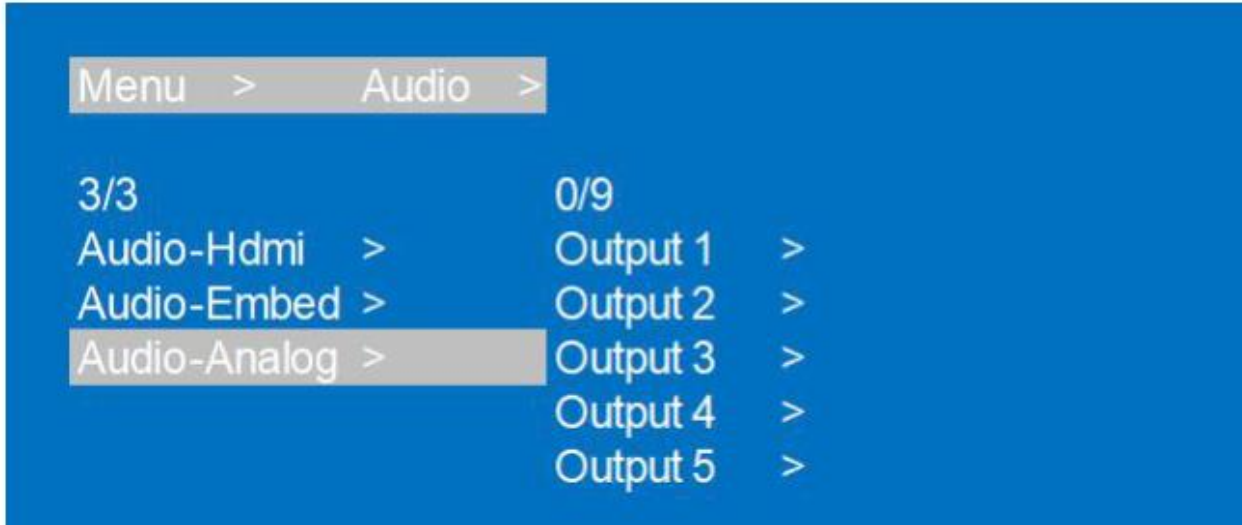
### 2. Audio Embed

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

### 3. Audio-Analog Out

Can choose any one of the Analog audio outputs on or off



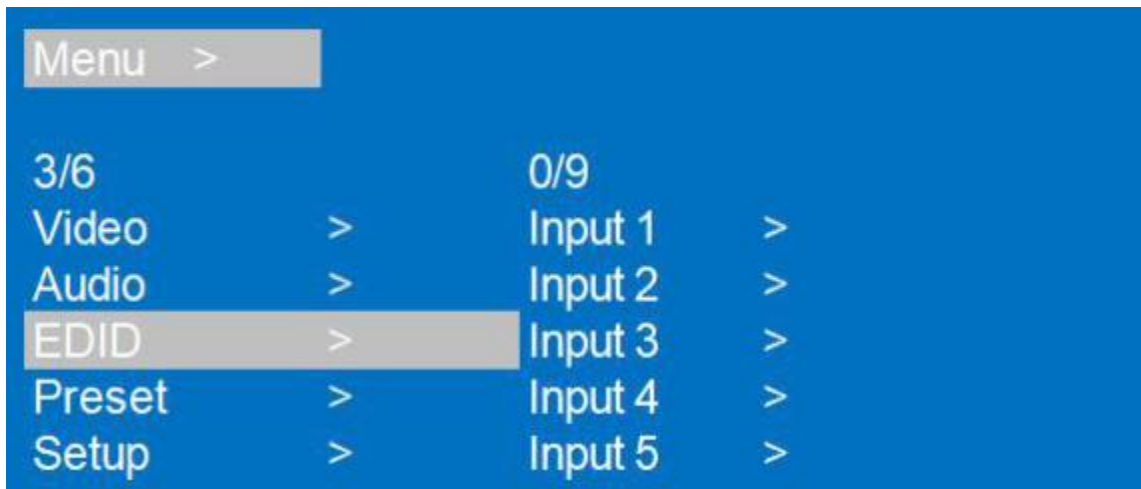


## 7.4 EDID Set Mode Interface

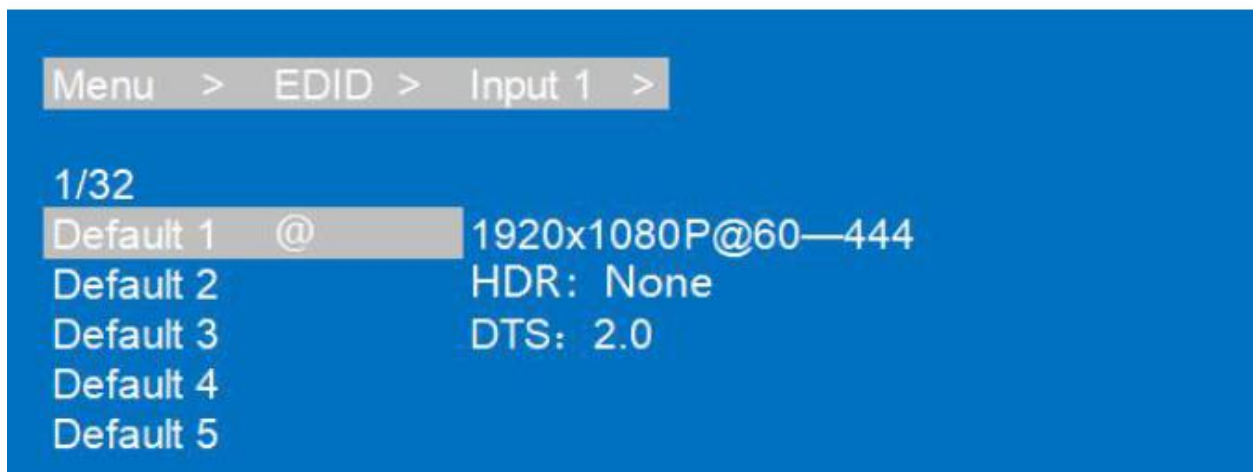
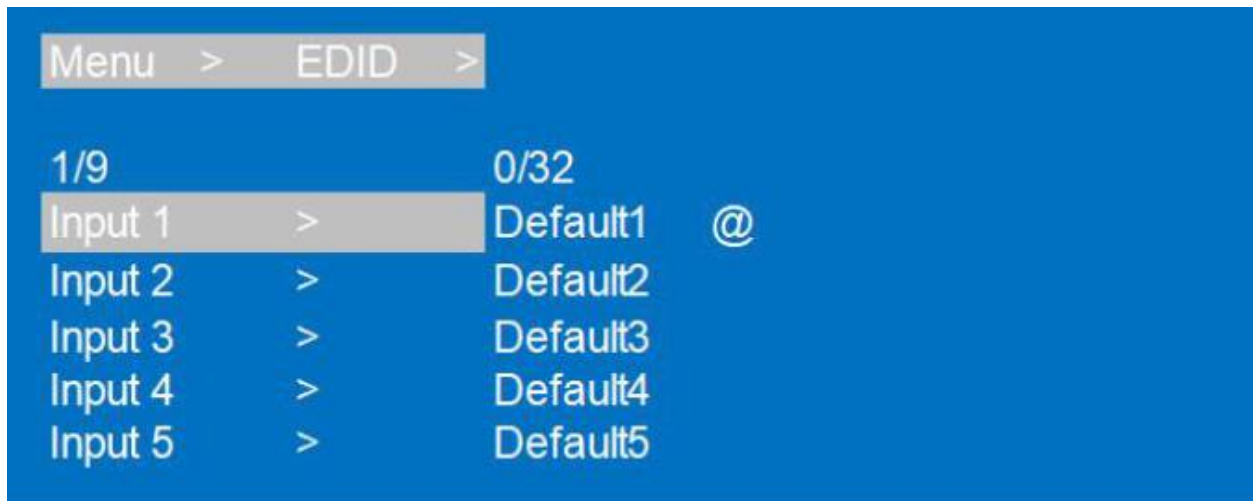
### Default EDID

Default-1	1080P60hz-2.0	Default-5	4K60hz-YUV420-5.1
Default-2	1080P60hz-5.1	Default-6	4K60hz-YUV444-2.0-HDR:HLG
Default-3	1080P60hz-7.1	Default-7	4K60hz-YUV444-5.1-HDR:HLG
Default-4	4K60hz-YUV420-2.0	Default-8	4K60hz-YUV444-2.0-HDR10:HLG

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







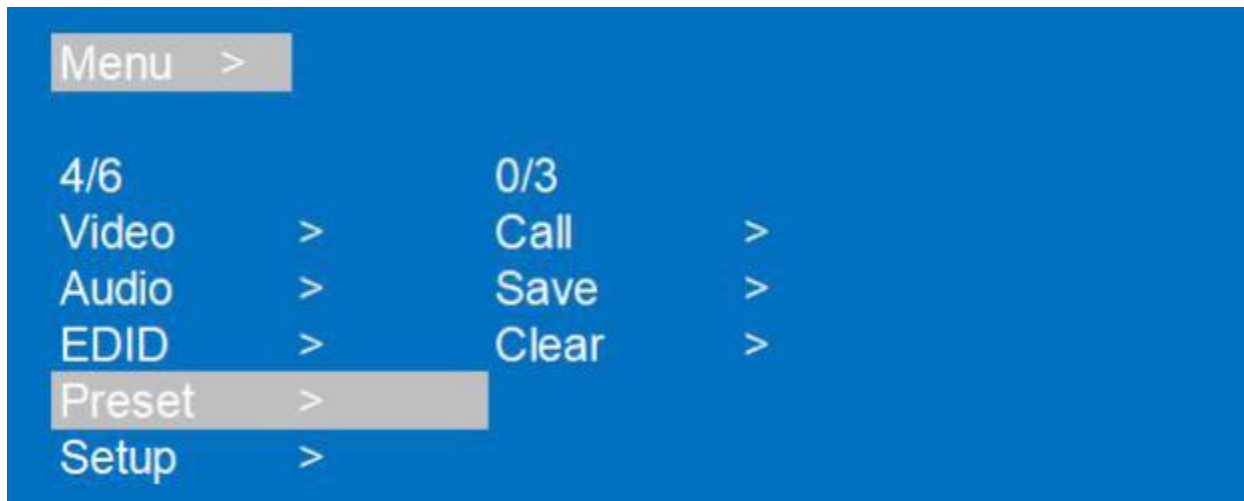
## 7.5 Preset Interface

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.

Preset has three sub menu:1. Call preset; 2. Save preset; 3. Clear preset;



## 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

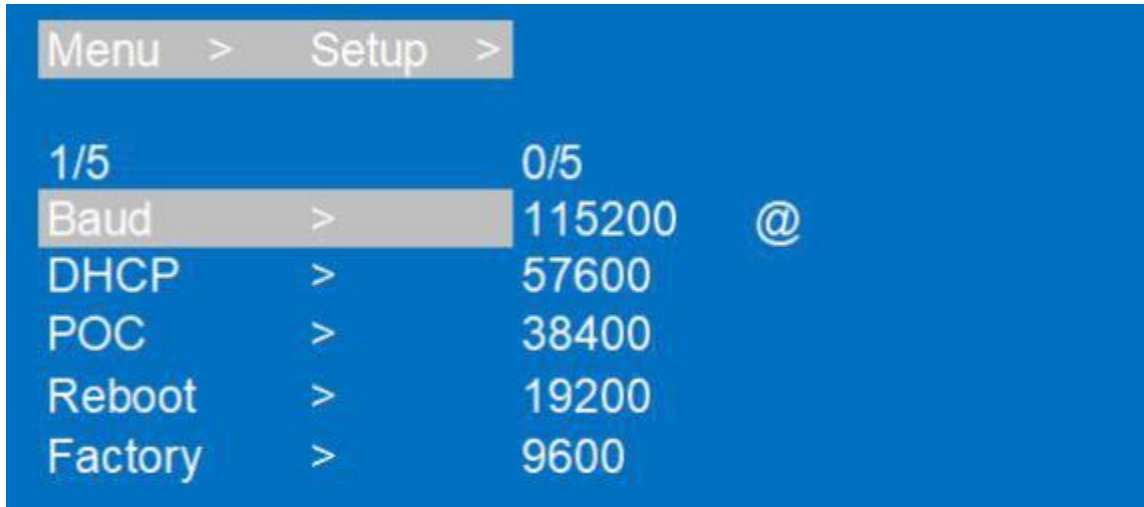


### 7.6.1 RS232 Baud Rate Setting

It has 5 kinds of baud rates inside the device: 9600,38400,19200,57600,115200

Default Baud Rate is: 115200

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



### 7.6.2 DHCP On/Off Setting

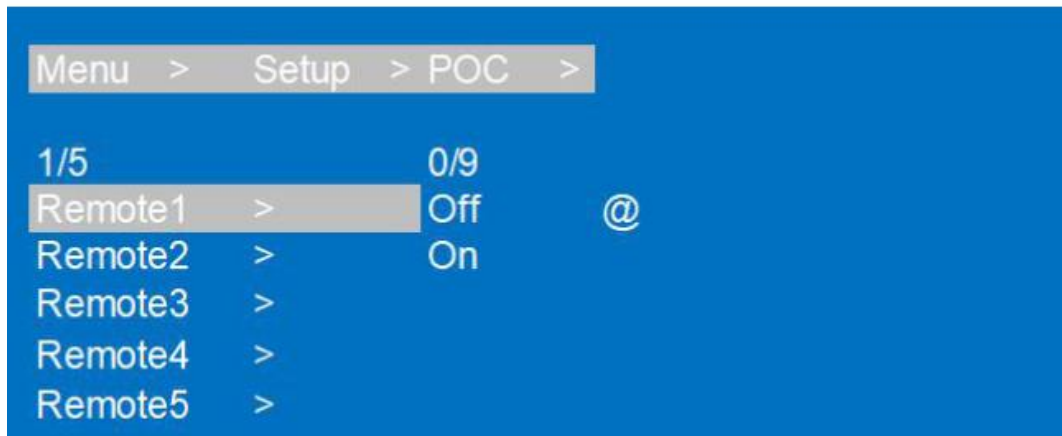
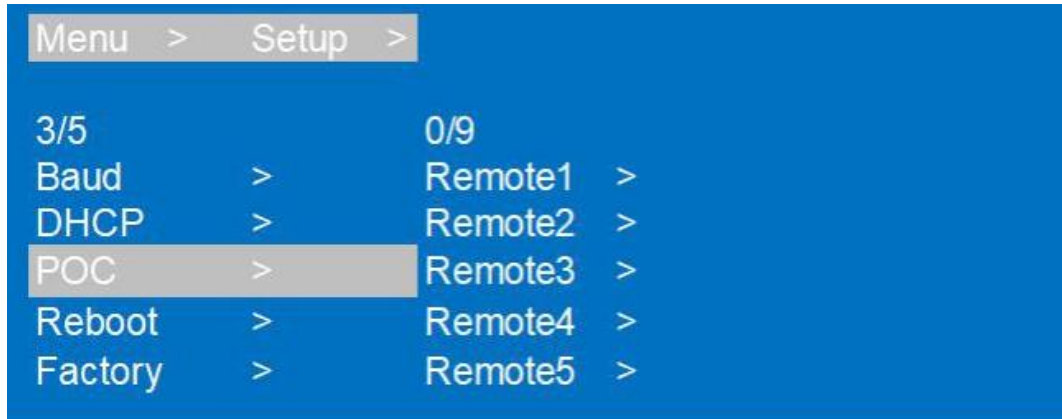
On means Dynamic; Off means Static

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

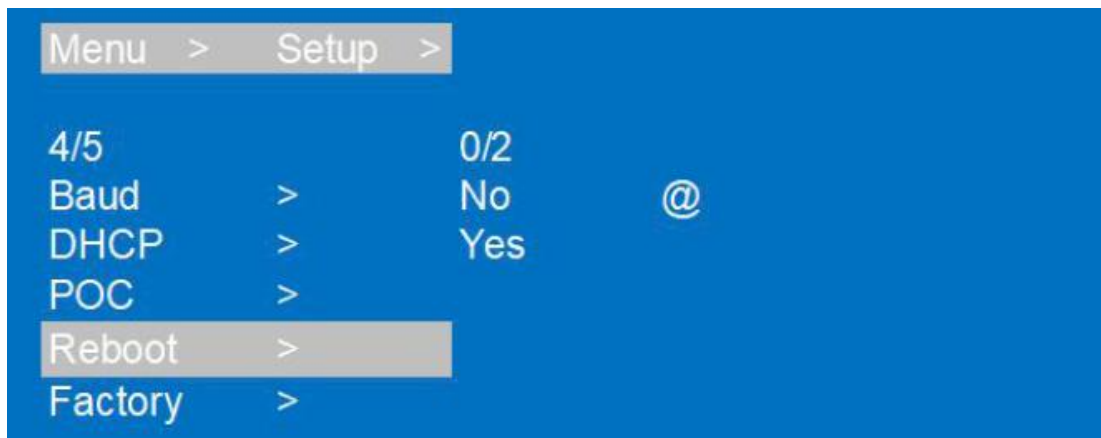


### 7.6.3 PoC Power Switch

The POC interface can select a certain UTP (Remote side) output switch to control POC power supply, and the default POC is "On".



### 7.6.4 Reboot Setting



## 7.6.5 Factory Setting

Command: to resume running data, but it cannot change the setup you already saved, such as Save preset;

ALL: Reset all Video, Audio, EDID, Setup setting, Preset, Device name etc.

```
Menu > Setup >
5/5          0/2
Baud >      Common >
DHCP >      All >
POC >
Reboot >
Factory >
```

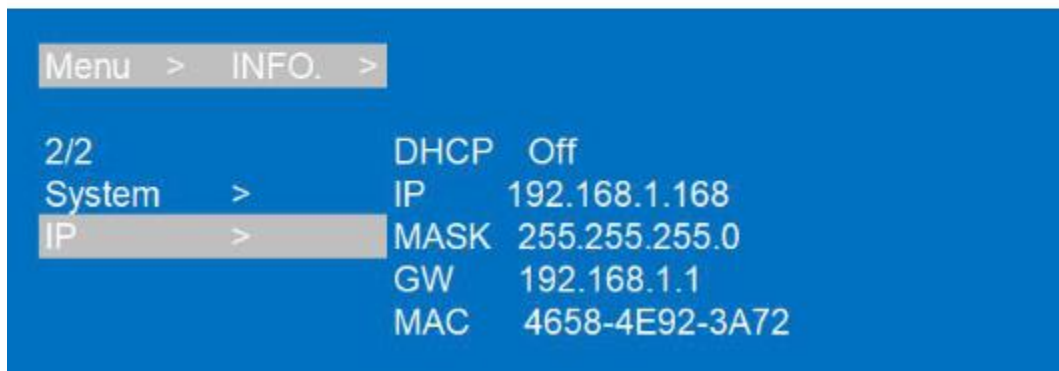
```
Menu > Setup > Factory >
1/2          0/2
Common >    No @
All >       Yes
```

```
Menu > Setup > Factory > Common >
1/2
No @ Reset information:
Yes 1.Video 2.Audio
    3.EDID 4.Setup
```

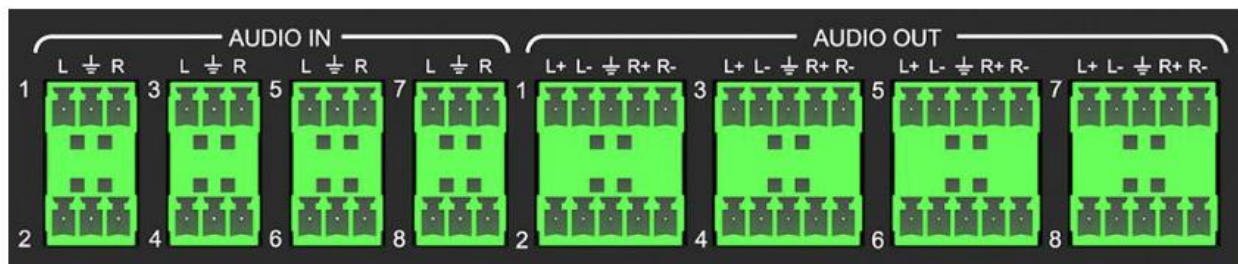
```
Menu > Setup > Factory > ALL >
1/2
No @ Reset information:
Yes 1.Video 2.Audio
    3.EDID 4.Setup
    5.Preset 6.Name
```

## 7.7 Info Mode Interface

Check the device information: IP or System information



## 8. Audio Embed / Extraction



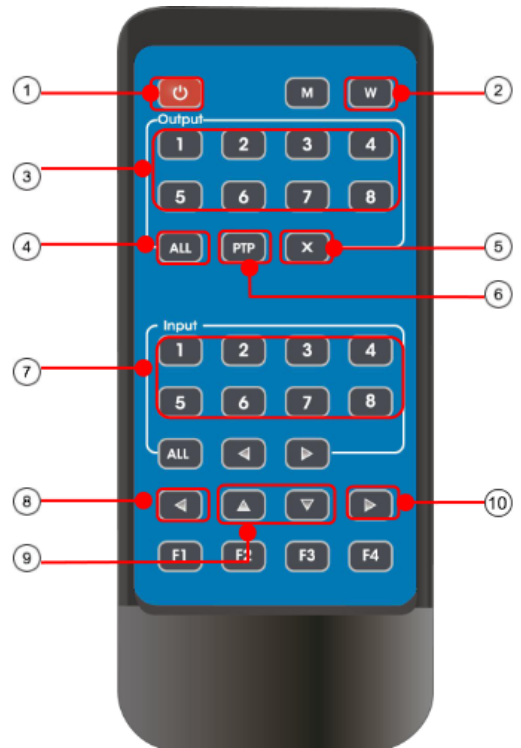
HDMI audio output supports uncompressed audio PCM, compressed audio Dolby and DTS, with a maximum support of 7.1 sound channels and a maximum sampling rate of 192KHz.

Analog audio supports PCM 2.0 channel.

## 9. Remote Control Description

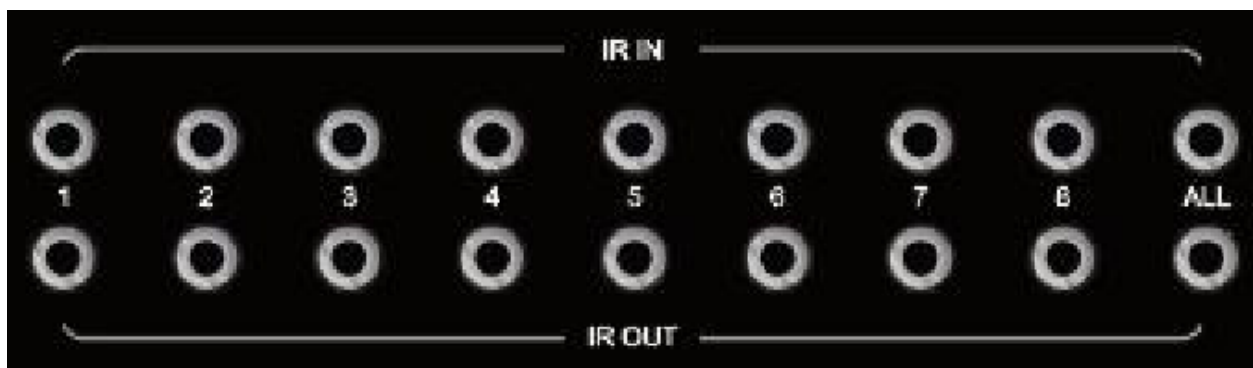
- ① Standby Mode
- ② Lock or Unlock the Panel Button
- ③ Choose output from 1-8
- ④ Choose all the outputs.
- ⑤ X: Turn on/off output port which you select
- ⑥ PTP button: Mirror all inputs and outputs  
(Ex. Input 1 to output 1, input 2 to output 2, etc)
- ⑦ Choose input from 1-8
- ⑧ Menu (back to previous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

**Note:** When Press “Output” Button + “M” Button  
can turn on/off the Output’s Audio



## 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.

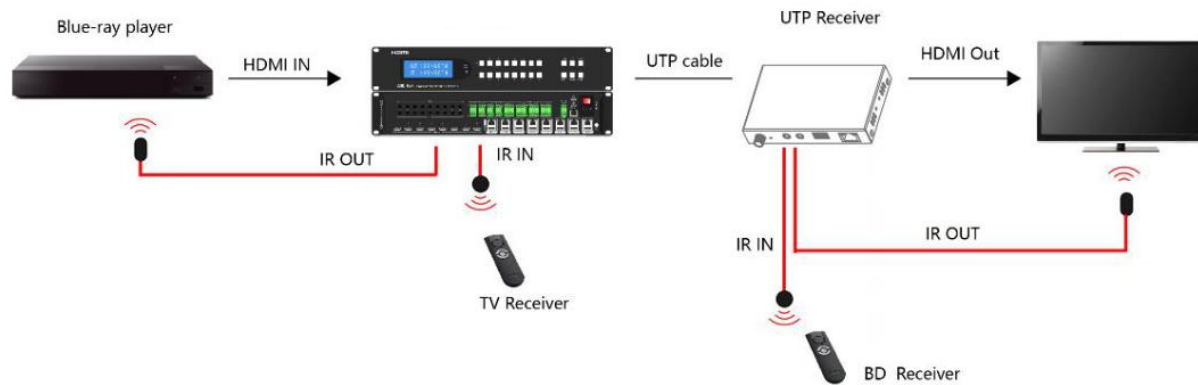


## Dual way IR:

Step1: "IR IN" is for UTP 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: Receiver support connect with IR receiver to control the Matrix by remote



## 11. RS232 Pass-through & 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.

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” save.
2. The “\_” in the commands cannot omit. Parameter: %d: 0 means ALL. 1-x means specified output (1~8).
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 switch	#video_%c	out%d	in%d	matrix=%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:  
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 connection 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.

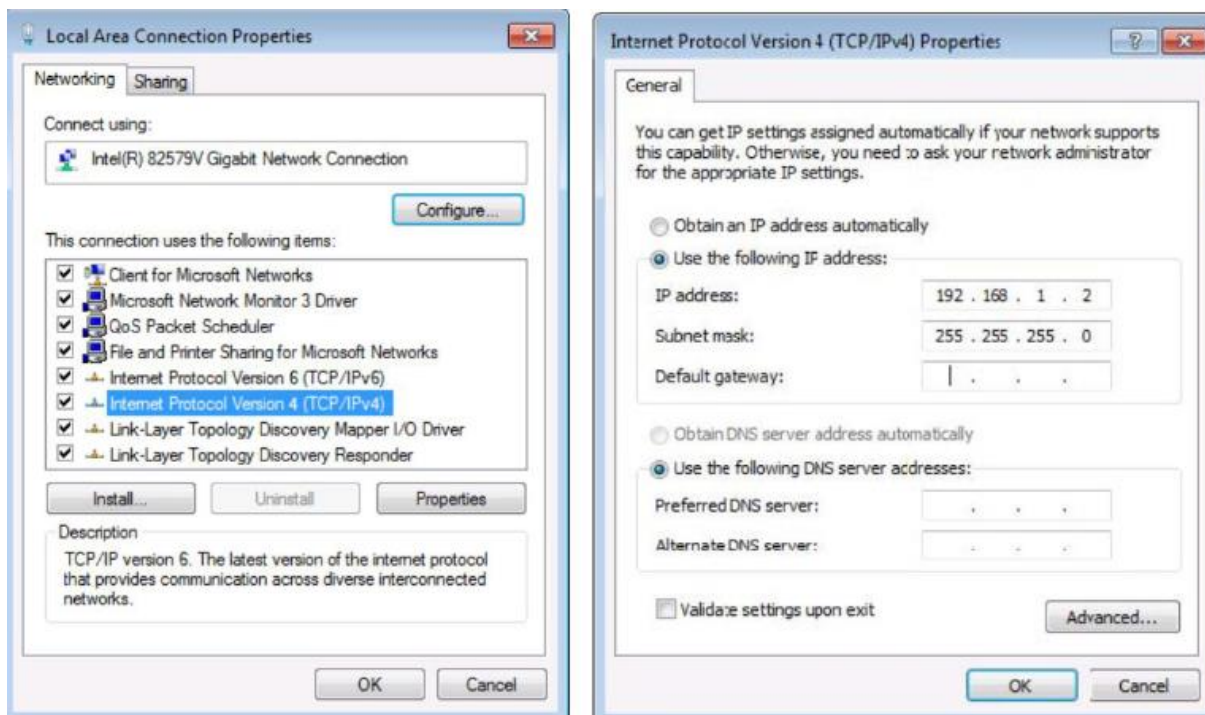
8. Click Close.

Default IP Address: 192.168.1.168

MASK: 255.255.255.0

Gateway:192.168.1.1

MAC:4658-4E96-406D



## 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 "x", 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 "x". 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 & UTP:** Indicates if the current local (HDMI) / Remote (UTP) Audio output is available. When the HDMI/UTP Audio output is turned off, displayed as "x", and when the HDMI/UTP 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	Input Info						
		Connect	Signal	HDCP	Audio-HDMI	Audio-Embed	
	Input	In1	x	x	x	√	x
	In2	x	x	x	√	x	
	In3	x	x	x	√	x	
	In4	x	x	x	√	x	
	In5	x	x	x	√	x	
	In6	x	x	x	√	x	
	In7	x	x	x	√	x	
Output	In8	x	x	x	√	x	
Preset	Output Info						
		Connect(Local)	EDID	Audio-Analog	POC(Remote)		
	Out1	x	x	√	√		
	Out2	x	x	√	√		
	Out3	x	x	√	√		
	Out4	x	x	√	√		
	Out5	x	x	√	√		
	Out6	x	x	√	√		
	Out7	x	x	√	√		
Out8	x	x	√	√			
System	Device Info						
	Device Name:	8X16 Matrix					
	MCU Version:	V0.0.6					
	CPLD Version:	V0.0.4					
HTML Version:		V0.0.6					

## 12.3 Input Interface

Restore: Click button to restore default status for input.

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

Video /Audio-HDMI/Audio-Embed: turn on/off video, HDMI Audio, Audio Embed.

EDID: total 32 kinds of EDID to choose.

Status	Input	Rename	Video	Audio-HDMI	Audio-Embed	EDID
Restore	In1	Input1	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Default1:1920x1080P@60-444 HDR:None LPCM:2.0
Restore	In2	Input2	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Default1:1920x1080P@60-444 HDR:None LPCM:2.0
Restore	In3	Input3	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Default1:1920x1080P@60-444 HDR:None LPCM:2.0
Restore	In4	Input4	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Default1:1920x1080P@60-444 HDR:None LPCM:2.0
Restore	In5	Input5	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Default1:1920x1080P@60-444 HDR:None LPCM:2.0
Restore	In6	Input6	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Default1:1920x1080P@60-444 HDR:None LPCM:2.0
Restore	In7	Input7	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Default1:1920x1080P@60-444 HDR:None LPCM:2.0
Restore	In8	Input8	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Default1:1920x1080P@60-444 HDR:None LPCM:2.0
Restore	All		<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	Default1:1920x1080P@60-444 HDR:None LPCM:2.0

## 12.4 Output Interface

Restore: Click button to restore default status for output.

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

Video /Audio-Analog/POC: turn on/off video, Analog Audio out, POC.

Source: can choose In1~In8.

Status	Output	Rename	Video	Audio-Analog	Source	POC
Restore	Out1	Output1	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	In1:Input1	<input checked="" type="checkbox"/>
Restore	Out2	Output2	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	In2:Input2	<input checked="" type="checkbox"/>
Restore	Out3	Output3	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	In3:Input3	<input checked="" type="checkbox"/>
Restore	Out4	Output4	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	In4:Input4	<input checked="" type="checkbox"/>
Restore	Out5	Output5	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	In5:Input5	<input checked="" type="checkbox"/>
Restore	Out6	Output6	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	In6:Input6	<input checked="" type="checkbox"/>
Restore	Out7	Output7	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	In7:Input7	<input checked="" type="checkbox"/>
Restore	Out8	Output8	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	In8:Input8	<input checked="" type="checkbox"/>
Restore	All		<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>		<input checked="" type="checkbox"/>

## 12.5 Preset Interface

Restore: Click button to restore default status for preset scene.

Rename: Double Click “Preset 1~8” can change the name of the ports.

Save/Call: Save/Call preset.

	Restore	Preset	Rename	Save	Call
Status	Restore	Preset1	Preset1	Save	Call
Input	Restore	Preset2	Preset2	Save	Call
Output	Restore	Preset3	Preset3	Save	Call
<b>Preset</b>	Restore	Preset4	Preset4	Save	Call
User EDID	Restore	Preset5	Preset5	Save	Call
Network	Restore	Preset6	Preset6	Save	Call
System	Restore	Preset7	Preset7	Save	Call
	Restore	Preset8	Preset8	Save	Call

## 12.6 User EDID Interface

Restore: Click button to restore default status for user EDID.

Rename: Double Click “User1~8” can change the name of the ports.

Copy EDID From: can copy Local1~8, Remote1~8, total 16 kinds of EDID to user.

EDID Import: Click Upload button can upload user-defined EDID.

EDID Export: Click Download button can download the user-defined EDID you’ve uploaded to user.

	Restore	User	Rename	Copy EDID From	EDID Import	EDID Export
Status	Restore	User1	User1	Select The EDID Information: ▾	Upload	Download
Input	Restore	User2	User2	Select The EDID Information: ▾	Upload	Download
Output	Restore	User3	User3	Select The EDID Information: ▾	Upload	Download
Preset	Restore	User4	User4	Select The EDID Information: ▾	Upload	Download
<b>User EDID</b>	Restore	User5	User5	Select The EDID Information: ▾	Upload	Download
Network	Restore	User6	User6	Select The EDID Information: ▾	Upload	Download
System	Restore	User7	User7	Select The EDID Information: ▾	Upload	Download
	Restore	User8	User8	Select The EDID Information: ▾	Upload	Download

## 12.7 Network Interface

This interface shows the Mac address, IP address, MASK, Gateway.

Only when DHCP is “off”, then you can modify IP address, MASK, Gateway

	Mac Address :	46:58:4E:96:40:6D
Status	IP Address :	192.168.1.168
Input	Net Mask Address :	255.255.255.0
Output	Gate Way Address :	192.168.1.1
Preset	DHCP :	<input type="checkbox"/> OFF
User EDID	UDP Port :	5000
Network	TCP Port :	5000
System	Telnet Port :	23
	Http Port :	80
	<input type="button" value="Restore"/>	<input type="button" value="Apply"/>

## 12.8 System Interface

### 1. Generic

Baud: can change Baud rate (9600,19200,38400,57600,115200).

LCD: can set the LCD breath holding time (5s,30s,60s,90s, on)

### 2. Account management

User Name: modify name of log in user.

New Password: new password to log in web interface.

Confirm the Password: type in new password again to confirm, then click “Apply”.

### 3. System

Reboot: click to reboot matrix.

User Reset (factory common): restore running info. (Include video, Audio, EDID, Setup).

Factory Reset: reset all default setup functions.

### 4. Firmware

Web page upgrade: click “Browse” to select the firmware, then click “Upgrade”.



## 13. Firmware Upgrade

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

A1 means MCU

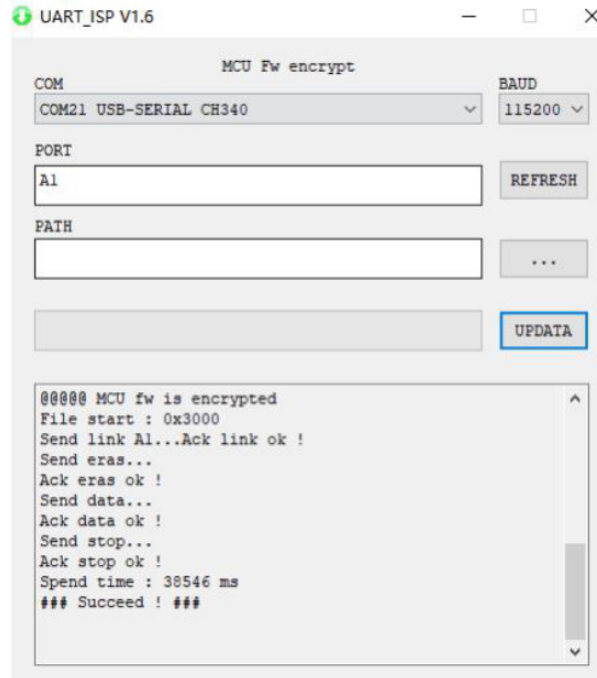
A1 01 means MCU

C0 01 means CPLD

F0 means HTML

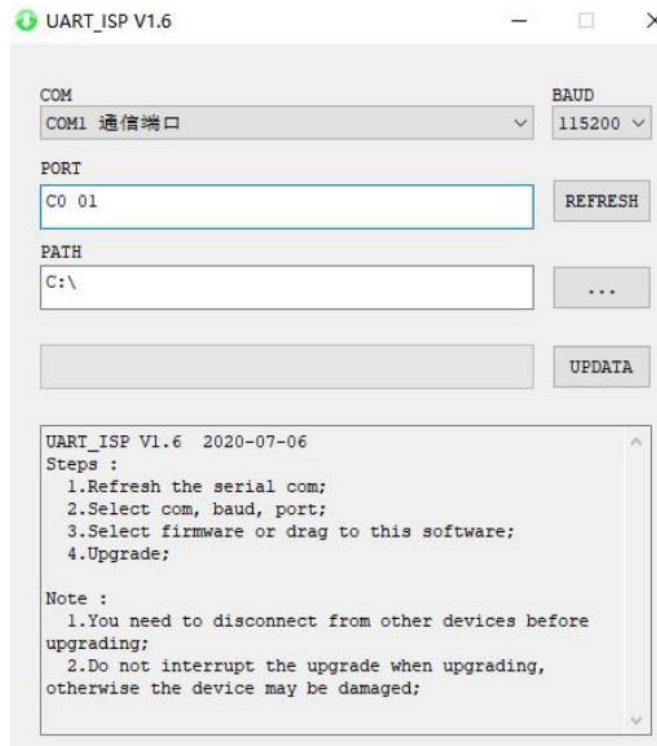
### 13.1 MCU Upgrade

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

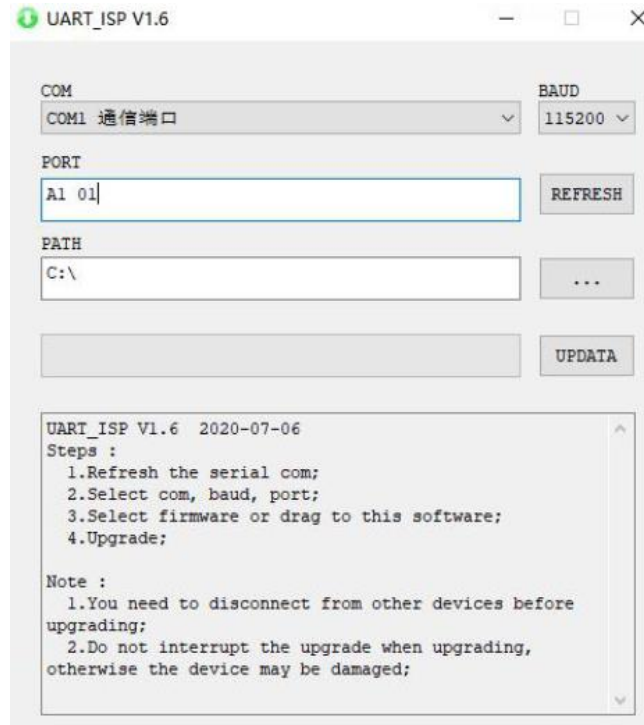
Open the software UART\_ISP\_V1.6.exe on PC, select the correct port and baud rate 115200, enter "CO 01" in Port, then select the path of the program (XXX.VME) in PATH, and click UPDATA to complete the upgrade.





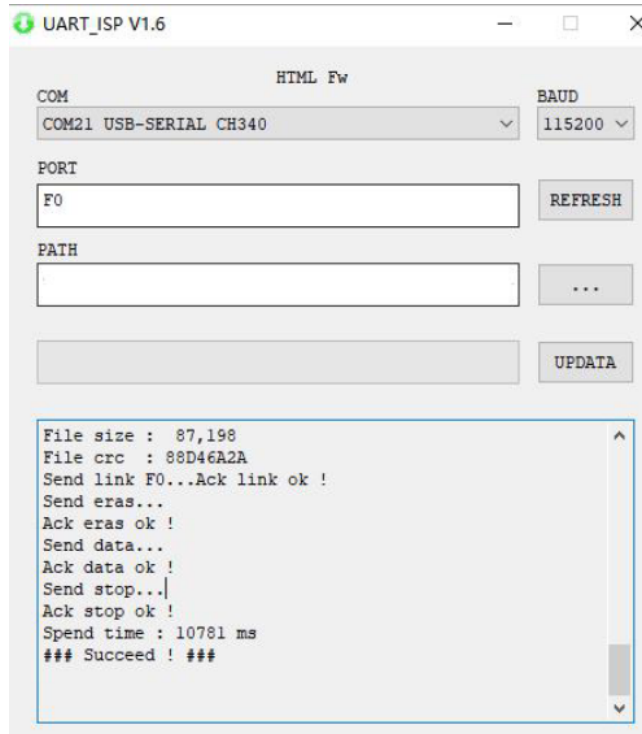
### 13.3 MCU Upgrade

Open the software UART\_ISP\_V1.6.exe on PC, select the correct port and baud rate 115200, enter "A1 01" in Port, then select the path of the program in PATH (XXX. Bin), and click UPDATA to complete the upgrade



### 13.4 HDMI (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



## 14. Maintenance

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

## 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 (18) Months”, 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 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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