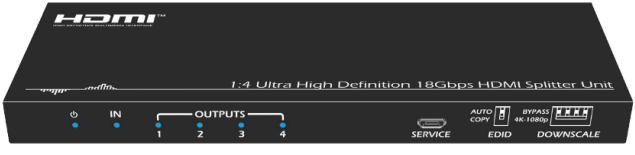
adertech

CL-U4H-14A



18Gbps UHD 1:4 HDMI Splitter
User Manual Version 1.1

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 electr-ical 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 1:4 HDMI 2.0 Splitter simultaneously one route HDMI source to four routes HDMI display. It supports resolution up to 4K2K@60Hz (4:4:4) and HDCP 2.2. This product supports audio extract from HDMI source to optical and analog output. It can be selected COPY, AUTO modes EDID setting. Output supports bypass and downscaler(4K->1080P) function.

2. Features

☆ HDMI 2.0b, HDCP2.2/HDCP1.4 compliant.
☆ Supports HDMI resolution the maximum up to 4K2K@50/60Hz (4:4:4)
☆ Supports digital and analog audio extract output from HDMI source.
☆ Supports output bypass and 4K->1080P downscaler function via dial switch on panel.
☆ EDID can be selected COPY and AUTO modes via dial switch on panel.
(COPY: It copys OUT 1 port EDID setting to all outputs port, If no HDMI OUT 1 capable EDID is detected then the unit will copy HDMI OUT 2. If no HDMI OUT 1~2 capable EDID is detected then the unit will copy HDMI OUT 3...etc. The priority order is OUT 1 to OUT 4.
AUTO: Compare OUT 1~OUT 4 EDID setting and output the best resolution to all outputs).
☆ Supports analog audio PCM 2.0.
☆ Supports optical audio pass-through format about LPCM 2.0/2.1/5.1CH, Dolby 5.1, Dolby True HD, Dolby DD+, DTS 5.1, DTS-ES 6/DTS-HDMA 5.1, DTS HD-HRA 5.1.

3. Package Contents

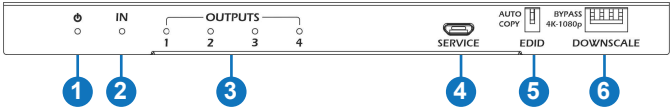
- 1× 1:4 HDMI 2.0 Splitter
- 1× 5V/1A Power Adapter
- 1× User Manual

4. Specifications

Technical	
HDMI Compliance	HDMI 2.0b
HDCP Compliance	HDCP 2.2 and HDCP 1.4
Video Bandwidth	18Gbps
Video Resolution	720P50/60Hz, 1080P50/60Hz, 4K2K24Hz, 4K2K30Hz, 4K2K@50/60Hz (4:4:4)
Color Space	RGB, YCbCr 4:4:4, YCbCr 4:2:2
Color Depth	4K60Hz 8-bit, 1080P 12-bit
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
L/R Audio Formats	PCM 2.0
Optical Audio Formats	LPCM[2.0/2.1]CH, Dolby 5.1, Dolby True HD, Dolby DD+, DTS 5.1, DTS-ES 6, DTS-HDMA 5.1, DTS HD-HRA 5.1
ESD Protection	Human-body Model: ±8kV (Air-gap discharge) , ±4kV (Contact discharge)
Connections	
Inputs	1×HDMI Type A [19-pin female]
Outputs	4×HDMI Type A [19-pin female] 1×L/R Audio out [3.5mm Stereo Mini-jack] 1×Optical out [S/PDIF]
Mechanical	
Housing	Metal Enclosure
Color	Black
Dimensions	180mm(W)×62mm(D)×14mm(H)
Weight	227g
Power Supply	Input: AC100~240V 50/60Hz Output: DC5V/1A(US/EU standards , CE/FCC/UL certified)
Power Consumption	3.5W
Operating 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)

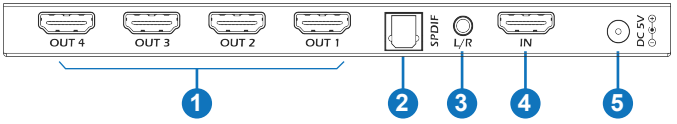
5. Operation Controls and Functions

5.1 Front Panel



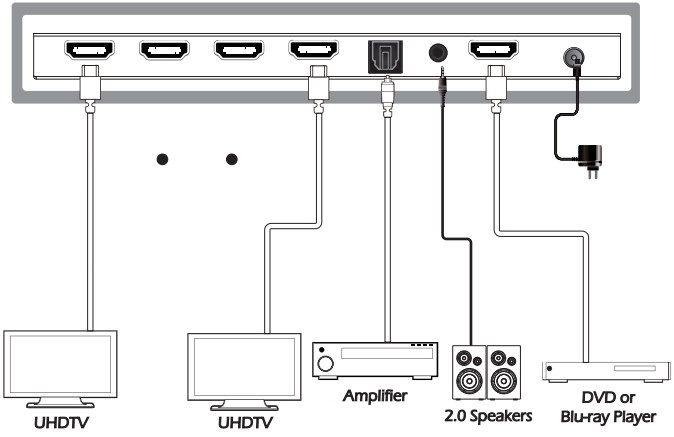
Number	Name	Function description
1	POWER LED	This blue LED will illuminate when the unit has connected power supply.
2	HDMI INPUT LED	This blue LED will illuminate when the HDMI IN port has connected an active HDMI source device with a HDMI cable.
3	HDMI OUTPUT LED	These blue LEDs will illuminate when the HDMI OUT port has connected an avtice display device with a HDMI cable.
4	SERVICE port	Fireware update used. (Manufacturer use only.)
5	EDID	• AUTO: Compare the EDID setting of the HDMI OUT 1~ 4 port display device, then transmit the best EDID signal to source device, the source device will transmit again the EDID signal to all outputs. • COPY: Copy the HDMI OUT 1 port EDID setting to source device(If no HDMI OUT 1 capable EDID is detected then the unit will copy HDMI OUT 2. If no HDMI OUT 1~2 capable EDID is detected then the unit will copy HDMI OUT 3...etc. The priority order is OUT 1 to OUT 4), the source device will transmit again the signal to all outputs.
6	DOWNSCALE DIP Switch	• OFF: When the switch set to 'OFF' position , signal input and output is bypass status. • ON: When the switch is set to 'ON' position, signal input will downscale(4k->1080P) output.

5.2 Rear Panel



Number	Name	Function description
1	HDMI OUTPUT	Connect to HDMI display device such as TVs or monitors.
2	OPTICAL OUT	Optical audio output. (This port outputs audio from HDMI IN port.)
3	L/R OUT	Analog audio output. (This port outputs audio from HDMI IN
4	HDMI IN	Connect to HDMI source device such as DVD player or PS4.
5	DC 5V	Plug the 5V/1A DC power supply into the unit and connected the adapter to an AC outlet.

6. Application Example



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