



USER MANUAL

4K HDMI Matrix 4x2 JHM28/4X2

Enjoy the vivid world !

INTRODUCTION

The HDMI matrix 4x2 can connect 4 HD signal sources to 2 HD display terminals with optical fiber or stereo headphone output. The matrix allows four HDMI devices to be switched or split easily to two HDMI compatible monitors or projectors. And any output port can realize independent audio output by optical fiber or stereo head phone.

Our devices offers solutions for noise, space and security concerns, data center control, information distribution, conference room presentation, school and corporate training environments.



Features :

- Support HDMI 1.4b
- Support 3D video format
- Support highest resolution up to 3840*2160/30Hz
- Support 3.4Gbps x 3 data rate and tmds clock up to 340Mhz
- Support deep color 8/10/12 bit
- Support 2 HDMI audio outputs, 3.5mm earphone jack and optical output at same time
- 4 HDMI inputs switch and split to 2 HDMI displays.
- Support LPCM/Dolby/DTS 5.1 channel

SPECIFICATIONS:

HDMI version.....HDMI 1.4b

HDMI resolutionup to 3840*2160/30Hz

Support video format8/10/12 bit deep color

Support audio format.....LPCM/DTS/Dolby-AC3

Max bandwidth.....340MHz

Max baud rate.....3.4Gbps x 3

Input cable distance.....≤10m AWG26 HDMI 1.4 standard cable

Output cable distance.....≤15m AWG26 HDMI 1.4 standard cable

HDMI Input.....4

HDMI Output.....2

Max working current.....600mA

Power adapter format.....Input: AC (50HZ, 60HZ) 100V-240V; Output: DC5V/1A

Operating Temperature range.....(-15 to +45°C)

Operating Humidity range.....5 to 90%RH (No Condensation)

Dimension (L x W x H).....199x70x27 (mm)

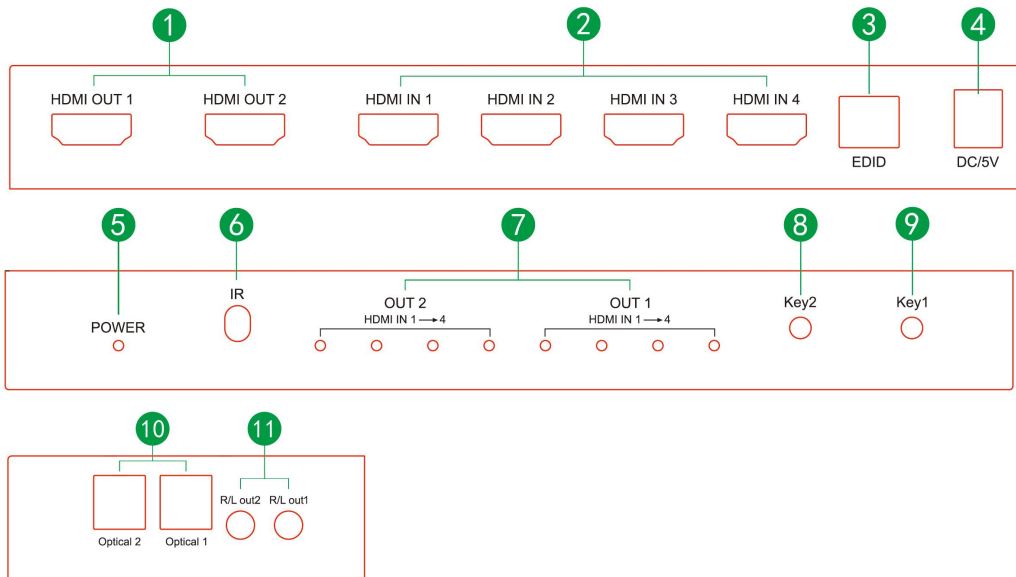
Weight.....300g

Product picture:





Physical Connection Showing Picture:



- 1: HDMI OUT1-2 --- HDMI output 1-2;
- 2: HDMI IN1-4 --- HDMI input 1-4;
- 3: EDID --- EDID management
- 4: DC/5V --- 5V power supply;
- 5: POWER ---Power Indicator
- 6: IR --- IR Receive;
- 7: HDMI IN1→4 --- HDMI input indicator
- 8: Key2 --- Video switching button
- 9: Key1 ---Video output switching button
- 10: Optical1-2 --- Optical output
- 11: R/L OUT1-2 --- Stereo output

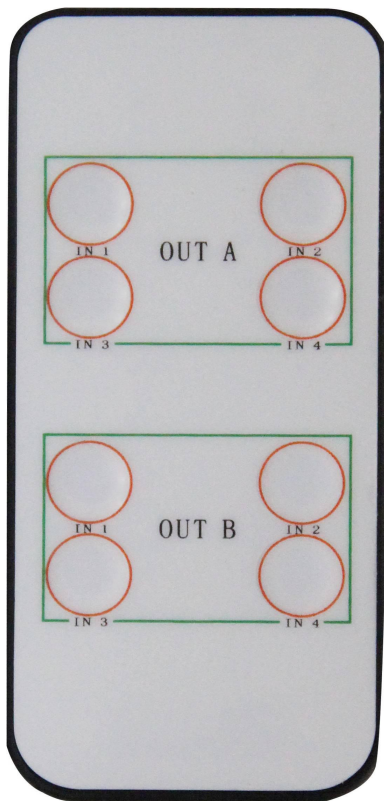
EDID setting

Position 1	Position 2	Position 3	Position 4	Function
0	0	0	0	Copy the EDID of HDMI OUT 1
0	0	0	1	Copy the EDID of HDMI OUT 2
0	0	1	0	3D 1080P 2 CH LPCM

0	0	1	1	3D 1080P 5.1 CH (LPCM/Dolby/DTS)
0	1	0	0	2D 1080P 2 CH (LPCM)
0	1	0	1	2D 1080P 5.1 CH (LPCM/Dolby/DTS)
0	1	1	0	3D 4k 2 CH (LPCM)
0	1	1	1	3D 4k 5.1 CH (LPCM/Dolby/DTS)

Noted: the dial switch to dial downward is 1, dial upward is 0

The Remote Control instruction:



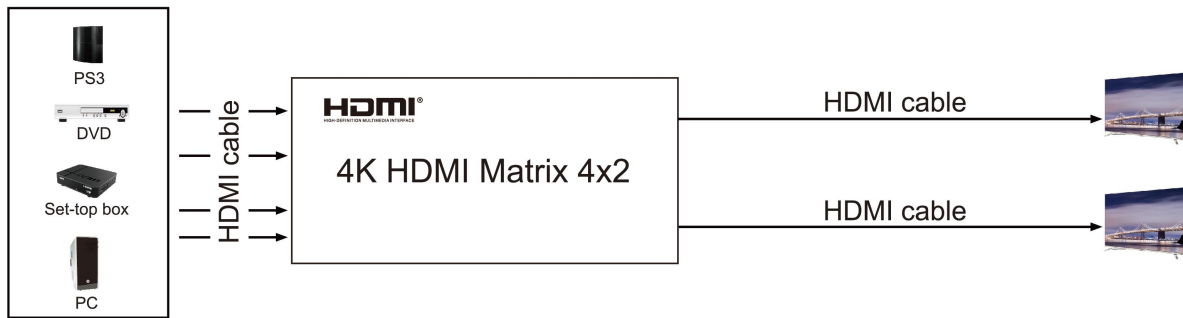
1) The four buttons on OUT A is the corresponding input source IN1-IN4 which out from OUT A, IN1-IN4 can be switched freely.

2) The four buttons on OUT B is the corresponding input source IN1-IN4 which out from OUT B, IN1-IN4 can be switched freely.

Instruction of Buttons and LED:

1. Instruction of LED: IN1-IN4 indicator is the corresponding input sources out from OUT A or OUT B.
2. Operation of Buttons: SWITCH A or SWITCH B is used to switched the corresponding input source out from OUT A or OUT B.
3. Press the "SWITCH A" button of 4x2 HDMI Matrix for around 5 seconds, it can switch between 5.1 and 2.1 audio channel.

Application diagrams :



4 HDMI signal source input, connect to HDMI Matrix 4x2 via HDMI cable, and then connect the HDMI Matrix to 2 TVs by HDMI cable

Operating and Connecting:

1. Connect each HDMI source device and input of HDMI Matrix with HDMI cable
2. Connect display devices and output of HDMI Matrix with HDMI cable.
3. Connect audio output and stereo amplifier with stereo headphone or fiber
4. Use the IR remote control to switch the signal source freely.
5. Connect 5V power supply to the HDMI 4x2 Matrix.

Accessories :

1. 4K HDMI Matrix 4X2
2. IR Remote Control
3. 5V power adapter
4. User Manual

Notes:

Pls use the machine as the instruction listed to keep the long use lifetime of the machine.

1. The machine should be placed at the spot far from the Damp, High-Temperature, Dusty, Erosive, and oxidative environment.
2. All parts will be free from the strong shake, hit, fall.
3. Touching the power adaptor with the wet hands is prohibited.
4. Pls hold the power adaptor head and do not pull the power cord when cut off from the socket.

5. Pls turn the power off when the machine is not used for long time.
6. Pls do not open the cover and do not touch the inside parts.
7. Pls use the original factory power adptor.

Before power on, pls check the connection line carefully. And make sure that all interfaces are normally connected. The common trouble shooting way shows below:

Serial NO	Trouble Description	Cause and Ways to deal with
1	Non-Power-Connected	1 、 Check if the power adaptor head is truly and correctly inserted the power socket. 2、 Check the power switch if it is in on status.
2	No Picture	1 、 Pls make sure that the TV is on and has been connected with the machine. 2 、 Check if the signal source is on and well connected. 3、 Check the system connection quality. 4、 Check if the line is all good quality. 5、 Check the cable quality
3	Obscure Picture	1、 To try again to connect the cable to be free from the unsuccessful connection. 2、 HDMI Cable Quality
4	Remote	1、 Pls check if the film that stops the current has been taken out. 2、 Check if the remote battery is working full.