

SPLITTERS / DISTRIBUTION · AUDIO EXTRACTOR

BLU-HDMI-DE

Pull the audio out of HDMI.

An 18Gbps HDMI audio extractor that splits audio off an HDMI source to optical (SPDIF) and analog L/R, with a pass-through HDMI output. With ARC enabled, it returns display audio to the amplifier via optical. 4K60 4:4:4, HDR, and EDID/ARC set by front-panel DIP switches.



18Gbps

AUDIO EXTRACTOR

4K60 4:4:4

PASS-THROUGH

Optical +
L/R

AUDIO OUT

ARC

RETURN AUDIO

DIP

EDID / ARC

SPECIFICATION SUMMARY

Type	HDMI audio extractor
HDMI	HDMI 2.0b, DVI 1.0
HDCP	HDCP 2.2
Bandwidth	18Gbps
Max Resolution	4K2K@60Hz 4:4:4
Audio out	Optical (SPDIF) + L/R
ARC	Supported (via optical)
Sampling	up to 192 KHz
Control	Front-panel DIP switches
Power	Micro-USB, 5V
Power Consumption	2W (Max)

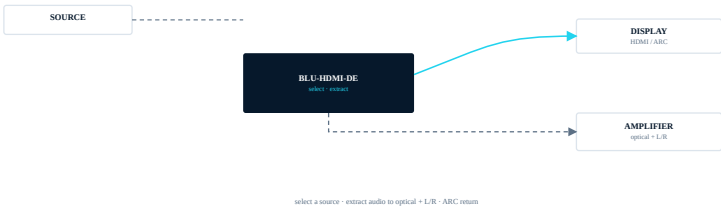
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KEY FEATURES

- HDMI 2.0b, HDCP 2.2, DVI 1.0; 18Gbps
- 4K2K@60Hz 4:4:4 with HDR / Dolby Vision / HLG
- Extract to optical (SPDIF) and analog L/R
- ARC returns display audio via optical

One box between source and screen. Video passes straight through at 4K60 4:4:4 while audio splits off to optical and L/R. Turn on ARC and the display's own audio returns to the amplifier — EDID and ARC set from front-panel DIP switches.



AUDIO EXTRACTION · HDMI VIDEO THROUGH, AUDIO OUT TO THE AMPLIFIER

01 Overview

What the extractor does, and what's in the box.

This **18Gbps HDMI Audio Extractor** extracts audio from an HDMI source to A/V receivers via an optical (SPDIF) port and an analog L/R port. A built-in HDMI output connects to an ARC-compatible display and, with ARC enabled, returns the display's audio to the amplifier via the optical port. Input and output video reach up to **4K2K@60Hz (YUV 4:4:4)**. Smart EDID management is supported, and both EDID and ARC are controlled by DIP switches on the front panel.

FEATURES

- HDMI 2.0b, HDCP 2.2 and DVI 1.0 compliant
- Supports 18Gbps video bandwidth
- Video up to 4K2K@60Hz (YUV 4:4:4)
- Extract audio to optical (SPDIF) and analog L/R
- ARC returns audio to the A/V receiver via optical
- Optical formats: LPCM 2CH, Dolby Digital 2/5.1CH, DTS 2/5.1CH
- HDMI high bit-rate (HBR) audio pass-through
- Audio sampling rate up to 192 KHz
- HDR, HDR10, HDR10+, Dolby Vision and HLG
- CEC pass-through when ARC is enabled
- Compact size, easy to install

AT A GLANCE

Type	Extractor	HDMI	2.0b	HDCP	2.2
BW	18Gbps	Max	4K60 4:4:4	Audio	Opt + L/R
ARC	Yes	Sample	192KHz		

PACKAGE CONTENTS

1×	18Gbps HDMI Audio Extractor
1×	Micro-USB Cable (0.3m)
1×	User Manual

02 Specifications

Technical, connection, mechanical and environmental figures.

TECHNICAL

HDMI Compliance	HDMI 2.0b
HDCP Compliance	HDCP 2.2
Video Bandwidth	18Gbps
Video Resolution	Up to 4K2K@60Hz 4:4:4
Color Depth	8/10/12-bit (1080P); 8/10/12-bit (4K@24/30Hz); 8-bit (4K@60Hz)
Color Space	RGB, YCbCr 4:4:4 / 4:2:2
HDR	HDR, HDR10, HDR10+, Dolby Vision, HLG
HDMI Audio	LPCM 7.1CH, Dolby TrueHD, DTS-HD Master
Optical Audio	LPCM 2CH, Dolby Digital 2/5.1, DTS 2/5.1
Sampling Rate	up to 192 KHz
ESD Protection	±8kV (Air-gap), ±4kV (Contact)

CONNECTIONS

Input	1 × HDMI [female]
Output	1 × HDMI [female, ARC] 1 × Optical (SPDIF) 1 × L/R analog
Service	1 × Micro-USB

CONTROL

EDID	Front-panel DIP switch
ARC	Front-panel DIP switch
CEC	Pass-through (ARC on)

MECHANICAL

Housing	Plastic enclosure, black
Dimensions	90 (W) × 60 (D) × 16 (H) mm
Weight	48 g

POWER

Supply	DC 5V / 1A, via Micro-USB
Consumption	2W (Max)

03 Interfaces & control

The connectors, and how the DIP switches set EDID and ARC.



1	MICRO-USB	5V power input for the extractor.
2	HDMI IN	HDMI Type A source input, up to 4K60 4:4:4.
3	HDMI OUT (ARC)	HDMI pass-through to an ARC-compatible display.
4	OPTICAL / L/R	Optical (SPDIF) and analog L/R audio de-embed to the amplifier.

DIP SWITCH SETTINGS

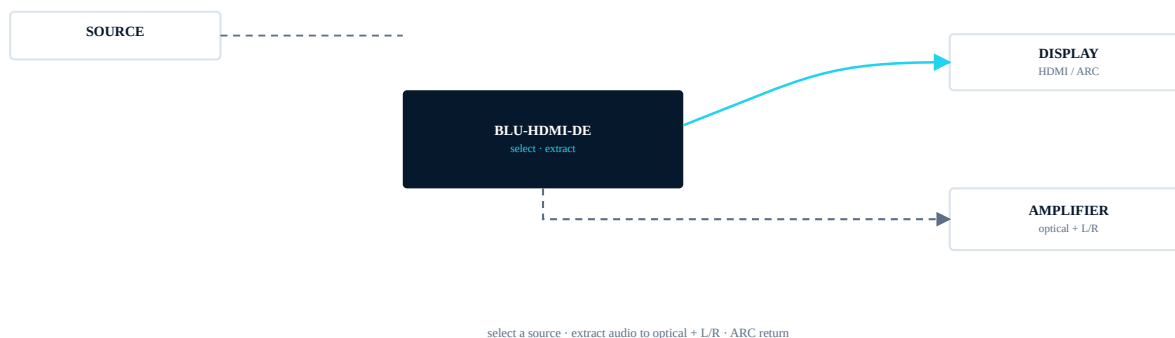
EDID 2-pin DIP	11 = copy TV audio format · 10 = 2.0CH · 01 = 5.1CH · 00 = 7.1CH (pin upward = 1, downward = 0)
ARC 1-pin DIP	Upward = ARC disabled · Downward = ARC enabled
PWR LED	Green, lit when powered on
ARC LED	Lit = ARC enabled, CEC OK · Flashing = ARC enabled, CEC failed · Dark = ARC disabled

DIP-switch control. Set EDID and toggle ARC directly from the front-panel DIP switches — no software, no menus.

ARC, done right. With ARC on, the display's audio (e.g. a smart-TV app) returns to the amplifier through the optical port, and CEC passes through.

04 Application example

Video to the screen, audio to a soundbar or A/V receiver.



Give an old amp new audio. Feed a 4K60 source to the TV while sending its soundtrack to an optical or analog audio system — and ARC brings the TV's own apps back to the amp.

HBR pass-through. High bit-rate formats pass to the display's HDMI, while stereo/compressed audio de-embeds for the amplifier.

ORDERING

BLU-HDMI-DE

18Gbps HDMI Audio Extractor — HDMI 2.0b, HDCP 2.2, DVI 1.0, 4K2K@60Hz 4:4:4, HDR/Dolby Vision/HLG, optical (SPDIF) + L/R de-embed, ARC return via optical, HBR pass-through, DIP-switch EDID/ARC, Micro-USB powered

bluKnot

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