

PROFESSIONAL MATRIX SWITCH

4K HDMI MATRIX SWITCH

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The complete matrix switch package consists of the following

 Matrix switch 2. Power cable 3. Power adapter 4. RS232 serial communication cable 5. Instruction manual

prevent damage to the matrix switch.

components:

6. Data CD

7. Remote control

Please check to make sure our products have not been damaged in transit before use, if there is damage, please contact your seller directly. Please read this manual completely before use, please use and install carefully to

Safety Operation Guide

In order to ensure the reliable use of equipment and personnel safety, in the installation, use and maintenance, please observe the following

1: Please use a single-phase three-wire power supply with protective ground, and ensure that the whole system uses the same protective ground, the matrix The final grounding of the matrix should be connected to the true earth, and its grounding resistance should be less than 1 ohm. Do not use the power supply without a protective ground The power source, the grounding foot of the power cord should not be destroyed. No perfect grounding, easy to cause signal interference, instability, but also It may cause personal accidents due to leakage. 2: When you need to move equipment or other work that requires power off, turn off all power, including external power outlets, and unplug the power. The external power outlet should be turned off and the power should be unplugged. 3: Non-professionals should not attempt to disassemble the equipment chassis or repair it without permission, in order to avoid damage to the internal precision parts or accidents or aggravate the degree of damage to the equipment. 4: When plugging or unplugging signal lines from the equipment, the equipment needs to be powered off to avoid breaking the circuit. Damage caused by plugging with electricity Not covered by the warranty. Pay attention to moisture and dust, and do not make the ambient temperature too high or too low.

5: Do not press heavy objects on the machine to avoid damage. If you encounter

any problem, please refer to this instruction in detail first, if If you cannot solve

the problem, please contact us.

Overview

HD matrix is a new generation of 4K HDMI matrix that our company is dedicated to create, supporting HDMI1.4 standard, support EDID management resolution up to 4K@30HZ,1080@60HZ HDMI matrix. Support audio and video synchronization switching, suitable for conference rooms, command centers, multimedia rooms and

other application scenarios. 2. Product features · · · HDMI Matrix Panel Description

4. Software operation · · · 5. Technical parameters · · ·

 EDID - EDID Learning Key Control protocols....

For example:

2. To set the EDID data for a particular input, select the 1-8 input buttons ("x" indicates that 1 to 8 are available) and press UP/DOWN to select the internal EDID and then press

ENTER to confirm.

N P U T P O R T : X SELECT: NONE

to select up or down, and press Enter to confirm after selecting the internal EDID.

INPUTPORT: ALL SELECT: NONE

Input and output channel selection keys are used to set the input and output • ENTER - OK Key channelsof audio and video signals or to query the current matrix status, EDID MENU - menu key (if the operation is wrong, press the matrix screen menu key to re turn the device LCD to the main screen)

2) Function Key ALL--"All" indicates that all input or output ports are selected (different states are indicated). Toggle selection and execute all toggle commands.

SELECT INPUT:

HD8Stereo、HD8DOLBYDTS、HD8LOSSLESS、HD12STEREO3D、HD12DOLBYDTS、H D8Suport4k、4k30Pstereo、4k30_5.1、4k30_AC3、4K30_DTS), Do not unplug theHDMI cable and read the EDID automatically.

1. press the EDID key.

If you want to set all the EDID data in the input, select the ALL button, press UP/DOWN

STORE SCENE:

1. Save the scene mode: press MENU 1 time, the screen can save 16 modes (1~16), press UP/DOWN up and down to select, press Enter to confirm after selecting the mode.

Pressing the EDID key automatically displays the input sources that can be learned, STORE SCENE: and you can select one or all of them. You can select a particular input or all inputs to DONE read.Internal EDIDs are available in various formats (USER1-USER5, OUT1-OUT4,

> 2. Press the MENU key twice to adjust the faceplate operation to 16 modes (1~16), press UP/DOWN to select up or down, and press ENTER to confirm after selecting the mode.

> > DONE

RECALL SCENE:

1. Query the state of the matrix corresponding to the current input and output 3. Switching buzzer sound: Press MENU button 3 times to set the buzzer sound on/off UP/DOWN up and down Select switch buzzer sound

urn off the beeping sound

Turn on the beeping sound Enable Beep Enable:

4. One-by-one correspondence display mode: press MENU 4 times, press Enter to confirm; all input channels and output channels are displayed one by one (e.g. the first input channel

SWITCH 0 TO 0 **5.** Restoring factory settings: restoring the default factory settings. FACTORY RESET

Disable

is displayed on screen 1).

6. Scene polling: For saved scene modes, simply press this option and then press UP/DOWN to select polling.

SCENE Loop Enable	Polling On
SCENE Loop Disable	Pulling Off

OUT 12345678 N 2222222

2. Query the inline status of the corresponding input to the matrix ("Y" indicates a source input is connected, "N" indicates no source input is connected.)

3. Query the online status of the corresponding output of the matrix ("Y" indicates

that the output is connected to a display device, "N" indicates that no output is con

12345678 ON YYNNNNNN

UT 12345678 ON YYYYYNN

4. Query the matrix IP address, the default IP address is 192.168.1.200

PADDRESS 192.168.1.200 Query matrix sub grid mask

nected to the screen.)

255.255.255.0

144.144.144.144

GateWay

192.168.1.1

Query matrix default grid off

7. Query Matrix First DNS Server

8. Query matrix device version number (based on the actual item version)

• IN PUTHDMI video input connector, using the HD-15pin connector, is used to connect the HD-15pin video connector to incoming devices such as PCs, DVDs, HD players,etc. 15-pin video connector to incoming devices such as PCs, DVDs, HD players, etc • OUT PUT - HDMI video output port, using the HD-15pin connector, is used for output devices such as monitors, TVs, projectors, etc. that are connected to the HD-15pin video connector.The HDMI connectors of each signal cable must correspond to each

FIRMWARE

2.00.06

other, otherwise there will be color loss or even no signal output. IR - matrix IR remote control receiving port; RS232 - IN / RS232-OUT - provides 2 independent RS232 interfaces, which can be used to connect to a computer or central control equipment to control the matrix system. LAN - One RJ45 port is provided for connecting to a computer or central control device

 to control the matrix system. ON/OFF - Can be used for matrix system switching control. DC12V - DC12V at the matrix power input port.

- response time for operation.
- 2. Modular design of all boards, hot-swappable, stable and reliable system. **3.** 3.4G high-bandwidth original switching chip is used, so that all signals can be switched synchronously.
- 4. Each signal supports HDCP decoding, Blu-ray, 3D. **5.** Supports signal timing reordering and 36-bit true color technology. **6.** Support for fast channel switching, one-to-one correspondence and fast
- saving and retrieval of scene modes. 7. Supporting maximum resolution: 4K x 2K@30Hz, 1080P 3D @60Hz. saves the current scene status.
- a single core for higher integration. 9. Supports keypad, infrared remote control, RS232 serial port.
- 10. Support EDID rewritable and EDID self-adaptive function, better adapt to the diversified display devices in the field and improve compatibility. 11. Using high quality HDMI version 1.4 cables, the transmission distance can
- be up to 15 m for incoming and 15 m for outgoing. 12. Input supports receive delay, which effectively compensates for the time when the differential pairs are not long enough. **13.** 16 built-in scene modes in the software, which can be used in any scene.
- 14. Power failure memory field protection function, which automatically **15.** The host display adopts a high-resolution English display and supports LOGO and model burn-in customization.

16. The matrix series are used in a wide range of applications such as projection display, e-learning, command and control centers, and multimedia conference rooms.

8. Wireless power-grade switching cores, image switching can be done with

HDMI input HDMI output

Explanation of the operation of the panel: (Take 4 port 8 port as an example)

Input channel switching button Power indicator

IR Indicator light Function button Output channel switching button

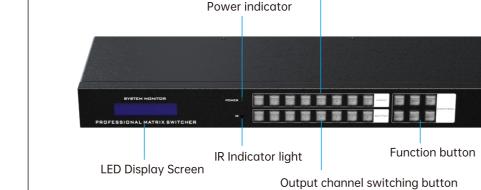


TCP/IP Power supply

3.5mm audio split output

CONTROL

Input channel switching button Front Panel



3.5mm audio split output Power Switch

HDMI output TCP/IP Power supply

8 port Front Panel Description

1. Overview···

3.Connection Diagram · ·

7.Common faults and maintenance · · ·

	·
LCD Display screen	Blue backlight, white font, display system real-time operation status;
Power-off indicator	Turning on the power, the indicator light is green.Power failure, light off.
IR receiver head	The built-in infrared receiver of the machine receives infrared signals sent by the infrared remote control and facilitates the control of the machine.
OUTPUT	Output channel switching buttons : 1~ 8from left to right respectively.
INPUT	Input channel switching buttons: 1~ 8from left to right, respectively.
	ALL : Select All key, including sending an input signal to all output channels, and switching all input channels to the corresponding output channel. channel to the corresponding output channel.
	ENTER: Confirmation key, to confirm the selected channel and function, in

the execution of the operation, must be executed to confirm before the relevant ope ration. Function but | EDID: EDID learning keys, built-in a variety of EDID can be written directly in. MENU: menu button, switch beep sound, save/recall scene mode, one-to-UP: Upward selection keys, query matrix current input and output correspon **DOWN**: Selecting the key down, querying the current input and output statu

8 port Back Panel Description

•	Name	Description	Example 1: The operation of synchron output channel, step by step as follow
	INPUT	Signal input 1 - 8 ports.	1. Press the input channel "1" key, its
	ОИТРИТ	Signal output 1 - 8 ports.	
	TCP/IP CONTROL	RJ45 port, for TCP/IP network port control.	2. Press the output channel "3" key, in S W I T C
	Audio Output	Support left and right analog stereo sound	3. Press the Enter OK key and its LCD
	RS232 IN RS232 OUT	RS232Input, for matrix connection to computer and central control device control	SWITC
	Power port	RS232Output, for matrix connection large screen linkage control Connection of DC12V power supply.	
_			To switch 1 channel audio and video s

Matrix Switch | For switching on and off of matrix equipment. Note: 8 port and 16 port supports output signal amplitude, there are 0-31 amplitude

the default amplitude is 10 (default). This manual uses the 8*8 matrix as an example to explain the use of other models of matrix, please refer to the 8*8 instructions for use. Use the front panel keys to HDMI matrix for fast switching operation of audio and video (please refer to "Front Panel Function Key Description" for detailed description of each key function), the operation method is as follows: input channel + output channel + ENTER Input channel The channel to which the source is currently connected is switched. The IN PUT "1 to 8" buttons on the front panel represent 1 to 8 input channels, respectively.

Output channels The peripheral display shows the channels connected to the device. The

OUT PUT "1 to 8" buttons on the front panel represent 1 to 8 output channels respectively.

onizing the 1st audio/video signal to the 3rd



deo signal to multiple output channels (such as output 1-1.2.3.4 channels), press the output key "1, 2, 3, 4" directly after completing step 1, and then press Enter; to switch to all output channels, press the "ALL" key directly after completing step 1. "ALL" key and then press

1.2.2 Storage and recall example Example 1: The first channel of audio and video signals are switched to all output channels synchronously. Store the operation of synchronizing the first channel of audio and video signals to all output channels (e.g., all output channels are 8) as Scene 1, as follows: 1、Press 1 MENU key,panel operation can save 16 modes(1~16)by UP/DOWN up and down to choose, press Enter to determine after the selection, the figure is stored under

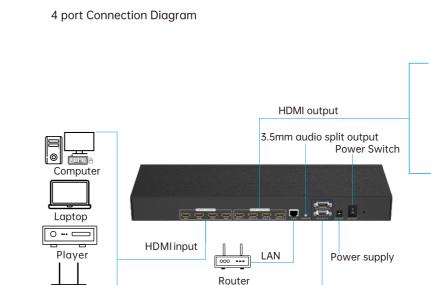
STORE SCENE:

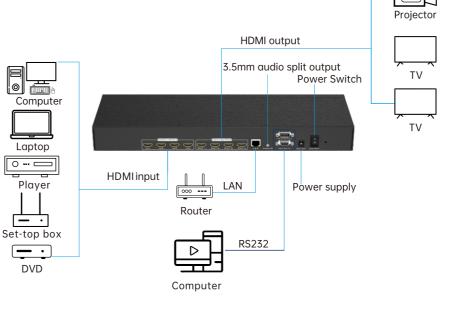
4.3 Restore the default scene mode: directly click "Default" to restore the factory

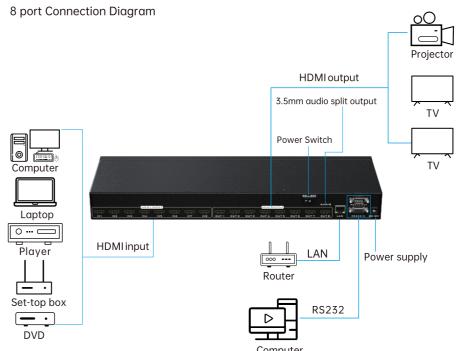
Connection diagram

(Take 4 port 8 port as an example)

UP/DOWN are up and down selection keys

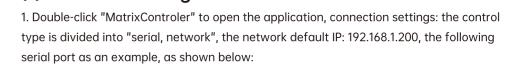


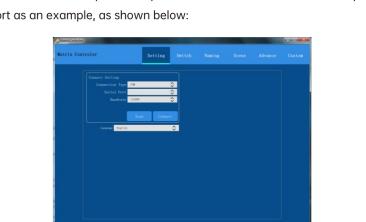




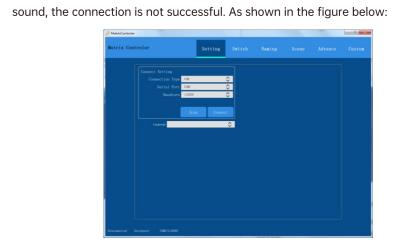
Software Operation

(1)Software Settings

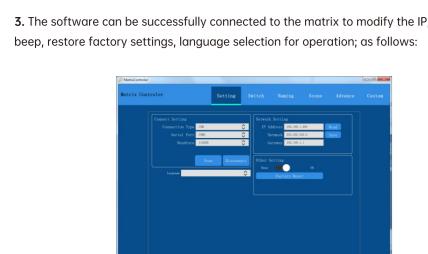




2.Click"serial port options" to enter the establishment of the matrix and software connection to the computer to connect to the serial port "com3" for example, baud rate of 115200, after the completion of the operation, click"Connect" to confirm. After the operation is completed, click "Connect" to confirm that the matrix will emit a "drop" sound after successful connection to indicate a successful connection, and if there is no



3. The software can be successfully connected to the matrix to modify the IP, switch the



channel is displayed on the 4th screen).

close f)Refresh: Check the current latest status

and click "OK" as shown in the figure below:

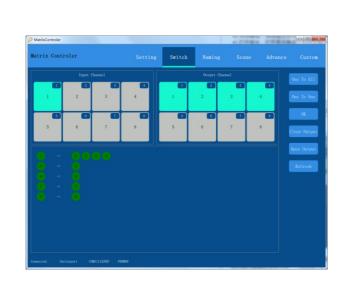
(2) Control of display operations

Software control input and output channel correspondence a) After selecting an input channel, click on itto display it on all screens (e.g., input channel 3 is displayed on all screens). b) One-to-one: Quickly correspond to the display button (equivalent to the OTO button) all input channels and output channels are displayed one by one (e.g. the 4th input

c) OK: After selecting the input channel, click on the desired output channel to display 1 channel video on 1 or more screens d) Close output: Close the display screen(closse the output screen that does not need to be displayed) e) Open output: open the display screen (open the output screen that was previously

1. Click on the "Channel Switching" screen (using the first input to output "1.2.3.4"

as an example) and select input channel "1" and output channel "1.2.3.4". "1.2.3.4"



To switch one audio/video signal to all output channels simultaneously (e.g., all output s are 8 channels), select the input channel and click "Pair All" directly. Switching screen s are displayed one by one (e.g. 1-1, 2-2, 3-3, 4-4) Click "One to One" directly.

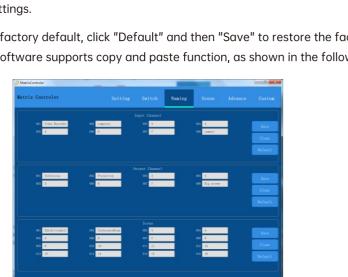
2. Close the screen that you do not want to display, click the corresponding output channel (e.g., output "1.2.3.4"), and then click "Close Output", the number of the output channel will turn "red" to indicate that the output is not displayed, as follows The figure shows:



If you need to open output channel "1.2.3.4", select output channel "1.2.3.4" and click"Open Output", the number of the output channel will change to "blue", indicating that the output is displayed. The output channel number will turn "blue"and the output

(3) Channel Naming

To restore the factory default, click "Default" and then "Save" to restore the factory settings. The software supports copy and paste function, as shown in the following



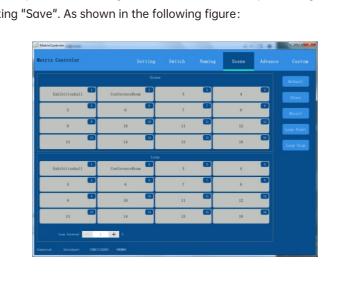
will be displayed as shown in the following figure:

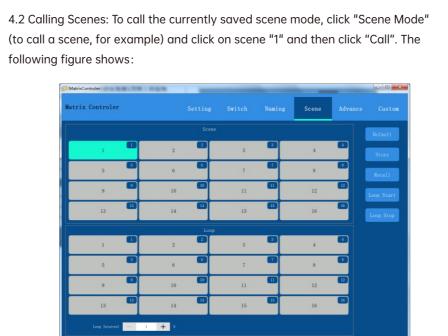
CONTROL

1, click the "channel naming" interface, click directly enter the name to be changed: input channel, output channel, scene, click "Save" after the operation is complete. If you want to restore the factory default, click "Default" and then click "Save" to restore

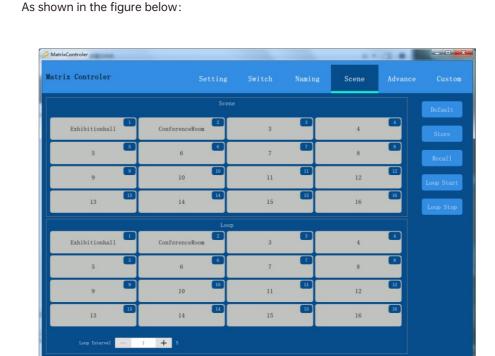


4.1 Saving Scenes: The current matrix state is saved, such as switching from input to all output operations, clicking "Scene Mode" (for example, saving in a scene) and then clicking "Save". As shown in the following figure:





4.4 Polling setting: The current saved scene mode is switched cyclically, and the longest time between the two modes can be set to "9999" seconds. Take the saved scene mode as an example, select "1.2.3.4" for polling switching, and set the time to 5 seconds.



4.5 Stop Polling: Click "Stop Polling" to stop the polling switch.

the buzz er off, switch will not hear the buzzer sound.

Common faults and maintenance

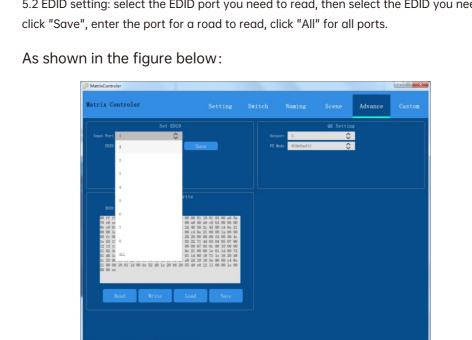
5.1 EDID setting (input source EDID that can be learned), EDID reading and writing

(5) Advanced Setting

(canread, write, export, save)

As shown in the figure below:

5.2 EDID setting: select the EDID port you need to read, then select the EDID you need,



No.1 EDID Name ~8 | input 1 ~ 8 | Input port EDID Save the user's EDID data, where the user can 9~13 User 1~ 5 save the EDID 14~21 output 1 ~ 8 Reads the EDID from the corresponding 1-8 output 2 HD8Stereo 1920x1080p_60HZ_8bit_Stereo 23 | HD8DOLBYDST | 1920x1080p_60HZ_8bit_DolbyDTS 24 HD8LossLess 1920x1080p_60HZ_8bit_Lossless 25 | HD12Stereo3D | 1920x1080p_60HZ_12bit_3D_Stereo 26 | HD12Dolbydts | 1920x1080p 60HZ 12bit 3D Dolby DTS 1920x1 P7 | HD8Suport 4k | 080p_60HZ_support4K 28 4K30Pstereo 3840x2160 30HZ 8bit Stereo 29 4K30_5.1 3840x2160_30HZ_8bit_5_1

31 | 4K30_DTS | 3840x2160_30HZ_8bit_DTS



WEB control: (Web control method is the latest and most convenient way to switch, in a local area network, cell phones, computers, tablets can open the

browser for control) Use WEB control method and step by step operation as 1. In the same LAN, connect the cell phone, tablet to WI-FI, and connect the control computer and matrix to the same router or switch. 2. Open the web browser of the cell phone, tablet or computer, and enter the IP address of the matrix at the URL: 192.168.1.200. 192.168.1.200 (the IP address of the matrix can be queried by down). **3.** Enter the account number: admin, password: admin, and log in. If the IP address of the router is not 192.168.1.XX, but 192.168.2.XX, you need to modify

① Modify the IP address of the matrix: directly use the "MatrixControler" software to modify the matrix IN using a serial cable, open the software, modify the IP address to 192.168.2.XX, note that the modified IP address, in the LAN, is not occupied. After the modification, repeat the previous steps 1-3.

the IP address of the matrix or the IP address of the Internet.

computer, open the router settings, modify the IP address of the router to 192.168.1.XX, and then repeat steps 1-3.

Note: Account password is not recommended to change, forget the password,

you need to restore the factory settings.

② Modify the IP address of the Internet: take a router or switch, connect a



1--On/off button 2--On/off buzzer sound 3--Save Save scene key 4--Recall Calling the scene key 5--Fun Menu function key 6--Cancel Return key 7--ALL All keys, execute all switching commands when switching 8--EDID Learning Key 9--Up and down keys in the menu function can turn the page operation 10--OK key to confirm the operation 11--0-9-key numeric key area

Note: Left and right keys have no role, F1-F8 keys are

reserved function keys; For example: For 1-to-1 operation steps: 1--1--OK 1 to all operation steps : 1--ALL--OK Steps for storing scenes: Save--up and down keys (1-16 modes)--OK Operation steps to call up a scene mode: Recall--up and down keys (1-16

modes)--OK EDID learning operation steps: 1. 1, a way EDID - number keys (1-8) - up and down keys to select the mode - OK 2、All EDIDs--ALL---up and down keys to select the mode--OK

IR code corresponding to the remote control

4.4	40		4.5		
07	15		09		
16	19		0D		
ОС	18		5E		
08	1C		5A		
42	52		4A		
User Code: OOFF					
A8			88		
90	0.7				
	83	98	82		
93	9C	98 8C	82 D6		
		8C			
93	9C	8C	D6		

87 86

8B 8A

8F 8E

QD21D-1PCB code table OOFF

	_	Input Port	4*HDMI	l	8*HDMI	- 1	16*
43			4^HDMI		0^HUNII		16*
	-	Equipment height	10				
09	_	Support	480i/480p/576i			Op/@25.3	30.50.6
0 D		Resolution	1080p3D@60/4K*2K@30hz				
5E		Control Interface	RS232 IN *1/RS232 OUT*1/LAN*1				
5A		HDMI Version HDMI 1.4					
4 A		HDCP Version	HDCP 1.2				
		Color Space	Support R GB, Y X.V.COLORexte				
88	7	Audio Out put	Supportleftandrightanal ogstere o sound				
82		Static pr otecti on	Human body discharge mode: ± 8KV (air gap dischar (elect ric)				scharg
D6		Cont r ol meth od	Standard: but t on, RS, rem ote cont r ol swit ch Opt WEB cont r ol,APP cont r ol				Opti o
96	1	Power supply	DC12V2A DC			DC12V	
99		Input Volt age Po	AC100V~260AVC,50/60HZ				
A4		wer consumpti on	8W		15W		
85		Dimensions	430.8*136.5*45 (Without lugs		430.8*136.5* (Without Iu		439 (W
89		Operating					
8D		temperat ure		0°C~	40°C/32°F~104°	F	
94	-	St orage temperat ure		-20°C ~	20°C ~ 40°C / ~4°F ~ 104°F		

Technical Parameter

	Mat	rix swi	tch parameters		
me	HDMI HD Matrix				
tput Port	4*HDMI 8*HDMI				16*HDMI
out Port	4*HDMI 8*HDMI				16*HDMI
uipment ight	10				2U
pport solution	480i/480p/576i/576p/720p/1080i/1080p/@25.30.50.60hz/ 1080p3D@60/4K*2K@30hz				
ntrol erface	RS232 IN *1/RS232 OUT*1/LAN*1				
MI Version	HDMI 1.4				
CP Version	HDCP 1.2				
lor Space	Support R GB, YUV, YUV colorspace, support X.V.COLORextendedc olor gamutstandard				
dio t put	Supportleftandrightanal ogstere o sound				
atic otecti on	Human body discharge mode: ± 8KV (air gap discharge) ± 4KV (elect ric)				
nt r ol th od	Standard: but t on, RS, rem ote cont r ol swit ch Opti onal: WEB cont r ol, APP cont r ol				
wer supply	DC12V2A				DC12V3A
out It age	AC100V~260AVC,50/60HZ				
r nsumpti on	8W	15W			30W
nensions	430.8*136.5*45 (Without lugs		430.8*136.5*45mm (Without lugs)		439*251*88mm (Without lugs)
erating nperat ure	0°C~40°C/32°F~104°F				
orage	-20°C ~ 40°C / ~4°F ~ 104°F				

Rs232 communication protocol and central control command code description.Direct connection (if USB-RS232 conversion cable is used, it can be directly inserted into the matrix serial port for control) Communication protocol: (baud rate 115200, stop bit 1, data bit 8, check bit NONE) 232 communication protocol and central control command code

description:				
Туре	Control command	Function Description		
	[x1]ALL	Switching the input of [X1] road t o all road outputs		
	[x0]ALL.	Turn all outputs off		
	[x0]X[X1].	Turn off Output [X1]		
	ALL[1].	Set all channels to corresp ond one to another, eg. 1->1, 2->2, 3->3		
Operation instruction	[x1]X[X2].	Switching [x1] input t o [X2] output		
	[x1]X[X2].&[X3]&[X4].	Switches [x1] t o [X2] , [X3] and [X4] outputs		
	Save[Y].	Save the current document stat us to the [Y] memory cell, [Y] is the number key from 1 to 9		
	Recall[Y].	Calling the input and output switching status of the [Y] memory cell [Y] for 1-9 numeric keys		
	ReenON	Turn on the huzzer		

1.[x1], [x2], [x3], [x4] are the number of input and output channels, depending on the matrix controlled, such as the matrix controlled is 8*8 matrix, then their valid range is 1-10, such as out of range, it is treated as a command input error, the "[" and "]" in the command " are not sending characters. 2. The ending character of each instruction cannot be omitted, and there is a ". at the end of each instruction. punctuation in the English input method. 3.Letters are not case sensitive. Examples of some instruction codes: ①To switch the input of [x1] channel to all channels of output: [x1]ALL. Example: To switch the 3rd input to all channels of output, enter '3ALL. Switching [x1] to [x2], [x3], [x4] outputs ②Set to all channels one by one: ALL[1]. Example: For example, a 10*10 mixed matrix, after running, the status is: 1->1, 2->2,.9->. Enter 'ALL1.

Turn off t he buzzer

3. Video switching command: [x1]X[x2]. Example: To switch the 3rd input to the 5th output, just input "3X5.": if you want to switch the 3rd input to the 5th, 6th, 7th and 8th outputs, just input "3X5&6&7&8.

4. Save the current state command: Save[Y]. Example: To save the current state to the 7th memory cell, input "Save7. 5. Recall the stored cell command: Recall[Y]. Example: To call the state of the 7th memory cell to configure the input and output state of the matrix, enter "Recall7. the buzzer on and off: Example: BeepON., the buzzer open, switch can hear the buzzer sound BeepOFF.,

2. When there is a loss of color or no video signal output, it may be that the signal line connectors at both ends do not correspond well. 3. When the serial port (refers to: computer or central control serial port) can not control the matrix, please check the software serial port port number selection is correct;. 4. If the matrix input and output signals can be switched, but there is no drop sound, it may be that you turn off the buzzer sound;. **5.** The matrix switch, the buzzer sounded, but no corresponding projection image output:

1. Large signal interference: check whether the signal connection cable and plug are

good, whether the cable meets the specification requirements, whether the system

grounding is good, and whether the AC power ground system between the devices is

to detect) If there is no signal input, it is possible that the input wiring is broken, or the connector is loose, replace the line can be. (2) See if there is a signal at the corresponding output. (Use an oscilloscope or multimeter to test) If there is no signal output, the output wire may be broken or the connector may be loose, so replace the wire. (3) If both of the above cases do not work after replacement, the main unit may have an internal fault, so please send it to a professional for repair.

(1)See if there is a signal at the corresponding input. (Available oscilloscope or multimeter

6. If the LED display is not displayed and the operation is not responsive, the power supply may not 7. When connecting the connector, if you feel that the static electricity is strong, it is possible that the power ground is not connected to the earth, please connect it normally, otherwise it is easy to damage the host and shorten the life of the host. 8. The matrix panel keys, serial ports, remote control can not be controlled, the host may have been



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damaged internally, please send professionals for repair.

30 4K30 AC3 3840x2160 30HZ 8bit AC3

According to customer demand, you can modify the equipment LCD display information, and click "Save" directly after modification, the password is "654321" as shown below

1-800-521-8467