8K 2x1 HDMI 2.1 Switcher

User Manual

VER 1.0

Thank you for purchasing this product

For optimum performance and safety, please read these instructions carefully before connecting, operating or adjusting this product. Please keep 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 8K 2x1 HDMI 2.1 switcher can switch any of 2 HDMI sources to 1 HDMI display. It supports video resolution up to 8K@60Hz 4:2:0, 48Gbps video bandwidth. It is suitable for outdoor display, video conference, security monitoring, home theater and other applications.

By using this HDMI 8K switcher, you are allowed to connect from HDMI IN1 and HDMI IN2 ports to two HDMI source devices via an individual HDMI cable, then connect from HDMI OUT port to your external monitor (such as HDMI projector, HDMI TV or HDMI ordinary display). You can switch between two sources by pressing the switch button on the top panel of the switcher. In order to make sure that your display shows normally, we suggest you to plug the Micro USB cable in the package into your USB device to power the switcher.

Please pay attention that this switcher is not a bi-directional switcher, you can only use from two sources to one display (only 2 in 1 out, not 1 in 2 out).

It can work well with xbox or PS5 to achieve 4K@120hz on your 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
☆ 2x1 switch output, auto switch supported
☆ Built-in Equalizer and Driver
☆ Auto EDID management
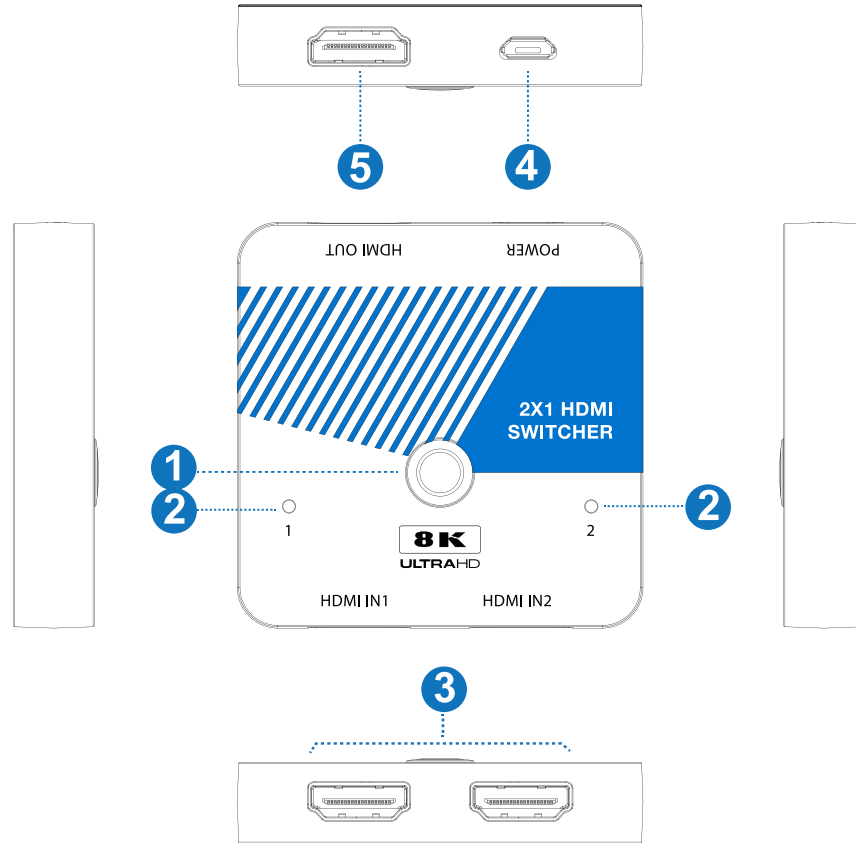☆ Compact design for easy and flexible installation

3. Package Contents

① 1 × 8K Two-Input HDMI Switcher
② 1 × Micro USB Power Cable
③ 1 × 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	2×HDMI IN [Type A, 19-pin female]
Output	1×HDMI OUT [Type A, 19-pin female]
Mechanical	
Housing	Plastic Enclosure
Silkscreen Color	Apple Gray
Dimensions	60mm (W) × 60mm (D) × 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 IN1/2 port is selected as the input source channel, the corresponding green LED is on.
3	HDMI IN1/2 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

2X1 HDMI SWITCHER

1   **8K** ULTRAHD   2

HDMI IN1   HDMI IN2

DVD or Blu-ray Player

PC