8K HDMI 1x4 Splitter

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 HDMI 1x4 Splitter can distribute one HDMI source signal to any four display devices. Video resolution is up to 8K@60Hz 4:2:0 12bit. It supports data rates up to 48Gbps to comply with HDMI 2.1 and HDCP 2.3 requirements. It includes several features for ease of integration, such as EDID management and cable equalization. Resolution downscaling is also supported. It is an easy-to-use solution for HDMI installation, and can transmit the audio signal to any sound system with 5.1/2.0CH.

This multi-functional product can be widely applied in scenarios of demonstration, video conference, multimedia teaching and other occasions.

2. Features

☆ HDMI 2.1 and HDCP 2.3 compliant
☆ Supports 48Gbps FRL and 18Gbps TMDS video bandwidth
☆ Supports resolution up to 8K@60Hz 4:2:0 12bit, 4K@120Hz 4:4:4 12bit 8K@30Hz 4:4:4 12bit
☆ VRR, ALLM, QMS, QFT, SBTM supported
☆ Support HDR, HDR10, HDR10+, Dolby Vision, HLG pass-through
☆ Support HDMI audio formats: LPCM 7.1CH, Dolby TrueHD, Atmos, DTS-HD Master Audio
☆ Supports resolution auto downscaling and converting on each output port
☆ Advanced EDID management

3. Package Contents

① 1 × 8K HDMI 1x4 Splitter
② 1 × 5V/2A Multinational Power Supply
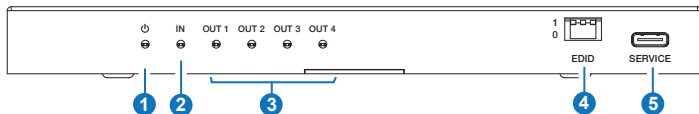③ 2 × Mounting Ear
④ 4 × Machine Screw (KM3*4)
⑤ 1 × User Manual

4. Specifications

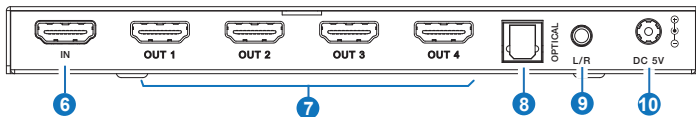| Technical	
HDMI Compliance	HDMI 2.1
HDCP Compliance	HDCP 2.3, HDCP 1.4
Video Bandwidth	48Gbps FRL and 18Gbps TMDS
Video Resolution	Up to 8K@60Hz 4:2:0 12bit, 4K@120Hz 4:4:4 12bit, 8K@30Hz 4:4:4 12bit
Color Depth	8/10/12-bit
Color Space	RGB, YCbCr 4:4:4 / 4:2:2. YUV 4:2:0
HDR	HDR, HDR10, HDR10+, Dolby Vision, HLG
Audio Formats	**HDMI input/output:** LPCM, Dolby Digital/Plus/EX, Dolby True HD, Dolby Atmos, DTS, DTS-EX, DTS-96/24, DTS High Res, DTS-HD Master Audio, DSD **Audio de-embedding output:** Optical: LPCM / Dolby / DTS 5.1CH Analog: LPCM 2CH
ESD Protection	Human body model — ±8kV (Air-gap discharge) & ±4kV (Contact discharge)
Connection	
Input	1 × HDMI IN [Type A, 19-pin female]
Output	4 × HDMI OUT [Type A, 19-pin female] 1 × OPTICAL [S/PDIF] 1 × L/R [3.5mm Stereo Mini-jack]
Control	1 × SERVICE [USB Type C, Update port]
Mechanical	
Housing	Metal Enclosure
Color	Black
Dimensions	176mm (W) × 68mm (D) × 18mm (H)
Weight	295g
Power Supply	Input: AC 100-240V 50/60Hz, Output: DC 5V/2A (US/EU standards, CE/FCC/UL certified)

Power Consumption	6W (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)			
Recommended HDMI Cable				
Video Resolution	8K	4K60	4K30	1080P
HDMI Cable Length (HDMI IN / OUT)	2m/6.6ft (Ultra HDMI 2.1)	5m/16ft	10m/33ft	15m/49ft
The use of "Premium High Speed HDMI" cable is highly recommended.				

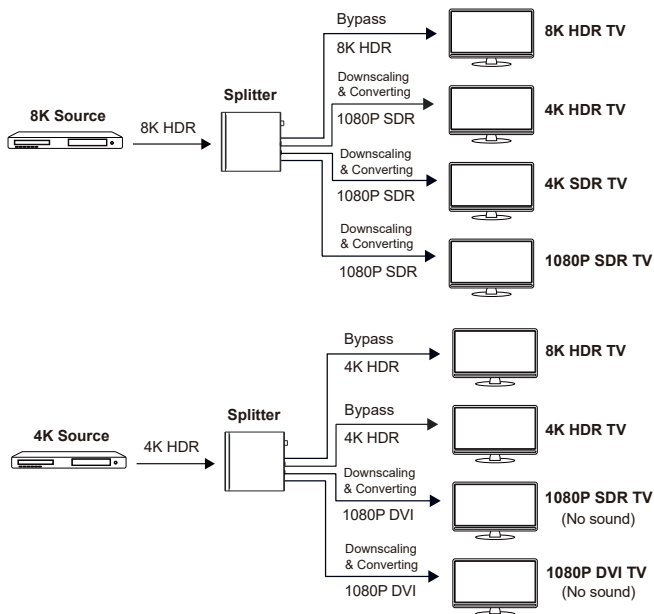# 5. Operation Controls and Functions

Front Panel

Rear Panel

No.	Name	Function Description
1	POWER LED	When the device is powered on, the red LED will be on.
2	IN LED	When the HDMI IN port connects an active source device, the green LED will be on.
3	OUT LED (1~4)	When the HDMI OUT 1/2/3/4 port connects a display device and outputs signal, the corresponding green LED will be on.
4	EDID DIP switch	Use the DIP switch to set EDID. [DIP]=111: Copy OUT port sink EDID [DIP]=110: 4K60(4:4:4), 2.0CH [DIP]=101: FRL12G_8K_HDR, 2.0CH [DIP]=100: FRL12G_8K_HDR, 5.1CH [DIP]=011: FRL12G_8K_HDR, 7.1CH [DIP]=010: FRL10G_8K_HDR, 2.0CH [DIP]=001: FRL10G_8K_HDR, 5.1CH [DIP]=000: FRL10G_8K_HDR, 7.1CH
5	SERVICE	Firmware update port.
6	IN port	HDMI signal input port, connecting to HDMI source device such as DVD or PS5 with an HDMI cable.
7	OUT port (1~4)	HDMI signal output port, connecting to HDMI display device such as TV or Monitor with an HDMI cable.
8	OPTICAL	Optical fiber audio output port.
9	L/R	Analog audio output port.
10	Power port	5V/2A Power input port.

6. Auto Downscaling & Auto Converting

This 8K HDMI splitter supports auto downscaling and auto converting on all outputs. It will automatically output the correct HDMI signal according to the EDID of the display device.

As for this splitter, before downscaling it will compare all the EDID of the connected display devices and select the minimum resolution to downscale and output. For example:
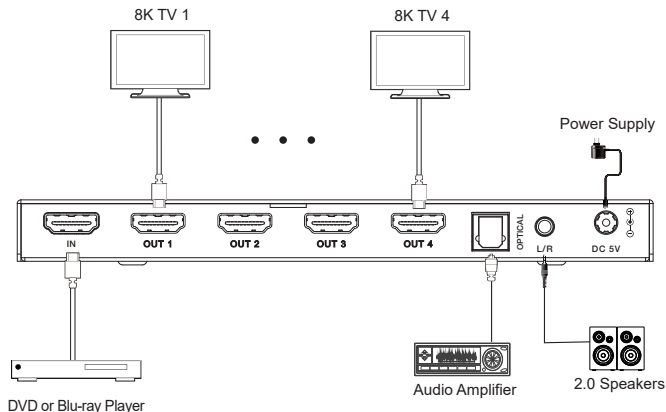

Note: *If the source resolution is downscaled and converted to **1080P DVI** according to the EDID of display devices, it will be output without sound on TV.*

Downscaling will not work in the following conditions:

1. The input source is 8K DSC format.
2. The resolution of input source is not supported by the splitter.

7. Application Example

8K TV 1   8K TV 4

Power Supply

IN   OUT 1   OUT 2   OUT 3   OUT 4   OPTICAL   L/R   DC 5V

DVD or Blu-ray Player

Audio Amplifier

2.0 Speakers

HIGH-DEFINITION MULTIMEDIA INTERFACE

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