ADERTECH

CL-U8H-12A

8K HDMI 1x2 Splitter



User Manual

VER 1.0

Thank you for purchasing this product

We have done everything possible to ensure that our equipment pleases our consumers. When solving any problems in the operation and connection ADERTECH equipment, it is best to contact authorized companies and specialists who work with our equipment. Our equipment is intended for professional use, so you have professional skills in using such equipment. ADERTECH is a manufacturer of a wide range of multimedia solutions.

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..... 1
2. Features..... 1
3. Package Contents..... 1
4. Specifications..... 2
5. Operation Controls and Functions..... 3
6. Application Example..... 5

1. Introduction

This 8K HDMI 1x2 Splitter can distribute one HDMI source signal to any two display devices. It supports video resolution up to 8K@60Hz 4:2:0. It supports advanced EDID management and audio de-embedding function (output through the optical and analog port). This multi-functional product can be widely applied in scenarios of demon-stration, video conference, multi-media teaching and other occassions requiring for big-screen demonstration.

2. Features

☆ HDMI 2.1 and HDCP 2.3 compliant
☆ Support 40Gbps video bandwidth
☆ Support video resolution up to 8K@60Hz 4:2:0 10bit, 8K@30Hz 4:4:4 10bit, 4K@120Hz 4:4:4 10bit
☆ VRR, FVA, ALLM supported
☆ Support HDR, HDR10, HDR10+, Dolby Vision, HLG pass through
☆ Support 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
☆ Built-in Equalizer, Retiming and Driver
☆ Advanced EDID management
☆ Support audio de-embedding function (output through the optical and analog port)
☆ Compact design for easy and flexible installation

3. Package Contents

① 1 × 8K HDMI 1x2 Splitter
② 1 × 5V/2A Multinational Power Supply
③ 1 × User Manual

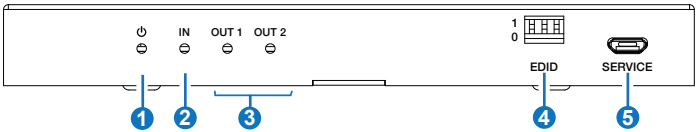
4. Specifications

Technical	
HDMI Compliance	HDMI 2.1
HDCP Compliance	HDCP 2.3
Video Bandwidth	40Gbps
Video Resolution	Up to 8K@60Hz 4:2:0 10bit, 8K@30Hz 4:4:4 10bit, 4K@120Hz 4:4:4 10bit
Color Depth	8/10/12-bit
Color Space	RGB, YCbCr 4:4:4 / 4:2:2. YUV 4:2:0
Audio Formats	**HDMI input/output:** LPCM, Dolby Digital/Plus/EX, Dolby True HD, DTS, DTS-EX, DTS-96/24, DTS High Res, DTS-HD Master Audio, DSD **Auido de-embedding output:** Optical: LPCM 2/5.1 CH, Dolby Digital 2/5.1 CH, DTS 2/5.1 CH Analog: PCM 2.0
ESD Protection	Human body model — ±8kV (Air-gap discharge) & ±4kV (Contact discharge)
Connection	
Input	1 × HDMI IN [Type A, 19-pin female]
Output	2 × HDMI OUT [Type A, 19-pin female] 1 × OPTICAL [S/PDIF] 1 × L/R [3.5mm Stereo Mini-jack]
Control	1 × SERVICE [Micro USB, Update port]
Mechanical	
Housing	Metal Enclosure
Silkscreen Color	Black
Dimensions	145mm (W) × 68mm (D) × 17mm (H)
Weight	258g
Power Supply	Input: AC100 - 240V 50/60Hz, Output: DC 5V/2A (US/EU standards, CE/FCC/UL certified)
Power Consumption	4.15W (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)

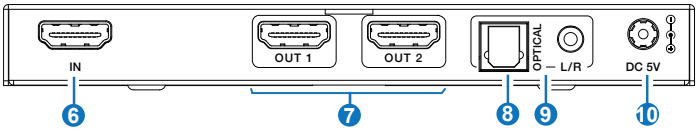
Recommended HDMI Cable				
Video Resolution	8K	4K60	4K24	1080P
HDMI Cable Type	Ultra HDMI 2.1	HDMI 2.0	HDMI 1.4	HDMI 1.4
HDMI Cable Length (HDMI IN / OUT)	3m/10ft	8m/26ft	12m/39ft	15m/49ft
The use of “Premium High Speed HDMI” cable is highly recommended.				

5. Operation Controls and Functions

Front Panel



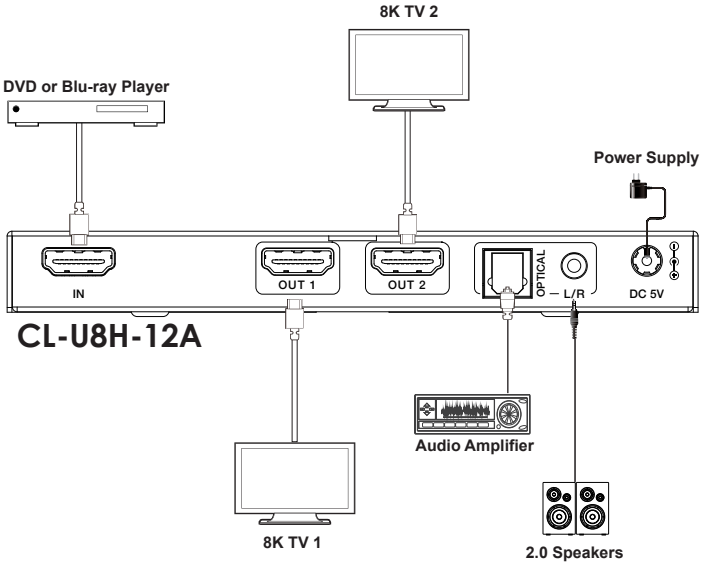
Rear Panel



No.	Name	Function Description
1	POWER LED	The power LED lights in green when the device is working.
2	IN LED	When the HDMI IN port connects an active source device, the green LED will be on.
3	OUT LED (1~2)	When the HDMI OUT 1/2 port connects a display device and outputs signal, the corresponding green LED will be on.

No.	Name	Function Description
4	EDID DIP switch	Use the DIP switch to set EDID. 111- Copy OUT1 port sink EDID (as factory default) 110- HDMI 1080p@60Hz, Audio 2ch PCM 101- HDMI 4K@60Hz 4:4:4, Audio 2ch PCM, HDR 100- HDMI 4K@60Hz 4:4:4, Audio 5.1ch PCM/DTS/DOLBY, HDR 011- HDMI 4K@60Hz 4:4:4, Audio 7.1ch PCM/DTS/DOLBY/HD, HDR 010- HDMI 8K@60Hz 4:2:0+8K@30Hz 4:4:4, 4K@120Hz 4:4:4, Audio 2ch PCM, HDR 001- HDMI 8K@60Hz 4:2:0+8K@30Hz 4:4:4, 4K@120Hz 4:4:4, Audio 5.1ch PCM/DTS/DOLBY, HDR 000- HDMI 8K@60Hz 4:2:0+8K@30Hz 4:4:4, 4K@120Hz 4:4:4 , Audio 7.1ch PCM/DTS/DOLBY/HD, HDR
5	SERVICE	Firmware update and debug 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 (1~2)	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	DC 5V	DC 5V2A Power input port.

6. Application Example



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