

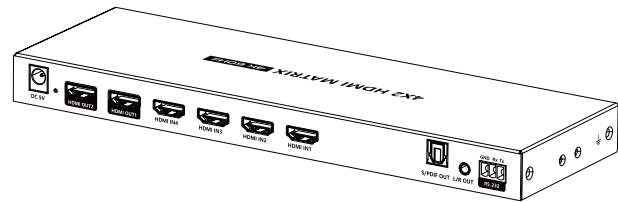
材质:157g铜版纸 正反印刷

H22060英文说明书AH1 : 0106010022019

尺寸: 100x138mm

User Manual

4x2 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.

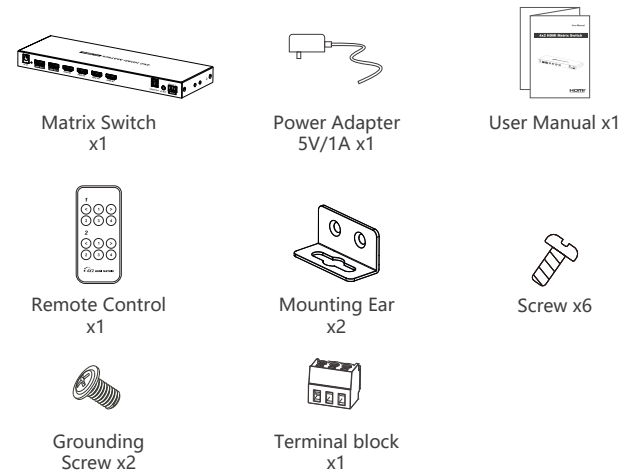
• Introduction

This is a 4 in 2 out HDMI matrix switch, it can switch 4 HDMI input signals to 2 HDMI displays as needed. It supports up to 4096x2160@60Hz HDR UHD resolution, and a variety of switching methods (IR remote control, buttons and RS-232) flexibly match input and output devices; Both HDMI outputs support Auto Down-scaling, S/PDIF digital audio and 3.5mm stereo audio separation output. 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 and 2 HDMI output
2. Support up to 4096x2160@60Hz resolution and is backward compatible
3. Support HDR10
4. Support multiple switching mode: IR remote control, buttons, RS-232
5. Support 3.5mm stereo audio separation output
6. Support S/PDIF digital audio separation output
7. Both HDMI outputs support Auto Down-scaling
8. Lightning protection, Surge protection, ESD protection

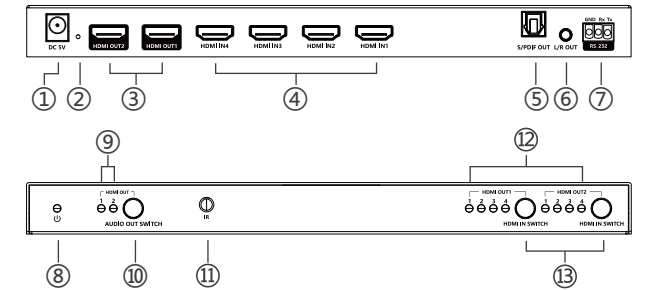
• Package Contents



• 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

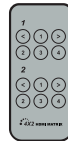


① DC5V Power Input	Connect with DC5V/1A power adapter
② Reset Hole	Press the pinhole reset button with a straightened paper clip
③ HDMI Output 1,2	Connect with HDMI display device
④ HDMI Input 1,2,3,4	Connect with HDMI source device
⑤ S/PDIF Out	Connect the sound box or power amplifier device
⑥ 3.5mm L/R Out	Connect the sound box or power amplifier device
⑦ RS-232	Used for RS-232 command control
⑧ Power Indicator	When there is power, the indicator will light solid
⑨ Audio Out Indicator 1,2	Respectively corresponding HDMI outputs 1,2 port audio
⑩ Audio Switch	Switch HDMI outputs 1, 2 ports of audio

① IR Window	Receiver IR signal
② HDMI Inputs Indicator 1,2,3,4	Corresponding to HDMI inputs 1,2,3,4 respectively
③ HDMI Output Switch 1,2	Select any one output from HDMI inputs 1,2,3,4

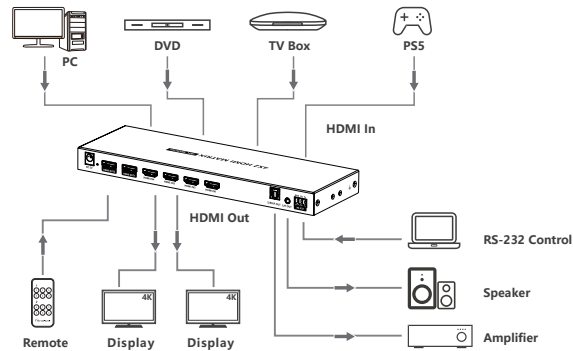
Remote Control

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.

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3. RS-232 control

Baud rate: 9600

Data bits: 8

stop character: 1

Parity: none

Operation mode one	/	HDMI1 input	HDMI2 input	HDMI3 input	HDMI4 input
HDMI1 output		PS11R	PS12R	PS13R	PS14R
HDMI2 output		PS21R	PS22R	PS23R	PS24R
HDMI1/2 output		PA1R	PA2R	PA3R	PA4R

Operation mode two	PAPXPX
	<p>Prefix 1 2</p> <p>Content for output port HDMI 2 Content for output port HDMI 1</p>
	<p>PAPXPX PA is the command prefix, and the "X" of PX can be any number from 1 to 4 P1 represents HDMI 1 source content for output, P2 represents HDMI 2 source content for output.</p> <p>E.g. PAP3P1 represents: Output port HDMI 1 outputs content from input port HDMI 3 Output port HDMI 2 outputs content from input port HDMI 1</p>

Return value	PAXXR is the command to read the status of all interfaces; after sending the command, OKPXPX is displayed, where X is 1 to 4; if the command sent is incorrect, ERR appears.
Reset	Device restart
Recover	Restore device factory setting
BaudXX	Set baud rate value: 9600 (default), 19200

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FAQ

Q: No video or audio signal output on the displays?

A:

- 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?

A:

- 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	Description
HDMI version	HDMI2.0 (HDR, YUV4:4:4) Compatible with HDCP2.2,HDCP1.4
HDMI interface	4 HDMI input, 2 HDMI output
Transmission rate	18Gbps
Resolution	480i@60Hz, 480p@60Hz, 576i@50Hz, 576p@50Hz, 720p@50/60Hz, 1080i@50/60Hz, 1080p@50/60Hz, 3840×2160@24/25/30/50/60Hz, 4096×2160@24/25/30/50/60Hz

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Audio format	LPCM7.1/DTS-HD/DTS-Audio/Dolby Digital plus/ Dolby TrueHD 7.1/Dolby Digital 7.1CH/Dolby Atmos
RS-232	3 Pin(GND/Rx/Tx), Baud rate 9600
Voltage	DC5V/1A
Power consumption	< 4W
Working temperature	-20°C~60°C
Storage temperature	-30°C~70°C
Humidity	0~90%RH(No Condensation)
Housing	Iron
Color	Black
Weight	375g
Dimensions	250.0(L) x 80.0(W) x 21.0(H) mm
Protection	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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