



Model Number : RKV818

4k60hz 8X8 HDMI Matrix switcher

This product is a 8×8 HDMI™ Matrix Switch, with 8 HDMI™ inputs and 8 HDMI™ outputs. 8 HDMI™ inputs accommodate the simultaneous connection up to 8 high definition video sources, such as satellite systems and Blu-ray players.

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The 8x8 HDMI Matrix Switch 4K@30Hz is a versatile device designed to handle up to eight HDMI input sources and eight HDMI output displays simultaneously, supporting high-definition video signals up to 4K resolution at 30Hz. It is ideal for environments requiring flexible AV signal management such as security systems, monitoring setups, conference rooms, and educational facilities .



Signal and Interface

This matrix switch utilizes HDMI 1.4 technology and is fully compatible with HDCP1.4 copyright protection standards, ensuring reliable and secure transmission of audiovisual content. It accepts up to eight HDMI input signals and distributes them to eight HDMI outputs, making it suitable for both complex and straightforward setups .

Supported Resolutions

The device supports a wide range of resolutions, including 480i, 480p, 576i, 576p, 720p, and 1080p at various refresh rates, as well as 4K@30Hz. This flexibility allows users to connect different types of source devices such as Blu-ray players, satellite systems, gaming consoles, and HD streaming devices, ensuring compatibility for virtually any AV scenario .

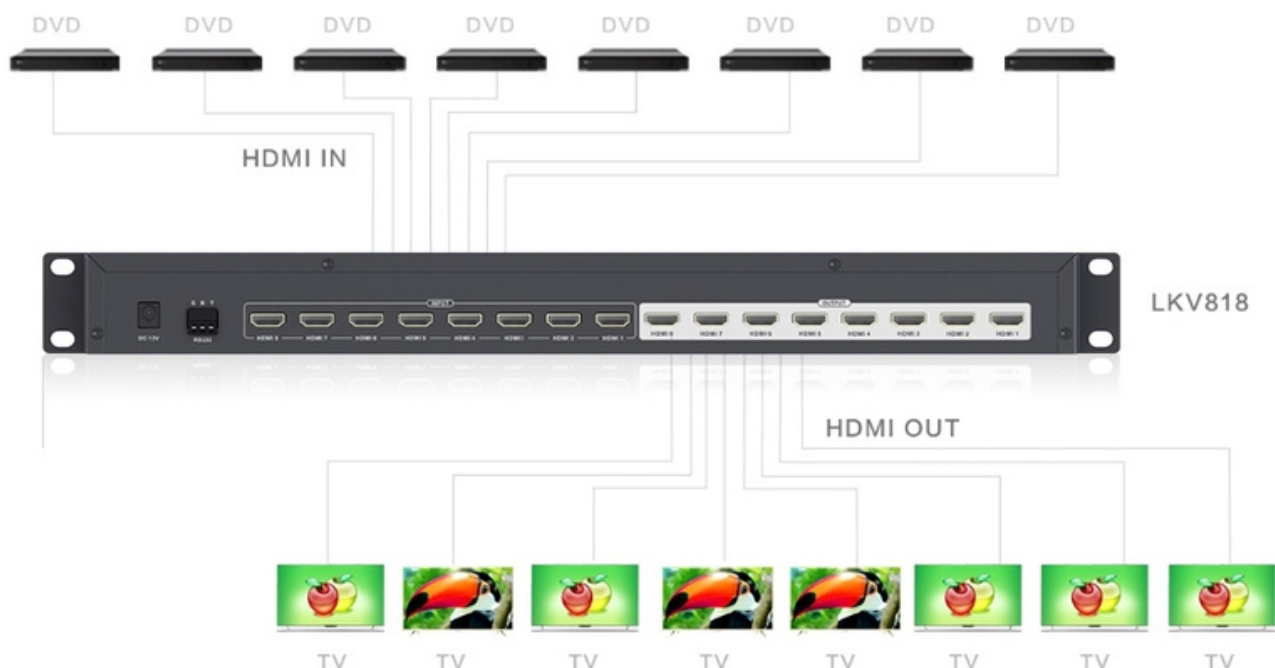
Audio and Video Formats

Audio support includes advanced formats like DTS-HD, Dolby-true HD, LPCM7.1, DTS, Dolby-AC3, and DSD, with color coding of YUV 4:2:2. The video signal path is robust, with support for voltage levels between 0.5 and 1.5Vp-p(TTL), catering to a variety of professional AV needs. The device's video bandwidth is rated at 340MHz, guaranteeing smooth and seamless signal switching and output .

Connectivity and Control



The HDMI ports are type A 19-pin female connectors, suitable for standard HDMI cables. The device also features RS232 serial control for remote operation and integration into larger AV control systems. Switching between inputs and outputs can be managed via built-in controls or external systems, enhancing usability for installations with varying complexity levels .



Different control mode, High effective and flexible



1 Button control:

Local control for switching and distribution signal, directly and quickly



2 RS232 control:

Set CHANNEL by computer easily by RS232 command, and UI provided



3 Remote control:

Switch CHANNEL at any where with the fitted remote control

Series product

There is other HDMI Matrix for choosing, below data sheet for your reference for your handing project

Item No.	Input& Output	Highest Resolution	HDCP	Bandwidth	YUV	Audio Format	Control Mode
LKV818	8x8	4K@30Hz	HDCP1.4	10.2Gbps	4:2:2	DTS-HD, Dolby-true HD, LPCM7.1,DTS, Dolby-AC3, DSD	Button control
LKV414	4x4	4K@30Hz	HDCP1.4	10.2Gbps	4:2:2		Remote control
LKV412-V2.0	4x2	4K@60Hz	HDCP2.2	18Gbps	4:2:2		RS232 control

Benefit



Signal overview

In monitor system, we can monitor different corners on centralized TVs (such as a TV wall)



Centralized control

In control center, data, picture and video can be switched and distributed between different Department freely.



Comparison

Finance analysis /consultation of doctors , we can switch and distribute different data and information for comparison and analysis.



Down Cost

Multiple kinds of control mode, LCD shows status clearly, operation cost and maintenance cost down.

Futures

- Supports 8 HDMI inputs and 8 HDMI outputs for simultaneous multi-device connectivity .
- Compatible with HDMI 1.4 and HDCP1.4 protection standard .
- Maximum resolution support up to 4K@30Hz, including 1080p and other HD/SD formats .
- Wide transmission rate of 10.2Gbps for smooth signal flow .
- Supports high-definition audio formats: DTS-HD, Dolby-true HD, LPCM 7.1, DTS, Dolby-AC3, DSD .
- Remote control and RS232 serial control supported for flexible switching .

Specifications

Parameter	Value
HDMI signal	HDMI1.4, Full compatible with HDCP1.4
Inputs	8 HDMI
Outputs	8 HDMI
Transmission rate	10.2Gbps
Support resolution	480i@60Hz,480p@60Hz,576i@50Hz,576p@50Hz,720p@50/60Hz,
Support audio format	DTS-HD/Dolby-true HD/LPCM7.1/DTS/Dolby-AC3/DSD
YUV	4:2:2
Video signal	0.5~ 1.5Vp-p(TM DS)
DDC signal	5Vp-p(TTL)
Video bandwidth	340MHZ
HDMI port	Type A 19 pin, female
RS232	RS232 serial control
Working temperature	0°C~60°C
Working Humidity	0~90% (no condensation)
Power supply	DC12V/3A
Power consumption	27W(Max)
Product dimension	482.45(L)X179.60(W)X44.40(H)mm
Weight	2.07Kg
Color	Black

