CDA-1218GAE

Pro AV/IT HDMI 4K60Hz UHD 1x2 Distribution Amplifier Splitter with Audio Extraction, EDID Management and 4K to 1080p Down-Scaler

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. 1
2. Features. 1
3. Package Contents. 1
4. Specifications. 2
5. Operation Controls and Functions. 3
    5.1. Front Panel. 3
    5.2. Rear Panel. 4
6. Application Example. 5

1. Introduction

The Comprehensive's CDA-1218GAE is a HDMI 1x2 Splitter that distributes 1 HDMI source signal to 2x HDMI displays simultaneously which supports resolutions up to 4K2K@50/60Hz (4:4:4) 18Gbps. The CDA-1218GAE is able to extract audio from the HDMI source to both optical and analog outputs simultaneously. This HDMI splitter offers two EDID modes (COPY/AUTO) and all output ports support signal bypass and video downscaling (4K to 1080P).

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 down-scaler 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.

Package Contents

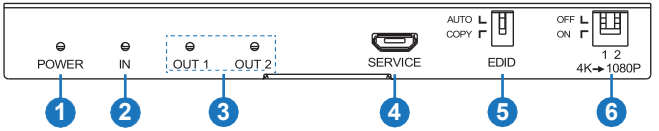
① 1× CDA-1218GAE (HDMI 1×2 Splitter)
② 1× 5V/1A Power Adapter
③ 1× User Manual

3. 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	8-bit (4K60Hz), 12-bit (1080P)
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)
Connection	
Input ports	1×HDMI Type A [19-pin female]
Output ports	2×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	120mm(W)×62.5mm(D)×14mm(H)
Weight	166g
Power Supply	Input: AC100~240V 50/60Hz Output: DC5V/1A (US/EU standards，CE/FCC/UL certified)
Power Consumption	2.8W
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)

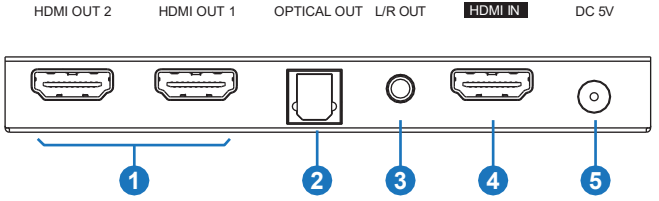
4. Operation Controls and Functions

4.1 Front Panel



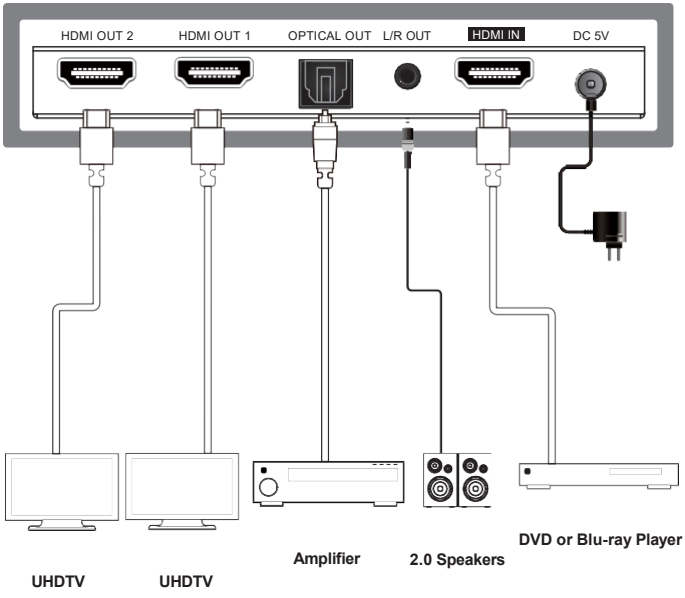
Number	Name	Function Description
1	POWER LED	The blue LED will be on when the device is powered on.
2	HDMI INPUT LED	The blue LED will be on when the HDMI IN port has connected an active HDMI source device with a HDMI cable.
3	HDMI OUTPUT LED	When the HDMI OUT 1/2 port has connected an avtice display device with a HDMI cable, the corresponding LED will be on.
4	SERVICE port	Used for fireware update. (Only for Manufacture use)
5	EDID (AUTO, COPY) Dial switch	Dial the switch to select EDID modes. *AUTO:* Compare OUT 1 and OUT 2 displays EDID setting, then output the best resolution to source device, then the source will transmit the signal to all outputs. *COPY:* Copy the HDMI OUT 1 port EDID setting to source device, then the source device will transmit the signal to all outputs.
6	4K→1080P Dial switch	*OFF:* When the switch is dialed to "OFF", signal input and output is in bypass status. *ON:* When the switch is dialed to "ON", the input signal will be downscaled (4k->1080P) before output.

4.2 Rear Panel



Number	Name	Function Description
1	HDMI OUTPUT	HDMI output port. Connect to HDMI display device such as TV or monitor.
2	OPTICAL OUT	Optical audio output port. Connect the amplifier to output audio from HDMI IN port.
3	L/R OUT	Analog audio output port. Connect the speaker to output audio from HDMI IN port.
4	HDMI IN	HDMI input port. Connect to HDMI source device such as DVD player or PS4.
5	DC 5V	Plug the 5V/1A DC power cord into the unit and connect the adapter to an AC outlet.

5. Application Example



80 Little Falls Road, Fairfield, NJ 07004
sales@comprehensiveco.com | 800-526-0242
www.ComprehensiveCo.com