材质:157g铜版纸 正反印刷

尺寸: 100x138mm

# H22060英文说明书AH1 : 0106010022019

# **User Manual**

# **4x2 HDMI Matrix Switch**





# • Important Safety Instructions

- To prevent electric shock, please ensure that all devices are properly grounded.
- 2. Do not place this device 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 device to rain or place it near water. Any liquid that goes into the device 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 device. This may cause a danger of electric shock.
- 7. The device should be repaired only by a qualified technician.
- If a third-party power supply is used, please ensure that the power supply specifications meet the product requirements.

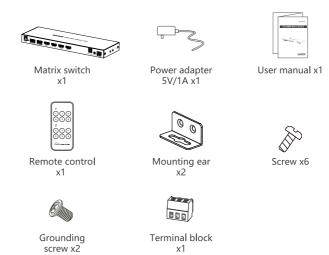
#### Introduction

This is a 4-in 2-out HDMI matrix switch, which can switch 4 HDMI input signals to 2 HDMI displays as required. It supports up to 4096x2160@60Hz HDR resolution, with multiple switching methods (IR remote control, buttons, RS-232) to flexibly match input and output devices. HDMI outputs support auto down-scaling. Additional audio output is supported through the S/PDIF port and stereo jack. This device is a reliable, ultra-high-definition video transmission solution 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 additional audio output from stereo jack and S/PDIF port
- 6. HDMI outputs support auto down-scaling
- 7. Lightning protection, surge protection, ESD protection

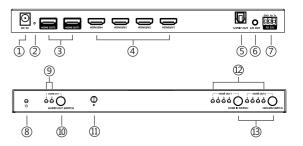
# Package Contents



## • Installation Requirements

- 1. HDMI source device (DVD, game console, PC, etc.)
- 2. HDMI display device (TV, projector, LED screen, etc.)

# Panel Description



1	Power input	Connect with DC 5V/1A power adapter
2	Reset pinhole	Press the pinhole reset button with a straightened paper clip
3	HDMI output 1,2	Connect with HDMI display devices
4	HDMI input 1,2,3,4	Connect with HDMI source devices
(5)	S/PDIF out	Connect to the audio device with optical audio cable
6	3.5mm L/R out	Connect to the audio device with stereo audio cable
7	RS-232	Used for RS-232 command control
8	Power indicator	The indicator will be solid yellow if there is power
9	Audio output indicator 1,2	Corresponding to the audio output of HDMI 1, 2
10	Audio switch	Audio output can be switched between HDMI 1, 2
11)	IR window	Receive IR signal

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12	HDMI input indicator 1,2,3,4	Corresponding to HDMI inputs 1,2,3,4
13)	HDMI output switch 1,2	Choose an output from HDMI inputs 1,2,3,4

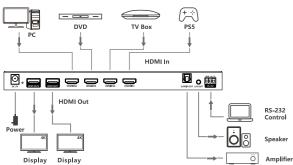
## **Remote Control**

The remote control is used to switch inputs and outputs.



#### 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) If using RS-232 control, connect the control device to the RS-232 port.
- 4) If you need to output audio additionally, connect the audio device to the L/R port and/or S/PDIF port with stereo or optical audio cable.
- 5) Power on the devices to get started.

#### 3. RS-232 control

Baud rate: 9600

Data bits: 8

Stop bits: 1

Parity: none

Operation	/	HDMI1 input	HDMI2 input	HDMI3 input	HDMI4 input
	HDMI1 output	PS11R	PS12R	PS13R	PS14R
mode one	HDMI2 output	PS21R	PS22R	PS23R	PS24R
	HDMI1/2 output	PA1R	PA2R	PA3R	PA4R
Operation mode two	PAPXPX Prefix  1  2  Content for output port HDMI 2  Content for output port HDMI 1  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.  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.				
Return	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.				
value					
value Reset		ommand sent			
	to 4; if the co	ommand sent	is incorrect, E		

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## FAQ

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

A

- 1) Make sure the matrix switch is powered on and all the cables are connected properly.
- 2) 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 firmly.
- 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 if is improved.
- 3) Please use high quality HDMI cable for 4K signal.

# Specification

Items	Description
LIDMI	HDMI 2.0 (HDR, YUV444)
HDMI version	Compatible with HDCP 2.2, HDCP 1.4
HDMI interface	4 HDMI input, 2 HDMI output
Transmission rate	18Gbps
Resolutions	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

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	DC 5V/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
	Lightning protection, sarge protection

## Disclaimer

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