



Model Number : RKV424

4k60hz 4X4 HDMI Matrix switcher

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The 4x4 HDMI™ Matrix Switch is designed to seamlessly manage multiple video sources and displays, allowing users to switch 4 HDMI™ input signals to 4 HDMI™ outputs independently as needed. This matrix switch is suitable for applications demanding high-resolution video distribution, such as in conference rooms, control centers, or home theaters. With support up to 4096x2160@60Hz HDR UHD, it ensures outstanding visual performance for the most demanding multimedia setups.



HDMI Capabilities

Supporting HDMI 2.0 standards (YUV4:4:4), this matrix switch delivers high data transmission rates up to 18Gbps, and supports wide bandwidth at 600MHz. It provides robust compatibility, working seamlessly with HDCP 2.2 and HDCP 1.4 protected content. Users benefit from four HDMI input and four output interfaces, which allows for the connection and independent routing of multiple devices such as projectors, displays, and sources like Blu-ray players or computers.



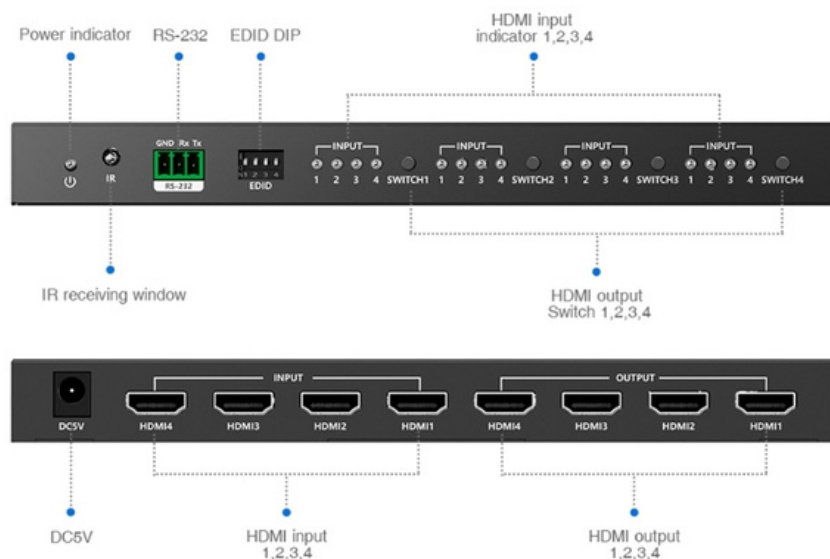
Video and Audio Performance

The matrix switch is built to handle a variety of commonly used resolutions, including 4K at 60Hz (4096x2160, 3840x2160), a range of HD and SD formats (1080p, 720p, 576p, 480p), ensuring superb compatibility with nearly any HDMI source or display. For audio, it supports LPCM 7.1, DTS-HD, DTS Audio, Dolby Digital Plus, Dolby TrueHD 7.1, and Dolby Atmos, bringing immersive sound alongside the crisp visuals.

Control and Connectivity

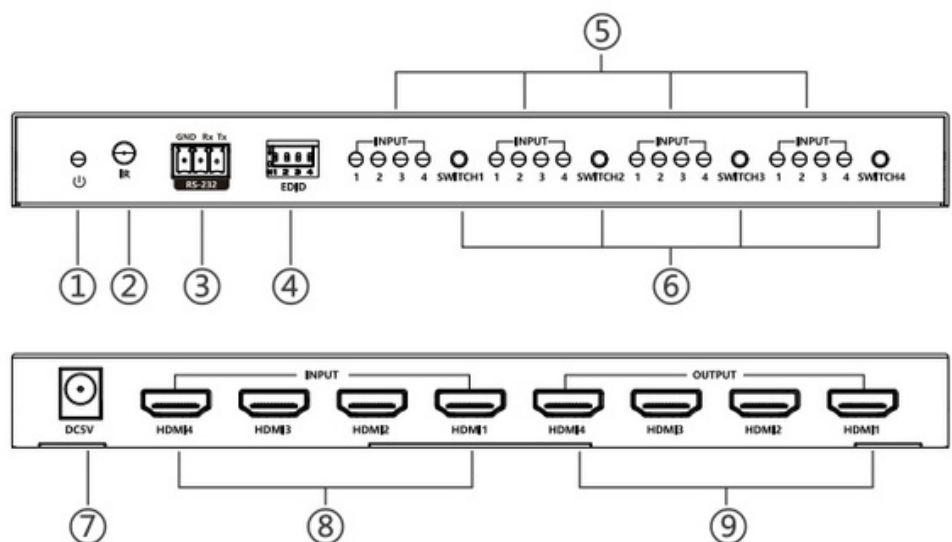
This matrix switch can be administrated in several convenient ways, including infrared (IR) remote control, buttons, and RS232 serial commands (3 Pin/9 Pin D-Sub, Baud rate 9600). These diverse control methods cater to professional installations where flexible control or automation is required. It also provides DC 5V/1A power input with low consumption (<4W), ensuring energy-efficient performance.

I/O Ports

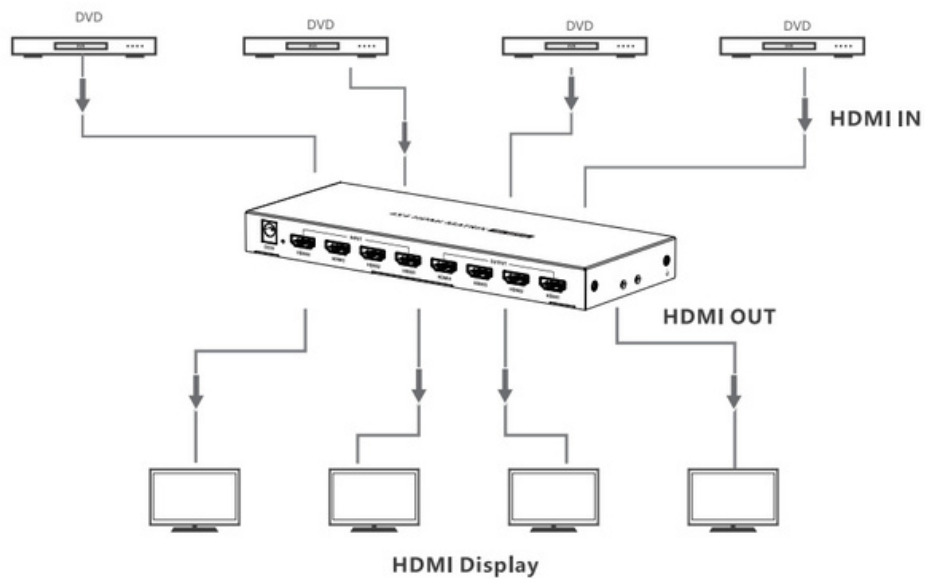


Build Quality and Environmental Specifications

Constructed with an iron housing, the matrix is durable and built for robust use, withstanding tough environments. Its black color and compact dimensions (210mm x 80mm x 21mm) allow for discreet installation. This device operates efficiently in a wide range of temperatures (-20°C to 60°C working, -30°C to 70°C storage) and tolerates humidity from 0 to 90%, making it suitable for varied professional settings.

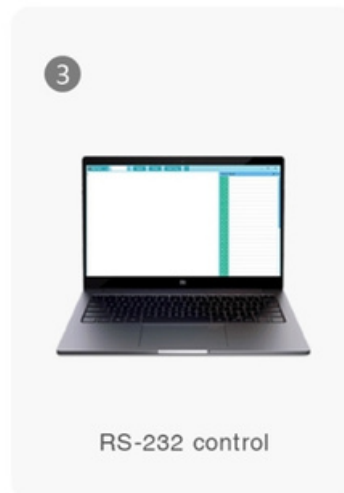
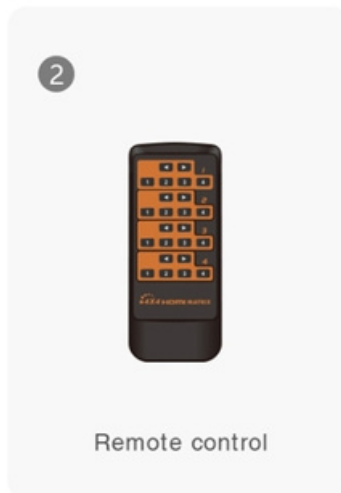


①	Power indicator	When there is power, the indicator will light solid yellow
②	IR receiving window	Receive IR signal
③	RS-232	Used for RS-232 command control
④	EDID DIP	Switch output display resolution
⑤	HDMI input indicator 1,2,3,4	Corresponding to HDMI input 1,2,3,4 respectively
⑥	HDMI output Switch 1,2,3,4	Control the switch of HDMI output 1,2,3,4 respectively



Various Control Methods

User can easily control the matrix via the front buttons, remote control and RS-232 port



Specifications Table

Items	Description
HDMI version	HDMI2.0 (HDR, YUV4:4:4)
	Compatible with HDCP2.2,HDCP1.4
HDMI interface	4 HDMI input, 4 HDMI output
Transmission rate	18Gbps
Bandwidth	600MHz
Resolution	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
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	210.0(L)*80.0(W)*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

