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avedio links B0HBPM8QXG

avedio links HDMI Audio Extractor 8K eARC ARC 4K@120Hz User Manual

Model: B0HBPM8QXG

1. Introduction

This avedio links HDMI Audio Extractor is designed to separate audio signals from an HDMI source, allowing them to be outputted to various audio devices while simultaneously passing the video signal to a display. It supports high-resolution video up to 8K@60Hz and 4K@120Hz, and offers flexible audio output options including Optical (SPDIF), RCA L/R stereo, and 3.5mm AUX.

2. Product Features

- Supports video resolutions up to 8K@60Hz and 4K@120Hz, with backward compatibility for 4K@60Hz, 4K@30Hz, 2K@120Hz, and 1080P.
- Extracts audio from HDMI sources to Optical (SPDIF), RCA L/R stereo, or 3.5mm AUX audio devices.
- Features eARC/ARC functionality for sending audio from your TV's HDMI ARC/eARC port to external speakers.
- Offers three audio operating modes: PASS, R/L, and SPDIF.
- Supports 24-bit, 30-bit, and 36-bit color depth.
- Compatible with HDR, HDR10+, Dolby Vision, DTS 7.1/5.1CH, HLG, and VRR.
- Requires a Type-C 5V power connection for proper operation.

3. Package Contents

Please verify that all items are included in your package:

- HDMI Audio Extractor x1

- USB-C Power Cable x1
- User Guide x1

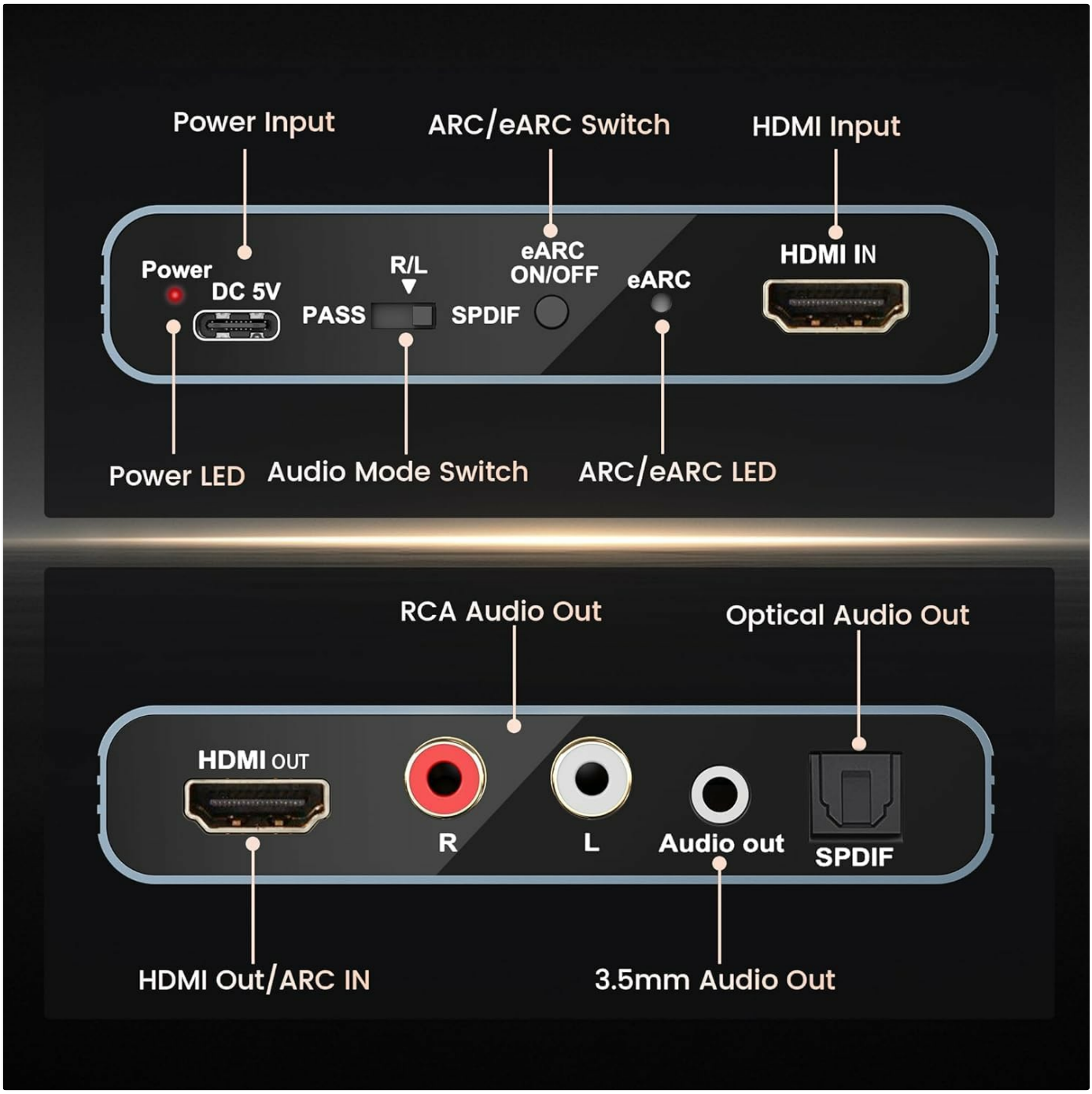


Image 3.1: Contents of the avedio links HDMI Audio Extractor package, including the main unit, USB-C power cable, and user guide.

4. Product Overview (Ports and Controls)

Familiarize yourself with the ports and controls on your HDMI Audio Extractor:



Image 4.1: Detailed diagram showing the front and rear panels of the avedio links HDMI Audio Extractor, highlighting all input/output ports and control switches.

- **Power Input (DC 5V):** Connect the provided USB-C power cable here.
- **Power LED:** Indicates power status.
- **Audio Mode Switch (PASS/R/L/SPDIF):** Selects the desired audio output mode.
- **ARC/eARC ON/OFF Switch:** Enables or disables ARC/eARC functionality.
- **ARC/eARC LED:** Indicates ARC/eARC status.
- **HDMI IN:** Connect your HDMI source device (e.g., Blu-ray player, PS5, TV Box).
- **HDMI OUT / ARC IN:** Connect to your display (TV, monitor, projector) or to your TV's ARC/eARC port for audio return.
- **RCA Audio Out (R/L):** Connect to analog stereo audio systems.
- **3.5mm Audio Out (AUX):** Connect to headphones or other 3.5mm audio devices.
- **Optical Audio Out (SPDIF):** Connect to optical audio receivers or soundbars.

5. Setup Instructions

5.1 General Connection

1. Connect your HDMI source device (e.g., DVD player, PS5, Laptop, TV Box) to the **HDMI IN** port on the extractor.
2. Connect your display device (e.g., TV, monitor, projector) to the **HDMI OUT** port on the extractor.
3. Connect your audio output device (e.g., speaker, soundbar, amplifier, headphones) to the desired audio output port (Optical, RCA L/R, or 3.5mm AUX) on the extractor.
4. Connect the provided USB-C power cable to the **DC 5V** power input on the extractor and to a 5V power source.



Image 5.1: Diagram illustrating the standard connection setup for the HDMI Audio Extractor, showing HDMI input from source, HDMI output to display, and various audio outputs to sound systems.

5.2 eARC/ARC Connection

To use the eARC/ARC feature, follow these steps:

1. Ensure your TV supports ARC/eARC functions.
2. Connect your TV's HDMI ARC/eARC port to the **HDMI OUT** / **ARC IN** port on the extractor using an HDMI cable that supports ARC/eARC.
3. Set the DIP switch on the extractor to the "TV" mode (eARC ON/OFF switch to ON).
4. Enable CEC (Consumer Electronics Control) on your TV settings.
5. Connect your external speakers (e.g., soundbar, amplifier) to the desired audio output port on the extractor.

Note: Volume adjustment may not be controllable through the TV remote when using eARC/ARC with this extractor.



Image 5.2: Diagram illustrating the specific connection setup for eARC/ARC functionality, showing the TV's ARC/eARC port connected to the extractor's HDMI OUT/ARC IN port, and audio routed to external speakers.

6. Operating Modes

The extractor features three audio output modes, selectable via the Audio Mode Switch:



Image 6.1: Visual representation of the three audio output modes (PASS, R/L, SPDIF) and their respective functionalities.

1. **PASS Mode:**
    - Automatically mirrors your TV's native audio format.
    - Optical output supports all multi-channel formats.
    - *Note: Analog R/L & AUX ports support 2.0 PCM only. Non-PCM inputs will result in digital buzz or noise on these analog outputs.*
2. **R/L Mode (2.1CH):**
    - Universally downmixes all audio formats (PCM, Dolby Digital, Dolby TrueHD, DTS-HD) into standard 2.0 PCM stereo.
    - Delivers synchronized stereo sound across R/L, AUX, and Optical ports simultaneously.
3. **SPDIF Mode (5.1CH):**
    - Dedicated multi-channel surround sound mode.

- Optical output supports all premium bitstream audio formats.
- *Note: Analog R/L & AUX ports require PCM input to function in this mode. Other formats will result in a static hum on these analog outputs.*

7. High Resolution Support

This extractor supports high-definition video resolutions to ensure a clear visual experience:

- Supports up to 8K@60Hz and 4K@120Hz.
- Backward compatible with 4K@60Hz, 4K@30Hz, 2K@120Hz, and 1080P.
- Supports 24-bit, 30-bit, and 36-bit color.
- For optimal 8K@60Hz resolution, ensure your source device, display, and HDMI cables all support 8K60Hz.



Image 7.1: Visual representation of the 8K@60Hz Ultra HD Resolution support, highlighting the clarity and detail provided by the extractor.

8. Compatibility

The avedio links HDMI Audio Extractor is compatible with a wide range of devices:

- **HDMI Input Devices:** Blu-ray/DVD players, TV boxes, Fire TV Stick, Apple TV, PS3/4/5, Xbox, PC, laptops, Nintendo Switch, and more.
- **HDMI Output Displays:** Monitors, HD TVs, Projectors.
- **Audio Output Devices:** Amplifiers, AV receivers, Headphones, Speakers, Soundbars.



Image 8.1: Diagram illustrating the broad compatibility of the HDMI Audio Extractor with various HDMI input sources, HDMI output displays, and audio output devices.

9. Troubleshooting

- **No Audio Output from Analog Ports (RCA L/R, 3.5mm AUX):**Ensure the audio mode is set to R/L for universal

stereo downmixing, or that the input audio is PCM if in SPDIF mode. Non-PCM inputs will cause noise or hum in PASS or SPDIF modes on analog outputs.

- **No Video or Audio:** Verify all HDMI cables are securely connected. Ensure the extractor is powered via the 5V Type-C cable. Check that your source, display, and cables support the desired resolution and audio format.
- **eARC/ARC Not Working:** Confirm your TV's HDMI port supports ARC/eARC. Enable CEC on your TV. Use an HDMI cable that supports ARC/eARC. Ensure the ARC/eARC switch on the extractor is set to ON.
- **Connecting TV as Signal Source Directly to HDMI IN:** Do not connect a TV directly to the HDMI IN port as a signal source; this device is designed to extract audio from an HDMI source device (e.g., Blu-ray player, game console) before it reaches the TV.
- **Intermittent Audio/Video:** Check for loose connections. Try different HDMI cables. Ensure the power supply is stable.

10. Specifications

Feature	Description
Brand	avedio links
Model	B0HBPM8QXG
Maximum Resolution	8K@60Hz, 4K@120Hz
Color Depth	24-bit, 30-bit, 36-bit
Audio Output Modes	PASS, R/L (2.0 PCM), SPDIF (Multi-channel)
Audio Output Interfaces	Optical (SPDIF), RCA L/R, 3.5mm AUX
HDMI Features Supported	eARC/ARC, HDR, HDR10+, Dolby Vision, DTS 7.1/5.1CH, HLG, VRR
Power Supply	DC 5V (via Type-C cable)
Interface Type	HDMI, Optical, RCA
Number of Channels	7 (for compatible audio formats)

11. Maintenance

- Keep the device in a cool, dry place, away from direct sunlight and heat sources.
- Avoid exposing the device to moisture or extreme temperatures.
- Clean the device with a soft, dry cloth. Do not use liquid or aerosol cleaners.
- Ensure all cables are connected firmly to prevent signal loss or damage.

12. Warranty and Support

This avedio links product comes with a manufacturer's warranty. For specific warranty details, please refer to the documentation included with your purchase or contact avedio links directly.
For any questions, technical assistance, or support, please contact the avedio links support team. They are available 24/7 to assist you.

Manufacturer: avedio links

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