



VLSP-AD14H20

1x4 HDMI 2.0 Splitter /w Audio
De-embedded & Downscale 18Gbps



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.

A surge protection device recommended

This product contains sensitive electrical components that may be damaged by electrical spikes, surges, electric shocks, lightning strikes, etc. The use of surge protection systems is highly recommended to protect and extend the life of your equipment.

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1. Introduction

The 1x4 HDMI 2.0 Splitter simultaneously one route HDMI source to four routes HDMI display. It supports resolutions up to 4K2K@60Hz (4:4:4) and HDCP 2.2. This product supports audio extraction from HDMI source to optical and analog output. It can be selected COPY, AUTO modes EDID setting. Output supports bypass and downscale(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 downscale function via dial switch on the panel.
- ☆ EDID can be selected COPY and AUTO modes via a dial

switch on the panel.

(COPY: It copies 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 settings 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× 1×4 HDMI 2.0 Splitter
- ② 1× 5V/1A Power Adapter
- ③ 1× User Manual

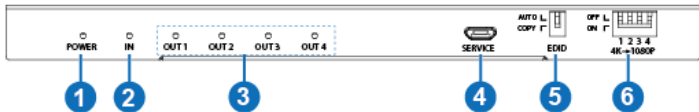
4. Specifications

Technical	
HDMI Compliance	HDMI 2.0b
HDCP Compliance	HDCP 2.2 and HDCP 1.4
Video Bandwidth	18Gbps
Video Resolutions	720P50/60Hz, 1080P50/60Hz, 4K2K24Hz, 4K2K30Hz, 4K2K@50/60Hz (4:4:4)
Color Depth	4K60Hz 8-bit, 1080P 12-bit
Color Space	RGB, YCbCr 4:4:4, YCbCr 4:2:2
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: $\pm 8\text{kV}$ (Air-gap discharge) , $\pm 4\text{kV}$ (Contact discharge)
Connections	
Input ports	1 \times HDMI Type A [19-pin female]
Output ports	4 \times HDMI Type A [19-pin female] 1 \times L/R Audio out [3.5mm Stereo Mini-jack] 1 \times Optical out [S/PDIF]
Mechanical	
Housing	Metal Enclosure
Color	Black
Dimensions	180mm(W) \times 62mm(D) \times 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 (max)
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

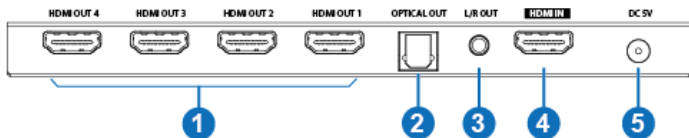
5.1 Front Panel



Number	Name	Function description
1	POWER LED	This blue LED will illuminate when the unit has a connected power supply.
2	HDMI INPUT LED	This blue LED will illuminate when the HDMI IN has connected an active HDMI source device with an HDMI cable.

3	HDMI OUTPUT LED	These blue LEDs will illuminate when the HDMI OUT port has connected an active display device with an HDMI cable.
4	SERVICE port	Firmware update used. (Manufacturer use only.)
5	EDID	<ul style="list-style-type: none"> • AUTO: Compare the EDID setting of the HDMI OUT 1~ 4 port display device, then transmit the best EDID signal to the source device, the source device will transmit again the EDID signal to all outputs. • COPY: Copy the HDMI OUT 1 port EDID setting to the 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), and the source device will transmit again the signal to all outputs.
6	Dial switch (4K→ 1080P)	<p>OFF: When the dial switch is dialed in the 'OFF' position, signal input and output are bypass status.</p> <p>ON: When the dial switch is dialed in the 'ON' position, signal input will downscale(4k->1080P) output.</p>

5.2 Rear Panel



Number	Name	Function description
1	HDMI OUTPUT	Connect to HDMI display devices such as a TV or monitor.
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 port.)
4	HDMI IN	Connect to HDMI source devices such as a DVD player or a 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

