

8x8 HDMI2.0 Matrix

Support 4K@60hz YUV4:4:4, 18Gbps, HDR

OPERATION MANUAL



Thank you for purchasing this product. For optimum performance and safety, please read these instructions carefully before connecting, operating or adjusting this product. Please keep this manual for future reference.

SAFETY PRECAUTIONS

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

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

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

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1. INTRODUCTION

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

Controllable via Panel buttons, local IR, RS-232, IP or Web GUI. We can provide control drivers for all the major control systems. This unit also supports HDR10 to bring ultimate visual experience. It is designed to save end users' time and energy for they are able to update the system by the creative micro USB interface. In addition, this matrix also allow additional options for integration of third-party control systems, we could provide control drivers for control systems such as Control 4.

2. APPLICATIONS

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

3. PACKAGE CONTENTS

- 1x HDMI Matrix
- 1x 12V DC power supply
- 1x Remote control
- 1x IR Ext RX Cable
- 1x mounting kit
- 1x CD for control software & user manual

4. SYSTEM REQUIREMENTS

• HDMI source equipment such as media players, video game consoles or set-top boxes.

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- HDMI receiving equipment such as HDTVs, monitors or audio amplifiers.
- The use of "Premium High Speed HDMI" cables is highly recommended

5. FEATURES

- HDMI 2.0 version (Support 4K@60Hz YUV4:4:4)
- Support 3D
- Bandwidth upto 18Gbps
- HDCP2.2 input ,HDCP2.2 output
- HDCP1.4 input, HDCP1.4 output
- Support HDR10
- 8xHDMI Input, 8xHDMI output with 8xSPDIF Audio
- Any one of the 8 Ultra HD sources to any one of the 8 Ultra HD displays
- Support Dolby True HD and DTS-HD master audio
- Micro USB interface for user to upgrade firmware
- Controllable via front-panel buttons, IR remote, RS232, IP, Web GUI Control
- 1U rack design, easy installment
- Unit size: L440XW220XH44.5mm

6. SPECIFACATIONS

Bandwidth	18 Gbps
	480p@60hz,576P@50hz,720P@60hz,
Resolution	1080P@24hz,1080P@50hz,1080P@60hz,4K@24hz,4K@30hz,
	4K@60hz YUV4:2:0, 4K@ 60hz YUV4:4:4
Video Input Connectors	8xHDMI Type A, 19-pin, female
Video Output Connectors	8xHDMI Type A, 19-pin, female
RS-232 serial port	DB9, female
Ethernet port (IP control)	RJ45, female
IR Ext port	1x3.5mm stereo jack
Rack-Mountable	Rack ears included
Dimensions(WxHxD)	L440XW220XH44.5mm
Net Weight	2.8kg
Operating Temperature	32°F to 104°F (0°C to 40°C)
Storage Temperature	14°F to 140°F (-10°C to 60°C)
Power consumption	23W(Max)

RFD

7. OPERATION CONTROLS AND FUNCTIONS

7.1 Front Panel

0 0	наті	12345678 12345678	R	In 1	in 2 in		in 5	in 6	In 7	In a B x8 HDMI matrix,4K@60Hz 4:4:4	0
		(1			(:	2)				

IR WINDOW: Accepts IR signals from the included IR remote for control of this unit only.

 \bigcirc OUTPUT 1~8 & INPUT 1~8: Press output keys (1~8) to select output source; then press input buttons to select input source (1~8). And also could press and hold Input & Output buttons for 3 second to set up below functions:

Locking & Unlocking: Press and hold the Input8 for 3 seconds to lock all button functions on the front panel. Press and hold Input8 for 3 seconds again to release the lock function.

Checking & Setting IP Address / DHCP: Press and hold the Input7 for 3 seconds to enter into the mode of checking IP address and DHCP. Press and hold Input5 for 3 seconds to Exit. Press below buttons shortly to revise the IP address and DHCP accordingly.

Press Input1 button to let cursor move LEFT Press Input2 and/or Output2 button to revise the data

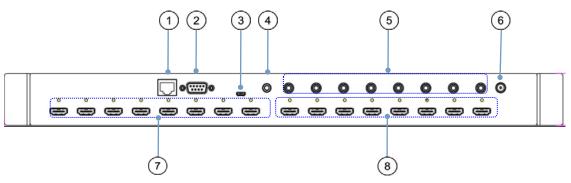
Press Input3 button to let cursor move RIGHT

Press Output1 button to confirm revising

Checking & Setting EDID: Press and hold the Input6 for 3 seconds to enter into the mode of checking EDID. Press and hold Input5 for 3 seconds to Exit. Press below buttons shortly to revise the EDID accordingly.

Press Input2 and/or Output2 button to revise the data Press Output1 button to confirm revising

7.2 Rear Panel



(1) **IP CONTROL**: Connect directly, or through a network switch, to your PC or laptop to control the unit via telnet/WebGUI.

2 **RS232**: Connect directly to a PC, laptop or other serial control device to send **RS-232** commands to control the unit

3 MICRO USB: This slot is reserved for firmware update use only

(a) **IR IN**: Connect to the provided IR Extender to extend the IR control range of the unit. Ensure that the remote being used is within direct line-of-sight of the IR Extender.

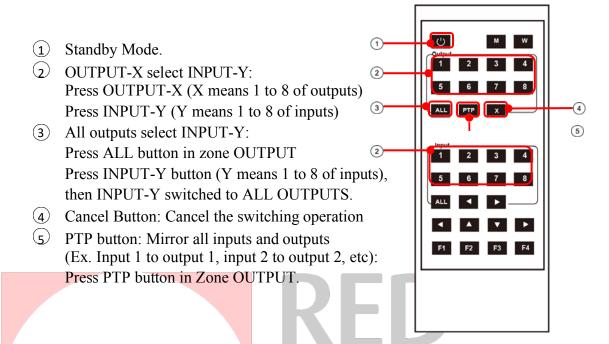
5 SPDIF Audio Output: Audio output is from the selected HDMI source

DC POWER: Plug the 12V DC power adapter into the unit and connect it to an AC wall outlet for power.

7 **INPUT 1~8**: Connect to HDMI source equipment such as media players, game consoles or set-top boxes. DVI sources are supported with the use of an HDMI to DVI adapter.

OUTPUT 1~8: Connect to HDMI TVs, monitors or amplifiers for digital video and audio output.

7. 3 Remote Control Description



Matri	x	Remote C	Control Console
PIN	Assignment	PIN	Assignment
1	NC	1	NC
2	Tx	2	Rx
3	Rx		CS Tx
4	NC	4	NC
5	GND	5	GND
6	NC	6	NC
7	NC	7	NC
8	NC	8	NC
9	NC	9	NC

RS232 Pin Assignment

7.4. RS232 Control

Software control

Connect the 8x8 Matrix to PC with a RS232 cable, open the software on your PC.
 On the COM Setting session, select the COM port according to your PC and click "Connect" to get connected.

On this COM setting session, you can also change the Device name, Device name support up to 16 characters. Save or edit your status by clicking the Edit button.

Come to Port Set session to select or switch your input sources for each output, We can read the current status by clicking the "Status" button, or Clear our historical operating record by clicking "Clear" button. The right down blank shows the operating history.

ort: COM7 🚽	[Port_Set] EDID Config IP Config Net Config System Config	
Search	Output 1	
Disconnect!	Output 2 Get All Ports 1 2 3 4 5 6 7 8 2	
vice Name *8HDMI2.0Matrix	Output 3 1 2 3 4 5 6 7 8 3 Load All config data success! Load All config data success! Load All config data success! Load All config data success! Load All config data success!	
Get	Output 4 Get All Ports 1 2 3 4 5 6 7 8 4 Load All config data success! Load All config data success!	
Edit	Output 5 6 7 8 5	
	Output 6 1 2 3 4 5 6 7 8 6	
	Output 7 1 2 3 4 5 6 7 8 7	
	Output 8 7 8 8	
	Output All 1 2 3 4 5 6 7 8 1	

Picture 1

The EDID session helps us to Read and Configure EDID for each input, such as HDR, 3D, Data rates and Audio channel.

· _	Set Input HDMI 1		Set Input HDMI 2	
Search	Mode: 4K2K@60Hz (YC444)	Read	Mode: 4K2K@60Hz [YC420] +	Read
Disconnect!	UDB 1080P	ncau		neau
	4K2K@30Hz 30Bit 4K2K@60Hz [YC420] ○ 7.1 C 4K2K@60Hz [YC444] Copy From TV1	Apply	□ 30Bit □ 36Bit □ 48Bit ○ 7.1 CH ○ 5.1 CH ○ 2.0 CH	Apply
Device Name	Copy From TV2		Set Input HDMI 4	
8*8HDMI2.0Matrix	Mode: Copy From TV3 Copy From TV4 Copy From TV5	Read	Mode: 4K2K@60Hz (YC420)	Read
Get	HDR Copy From TV6		☐ HDR ☞ 3D □ 30Bit □ 36Bit □ 48Bit	
Edit	Copy From TV8	Apply	⊂ 7.1 CH ⊂ 5.1 CH ● 2.0 CH -	Apply
	Set Input HDMI 5		Set Input HDMI 6	
	Mode: 4K2K@60Hz (YC420) -	Read	Mode: 4K2K@60Hz (YC420) -	Read
	THDR 🔽 3D		THDR 73D	
	□ 30Bit □ 36Bit □ 48Bit ○ 7.1 CH ○ 5.1 CH @ 2.0 CH _	Apply	□ 30Bit □ 36Bit □ 48Bit ○ 7.1 CH ○ 5.1 CH ◎ 2.0 CH _	Apply
	Set Input HDMI 7		Set Input HDMI 8	
	Mode: 4K2K@60Hz (YC420) -	Read	Mode: 4K2K@60Hz (YC420) -	Read
	⊢ HDR		HDR 🔽 3D	
	□ 30Bit □ 36Bit □ 48Bit	Apply	🗆 🗆 30Bit 🗆 36Bit 🗖 48Bit	Apply
	○ 7.1 CH ○ 5.1 CH ○ 2.0 CH -		○ 7.1 CH ○ 5.1 CH ④ 2.0 CH -	

Picture 2

The IP configure session helps to read and configure the IP address and MAC of the Matrix. Check DHCP if you want the router to assign an IP for the Matrix automatically .

Search	- IP Address Setting		
Disconnect!	Host IP Address:	192 . 168 . 0 . 111	
	Net Mask:	255 . 255 . 255 . 0	
evice Name *8HDMI2.0Matrix	Router IP Address:	192 . 168 . 0 . 1	
Get	Rouler IP Address.		
Edit	MAC Address: 7C : 4	7:3F:11:7A:BE	
		í í	
	Get IP Config	Save IP Config	

Picture 3

The Net Config session allows us to configure the PC and Matrix in the same LAN with the IP Address and connection.

◆ Click "Net config" → "Connect" → "Search Device" → "Sel Device Number"
 → "Connect" then you can see the device name, it means successful connection.

HDMI 2.0 8*8 Matrix			
COM Setting Port: COM1 💌	Port Set EDID Config IP Config Net Config System Config		-
	Current PC Information		
Search			
Connect	IP Address: 192 . 168 . 0 . 103 Ports: 5001 Connect		
Device 3_me			
Get			
Edit			
ou can also	Picture 4 click "IE" easy and click to enter into web		
DMI 2.0 8*8 Matrix	click "IE", easy and click to enter into web.		
IDMI 2.0 8*8 Matrix COM Setting		6	
IDMI 2.0 8*8 Matrix COM Setting Port: COM1 💽	click "IE", easy and click to enter into web.		
IDMI 2.0 8°8 Matrix COM Setting Port: COMI 💌 Search	Click "IE", easy and click to enter into web.		
IDMI 2.0 8*8 Matrix COM Setting Port: COM1 💽	Click "IE", easy and click to enter into web.		
IDMI 2.0 8°8 Matrix COM Setting Port: COMI 💌 Search	Click "IE", easy and click to enter into web. Port Set EDID Config IP Config Net Config System Config Current PC Information IP Address: 192 . 168 . 0 . 140 Ports: 5001 Disconnect		
IDMI 2.0 8*8 Matrix COM Setting Port: COMI • Search Connect	click "IE", easy and click to enter into web. Port Set EDID Config IP Config Net Config System Config Current PC Information IP Address: 192 . 168 . 0 . 140 Ports: 5001 Disconnect Host Device Information 6 4		×
IDMI 2.0 8*8 Matrix COM Setting Port: COMI • Search Connect	Click "IE", easy and click to enter into web. Port Set EDID Config IP Config Net Config System Config Current PC Information IP Address: 192 . 168 . 0 . 140 Ports: 5001 Disconnect		
IDMI 2.0 8*8 Matrix COM Setting Port: COMI • Search Connect	click "IE", easy and click to enter into web. Port Set EDID Config IP Config Net Config System Config Current PC Information IP Address: 192 . 168 . 0 . 140 Ports: 5001 Disconnect Host Device Information 6 4 Search Device IP Address: 192 . 168 . 0 . 173 Connect Search Device		
DMI 2.0 8°8 Matrix	click "IE", easy and click to enter into web. Port Set EDID Config IP Config Net Config System Config Current PC Information IP Address: 192 . 168 . 0 . 140 Ports: 5001 Disconnect Host Device Information IP Address: 192 . 168 . 0 . 173 Connect Search Device 1->IP=192.168.0.173 Name=4*4HDMI2.0Matri *		
IDMI 2.0 8°8 Matrix COM Setting Port: COMI Search Connect Device Name	click "IE", easy and click to enter into web. Port Set EDID Config IP Config Net Config System Config Current PC Information IP Address: 192 . 168 . 0 . 140 Ports: 5001 Disconnect Host Device Information 6 4 Search Device IP Address: 192 . 168 . 0 . 173 Connect Search Device		
DMI 2.0 8°8 Matrix	click "IE", easy and click to enter into web. Port Set EDID Config IP Config Net Config System Config Current PC Information IP Address: 192 . 168 . 0 . 140 Ports: 5001 Disconnect Host Device Information IP Address: 192 . 168 . 0 . 173 Connect Search Device 1->IP=192.168.0.173 Name=4*4HDMI2.0Matri *		
DMI 2.0 8°8 Matrix	click "IE", easy and click to enter into web. Port Set EDID Config IP Config Net Config System Config Current PC Information IP Address: 192 . 168 . 0 . 140 Ports: 5001 Disconnect Host Device Information IP Address: 192 . 168 . 0 . 173 Connect Search Device 1->IP=192.168.0.173 Name=4*4HDMI2.0Matri *		
DMI 2.0 8° 8 Matrix COM Setting Port: COM1 • Search Connect Device Name Get	click "IE", easy and click to enter into web. Port Set EDID Config IP Config Net Config System Config Current PC Information IP Address: 192 . 168 . 0 . 140 Ports: 5001 Disconnect Host Device Information IP Address: 192 . 168 . 0 . 173 Connect Search Device 1->IP=192.168.0.173 Name=4*4HDMI2.0Matri *		
ADMI 2.0 8*8 Matrix COM Setting Port: COMI • Search Connect Device Name Get	click "IE", easy and click to enter into web.		
ADMI 2.0 8*8 Matrix COM Setting Port: COMI • Search Connect Device Name Get	click "IE", easy and click to enter into web. Port Set EDID Config IP Config Net Config System Config Current PC Information IP Address: 192 . 168 . 0 . 140 Ports: 5001 Disconnect Host Device Information IP Address: 192 . 168 . 0 . 173 Connect Search Device 1->IP=192.168.0.173 Name=4*4HDMI2.0Matri *		
ADMI 2.0 8*8 Matrix COM Setting Port: COMI • Search Connect Device Name Get	click "IE", easy and click to enter into web.		
ADMI 2.0 8*8 Matrix COM Setting Port: COMI • Search Connect Device Name Get	click "IE", easy and click to enter into web.		
ADMI 2.0 8*8 Matrix COM Setting Port: COMI • Search Connect Device Name Get	click "IE", easy and click to enter into web.		
ADMI 2.0 8*8 Matrix COM Setting Port: COMI • Search Connect Device Name Get	click "IE", easy and click to enter into web.		
DMI 2.0 8°8 Matrix	click "IE", easy and click to enter into web.		
DMI 2.0 8° 8 Matrix COM Setting Port: COM1 • Search Connect Device Name Get	click "IE", easy and click to enter into web.		

Picture 5

HDMI 2.0 8*8 Matrix	
COM Setting	Port Set EDID Config IP Config Net Config System Config
Search Disconnect!	Power Ctrl On Off
During Name	Default
Device Name 8*8HDMI2.0Matrix	
Get	
	Picture 6
	LOGIC
WW	w.RedDotLogics.com

The last session is System Config, which allows power ON/OFF or reset, default the Matrix.

Command Control

1). Open CommUart Assistant.

2). Comport setting:

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

3). Enter Port Command in Send options.

	CommUart Assistant	- 🗆 ×
COM Settings	Data receive	SAVAGE V4.2.0
PortNum COM9	MtP@W0E000203010203020203030203342s3448444d49322e304d6174	726978#
BaudB 115200 -	MtP@W0901#	T020T0#
	MtP@W0E000203010203020203030203342s3448444d49322e304d6174* MtP@W0901#	120918#
	MtP@W0E000203010203020203030203342a3448444d49322e304d6174	726978#
DataB 8	MtP@W0901#	
StopB 1	MtP@W0E000203010203020203030203342s3448444d49322e304d6174" MtP@W0901#	726978#
	mtrenoso1#	
Close		
lecv Options	are the second se	
Receive to file		
🦳 Auto linefeed		
🗖 Show timestamp		
🔽 Receive as hex		
T Pause receive		
Save Clear		
end Options		
🗆 Data from file		
Auto checksum		
Anto clear input		
☐ Auto clear input ☐ Sand as her	1.DCD • 2.RXD • 3.TXD • 4.DTR • 5.GND • 6.DSR • 7.R	TS 🗢 8.CTS 🔶 9.RI 👄
🗍 Send as hex	1.DCD • 2.RXD • 3.TXD • <u>4.DTR</u> • 5.GND • 6.DSR • <u>7.R</u>	<u>TS</u> ● 8.CTS● 9.RI●
☐ Send as hex □ Period 1000 ms	1.DCD ● 2.RXD ● 3.TXD ● <u>4.DTR</u> ● 5.GND ● 6.DSR ● <u>7.R</u> @₩ 04 03 02 01 00 #	<u>IS</u> 8.CTS 9.RI • Send
🗍 Send as hex		

4). Command

Command	Function		Note
@W 04 00 01 02 03	PTP Function		Mirror all inputs and outputs (Ex. Input 1 to output 1, input 2 to output 2, etc)
			output 2, etc)
@W 50 #	Reboot		
@W 51 #	Restore Setting	Factory	
@W 0F 00 #	Standby		00: Standby Mode 01: Cancel "Standby Mode"

5). Select HDMI input for HDMI output

Command	Description	
00	Output1	
01	Output2	
02	Output3	
03	Output4	
11	Output5	DOT
12	Output6	
13	Output7	
14	Output8	
04	All Output	
00	Input1	
01	Input2	
02	Input3	Datl aging age
03	Input4	DotLogics.com
04	Input5	0
05	Input6	
06	Input7	
07	Input8	

E.g: @W 00 00 #: Ouput 1 display Input1 Ouput 1 Input1

6). EDID Setting

@W XX AA BB #:

Parameter Description:

XX for configuration of "INPUT EDID"

Command	05	06	07	08	15	16	17	18
Description	Input1	Input2	Input3	Input4	Input5	Input6	Input7	Input8

AA for selecting "Video Mode"

Command	00	01	02	03
Description	1080P	4K2K_30	4K2K_60(YC420)	4K2K_60(YC444)

BB for selecting belowing function

Bit6	Bit5	Bit4	Bit3	Bit2	Bit1	Bit0
48Bit	36Bit	30Bit	7.1CH	5.1CH	2CH	3D
1	1	1	1	1	1	1
0	0	0	0	0	0	0

"1" : select the function, "0" : not select the function.

E.g: 11001001: HDR, 48Bit, 7.1CH, 3D

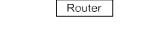
Chang Binary code "11001001" to hexadecimal format "C9".

E.g: @W 05 03 C9 #

The EDID of input 1 is: 4K2K_60(YC444), HDR, 48Bit, 7.1CH, 3D.

7.5. Web Control

1) . Connect the HDMI Matrix and PC to the LAN under the Matrix DHCP Mode.



HDMI Matrix PC

2) . Open the PC tool (included in the CD).

DC tool

3). Search the IP address of HDMI Matrix, please refer to picture 4 & picture 5.

4). Open the web browser and enter the IP address you searched, then you can set the function as below pictures:

1 HDMI2.0 8*8 Mat	rix ×	1000	-		- • • ×
	192.168.0.45				
FOXUN SAT			RANSLATE		₽ 4K ≫
Port Se	ŧt.	EDID Config		IP Config	4
		Port Set page			
Output1: Input 1	Input 2 Input 3	Input 4 Input 5	Input 6 Inp	ut 7 Input 8	1
Output2: Input 1	Input 2 Input 3	Input 4 Input 5	Input 6 Inp	ut 7 Input 8	2
Output3: Input 1	Input 2 Input 3	Input 4 Input 5	Input 6 Inp	ut 7 Input 8	3
Output4: Input 1	Input 2 Input 3	Input 4 Input 5	Input 6 Inp	ut 7 Input 8	4
Output5: Input 1	Input 2 Input 3	Input 4 Input 5	Input 6 Inp	ut 7 Input 8	5
Output6: Input 1	Input 2 Input 3	Input 4 Input 5	Input 6 Inp	ut 7 Input 8	6
Output7: Input 1	Input 2 Input 3	Input 4 Input 5	Input 6 Inp	ut 7 Input 8	7
Output8: Input 1	Input 2 Input 3	Input 4 Input 5	Input 6 Inp	ut 7 Input 8	8
Output All: Input 1	Input 2 Input 3	Input 4 Input 5	Input 6 In	put 7 Input 8	1

Picture 8: Port Setting Page

	Port Set EDID Config IP Config	-
	EDID Set page Input HDMI1: 4K2K@60Hz[YC444] • Apply #HDR #3D 30Bit 36Bit #48Bit #7.1Ch \$5.1Ch \$2.0Ch	
	Input HDMI2: 4K2K@60Hz[YC420] • Apply HDR # 3D = 30Bit = 36Bit = 48Bit = 7.1Ch = 5.1Ch = 2.0Ch	
	Input HDMI3: 4K2K@60Hz[YC420] • Apply HDR # 3D = 30Bit = 36Bit = 48Bit = 7.1Ch = 5.1Ch # 2.0Ch	
	Input HDMI4: 4K2K@60Hz[YC420] • Apply HDR # 3D = 30Bit = 36Bit = 48Bit = 7.1Ch = 5.1Ch = 2.0Ch	
	Input HDMI5: 4K2K@60Hz[YC420] • Apply HDR # 3D = 30Bit = 36Bit = 48Bit = 7.1Ch = 5.1Ch = 2.0Ch	
	Input HDMI6: 4K2K@60Hz[YC420] • Apply HDR # 3D = 30Bit = 36Bit = 48Bit = 7.1Ch = 5.1Ch # 2.0Ch	
	Input HDMI7: 4K2K@60Hz[YC420] • Apply HDR # 3D = 30Bit = 36Bit = 48Bit = 7.1Ch = 5.1Ch = 2.0Ch	
	Input HDMI8: 4K2K@60Hz[YC420] • Apply HDR # 3D = 30Bit = 36Bit = 48Bit = 7.1Ch = 5.1Ch = 2.0Ch	•
	Picture 9: EDID Setting Page	
	Port Set EDID Config IP Config	
V	IP Config page	m
	MAC Address: 7C:47:3F:11:7A:BE Host IP Address: 192.168.0.111	
	Net Mask	
	Address: 255.255.255.0	
	Router IP Address: 192.168.0.1	
	Device Name: 8*8HDMI2.0Matrix	
	DHCP	
	Apply	

Picture 10: IP Configuration Page

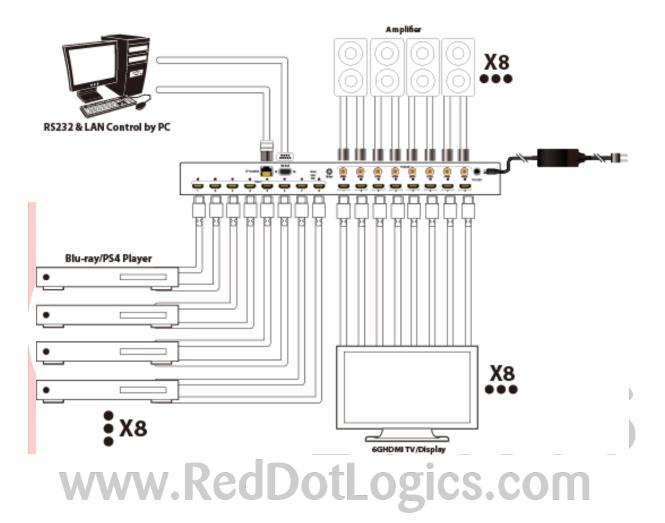
7.6 Micro USB to update firmware

Connect 8x8 HDMI Matrix to PC or laptop with Micro USB cable after matrix is powered on. Open the "updated software' which has been downloaded in our CD. And then click "Search" \rightarrow "Port Sel" (to choose correct port) \rightarrow "Connect" (It will show "S3RLC" when connect successfully) \rightarrow "Load FW File" \rightarrow "Update" Please do not power off or disconnect when it is updating the FW file.

DATE_FW				×
Uart config	1			
Port Sel: COM1 -	Search Conne	ct		
S3RLC	Rese	t		
			Load FY	¥ File
			Upda	ate
			Cle	ear
(>	
ev:1.2.1128				

Picture 11: software updated

8. CONNECTION DIAGRAM



9. MAINTENANCE

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

10. PRODUCT SERVICE

(1) Damage requiring service:

The unit should be serviced by qualified service personnel if:

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

(2) Servicing Personal: Do not attempt to service the unit beyond that described in these operating instructions. Refer all other servicing to authorized service personal.

(3) **Replacement parts:** Please ensure the defective parts to be replaced by manufacturers or the same specifications 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.

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11. WARRANTY: Limited Warranty Limits and Exclusions

- If your product does not work properly because of defective materials or workmanship, our Company (referred to as "the warranter") will, for the length of the period indicated as below, (Parts(2)Year, Labor(90) Days) 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 of a refurbished product. The decision whether to repair or replace the product will be made by the warranter.
- 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.(Please prepaid and insured for the unit and then ensure it was packed carefully in the original carton. Besides, detailed complaint description and your contact information should be attached in it.)This Limited Warranty is only valid for the original purchaser and only covers the newly purchased product. A purchase receipt or other proof of original purchase date is required for Limited Warranty service.
- This Limited Warranty ONLY COVERS failures result from defective materials 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, misadjustment 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 damages that caused by 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 WARRNTY. (for example, it excludes damages for lost time, cost of someone remove or re-install an installed unit that was applicable, round trips, loss of or damage to media or images, data or other recorded content. Please note that the items listed above are not exclusive, but only for illustration)
- THE PURCHASER OR USERS SHOULD TAKE RESBONSIBILITY FOR PARTS AND SERVICE THAT DOES NOT COVERED IN THIS LIMITED WARRANTY.