

KanexPro®

8K HDMI 4x1 Switcher



MPN: SW-4X18K

VER. 1

Thank you for purchasing this product

To ensure optimal performance and safety, it is essential to carefully read the instructions before connecting, operating, or adjusting this product. We recommend keeping this manual for future reference.

Surge protection device recommended

This product contains sensitive electrical components that may be damaged by electrical spikes, surges, electric shock, lighting strikes, etc. Use of surge protection systems is highly recommended in order to protect and extend the life of your equipment.

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1. Introduction

The 8K HDMI 4x1 Switcher is a device designed to switch between four HDMI sources and display them on a single HDMI display. It supports video resolutions up to 8K at 60Hz and 4:4:4 with 48Gbps video bandwidth, making it suitable for outdoor displays, video conferencing, security monitoring, home theaters, and other applications.

To use the switcher, four HDMI source devices should be connected to the four HDMI INPUT ports via individual HDMI cables, and the HDMI OUTPUT port should be connected to the external monitor. The switch button on the front panel of the switcher can then be used to toggle between the four sources. Please note that this switcher is not bidirectional and can only be used to switch between four sources and display them on a single display (4 in 1 out, not 1 in 4 out). The device is also compatible with gaming consoles such as Xbox and PS5, enabling a resolution of 4K at 120Hz on TVs or relative monitors.

2. Features

- HDMI 2.1 and HDCP 2.3 compliant
- Support 48Gbps video bandwidth
- 8K@60Hz 4:4:4 8/10/12bit, 8K@60Hz 4:2:0 12-bit, 8K@30Hz 4:4:4 10-bit, 4K@120Hz 4:4:4 10-bit video support
- Support HDR, HDR10, HDR10+, Dolby Vision, HLG pass through
- VRR, FVA, ALLM support
- Support HDMI audio formats: LPCM 7.1CH, Dolby TrueHD, and DTS-HD Master Audio
- 4x1 switch output, auto switch is supported
- Built-in Equalizer and Driver
- Auto EDID management
- Compact design for easy and flexible installation

3. Package Contents

1. 1 x 8K HDMI 4x1 switcher
2. 1 x IR Remote
3. 1 x 5V/1A Power Supply
4. 1 x User Manual

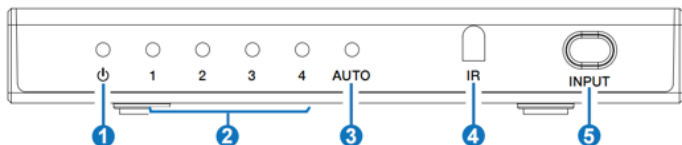
4. Specifications

Technical	
HDMI Compliance	HDMI 2.1
HDCP Compliance	HDCP 2.3
Video Bandwidth	48Gbps
Video Resolution	Up to 8K@60Hz 4:4:4 8/10/12bit, 8K@60Hz 4:2:0 12-bit, 8K@30Hz 4:4:4 10-bit, 4K@120Hz 4:4:4 10-bit
Color Depth	8-bit,10-bit,12-bit
Color Space	RGB, YCbCr 4:4:4 / 4:2:2. YUV 4:2:0
HDMI Audio Formats	LPCM, Dolby Digital/Plus/EX, Dolby True HD, DTS, DTS-EX, DTS-96/24, DTS High Res, DTS-HD Master Audio, DSD
ESD Protection	Human body model — ±8kV (Air-gap discharge) & ±4kV (Contact discharge)
Connection	
Input	4 x HDMI IN [Type A, 19-pin female]
Output	1 x HDMI OUT [Type A, 19-pin female]
Mechanical	
Housing	Plastic Enclosure
Silkscreen Color	Black

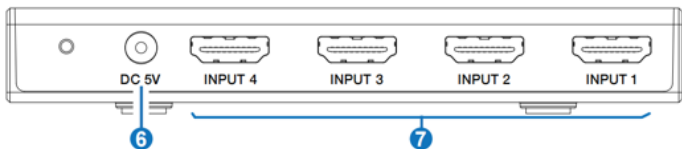
Dimensions	122mm (W) x 65mm (D) x 19mm (H)
Weight	88g
Power Supply	Input: AC100 - 240V 50/60Hz, Output: DC 5V/1A (US/EU standards, CE/FCC/UL certified)
Power Consumption	3.4W (Max)
Operation Temperature	0°C ~ 40°C / 32°F ~ 104°F
Storage Temperature	-20°C ~ 60°C / -4°F ~ 140°F
Relative Humidity	20-90% RH (non-condensing)

5. Operation Controls and Functions

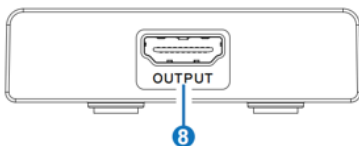
Front Panel



Rear Panel



Side Panel



No.	Name	Function Description
1	POWER LED	The power LED lights in green when the device is working.
2	INPUT LED (1~4)	When the INPUT 1/2/3/4 port is selected as the signal source input channel, the corresponding white LED will be on.
3	AUTO LED	When the auto switching mode is enabled, the corresponding white LED will be on.
4	IR Window	IR input signal receiving window.
5	INPUT Button	<ul style="list-style-type: none"> Short press this button to circularly select signal source. Long press this button for 3 seconds to enable the auto switching mode.
6	DC 5V	DC 5V/1A Power input port.
7	INPUT port (1~4)	HDMI signal input ports, connected to HDMI source device such as DVD or PS5 with an HDMI cable.
8	OUTPUT port	HDMI signal output port, connected to HDMI display device such as TV or Monitor with an HDMI cable.

Notes:

1. While using the HDMI switcher, power supply via Micro USB cable is not necessary. But in case some of your HDMI devices with insufficient power, please connect Micro USB cable to your USB devices for power supply.
2. If you need to use the switcher to output signals of 4K@ 120Hz or 8K@60Hz, please make sure that your HDMI cable, HDMI signal source and HDMI display all support the above resolution.
3. The length of the HDMI cables connected to both ends of the switcher should not be too long, otherwise, it will easily cause the screen to flicker. The following HDMI cables are suggested.

8K60, 8K30, 4K120: Ultra HDMI2.1 cable, IN/OUT 2 meters.

4K60 4:4:4: HDMI2.0 cable, IN/OUT 3 meters.

4K60 4:2:0, 4K30, 1080P: HDMI cable, IN/OUT 5 meters.

6. IR Remote



IN1/2/3/4 : Press IN1/2/3/4 button to select HDMI signal source INPUT 1/2/3/4 to the OUTPUT port.

C : Press this button to circularly switch HDMI signal source INPUT 1/2/3/4 to the OUTPUT port.

6. Application Example

