KanexPro®

8K 2x1 HDMI 2.1 Switcher

MPN: SW-2X18K

VER. 1

Thank you for purchasing this product

To ensure the best performance and safety, it is imperative that you carefully read these instructions prior to connecting, operating, or adjusting this product. It is advised that you retain 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.

Table of Contents

1. Introduction

This KanexPro SW-2X18K 8K 2x1 HDMI 2.1 switcher facilitates the switching of two HDMI sources to a single HDMI display. It is equipped to support video resolution of up to 8K at 60Hz and 4:4:4, with 48Gbps video bandwidth, making it suitable for use in outdoor displays, video conferencing, security monitoring, home theaters, and other applications. To use this switcher, connect two HDMI source devices to the HDMI IN1 and HDMI IN2 ports via individual HDMI cables, and then connect the HDMI OUT port to your external monitor. The switch button located on the top panel of the switcher enables you to toggle between the two sources. It is recommended to power the switcher using the Micro USB cable included in the package to ensure optimal display output. Please note that this switcher is not bidirectional and can only be used to switch between two sources and display them on a single display (2 in 1 out, not 1 in 2 out). It is compatible with gaming consoles such as Xbox and PS5 and can achieve a resolution of 4K at 120Hz on your TV 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
- 2x1 switch output, auto switch supported
- Built-in Equalizer and Driver
- Auto EDID management
- Compact design for easy and flexible installation
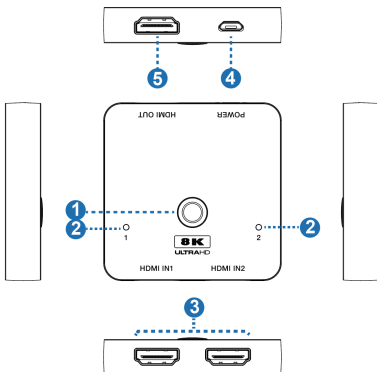
3. Package Contents

1. 1 x 8K Two-Input HDMI Switcher
2. 1 x Micro USB Power Cable
3. 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 / 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
Connection	
Input	2xHDMI IN [Type A, 19-pin female]
Output	1xHDMI OUT [Type A, 19-pin female]

Mechanical	
Housing	Plastic Enclosure
Silkscreen Color	Black
Dimensions	60mm (W) x 60mm (D) x 12mm (H)
Weight	31g
Power Supply	USB 5V
Power Consumption	1.25W (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

No.	Name	Function Description
1	Switch button/ Power LED	Short pressing the switch button will allow the device to switch any of the two HDMI input signals to the HDMI display; long press this button to enter the auto switching mode. When the device is powered on, the green power LED is on

2	Input LED (1-2)	When the HDMI IN 1/2 port is selected as the input source channel, the corresponding green LED is on.
3	HDMI In 1/2 port	HDMI signal input ports, connecting to HDMI source device such as DVD or PS5 with an HDMI cable.
4	POWER	DC 5V USB power input port.
5	HDMI OUT port	HDMI signal output port, connecting 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. Application Example

8K TV

USB Power Cable

HDMI OUT   POWER

8K
ULTRA HD

HDMI IN1   HDMI IN2

DVD or Blu-ray Player

PC