



# **gofanco G4-0147A 8x8 HDMI Matrix 4K HDR Audio Extractor User Guide**

[Home](#) » [gofanco](#) » gofanco G4-0147A 8x8 HDMI Matrix 4K HDR Audio Extractor User Guide 



## **G4-0147A 8x8 HDMI Matrix 4K HDR Audio Extractor User Guide**



### **Contents**

- [1 G4-0147A 8x8 HDMI Matrix 4K HDR Audio Extractor](#)
- [2 Important Safety Notices](#)
- [3 Introduction](#)
- [4 Product Layout](#)
- [5 Hardware Installation](#)
- [6 Application Diagram](#)
- [7 Remote Control](#)
- [8 RS232 Command List Continued](#)
- [9 Firmware Update](#)
- [10 Specifications](#)
- [11 Documents / Resources](#)

### **G4-0147A 8x8 HDMI Matrix 4K HDR Audio Extractor**

Thank you for purchasing from geofence. Our products aim to meet all your connectivity needs wherever you go. For optimum performance and safety, please read the instructions carefully and keep this User's Guide for future

reference. If you need more information about our products, please visit [www.gofanco.com](http://www.gofanco.com). For technical support, email us at [support@gofanco.com](mailto:support@gofanco.com). For drivers or manual download, please go to [www.gofanco.com/downloads](http://www.gofanco.com/downloads).

## Important Safety Notices

Please read safety instructions carefully before installation and operation.

- Please pay close attention to all warnings and hints for this device
- Do not expose this unit to rain, heavy moisture, or liquid
- Do not put any items into the device or attempt to modify its operation
- Do not repair the device or open the enclosure without professional guidance to avoid electric shocks. Doing so may void your warranty
- Keep the product in a well-ventilated location to avoid damage from overheating
- Shut off power and make sure environment is safe before installation
- Do not plug the HDMI cables and IR cables in/out when the device is in use to avoid cable damage. Make sure they are plugged into the correct ports
- Use the included 12VDC power adapter only. Make sure the specification matches if using 3rd-party DC power adapters

## Introduction

The 8x8 HDMI Matrix 4K allows you to select and switch between any of the 8 HDMI source devices to display on any of the 8 HDMI outputs.

### Features

- Connect up to eight HDMI source devices and independently distribute any source to any of the eight HDMI displays
- Supports up to 4K@60Hz YUV 4:4:4 8-bit, HDR, HDR10, HLG, Dolby Vision, 3D, HDCP 2.2/1.4, 18Gbps bandwidth
- 8x HDMI inputs and 8x HDMI outputs
- 8x Analog audio inputs, 8x Analog audio outputs, 8x S/PDIF audio outputs
- Supports audio embedded and extraction
- Supports PCM 2.0-5.1 / 16-24bit / 32-192KHz, and Dolby True HD, Atmos, DTS-HD Master, DTS-X
- Control methods: Panel buttons, IR remote, RS232, IP, and Web GUI
- Supports Telnet, UDP, HTTP, and TCP/IP via Ethernet
- EDID management: Presets and EDID learning
- 1U Rack mountable
- Firmware upgradable via RS232 for expanded capability and compatibility

## Package Contents

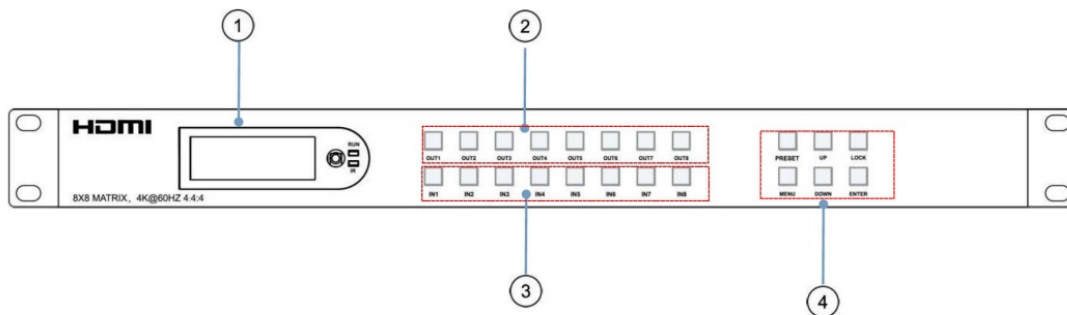
- 8x8 HDMI Matrix 4K
- IR remote control
- IR Receiver cable
- Software CD

- Phoenix plug
- Power adapter (12VDC/3A)
- User's guide

## Installation Requirements

- HDMI source devices
- HDMI displays
- Premium High Speed HDMI cables (not included)

## Product Layout



**Figure 1: Front Panel Layout**

1. **LCD screen:** Display the Matrix information
2. **Output selection buttons (1-8):** Press to select an output port
3. **Input selection buttons (1-8):** Press to select an input source
4. **Function Buttons:**

**Preset:** Press to add/select a preset configuration

**Up:** Press to select the previous menu item

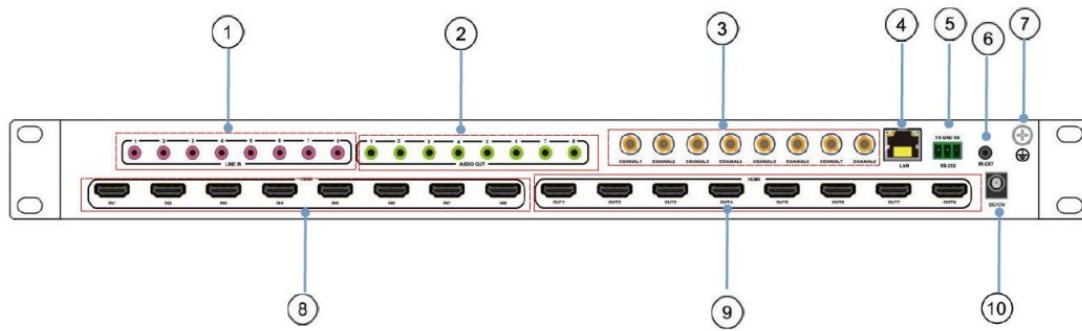
**Lock:** Long press to lock/unlock the Matrix

**Menu:** Press to activate the LCD's the main menu interface, press again to return to previous screen.

**\*Note:** When entering the main menu, press a button within 30 seconds, otherwise the LCD screen will return to the previous display and turn off within 60 seconds

**Down:** Press to select the next menu item

**Enter:** Press to confirm



**Figure 2: Rear Panel Layout**

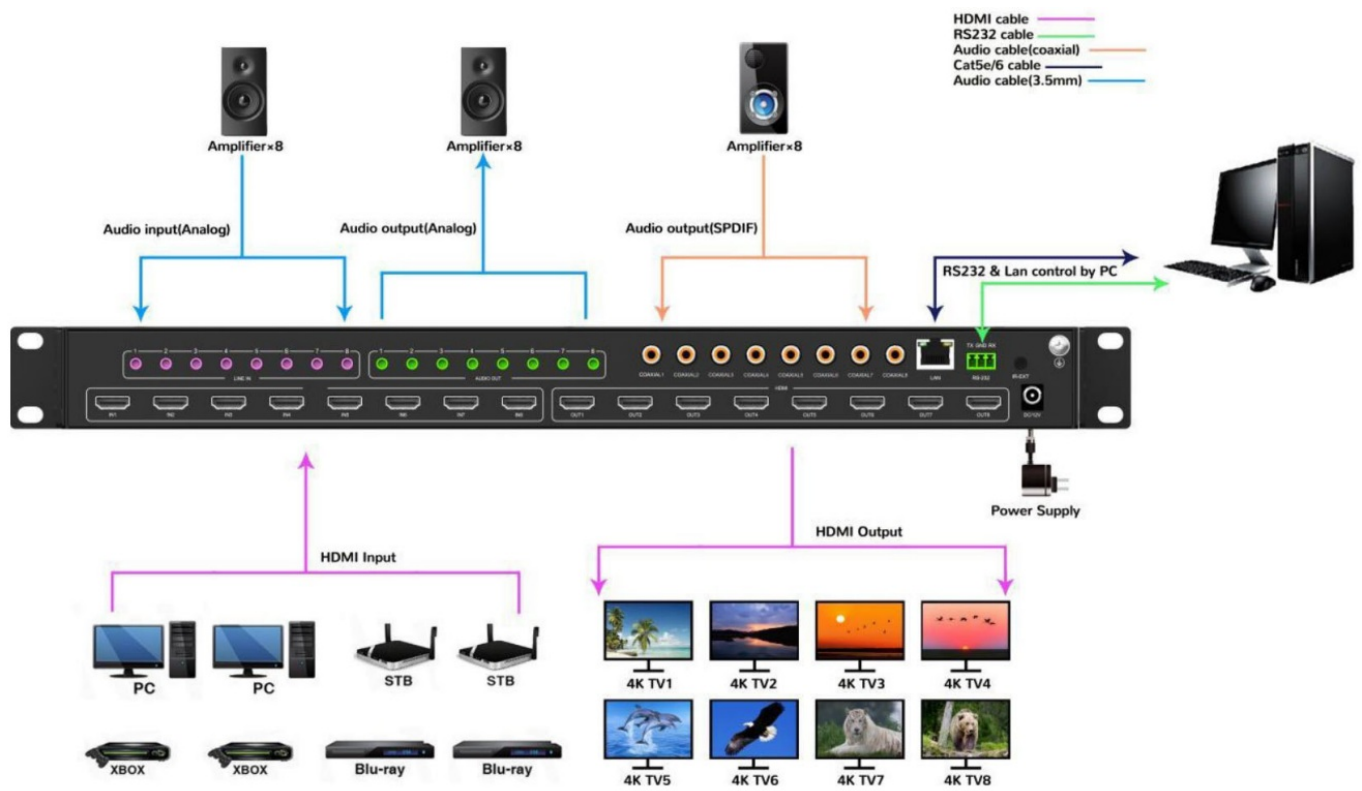
1. Analog Audio In (1-8): Connect to the analog output of your source device
2. Analog Audio Out (1-8): Connect to your speakers or headphones
3. SPDIF Out (1-8): Connect to your S/PDIF audio device
4. RJ45: IP or Web GUI control
5. RS232: Connect to your control PC
6. IR In: Connect to the IR receiver cable. This is required only if the front panel IR receiver window is blocked
7. Ground: Case grounding point
8. HDMI In (1-8): Connect to your HDMI source devices
9. HDMI Out (1-8): Connect to your HDMI displays
10. Power Jack: Connect to the included power adapter

## Hardware Installation

1. Power off all devices including your HDMI source(s) and HDMI display(s).
2. Connect your HDMI source devices to the Matrix 4K's HDMI Input connectors with HDMI cables (HDMI cables not included).
3. Connect your HDMI displays to the Matrix 4K's HDMI Output connectors with HDMI cables (HDMI cables not included).
4. Optional: Connect the included IR Receiver cable to the IR interface port. This connection is needed only if the front panel IR receiver window is blocked.
5. Optional: Connect an AVR amplifier or speakers to the S/PDIF output ports.
6. Optional: Connect the Matrix 4K's RS232 socket and your PC's serial port or a CAT cable between the Matrix 4K's RJ45 port and router or PC's ethernet port. This connection is needed only if matrix device control using a PC is required.
7. Plug the included power adapter into the Matrix 4K's Power Jack, then plug the power adapter into a reliable power outlet.
8. Power on all connected devices. The Matrix 4K is ready for use.

## Application Diagram

The application diagram shows the most typical input and output devices used with the 8x8 HDMI Matrix 4K.



**Figure 3: Application Diagram**

### Matrix Device Control

Input Selection and Output Selection Buttons

Use the Input selection buttons (see #3 on page 5) and Output selections (see #2 on page 5) to select and switch between any of the 8 source devices to display on any of the 8 displays.

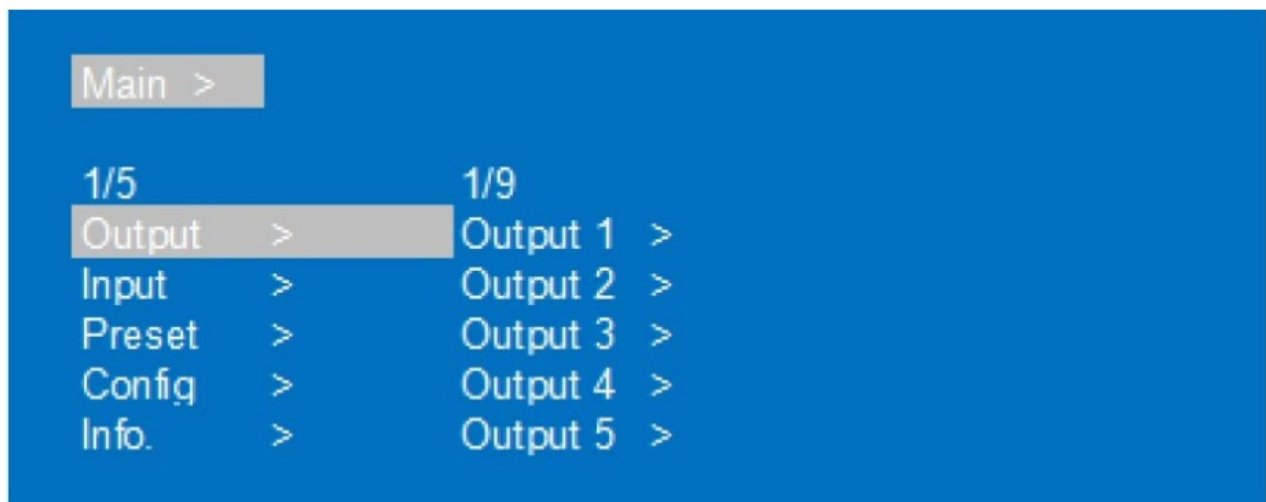
- Select an input source to display on an output port:  
Example: To select Input 1 source to display on Output 1 port – Press Output 1 button (see #2 on page 5), then press Input 1 button (see #3 on page 5).
- Select an input source to display on multiple output ports: Example: Select Input 2 source to display on Output ports 1, 2, and 3 – Press Output 1, 2, and 3 buttons (see #2 on page 5), then press Input 2 button (see #3 on page 5)
- Select an input source to display on all output ports: Example: Select Input 4 source to display on all Outputs – Long press Output 4 button (see #2 on page 5), then long press Input 4 button (see #3 on page 5)

### Menu

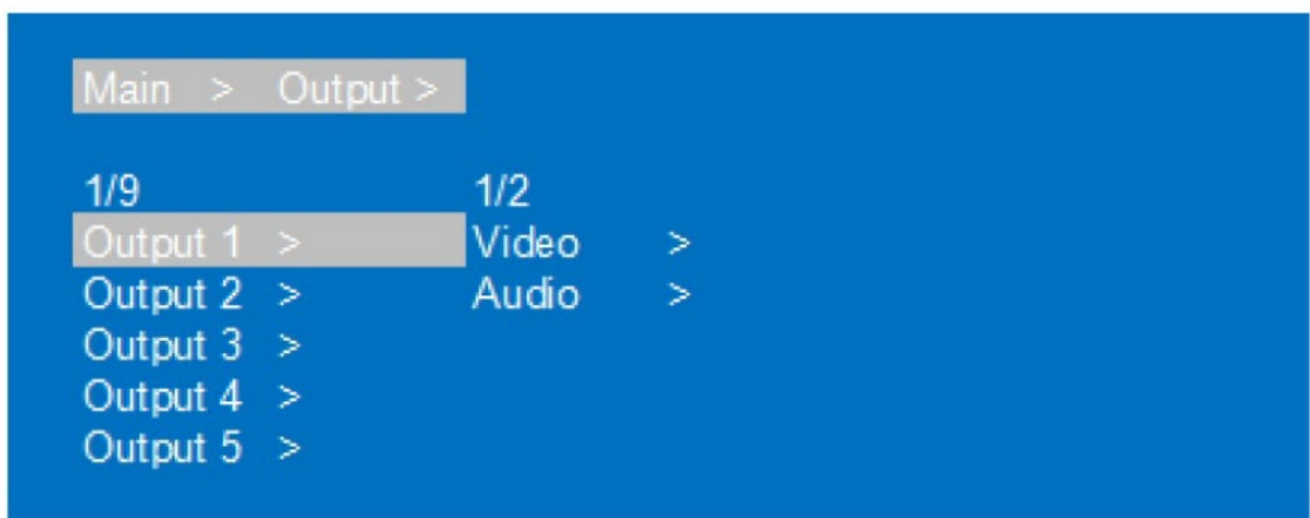
Allows you to control various aspects of your display device and source device.

### Output Signal Control

The output interface comprises of nine sub-menus Output 1-8 and All. It allows you to switch source device and/or turn off the audio of any output port.



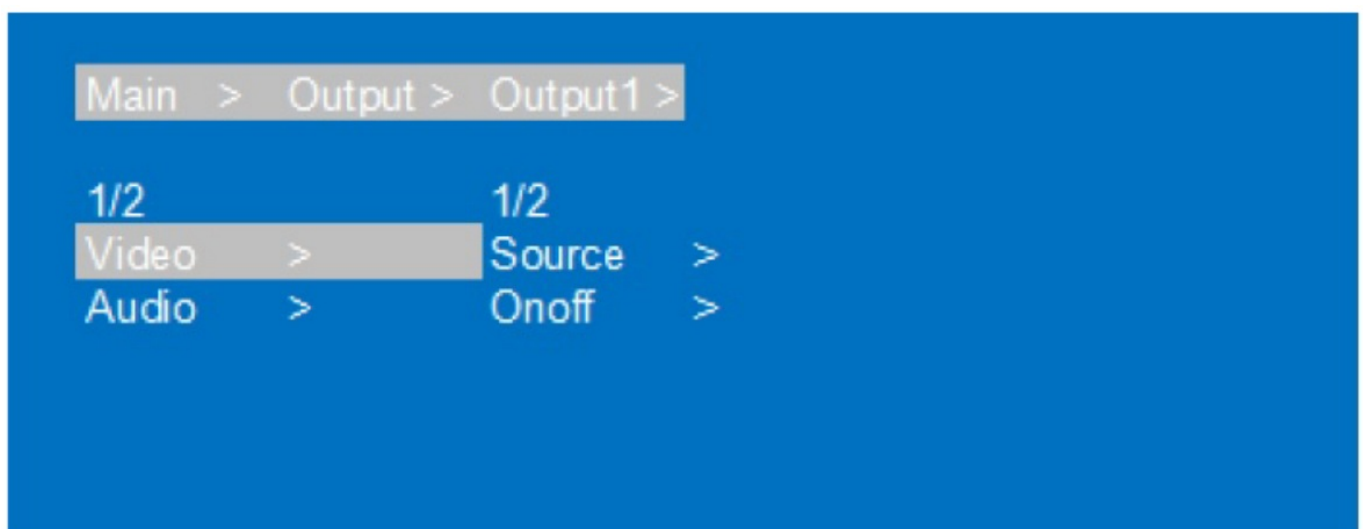
Output menu interface



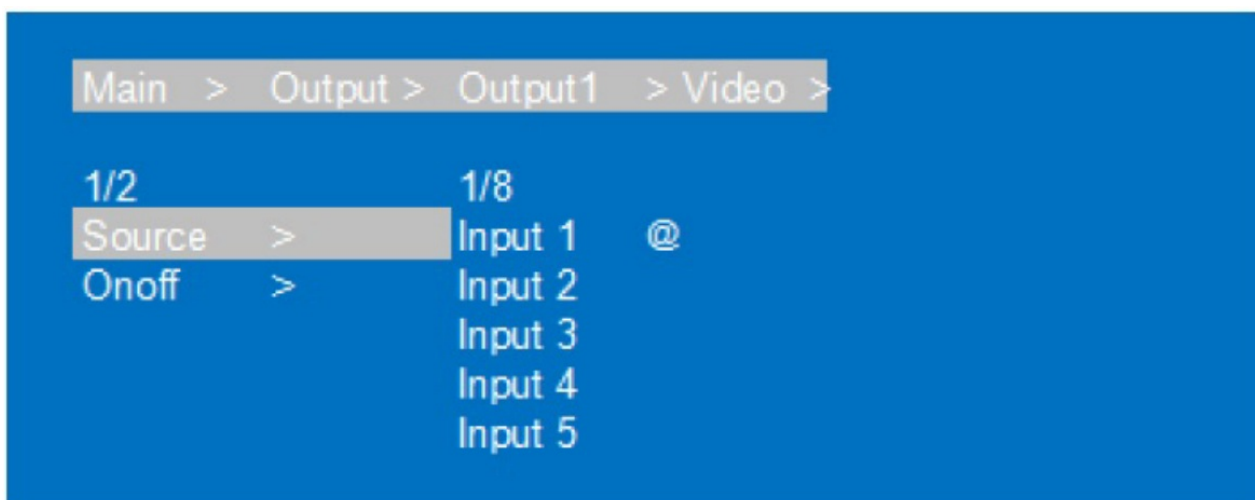
Output port menu interface

#### Video Switching

Example: Select Input 1 source to display on Output 1 port – Press the Menu button (see #4 on page 5) select Video, then press the Enter button (see #4 on page 5). Press the Up button (see #4 on page 5) or Down button (see #4 on page 5) to choose Source, then press the Enter button.

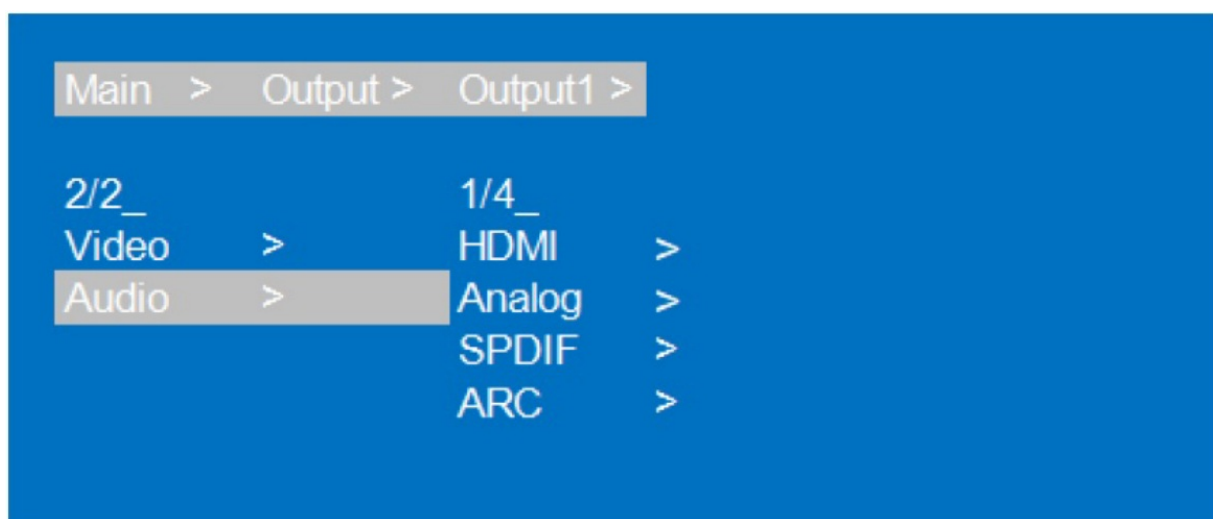


Press the Up button or Down button to select Input 1, then press the Enter button to complete.

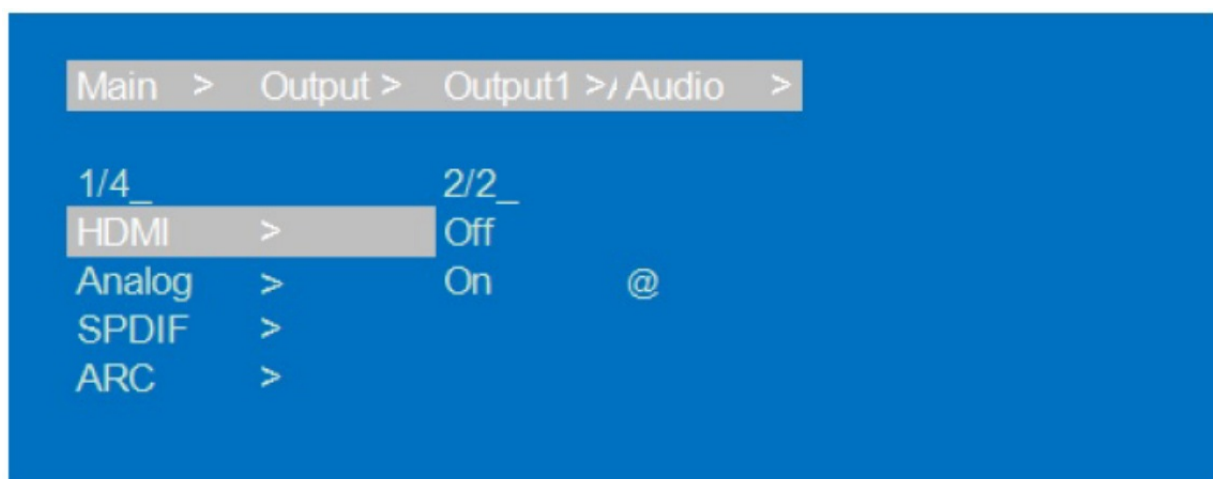


### Audio On/Off

Example: Turn off audio Output 1 port – Press the Menu button (see #4 on page 5) select Output, then press Enter button (see #4 on page 5). Press the Up button (see #4 on page 5) or Down button (see #4 on page 5) to choose Output1.



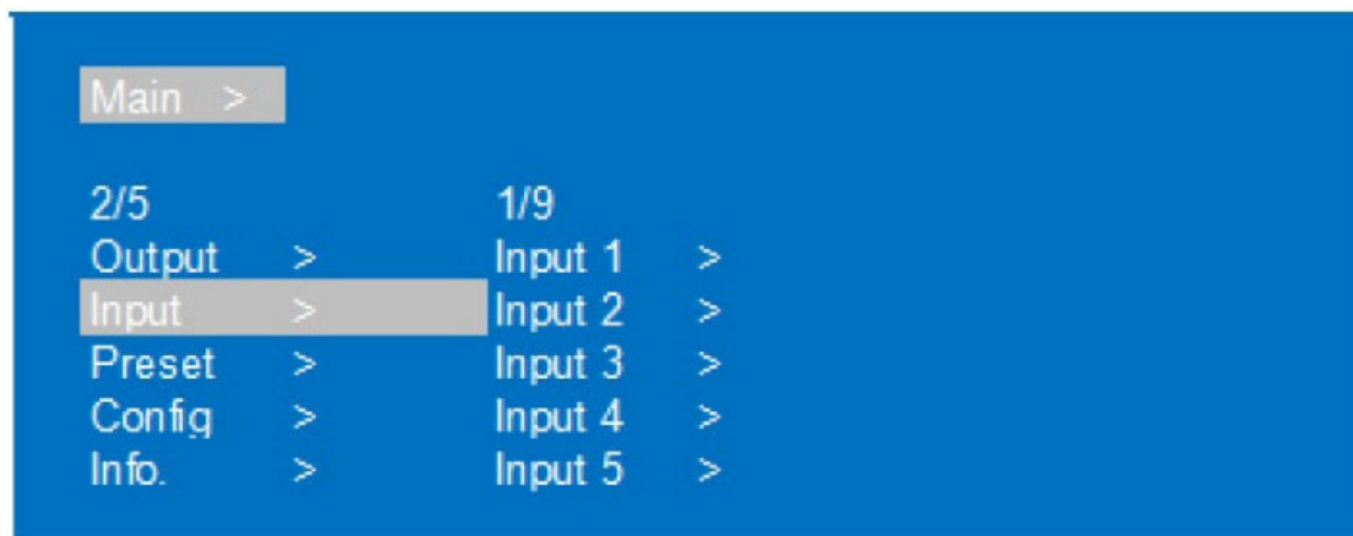
Press Enter button. Press the Up button or Down button to select Audio, then press Enter.



Press the Up button or Down button to select the mode HDMI, then press Enter. Press the Up or Down button to select Off.

## Input Signal

There are nine sub-menus, Input 1-8 and All.

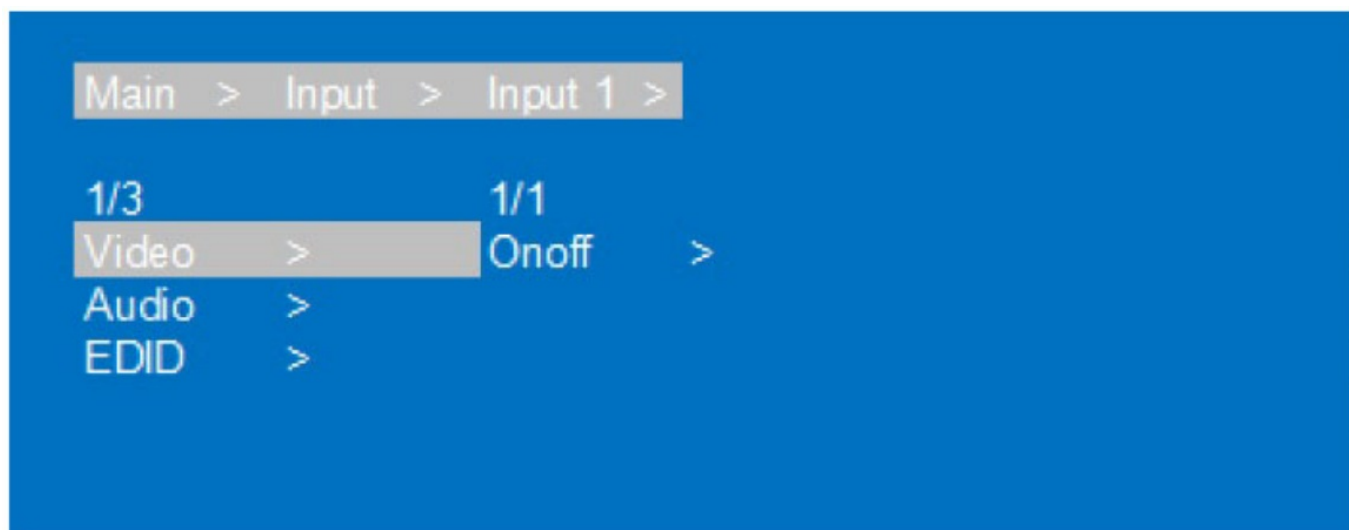


The 3rd level menu includes Video, Audio, and EDID settings.

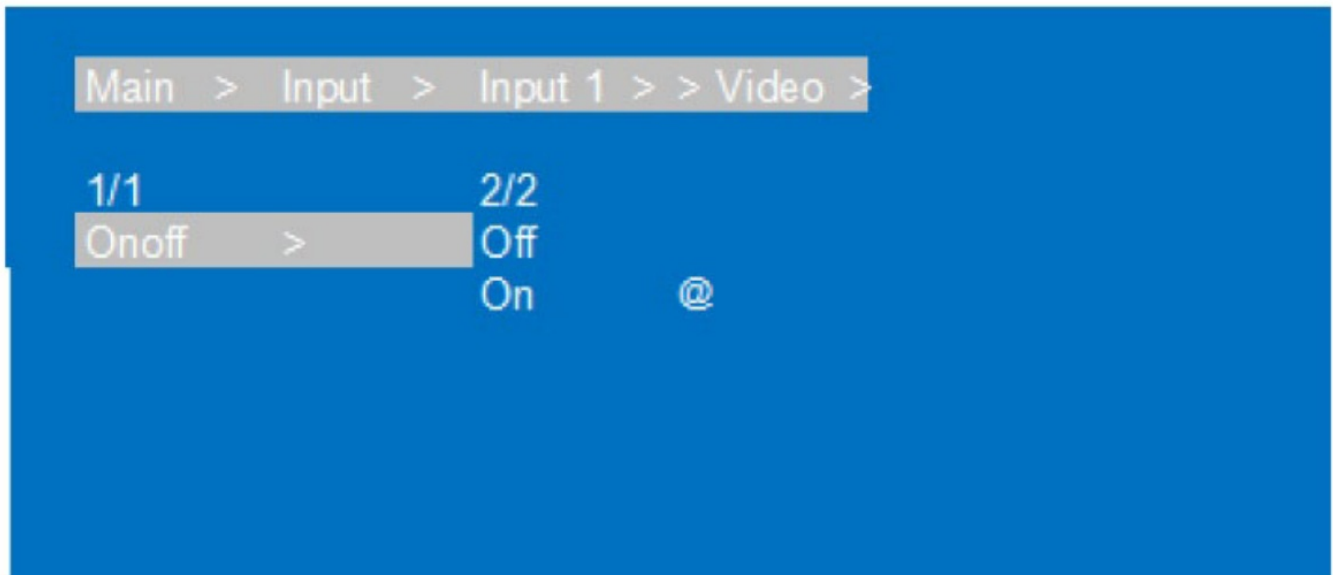


## Input Signal ON/OFF

Example: Turn off video of Input 1 – Select Input, then press Enter. Press the UP or Down button to select Input 1, then press Enter. Press the Up or Down button to select Video, then press Enter.

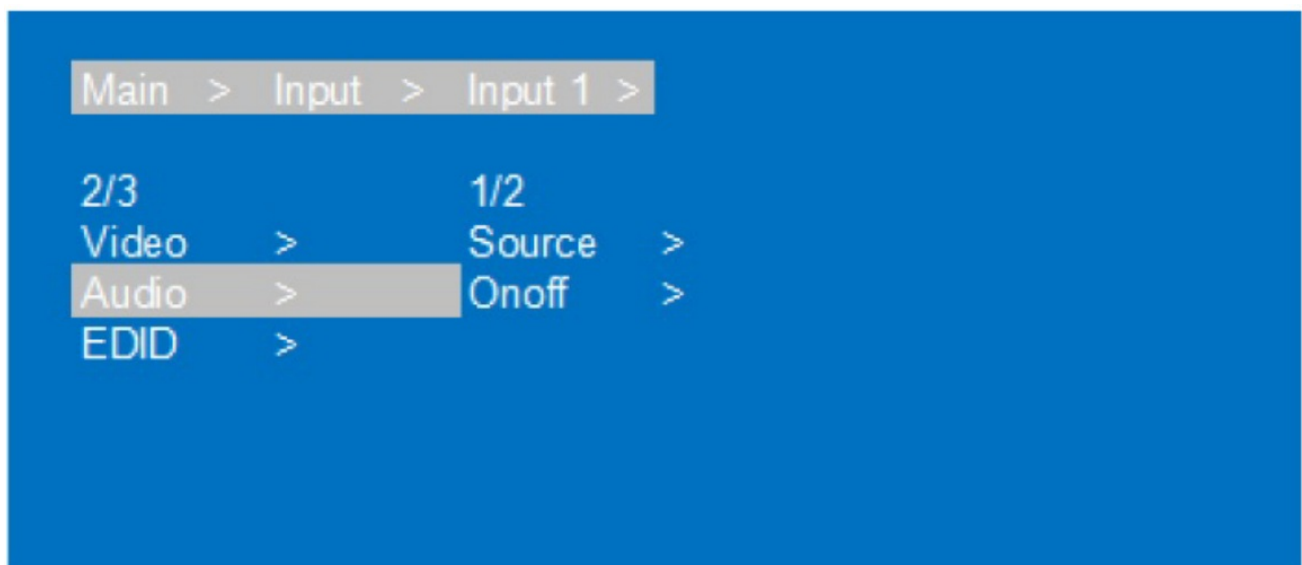


Select Onoff, then press Enter. Press the Up or Down button to select Off, then press Enter to complete.



### Input Audio On/Off and Select Audio Source

Example: Turn On or Off the Input 1 audio.



From the main menu select Input / Input 1 / Audio

Main > Input > Input 1 > Audio >

1/2		1/2	
Source >		HDMI	@
Onoff >		ENC	

Select Source / HDMI

Main > Input > Input 1 > Audio >

2/2		2/2	
Source >		Off	
Onoff >		On	@

Select Onoff / On or OFF, then press Enter.

#### EDID

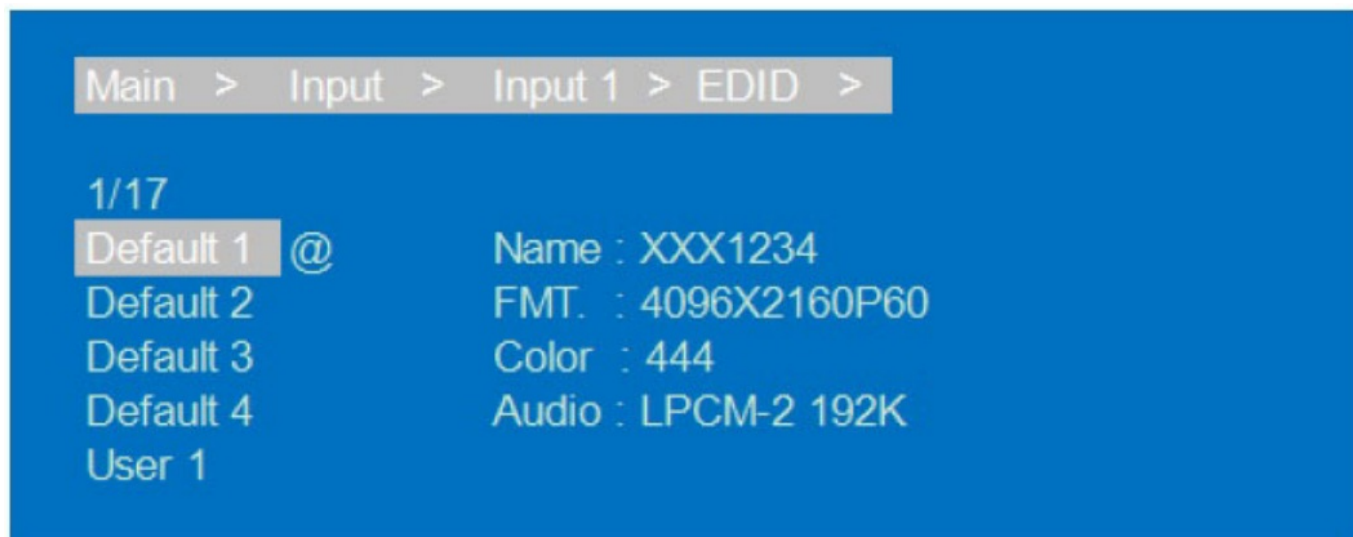
The EDID can be set to each Input. The Matrix is set to Default 1.

Example: Set Default 1 to Input 1 – Select EDID from the main Menu, then press Enter button.

Main > Input > Input 1 >

3/3		1/17	
Video >		Default 1	@
Audio >		Default 2	
EDID >		Default 3	
		Default 4	
		User 1	

Press Up button or Down button to select Input 1, then press Enter button.

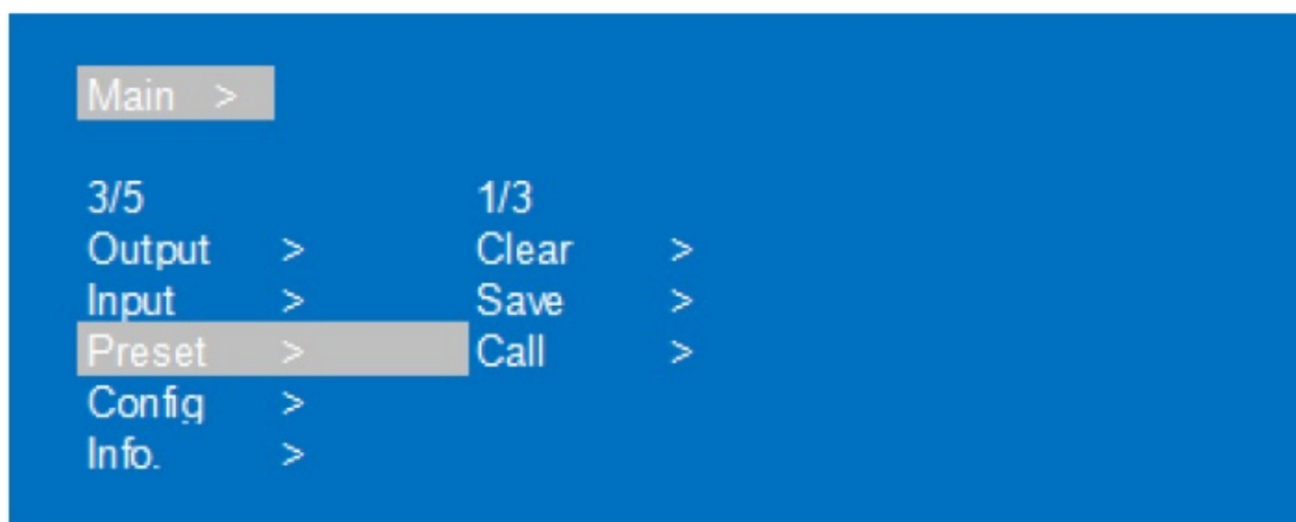


Press Up button or Down button to select Default 1, then press Enter button.

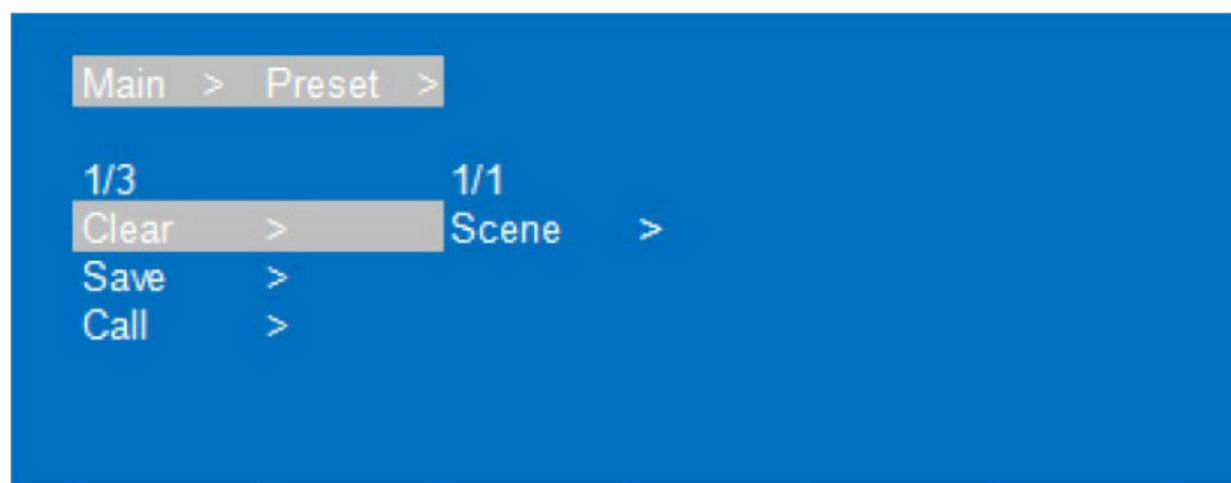
### **Presets**

Allows you to save, select, or delete presets. Supports up to 8 different presets.

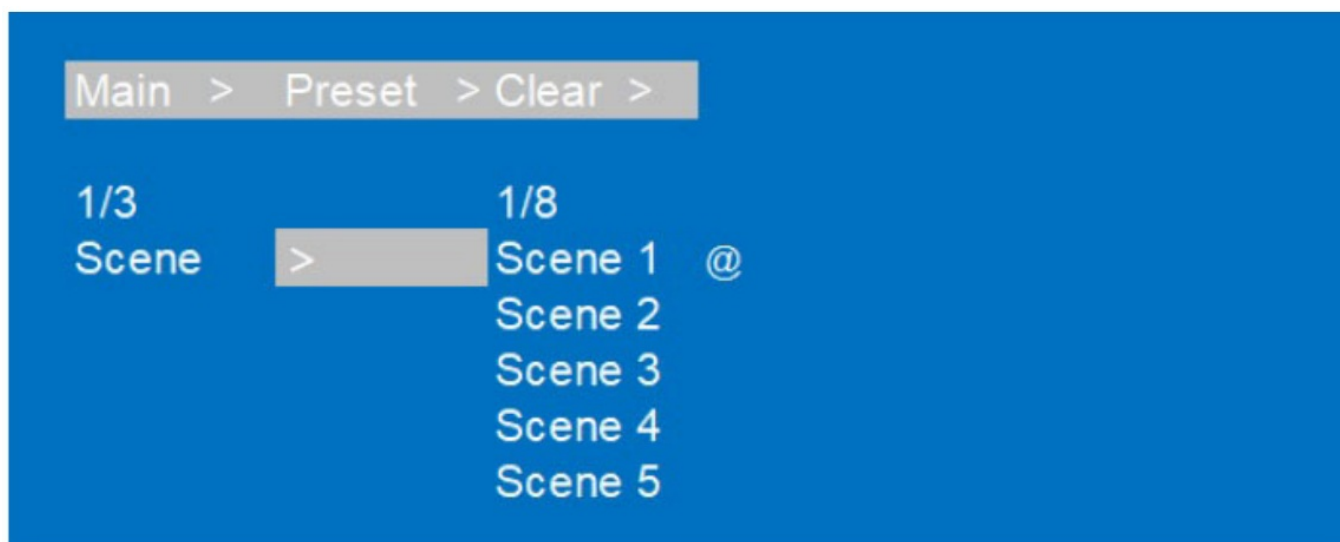
Example: To delete Preset 1 – From the main menu, select Preset, then press Enter.



Select Clear, then press Enter.

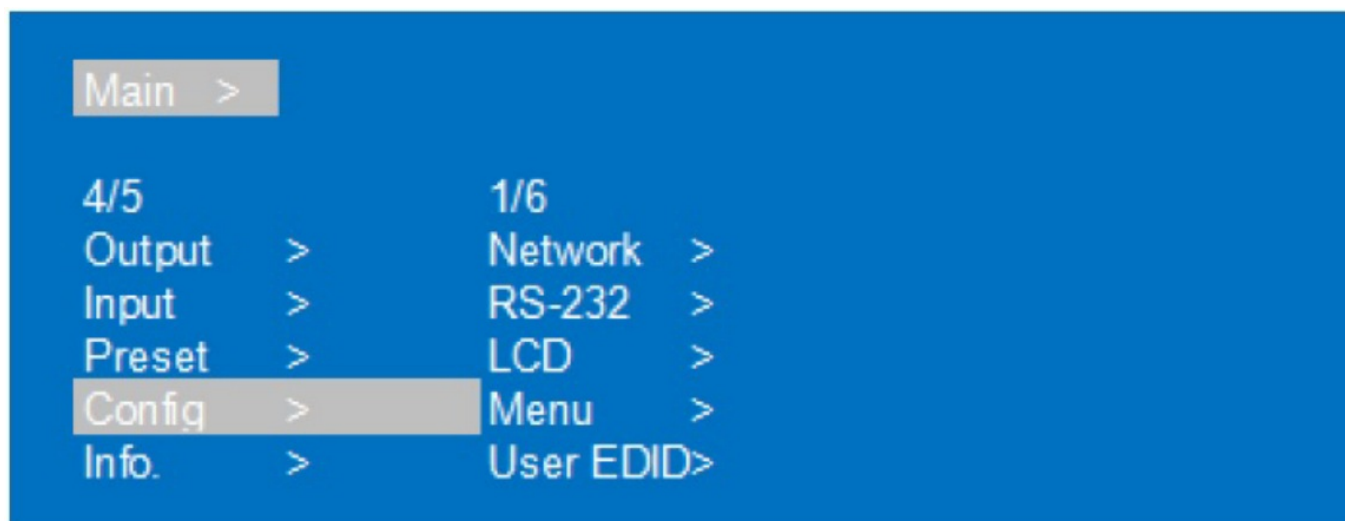


Select Scene 1, then press Enter.



### System Configuration Interface

Allows you to set Baud rate, DHCP, reboot, and restore factory settings.

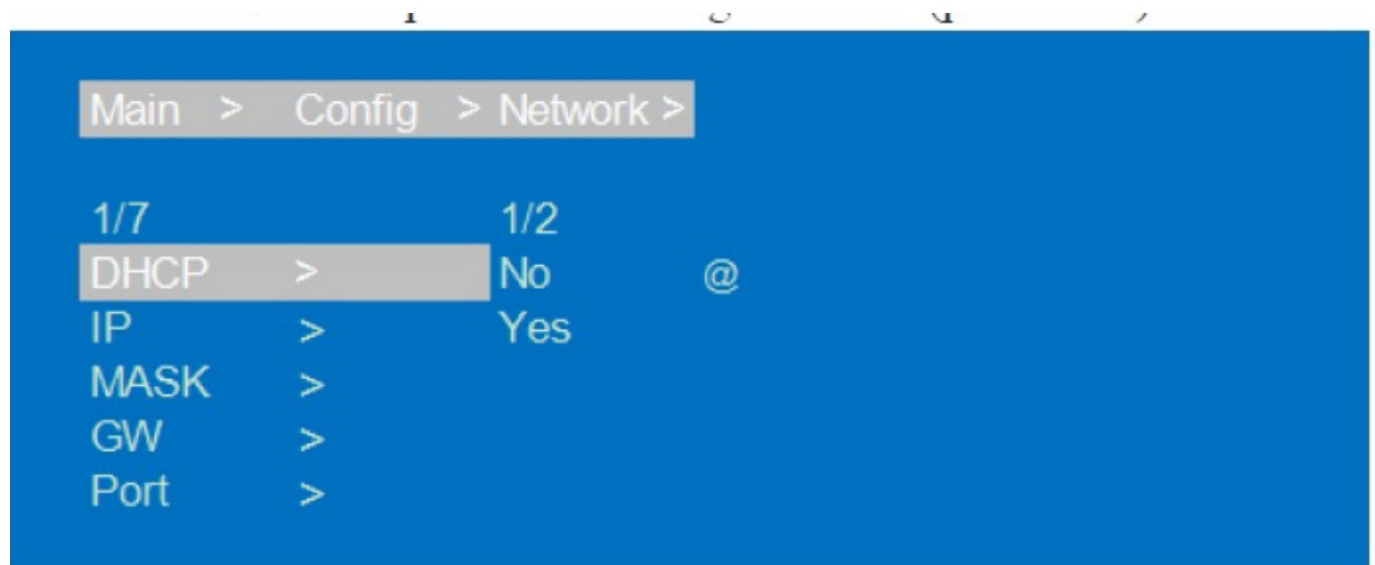


Network



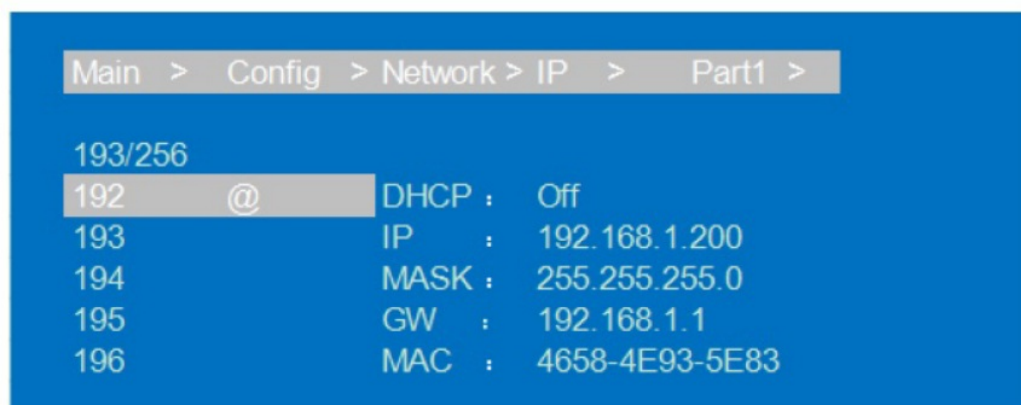
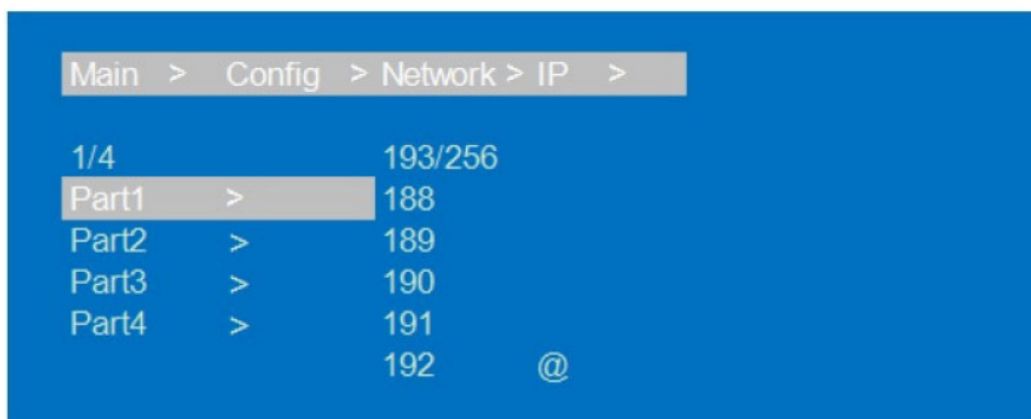
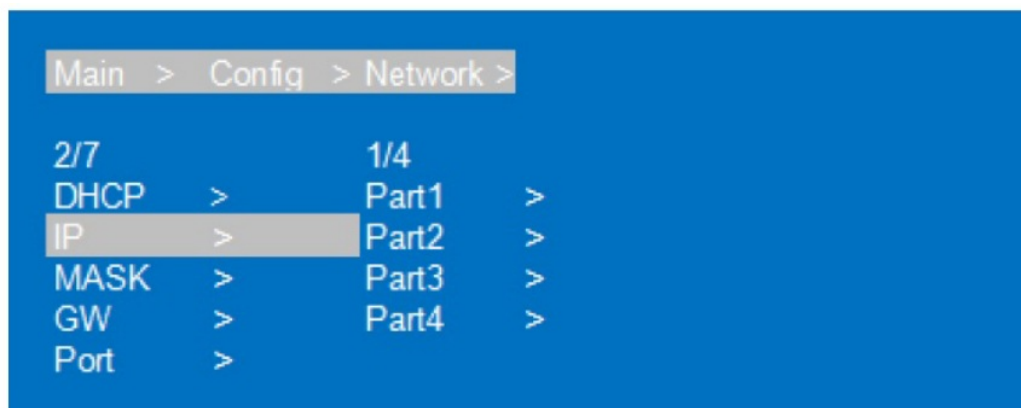
## DHCP

Default setting: Off



## IP

Displays IP address, Mac address, and DHCP status.



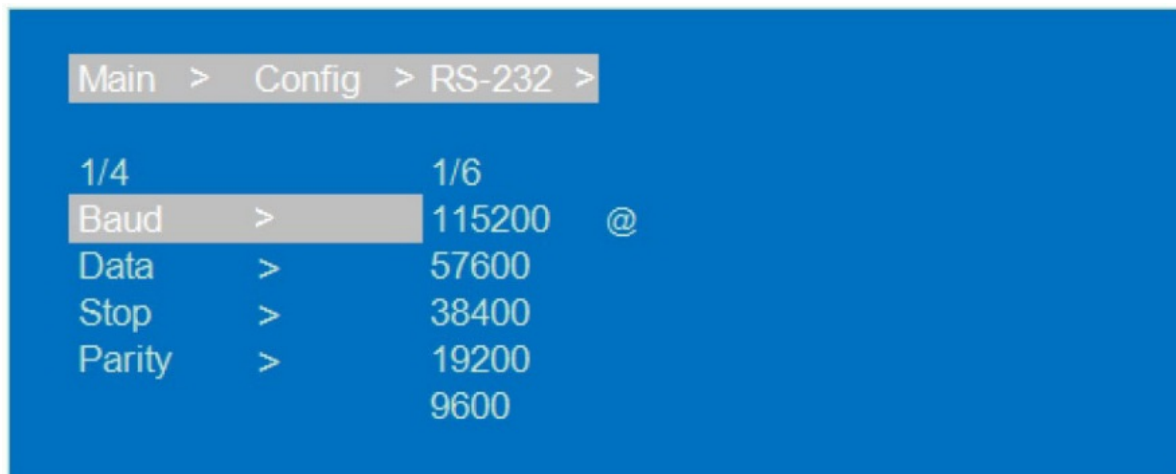
## RS232

Configure RS232 settings.

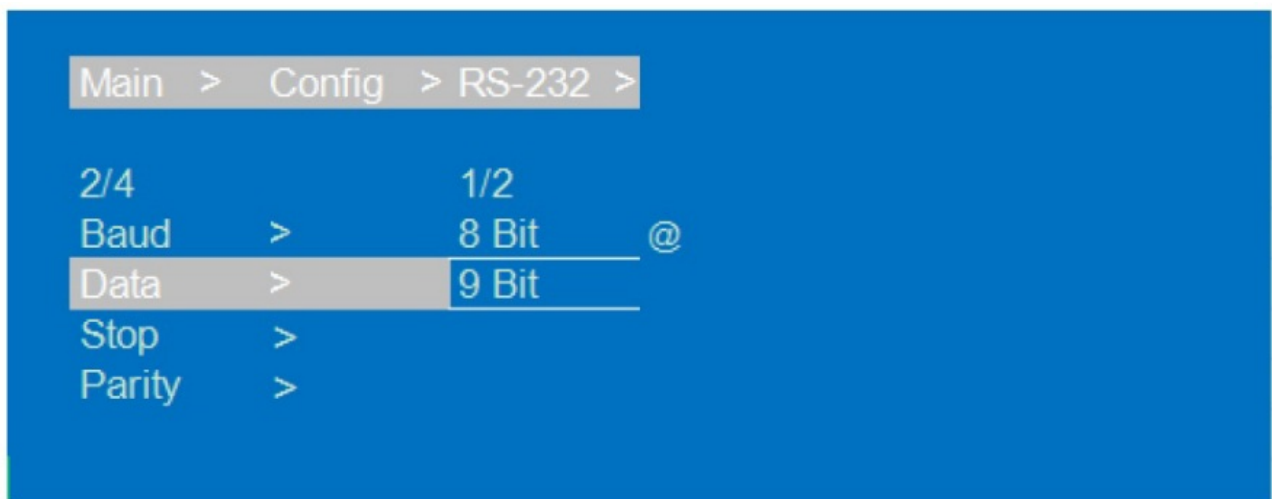
From the Main menu, select Config / RS232.



## Baud Rate

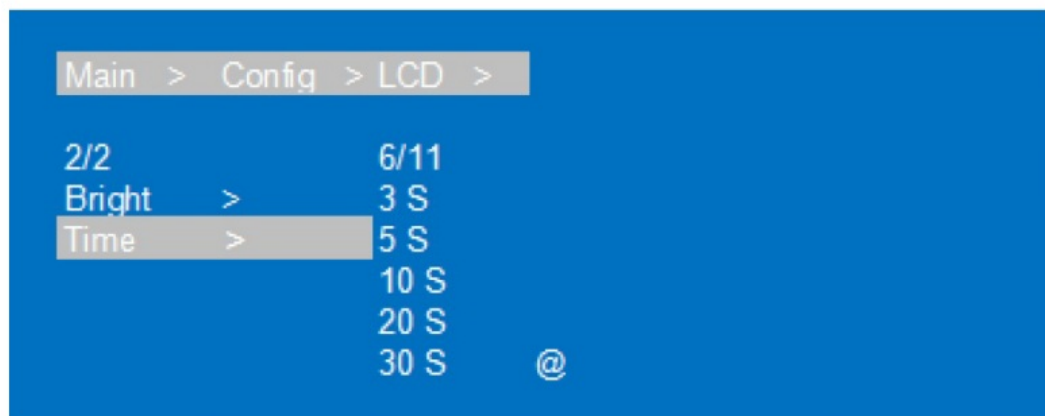
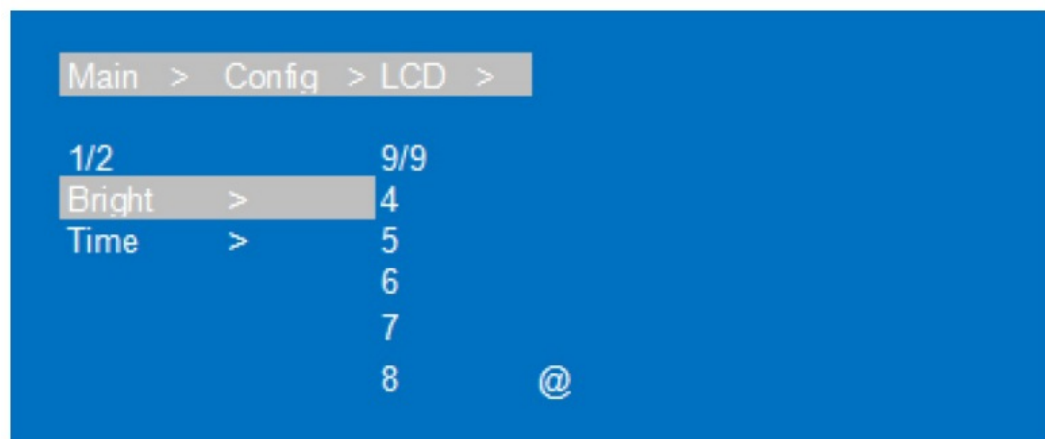
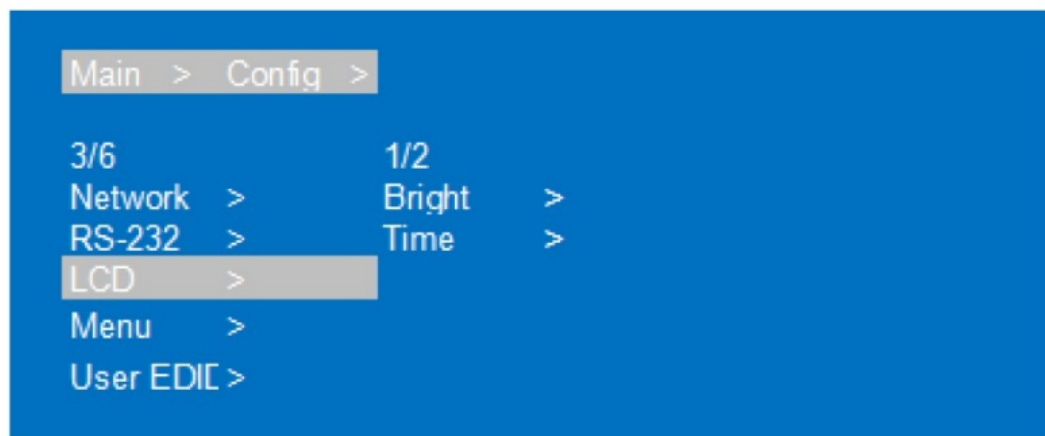


## Data Bit



## LCD Screen

Change LCD screen brightness and screen standby time.  
Brightness is 8 and standby time is 30 sec by default.

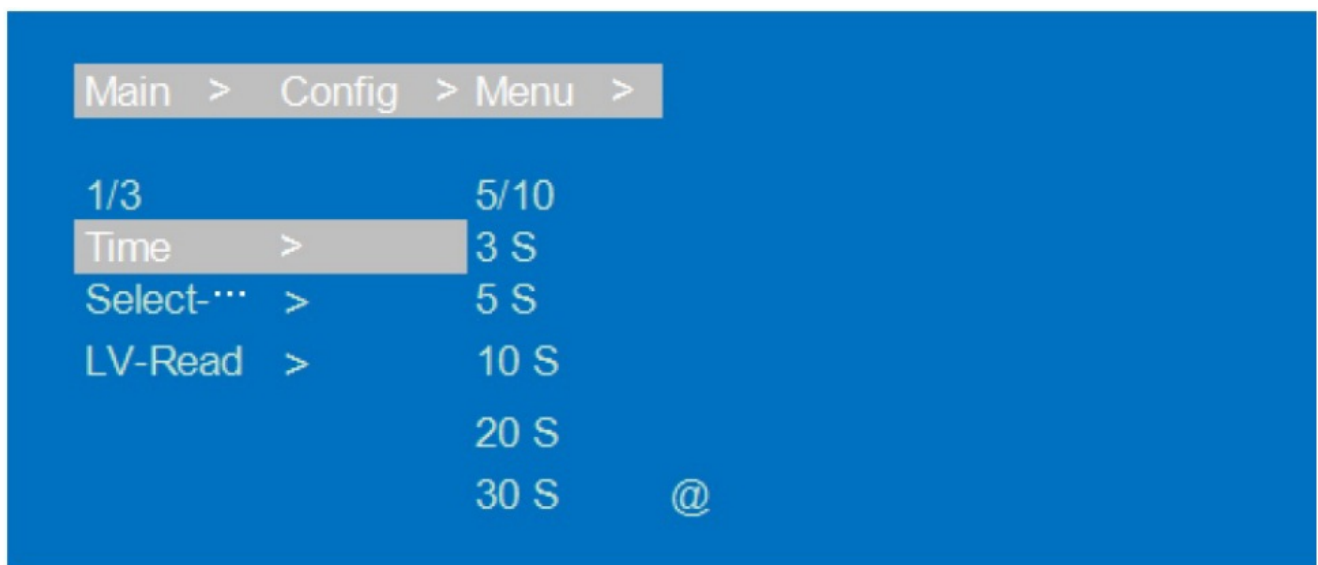


### Menu Setting

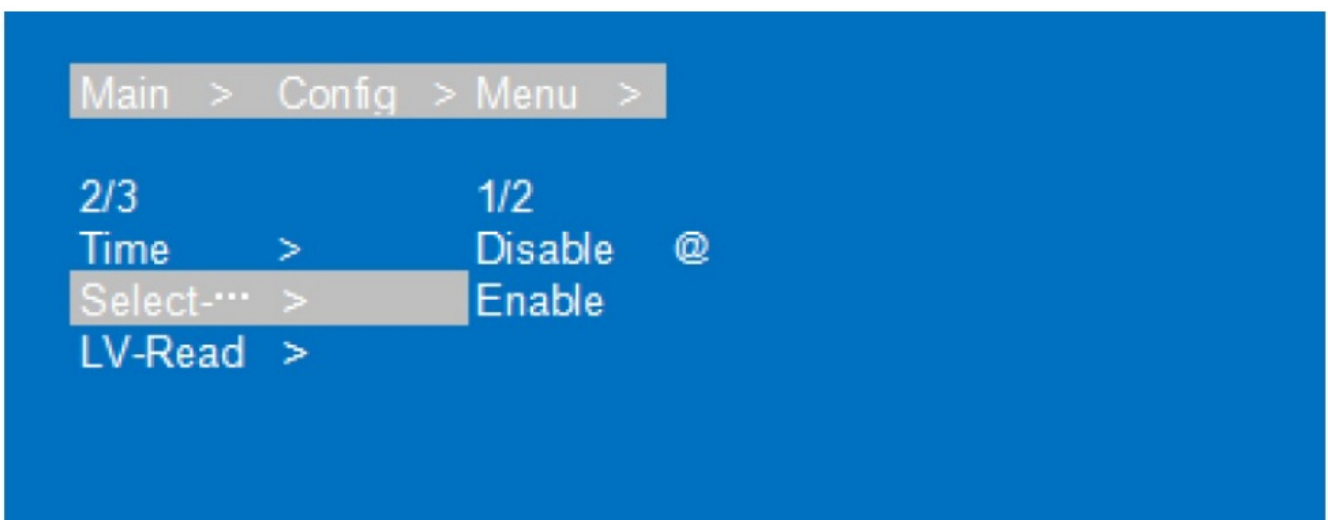
Configures the menu settings.



Select time: Default 30 seconds



Select-run: Default Disabled



#### User EDID

Save default EDID, output EDID and temporary EDID to a User.

Example: Select a Default EDID for User 1 – From the main menu, select Config press Enter. Select User EDID, press Enter. Select User 1, press Enter. Select Default 1, press Enter.

Main > Config >

5/6		1/5	
Network	>	User 1	>
RS-232	>	User 2	>
LCD	>	User 3	>
Menu	>	User 4	>
User EDID	>	ALL	>

Main > Config > User EDID >

1/5		1/13	
User 1	>	Default 1	@
User 2	>	Default 2	
User 3	>	Default 3	
User 4	>	Default 4	
ALL	>	Output 1	

Main > Config > User EDID > User 1 >

1/13		
Default 1	@	Name : XXX1234
Default 2		FMT. : 4096X2160P60
Default 3		Color : 444
Default 4		Audio : LPCM-2 192K
Output 1		

Main > Config >

6/6

RS-232 >

LCD >

Menu >

User EDID>

System >

1/3

Reboot >

Timing >

Factory >

Reboot: Default Setting No

Main > Config > System >

1/3

Reboot >

Timing >

Factory >

1/2

No @

Yes

Timing: Default Setting Endless

Main > Config > System >

2/3

Reboot >

Timing >

Factory >

1/2

Off >

On >

Timing: Default Setting Endless

Main > Config > System > Timing >

1/2

19/19

Off >

1 D

On >

2 D

3 D

7 D

Endless @

Factory Reset: Default Setting No

Main > Config > System >

3/3

1/2

Reboot >

General >

Timing >

User >

Factory >

Main > Config > System > Factory >

1/2

1/2

General >

No @

User >

Yes

Reset Range

Main > Config > System > Factory > General >

1/2

No @

Yes

Reset range:

Run Setup

#### Device Information

Displays Input, Output, and System information.

Main >

5/5

Output >

Input >

Preset >

Config >

Info. >

1/4

Input >

Output >

System >

LOG >

Choose Input 1

Main > Info. >

1/4

Input >

Output >

System >

LOG >

1/8

Input 1

Input 2

Input 3

Input 4

Input 5

Input 1 Status: Link Unconnect

Main > Info > Input >

1/8

Input 1

Link : Unconnect

Input 2

Input 3

Input 4

Input 5

Choose Network Choose Input 1

Main > Info >

3/4

Input >

Output >

System >

LOG >

1/3

Device

Versions

Network

Network Version

Main > Info > System >

2/3

Device

Versions

Network

MCU : V0.0.6

Web : V0.0.7

Date : 2021-12-16

Time : 15:37:38

Network Status: DHCP, IP, Mask, Gateway, Mac address

Main > Info > System >

3/3

Device	DHCP:	Off
Versions	IP :	192.168.1.200
Network	MASK:	255.255.255.0
	GW :	192.168.1.1
	MAC :	4658-4E93-5E83

Log: Run time, Startup time, Operating time, Errors

Main > Info. >

4/4	1/1
Input >	Common
Output >	
System >	
LOG >	

Main > Info. > LOG >

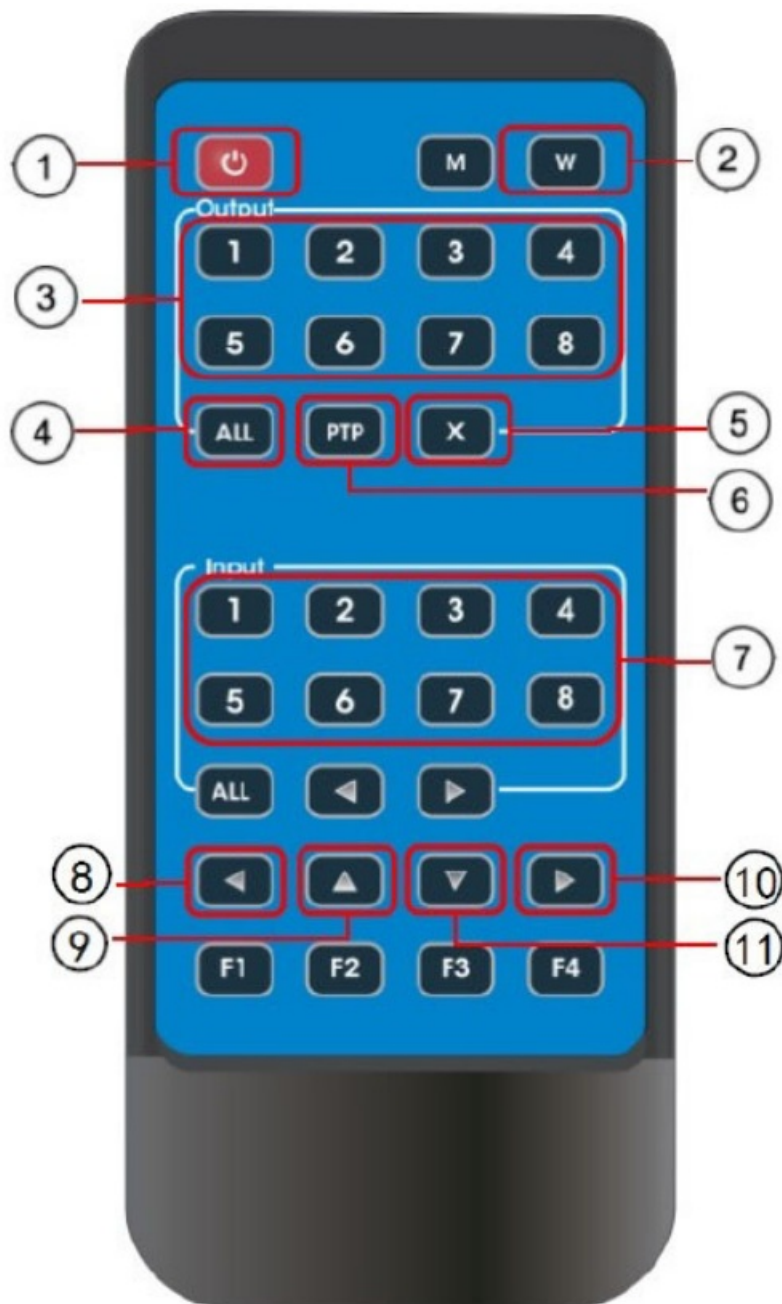
1/1

Common	Time : 2D 16:29:52
	Boot : 36
	EXE : 5934
	ERR : 0

## Remote Control

Users can control the 8x8 HDMI Matrix 4K using the included IR remote. Point the remote control towards the built-in IR receiver window located on the front panel.

An optional IR receiver cable is included to improve IR function in space constrained installations.



**Figure 4: Remote Control**

1. Standby: Press to place the Matrix in standby mode.  
Press again to wake up the Matrix
2. Lock: Press to lock the remote control. Press again to unlock the remote control
3. Output select (1-8): Selects an input source to display on an output port. Example: To select Input 1 source to display on Output 1 port – Press Output 1 button (see #3), then press Input 1 button (see #7)
4. All: Selects one input device to display on all outputs. Example: To select Input 2 source to display on all outputs – Press All button (see #4), then press Input 2 (see #7)
5. X: Turns off an output port. Example: To turn off display on Output 1 – Press Output 1 button (see #3), then press X (see #5). To turn on the display, press Output 1 + X again
6. PTP: Press to assign all inputs and outputs to their numeric counterparts. Example: Input 1 to Output 1, Input 2 to Output 2, Input 3 to Output 3, Input 4 to Output 4, Etc....
7. Input select (1-8): Press to select Input 1/2/3/4/5/ 6/7/8
- 8-11. Left/Up/Right/Down: Menu control buttons. Navigate the menu options

## EDID Management

The 8×8 Matrix includes 4 EDID modes: Default EDID, User EDID, Output EDID, and Temp 1. The factory default is 4K60Hz 4:4:4 2Ch.

IDID MODE	EDID ladde	EDID
Default EDID	0	4096×2160(4 60444 HLG 2C11(default)
	1	409682160@60-420 HLG 2CH
	2	4096,r2160(030-444 KW 2CH
	3	1920x1080P@120-444 Mk 201
User EDID	4-7	User EDID is set by user with memory function,power-off
		new EDID will auto-cover old EDID.
Output EDID	8-13	Copy output 1-8 ports' EDID with storage function. without power-off memory
Tempi	24	Temporary EDID

## RS232 Control

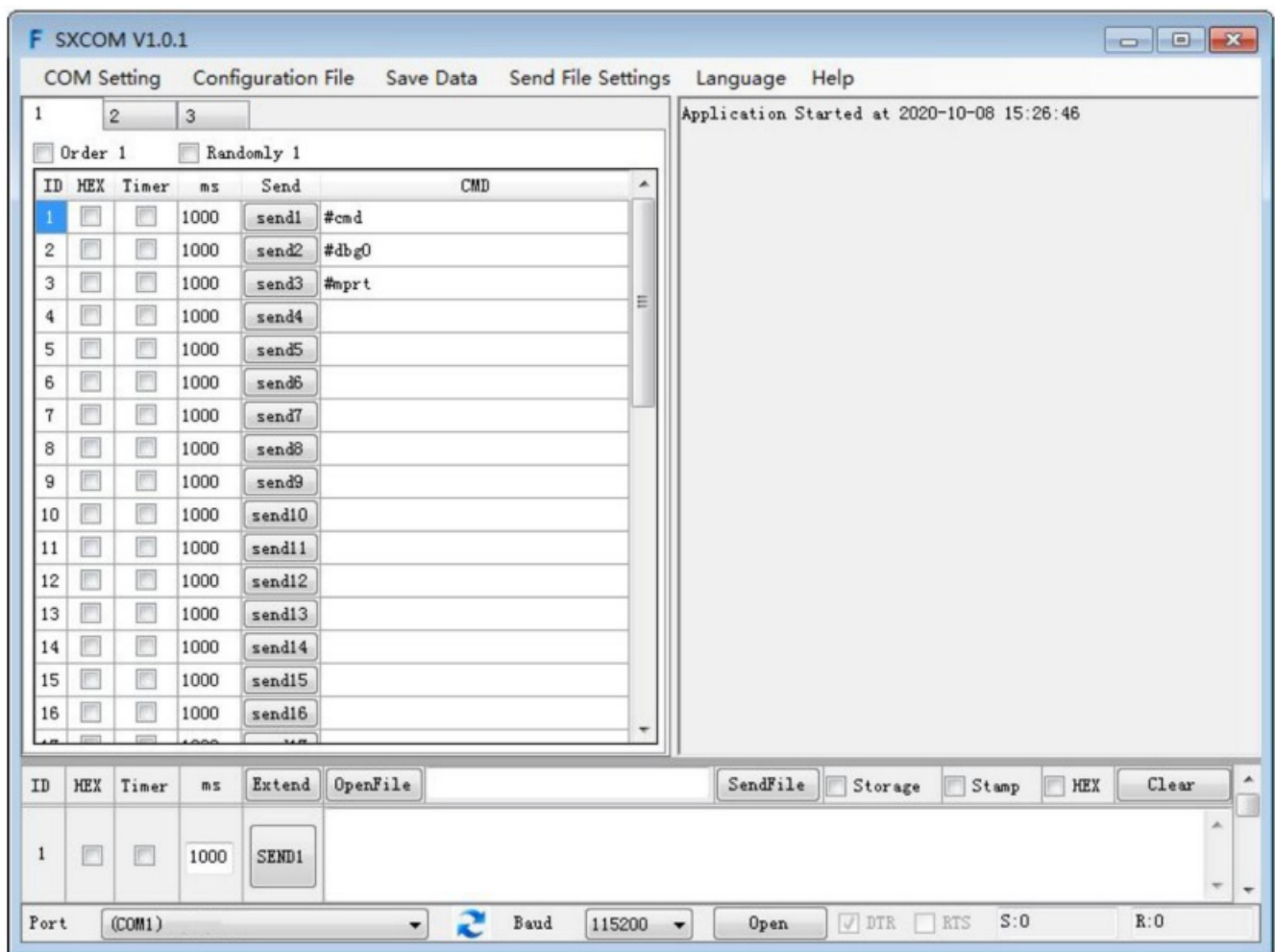
Connect the 8×8 HDMI Matrix 4K to a PC using an RS232 cable.

COM Port Setting

Baud Rate:	115200 bps
Parity:	None
Data Bits:	8 bit
Stop Bits:	1 bit

## Software Control

Open the software in the included software CD and the control window appears as shown below. In COM Setting, select the PC's COM port and click Connect.



## RS232 Command List

- All commands start with “#”.
- Do not omit the “\_”.
- Add a space to Command head, Parameter and target

In.	Fast 0”.		”11.
Ina 01 es, ‘	Yea	L a*	
fusion	/sink oil litstrociNes		
lumper l	scat beck gill SO Isotrlxtioas		
TP10	at	ria”	NI.
lied of Tarsio	asi4/o.14	4: 4.1.	
hate 1	iink.4	0 7: *slanted Kit 1;; ell toots	
fore: 2	int..’ )i)	T:fesigoaied pan 2.3.441 1 posts	
sweater 1	nantrin1	17: lival thisswls	
Marts 2	until-14	-7: aeons oolpti off l: arms gen., 04^.	
lutino	inning ctrl, asini		

bawls. l	*silty d oat:: snattel output 3 elect nein :		
(mapl• 2	svidmill aatteSconff 44 41 ostme. off		
IMO	forgot	Data	ash
Minya of cassis	enatlin...	1: alio	
target l	1 int..1	9 7: desieno1.1 0441 :SS all pone	n: r warier 1.2
bagel 2	:sad	11:4.1ps1iid port .14:oll post.	interior 3.46.6
Pinsostiit l	neocons	3:i.cat wlegt =1 same assilo 1 ninsat solott ...Tenni Vales wind audio	
west, 2	emrt,4l	-): law part ....Moot! l: lopst past AWb on	
insister 3	arc461	-1:61( off l :AN ea	
mossier l	ldsi Ad	0:valorn IV video off 1:ealpgi 1Y video as	
**garter 3	kirid	1:i:dialog ots110 ostrott los off L:faslog ssal o ...Trott is a	
tava..m- 6	split id	0:11141tal alto email la off 1:114411.1 audi o citron ls on	
tux tian	naps% Mips synth		
(unpin 1	Sastliod nil 6.1014/ 111n1 imtput 3 por1: 11111 who off.Inolog alio *Unwise on		
Insole 2	Yogi* 4 113 amen 111/14 1 die whist Ethel -die		
In.	fat	DM	bale
Siva at •...., b	L.11.41.	4:tin	
faggot 1	•Adtll	0.7:deoloaled pin AS:all pats	
faint 2		)t:dnigoote4 user :SS: all son	
taste, l	,nest Ad	0 3:4efooll 1.7:am. •CIS:sinowl 16-=: bon •••—	
function	s.-1 16. MID ci as *Aare		
Maple 1	Sal144 IRO space' tin eigen l. 11/1D opt ores l		
/maple 2	%414 4 snarl scarce,. ...1 owe: • • BUD roar Inn. nor 11111 has pnersoff anary(ford to ri ms.. nano [DID. Ille 11:110 of tow is eery slam 11 l. pref.' an. fat rot canonize bl :oolitic As ffilD. in 1110 'Iowa On serial fat		
Ins	rout	Dot•	Relet
lest of cads	Gernot	-.thing	
besot l	outside	3 7:Alesisestriacs	

## RS232 Command List Continued

parameter 1	exe=%d	0:Clear to factory Settings 1:Save the current state to this scene 2:Call this scene to the current state	
Function	scene setting instructions		
Example 1	#preset scenel exe=1 save the current state to scene 2		
Type	Format	Data	Rule
Head of commands	#name	nothing	
Target 1	input%d	0 7:designated input	MAX 19 characters
Target 2	output%d	0 7:designated output	MAX 19 characters
Target 3	scene%d	0 7:designated preset scene	MAX 19 characters
Target 4	system%d	0:company name 1:product name 2:device software version 3:website 4:email 5:telephone number	MAX 31 characters
parameter 1	str=%l,3ls	Visible character: input character No character means clear	MAX 19 characters
Function	Naming custom		
Example 1	#name input1 str=apple_tv change input 2's name to apple_tv		
Example 2	#name output2 str= clear output 3's name		
Type	Format	Data	Rule
Head of commands	#power	nothing	
parameter 1	shut=%d	>=1000000: cancel timing shutdown 1'x:timed shutdown time, unit:second	
parameter 2	start=%d	>=1000000:cancel timing boot 1'x:timed boot time, unit:second	
parameter 5	help	nothing	Used to check the timing shutdown, timing boot and set auto-sleep time
Function	set timing shutdown and timing boot		
Example 1	#power shut=0 standby mode		
Example 2	#power shut=3600 start=7200 Use the current time as a reference, Device'll shutdown after 3600 seconds (1 hour) , Device'll boot after 7200 seconds (2 hours)		
Type	Format	Data	Rule
Head of commands	#network	nothing	
parameter 1	dhcp=%d	0:DHCP off 1:DHCP on	
parameter 2	ip=%d.%d.%d.%d	0`255:IP address	input value 1
		0`255:IP address	input value 2
		0`255:IP address	input value 3
		0`255:IP address	input value 4
parameter 3	mask=%d.%d.%d.%d	0`255:Subnet Mask address	input value 1
		0`255:Subnet Mask address	input value 2
		0`255:Subnet Mask address	input value 3
		0`255:Subnet Mask address	input value 4
parameter 4	gw=%d.%d.%d.%d	0`255:Gateway address	input value 1
		0`255:Gateway address	input value 2
		0`255:Gateway address	input value 3
		0`255:Gateway address	input value 4
parameter 8	port_tcp=%d	1 65534:TCP port number	
parameter 9	port_udp=%d	1 65534:UDP port number	
parameter 10	device=%15T	Capital letter, number:web page,device name	MAX 15 characters
Function	Device IP settings include DHCP switch, IP/MASK/GW/DNS settings. The device does not detect whether the IP is canonical. Users must comply with the basic rules when setting IP addresses. After turn on the DHCP, setting an IP address is invalid, The IP address is the value assigned by DHCP.		
Example 1	#network dhcp=1 open DHCP switch,the router auto assign IP addresses to device		

Example 2	#network ip=192.168.1.168 mask=255.255.255.0 gw=192.168.1.1 dhcp=0 Turn Off DHCP. Set the static IP address to 192.168.1.168, Subnet Mask to 255.255.255.0, Gateway to 192.168.1.1		
Type	Format	Data	Rule
Head of commands	#account	nothing	
Target 1	login	Open to all levels of customers (0, 1, 2)	
Target 2	register%d	Account permission level: 0, 1, 2, and 3. The level increases gradually, and lower-level have no permission to view some parameters settings	
parameter 1	id=%15t	number, letter, underline:account name	
parameter 2	psd=%15t	number, letter, underline:password	
Function	Each level has only one account, and the new account will overwrite the previous one, You can register only accounts with at least the current permission level. The default account name is lowercase.		
Example 1	#account login id=admin psd=123456 Login account is admin , password is 123456		
Example 1	#account register0 id=user_jerry psd=123456 Register a user at level 0, account is user_jerry, password is 123456		
Type	Format	Data	Rule
Head of commands	#lcd	nothing	
Target 1	bl_lv=%d	0:Backlight close 1~8:Backlight level	
Target 2	bl_cnt=%d	0:Always close 1~254:Set screen rest time 255:always open	
Function	LCD operation instruction, set LCD screen rest time, backlight		
Example 1	#lcd bl_lv=8 bl_cnt=30 LCD screen rest time is 30 seconds, back level is 8		
Type	Format	Data	Rule
Head of commands	#factory%d	0:Restore factory Settings to level 0 1:Restore factory Settings to level 1 Specific contents are displayed according to the level of the menu	Restore range: 0: Some settings will be restored to factory defaults. 1: All settings will be restored to factory defaults except account.
Function	Restore factory Settings		
Example 1	#factory0 Restore some settings to factory Settings		
Type	Format	Data	Rule
Head of commands	#menu	nothing	
parameter 1	call=%16,d	0 x:Menu level 1 selected lable	input value 1
		0 x:Menu level 2 selected lable	input value 2
		...	...
		0 x:Menu level n selected lable	input value n
parameter 2	cmd=%c%d	u:menu up d:menu down l:menu left r:menu right	input value 1
		l x: press times	input value 2
		0~255:Time required to return to the main screen when no operation is performed	
Function	menu settings		
Example 1	#menu cmd=d1 Menu select the next lable		

## Web Control

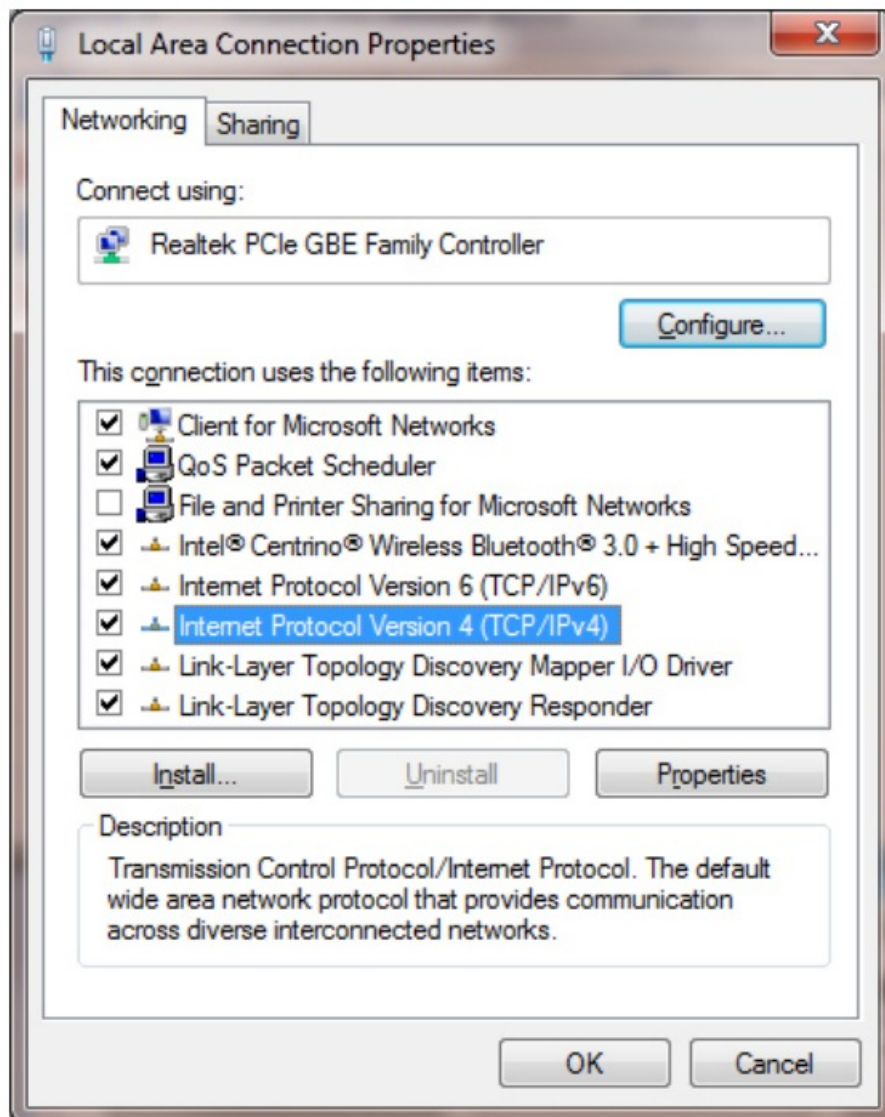
### Default IP Address

The default IP address of the Matrix 4K is 192.168.1.168.

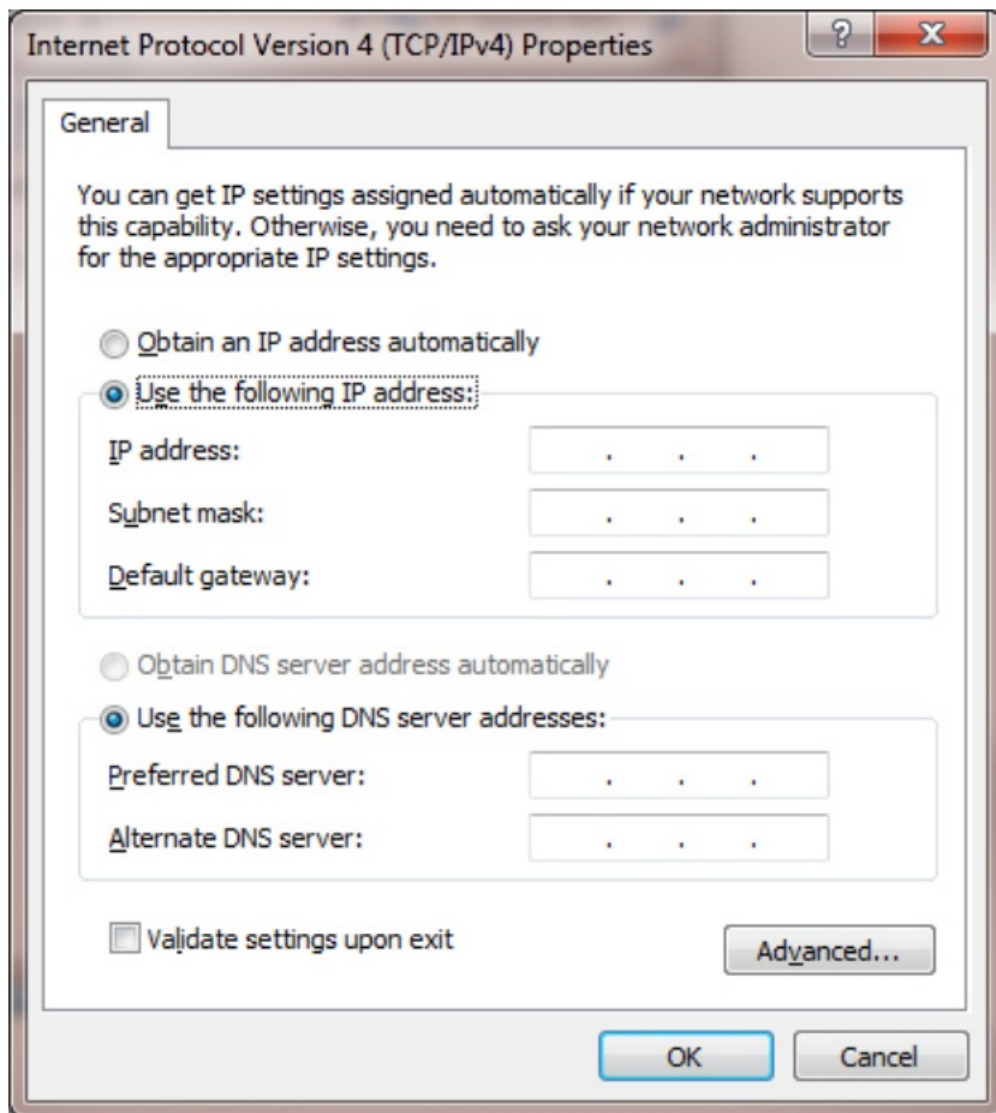
### Change the IP address of your PC

If the IP address of your PC is in the range from 192.168.1.2 to 192.168.1.254, except 192.168.1.168, then there is no need to change it.

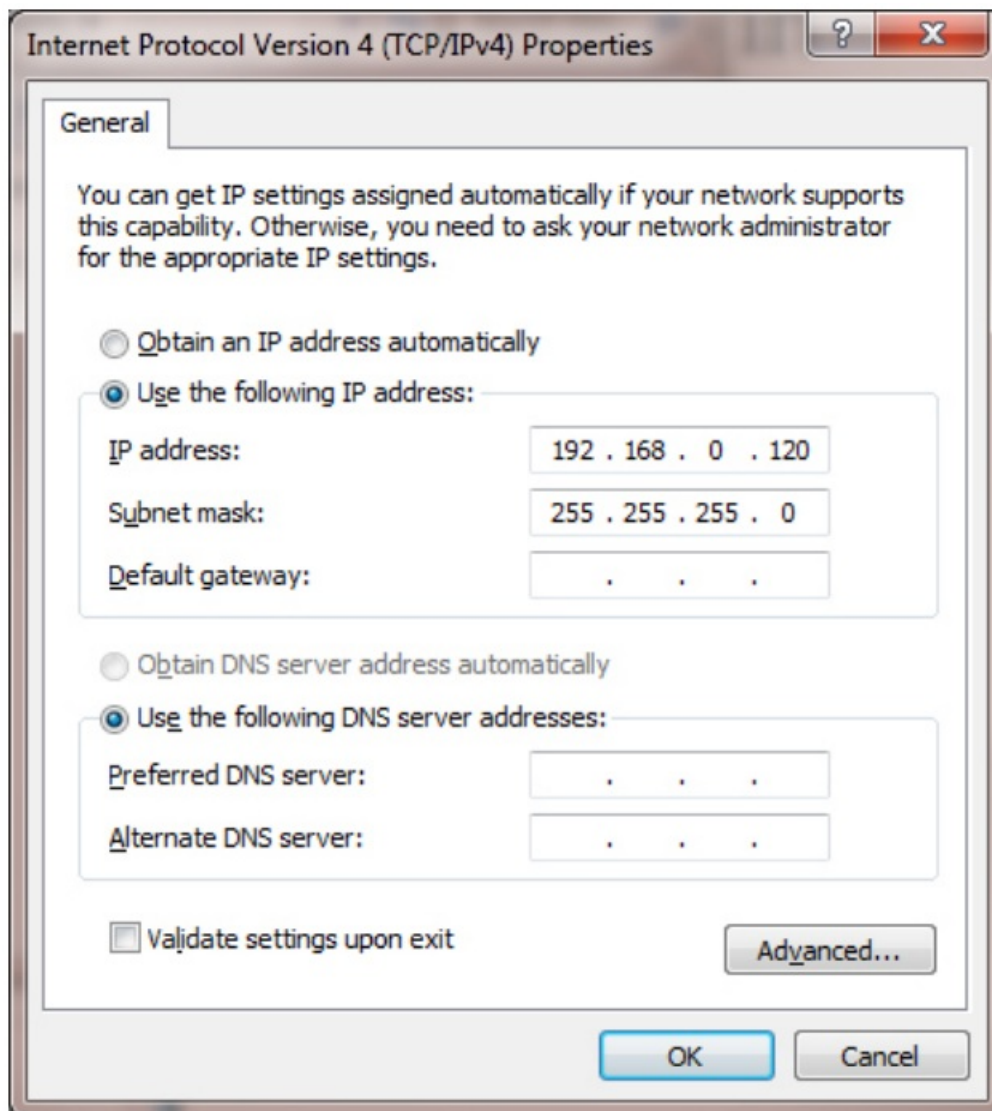
1. Connect the Matrix 4K and your PC to the LAN.
2. Configure you PC as follows:
  - 1) Click Start / Control Panel / Network and Sharing Center.
  - 2) Click Change Adapter Settings.
  - 3) Highlight the network adapter you want to use to connect to the device and click Change settings of the connection.
3. Highlight Internet Protocol Version 4 (TCP/IP/4).



4. Click Properties.



5. Select Use the following IP Address, and then enter the IP address. Note: You can use any IP address in the range: 192.168.1.2 to 192.168.1.254 (excluding 192.168.1.168).



6. Click OK to save the changes.

7. Click Close to exit.

### Web Browser Control

Open your web browser and enter the Matrix 4K's IP address 192.168.1.168 into the address bar, and press Enter. Type in user name: admin and password: 123456, then click Login.

Status Displays the Matrix current status.

<div>Status</div> <div>Input</div> <div>Output</div> <div>Matrix</div> <div>Preset</div> <div>System</div>	Input Info					
		Connect	Resolution	Color	Audio	HDCP
	In1	√	4K60	444 8bit HDR	PCM	2.2
	In2	√	4K60	444 8bit HDR	PCM	2.2
	In3	√	4K60	444 8bit HDR	PCM	2.2
	In4	√	4K60	444 8bit HDR	PCM	2.2
	In5	√	4K60	444 8bit HDR	PCM	2.2
	In6	√	4K60	444 8bit HDR	PCM	2.2
	Output EDID Info					
		Connect	Resolution	Color	Audio	MFR
	Out1	√	4K60	444 8bit HDR	PCM	FXN
	Out2	√	4K60	444 8bit HDR	PCM	FXN
	Out3	√	4K60	444 8bit HDR	PCM	FXN
	Out4	√	4K60	444 8bit HDR	PCM	FXN
	Out5	√	4K60	444 8bit HDR	PCM	FXN
	Out6	√	4K60	444 8bit HDR	PCM	FXN
	Device Info					
	MCU Version:					V0.0.10
	BTML Version:					

Input

Input	Rename	Video	Audio	Audio Source	Copy EDID From
In1	Input1	<input type="checkbox"/>	<input type="checkbox"/>	HDMI ▾	Default1: ▾
In2	Input2	<input type="checkbox"/>	<input type="checkbox"/>	HDMI ▾	Default1: ▾
In3	Input3	<input type="checkbox"/>	<input type="checkbox"/>	HDMI ▾	Default1: ▾
In4	Input4	<input type="checkbox"/>	<input type="checkbox"/>	HDMI ▾	Default1: ▾
In5	Input5	<input type="checkbox"/>	<input type="checkbox"/>	HDMI ▾	Default1: ▾
In6	Input6	<input type="checkbox"/>	<input type="checkbox"/>	HDMI ▾	Default1: ▾
In7	Input7	<input type="checkbox"/>	<input type="checkbox"/>	HDMI ▾	Default1: ▾
In8	Input8	<input type="checkbox"/>	<input type="checkbox"/>	HDMI ▾	Default1: ▾
All		<input type="checkbox"/>	<input type="checkbox"/>	HDMI ▾	Default1: ▾

Copy EDID From:  to:

User EDID:   to:

## Output



**Matrix**

Assign any of the Input devices to any of the outputs.



**Preset**

Rename, Clear, Save, or Call a saved preset.



**System Setting**

Change password, Reboot, Restore Factory Settings, enter network settings, and enable DHCP.

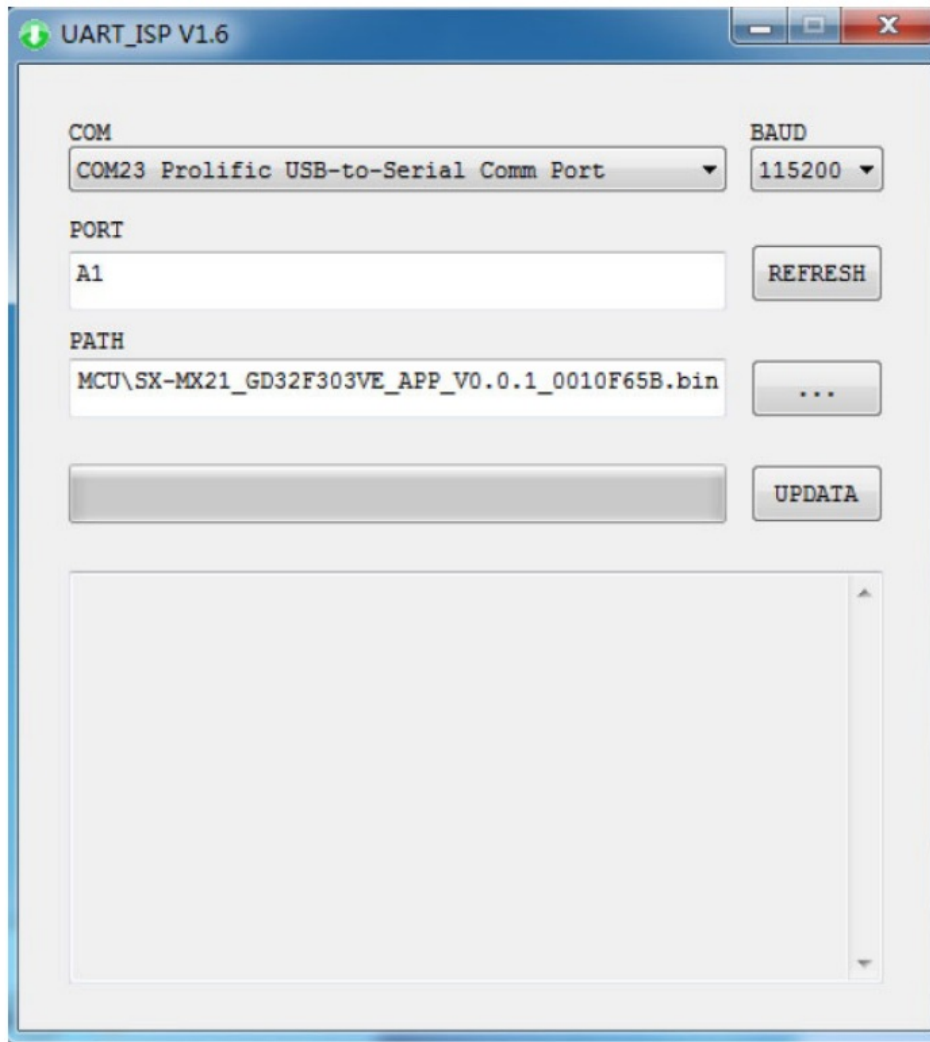
The screenshot displays the web interface of the Matrix 4K device. On the left is a vertical sidebar with navigation links: Status, Input, Output, Matrix, Preset, and System (which is highlighted in blue). The main content area is divided into two sections. The top section, titled 'Network', contains input fields for Mac Address, IP Address, Net Mask Address, Gate Way Address, and TCP Port. The DHCP option is currently set to 'Off' with a toggle switch. An 'Apply' button is located at the bottom right of this section. The bottom section, titled 'Account management', contains input fields for User Name, New Password, and Confirm the Password, followed by an 'Apply' button. Below these sections are three rows of buttons: 'Reboot' (with a 'Reboot' button), 'Factory General' (with a 'Factory General' button), and 'Factory User' (with a 'Factory User' button).

## Firmware Update

In most cases, the Matrix comes with the latest available firmware version when we ship. If available, firmware updates for critical fixes will be posted to gofanco's website for download.

### MCU Update

1. Connect the Matrix 4K to the PC using the RS232 port.
2. Open the update software in the CD.
3. Choose the COM port of the PC, set BAUD rate to 115200, type A1 into Port.
4. Load the firmware in PATH.
5. Click UPDATA. The update process will take up to 1 minute to complete.



## Web Update

1. Connect the Matrix 4K to the PC using the RS232 port.
2. Open the update software in the CD.
3. Choose the COM port of the PC, set BAUD rate to 115200, type F0 into Port.
4. Load the firmware in PATH.
5. Click UPDATA. The update process will take up to 1 minute to complete.

UART\_ISP V1.6

COM: COM1 BAUD: 115200

PORT: FO REFRESH

PATH: C:\ ...

UPDATE

UART\_ISP V1.6 2020-07-06

Steps :

- 1.Refresh the serial com;
- 2.Select com, baud, port;
- 3.Select firmware or drag to this software;
- 4.Upgrade;

Note :

- 1.You need to disconnect from other devices before upgrading;
- 2.Do not interrupt the upgrade when upgrading, otherwise the device may be damaged;

## Specifications

Bandwidth	18 Gbps
Resolution	480p@60Hz, 576p@50Hz, 720p@60Hz, 1080p@24/50/60Hz, 4K@24/30/60Hz YUV4:2:0, 4K@60Hz YUV4:4:4
Video Input Connectors	8x HDMI Type A, 19-pin, Female
Video Output Connectors	8x HDMI Type A, 19-pin, Female
Audio Input Connectors	8x Analog audio, 3.5mm, Female
Audio Output Connectors	8x Analog audio, 3.5mm, Female 8x S/PDIF Coaxial, Female
RS-232 Serial Port	DB9, Female
Ethernet Port 4P Control )	RJ45, Female
IR Ext Port	1x 3.5mm, Female
Dimensions	482.4mm 4_ ) x 220mm W ) x 44mm 4-l )
Weight	2.8 kg
Operating Temperature	32° to 140° F p° to 40° C )
Storage Temperature	14° to 140° F 00° to 60° C )
Power Consumption	28W Max )

### Disclaimer

The product name and brand name may be registered trademarks of related manufacturers. TM and ® may be omitted on the user's guide. The pictures on the user's guide are just for reference, and there may be some slight differences with the actual products.

We reserve the right to make changes without prior notice to a product or system described herein to improve reliability, function, or design.



Thank you for choosing gofanco

[www.gofanco.com](http://www.gofanco.com)

### Documents / Resources

The image shows the front cover of the user's guide for the Gofanco G4-0147A. It features the Gofanco logo at the top, followed by the product name "8x8 HDMI Matrix 4K with LCD User's Guide". Below the text is a small image of the device, which is a black rectangular unit with multiple ports on the front.	<p><a href="#">gofanco G4-0147A 8x8 HDMI Matrix 4K HDR Audio Extractor</a> [pdf] User Guide</p> <p>Matrix88HD2, G4-0147A, G4-0147A 8x8 HDMI Matrix 4K HDR Audio Extractor, 8x8 HDMI Matrix 4K HDR Audio Extractor, HDMI Matrix 4K HDR Audio Extractor, Matrix 4K HDR Audio Extractor, HDR Audio Extractor, Audio Extractor, Extractor</p>
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