User Manual

4x2 HDMI Matrix Switch



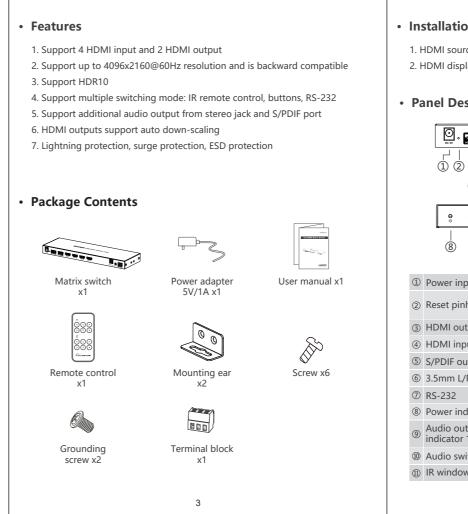


Important Safety Instructions

- 1. 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 gualified technician.
- 8. If a third-party power supply is used, please ensure that the power supply specifications meet the product requirements.

Introduction

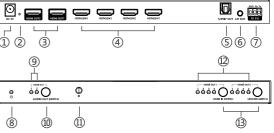
This is a 4-in 2-out HDMI matrix switch, which can switch 4 HDMI input signals to 2 HDMI displays as required. It supports up to 4096x2160@60Hz HDR resolution, with multiple switching methods (IR remote control, buttons, RS-232) to flexibly match input and output devices. HDMI outputs support auto down-scaling. 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.



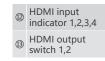
Installation Requirements

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

Panel Description



r input	Connect with DC 5V/1A power adapter
pinhole	Press the pinhole reset button with a straightened paper clip
l output 1,2	Connect with HDMI display devices
l input 1,2,3,4	Connect with HDMI source devices
F out	Connect to the audio device with optical audio cable
m L/R out	Connect to the audio device with stereo audio cable
32	Used for RS-232 command control
r indicator	The indicator will be solid yellow if there is power
o output ator 1,2	Corresponding to the audio output of HDMI 1, 2
o switch	Audio output can be switched between HDMI 1, 2
ndow	Receive IR signal



Corresponding to HDMI inputs 1,2,3,4

Choose an output from HDMI inputs 1,2,3,4

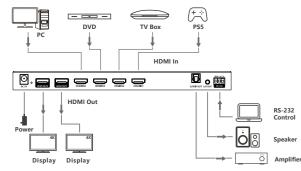
Remote Control

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	

	/	HDMI1 input	HDMI2 input	HDMI3 input	HDMI4 input
Operation mode one	HDMI1 output	PS11R	PS12R	PS13R	PS14R
	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 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				

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

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Items	Description			
HDMI version	HDMI 2.0 (HDR, YUV444)			
HDIVIT 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			

Voltage Power con: Working te Storage ter Humidity Housing Color Weight Dimension Protection

Disclaimer

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			

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