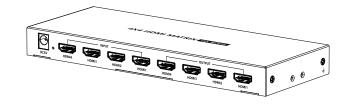
User Manual

4x4 HDMI Matrix Switch



Important Safety Instructions

- 1. To prevent electric shock, please ensure that all apparatus is properly grounded.
- 2. Do not place this apparatus near or over a radiator or heat register, or where it is exposed to direct sunlight.
- 3. Place the device in a well-ventilated area, do not block any ventilation openings.
- 4. Do not expose this apparatus to rain or place it near water. Any liquid that goes into the apparatus may cause a failure, fire, or electric shock.
- 5. Do not place the device on an uneven or unstable surface. The device may fall resulting in a malfunction.
- 6. Never insert anything metallic into the open parts of this apparatus. This may cause a danger of electric shock.
- 7. If a three-party power supply is used, please ensure that the power supply specifications meet the product requirements.

Introduction

This is a 4 in 4 out HDMI matrix switch, it can switch 4 HDMI input signals to 4 HDMI displays as needed. It supports up to 4096x2160@60Hz HDR UHD resolution, and a variety of switching methods (IR remote control, buttons and RS232) flexibly match input and output devices; Any two of the four HDMI outputs support Auto Down-scaling. This unit is a reliable, ultra-high-definition video transmission solution, which is widely used in security monitoring, education and training, exhibition and broadcasting, command center and other scenarios.

• Features	•
1. Support 4 HDMI input signals and 4 HDMI output signals.	
2. Support up to 4096x2160@60Hz resolution and is backward compatible.	
3. Support HDR10.	
4. Support multiple switching mode: IR remote control, buttons, RS232.	
5. Support setting the EDID of the product.	
6. Any two of the four HDMI outputs support Auto Down-scaling.	•
7. Lightning protection, surge protection, ESD protection.	
Package Contents	

Matrix Switch x1

Power Adapter 5V/1A x1

User Manual x1



Remote Control x1

Screw x2



Mounting Ear x2



Screw x6







Terminal block x1





Installation Requirements

1. Source device: signal source with HDMI output interface, such as PS4, TV box, PC, etc.

2. Display device: 4K or 1080P display device with HDMI input interface, such as TV, projector.

Panel Description

 1234	l [
	8 9			
Power indicator	When there is power, the indicator will light solid yellow			
R receiving window	Receive IR signal			
RS-232	Used for RS-232 command control			
DID DIP	Switch output display resolution			
HDMI input ndicator 1,2,3,4	Corresponding to HDMI input 1,2,3,4 respectively			
HDMI output Switch 1,2,3,4	Control the switch of HDMI output 1,2,3,4 respectively			

7	DC5V	Connect with DC5V/1A power adapter
8	HDMI input 1,2,3,4	Connect with HDMI source device
9	HDMI output 1,2,3,4	Connect with HDMI display device

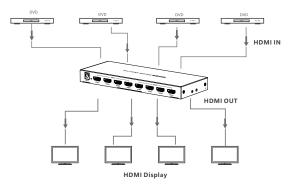
Remote Control

This remote control is just used for inputs or outputs switched.



Installation Procedures

1. Connection Diagrams



2. Connection Instructions

1) Connect the source devices to the HDMI input ports with HDMI cables. 2) Connect the display devices to the HDMI output ports with HDMI cables. 3) Power on the devices to get started.

3. RS-232 control

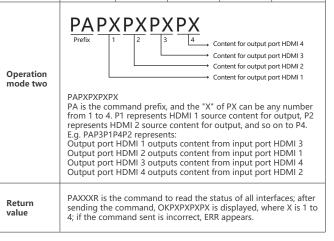
Baud rate: 9600

Data bits: 8

stop character: 1

Parity: none

	/	HDMI1 input	HDMI2 input	HDMI3 input	HDMI4 input
Operation mode one	HDMI1 output	PS11R	PS12R	PS13R	PS14R
	HDMI2 output	PS21R	PS22R	PS23R	PS24R
	HDMI3 output	PS31R	PS32R	PS33R	PS34R
	HDMI4 output	PS41R	PS42R	PS43R	PS44R
	HDMI1/2/ 3/4 output	PA1R	PA2R	PA3R	PA4R



Reset	Device restart
Recover	Restore device factory setting
BaudXX	Set baud rate value: 9600 (default), 19200

4. EDID settings

The product has 16 built-in EDID states, which can be set to switch the output resolution through the DIP switch. The DIP switch up means "1" and down means "0".

DIP switch status			Desch die niefermedien		
1	2	3	4	Resolution information	
0	0	0	0	4K@60Hz 2CH	
1	0	0	0	4K@60Hz 5.1CH	
0	1	0	0	4K@60Hz 7.1CH	
0	0	1	0	4K@60Hz HDR 7.1CH	
0	0	0	1	4K@30Hz 2CH	
1	1	0	0	4K@30Hz 5.1CH	
1	0	1	0	4K@30Hz 7.1CH	
1	0	0	1	4K@30Hz HDR 7.1CH	
0	1	1	0	1080p@60Hz 2CH	
0	1	0	1	1080p@60Hz 5.1CH	
0	0	1	1	1080p@60Hz 7.1CH	

1	1	1	0	1080i@60Hz 2CH
1	1	0	1	1080i@60Hz 5.1CH
1	0	1	1	1080i@60Hz 7.1CH
0	1	1	1	1080p@60Hz HDR 7.1CH
1	1	1	1	 Read only the EDID that was first connected to the output Connect 4 outputs at the same time, only read the EDID of HDMI 1 output

• FAQ

- Q: No video or audio signal output on the displays?
- 1) Please check and make sure the matrix switch is connected well and powered on.
- 2) Please check and make sure all HDMI cables are connected well.

3) Please check and make sure the input channel of displays are correct.

Q: Picture quality is not fluent and stable?

1) Please check and make sure all HDMI cables are connected well.

2) Try to connect the source device to display device directly, or change to

another source device for a try to see the picture quality.

3) Please use high quality HDMI standard cable when HDMI 4K signal input.

Specification

Items

HDMI versi

HDMI inter

Transmissio Bandwidth

Resolution

Audio form

RS-232

Voltage

Power cons

Working te Storage ten

Humidity

Housing

Color

Weight

Dimensions

Protection

Description					
HDMI2.0 (HDR, YUV4:4:4)					
Compatible with HDCP2.2,HDCP1.4					
4 HDMI input, 4 HDMI output					
18Gbps					
600MHz					
480i@60Hz, 480p@60Hz, 576i@50Hz, 576p@50Hz, 720p@50/60Hz, 1080i@50/60Hz, 1080p@50/60Hz, 3840×2160@24/25/30/60Hz, 4096×2160@24/25/30/60Hz					
LPCM7.1/DTS-HD/DTS-Audio/Dolby Digital plus/ Dolby TrueHD 7.1/Dolby Digital 7.1CH/Dolby Atmos					
3 Pin(GND/Rx/Tx), Baud rate 9600					
DC5V/1A					
< 4W					
-20°C~60°C					
-30°C~70°C					
0~90%RH(No Condensation)					
Iron					
Black					
375g					
210.0(L)*80.0(W)*21.0(H) mm					
ESD protection 1a Contact discharge level 2 (±4KV) 1b Air discharge level 3 (±8KV) Implementation of the standard: IEC61000-4-2					
Lightning protection, Surge protection					

Disclaimer

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