

USER MANUAL



Small/Compact Design

Dimensions:

2.89" (73.5mm) Wide

2.39" (60.7mm) Deep

0.67" (17mm) High

18Gbps HDMI Audio Extractor - AE-100

1723 W. 4th Street Tempe Arizona 85281

P: 800.638.6104 | F: 480.966.6728 | E: sales@covid.com | www.covid.com

USER MANUAL



Contents

Contents. 1

Introduction. 2

Package Contents 2

Features 2

Panel Description. 3

Technical Specifications 4

Connection Diagram. 5

Warranty 6

Safety Information 6

18Gbps HDMI Audio Extractor - AE-100

USER MANUAL



Introduction

The HDMI 18Gbps Audio Extractor can extract audio signals from any HDMI compliant source to digital optical or analog stereo L/R audio outputs. Both the input and output HDMI support resolutions up to 4K2K@50/60Hz. This product supports 10bits HDR (High Dynamic Range) pass through and HDMI high resolution digital audio formats bypass, LPCM 2CH, Dolby TrueHD, Dolby Digital Plus, Dolby Atmos and DTS-HD Master Audio. The audio sampling rate is up to 192kHz. HDCP 2.2 and CEC bypass are supported.

Package Contents

- 1 × HDMI 18Gbps Audio Extractor
- 1 × 5V/1A Power Adapter
- 1 × User Manual

Features

- HDMI 2.0b (18Gbps)
- HDCP 2.2 & DVI compliant
- Supports resolutions up to 4K@60Hz
- Extracts HDMI audio to multi-channel optical (SPDIF) or L/R analog audio
- Optical audio supports LPCM 2CH, Dolby Digital 2/5.1 CH, DTS 2/5.1 CH
- Supports HDMI high bit rate (HBR) audio pass through
- Audio sample rates up to 192kHz
- 10bits HDR (High Dynamic Range) pass through
- Supports CEC bypass

18Gbps HDMI Audio Extractor - AE-100

1723 W. 4th Street Tempe Arizona 85281

P: 800.638.6104 | F: 480.966.6728 | E: sales@covid.com | www.covid.com

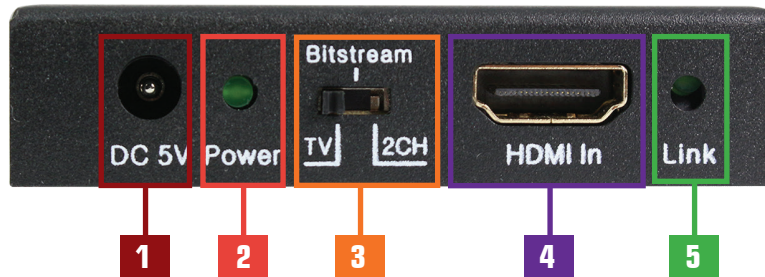
Page 2

USER MANUAL



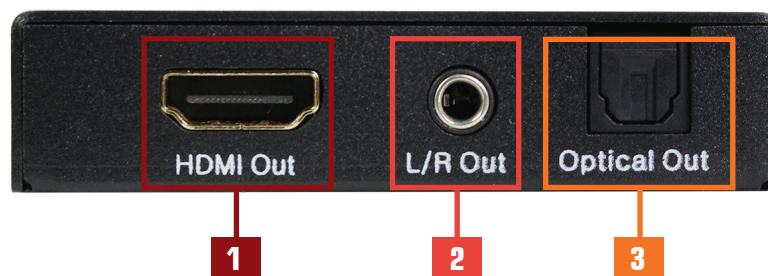
Panel Description

Front Panel



- 1. DC 5V:** Connect 5V/1A adapter to AC wall outlet to power unit.
- 2. Power LED:** System power indicator.
- 3. TV/Bit Stream / 2CH:** This allows users to select audio format according to TV, Bit Stream or LPCM 2CH.
- 4. HDMI In:** Connect this to HDMI source devices such as Blu-ray or PS4 player.
- 5. Link LED:** The LED will illuminate when it detects an HDMI input signal.

Rear Panel



- 1. HDMI Out:** Connect to HDMI display device such as TV or projector
- 2. L/R Out:** Connect to audio amplifier or TV L/R audio input port
- 3. Optical Out:** Connect to audio amplifier optical audio input port.

18Gbps HDMI Audio Extractor - AE-100

1723 W. 4th Street Tempe Arizona 85281

P: 800.638.6104 | F: 480.966.6728 | E: sales@covid.com | www.covid.com

Page 3

USER MANUAL



Technical Specifications

Technical	
HDMI Compliance	HDMI 2.0b
HDCP Compliance	HDCP 2.2 and HDCP 1.4
Video Bandwidth	18Gbps
Video Resolutions	up to 4K2K@50/60Hz (YUV 4:4:4), 4K2K@30Hz, 1080p@120Hz and 1080p 3D@60Hz
Color Space	RGB, YCbCr 4:4:4, YCbCr 4:2:2
Color Depth	10-bit, 12-bit
HDMI Audio Formats (Pass-through)	LPCM 2/5, 1/7.1CH, Dolby Digital, DTS 5.1, Dolby Digital+, Dolby TrueHD, DTS-HD Master Audio, Dolby Atmos, DTS:X
Optical Audio Formats	LPCM 2CH, LPCM 5.1, Dolby Digital 2/5, 1CH, DTS 2/5.1 CH
L/R Audio Formats	Analog Stereo 2CH
ESD Protection	Human body model - +/- 8kV (air-gap discharge) & +/-4kV (contact discharge)

Connections	
Inputs	1 x HDMI Type A (19-pin female)
Outputs	1 x HDMI Type A (19-pin female) 1 x L/R Audio Out (3.5mm Stereo Mini-jack) 1 x Optical Out (S/PDIF)

Mechanical	
Housing	Metal Enclosure
Color	Black
Dimensions	73.5mm (2.89") (W) x 60.7mm (2.39") (D) x 17mm (0.67") (H)
Weight	130g (0.29lbs)
Power Supply	Input: AC100 - 240V 50/60Hz Output: DC 5V/1A (US/EU standards, CE/FCC/UL certified)
Power Consumption	1W (Max)
Operation Temperature	32 - 104 °F / 0 - 40 °C
Storage Temperature	-4 - 104 °F / -20 - 60 °C
Relative Humidity	20-90% RH (no condensation)

18Gbps HDMI Audio Extractor - AE-100

1723 W. 4th Street Tempe Arizona 85281

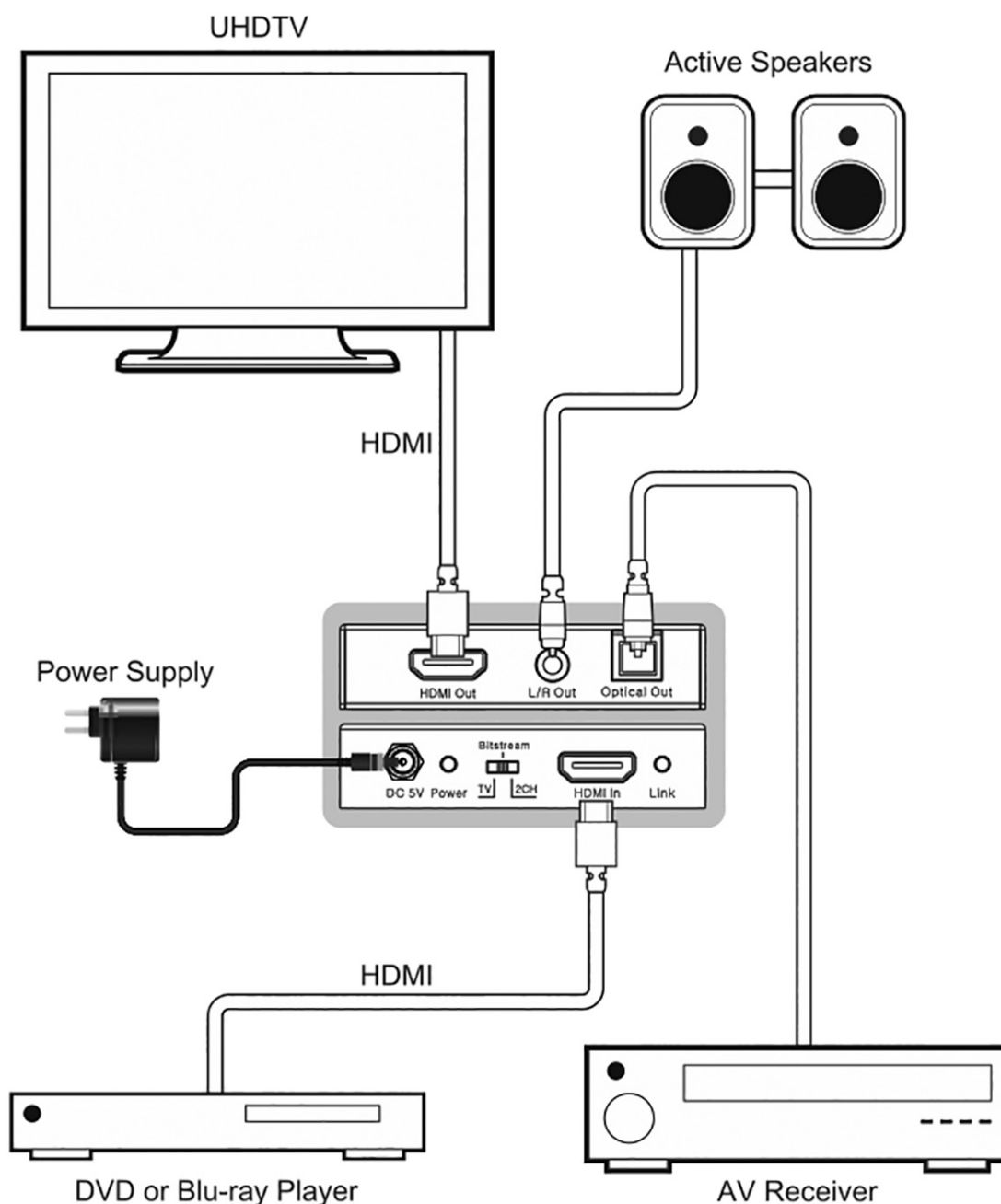
P: 800.638.6104 | F: 480.966.6728 | E: sales@covid.com | www.covid.com

Page 4

USER MANUAL



Connection Diagram



18Gbps HDMI Audio Extractor - AE-100

1723 W. 4th Street Tempe Arizona 85281

P: 800.638.6104 | F: 480.966.6728 | E: sales@covid.com | www.covid.com

Page 5

USER MANUAL



Warranty

Parts and labor warranty time is three year and from the date of original shipment. This warranty shall be void if a serial number has been removed from the product.

Upon determination of a legitimate defect covered by this warranty and at COVID's sole discretion, user should bear the transport cost during the warranty.

If product is out of warranty then repair charge is required. Out of warranty repairs will only be made after cost has been approved by Customers and proper financial arrangements are made. Customer must cover round trip shipment expenses.

Safety Information



To reduce the risk of electric shock, do not expose this product to rain or moisture.



Do not modify the wall plug. Doing so will void the warranty and safety features.



If the wall plug does not fit into your local power socket, hire an electrician to replace your obsolete socket.



This equipment should be installed near the socket outlet and the device should be easily accessible in the case it requires disconnection.

18Gbps HDMI Audio Extractor - AE-100

1723 W. 4th Street Tempe Arizona 85281

P: 800.638.6104 | F: 480.966.6728 | E: sales@covid.com | www.covid.com

Page 6