

BUNGPUNG BP-HDC-SWB11A

BUNGPUNG 4K@60Hz HDMI ARC/eARC Audio Extractor Adapter User Manual

Model: BP-HDC-SWB11A | Brand: BUNGPUNG

1. INTRODUCTION

This manual provides detailed instructions for the installation and operation of your BUNGPUNG 4K@60Hz HDMI ARC/eARC Audio Extractor Adapter. This device is designed to convert HDMI audio to ARC/eARC audio (such as Dolby Atmos) from an HDMI source to eARC/ARC sound systems. It can also convert ARC/eARC audio from an ARC-enabled TV to AV receivers. The adapter supports various audio formats including LPCM, Dolby True HD, and DTS-HD Master Audio, making it suitable for connecting soundbars like SONOS ARC, Bose 500/700/900, and other eARC/ARC AV receivers.

2. KEY FEATURES

- **HDMI ARC/eARC Audio Conversion:** Converts HDMI audio to ARC/eARC audio (e.g., Dolby Atmos) for sound systems, and ARC/eARC audio from TV to AV receivers.
- **Wide Audio Format Support:** Compatible with LPCM, Dolby Digital/Plus/EX, Dolby True HD, DTS, DTS-EX, DTS-96/24, DTS High Res, DTS-HD Master Audio, DSD.
- **High Video Resolution:** Supports up to 4K@60Hz video resolution.
- **High Bandwidth:** 18Gbps HDMI 2.0b compliant.
- **Content Protection:** HDCP 2.3 compliant.
- **High Dynamic Range:** Supports HDR.
- **Consumer Electronics Control:** CEC compliant for integrated control.
- **Durable Construction:** Features a durable metal body for rapid heat absorption and dissipation, reducing EMI/RFI noise interference.
- **Easy Installation:** Compact size and plug-and-play installation.

- **Stable Power:** Independent power supply for stable operation.

3. PACKAGE CONTENTS

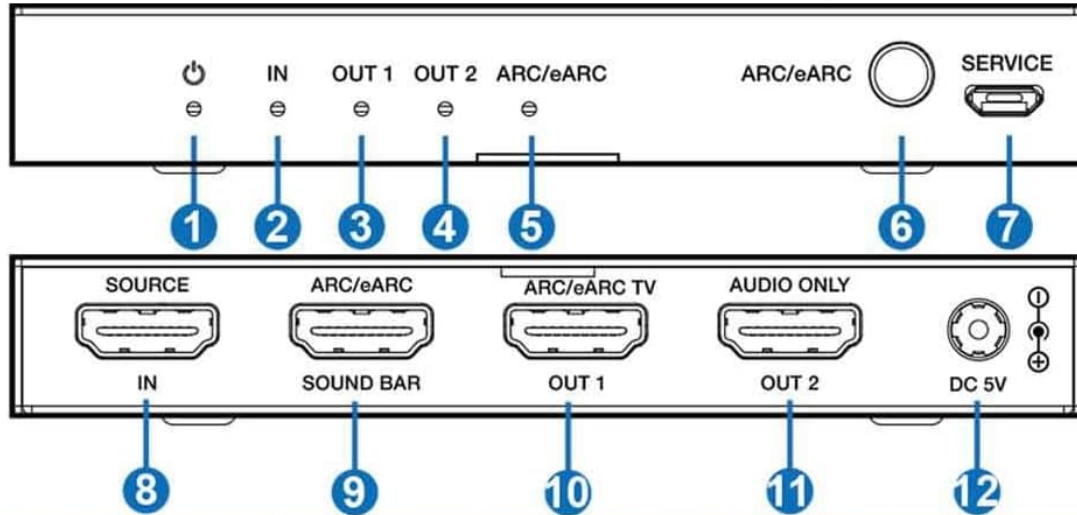
The package typically includes:

- BUNGPUNG 4K@60Hz HDMI ARC/eARC Audio Extractor Adapter (Model: BP-HDC-SWB11A)
- DC 5V Power Adapter
- User Manual

4. PRODUCT OVERVIEW AND CONNECTIONS

Familiarize yourself with the device's ports and indicators.

Operation and function description



No.	Name	Function Description
1	POWER LED	When the device is powered on, the red LED will light on.
2	HDMI IN LED	When the HDMI IN port connects with a signal source, the green LED will light on.
3	HDMI OUT1 LED	When the HDMI OUT1 port connects with a display, the green LED will light on.
4	HDMI OUT2 LED	When the HDMI OUT2 port connects with a display, the green LED will light on.
5	ARC/eARC LED	When the ARC/eARC function is turned on, the green LED will light on.
6	ARC/eARC button	Press this button, the ARC/eARC function will be enabled; Press it once again, the function will be disabled.
7	SERVICE port	Firmware update port.
8	HDMI IN	HDMI signal input port, connect to a HDMI source device such as DVD or PS5 with the HDMI cable.
9	SOUND BAR	ARC/eARC-capable audio signal output port, connect to a Soundbar with the HDMI cable.
10	HDMI OUT1	ARC/eARC-capable HDMI signal output port, connect to a TV with ARC/eARC function.
11	HDMI OUT2	Dedicated audio signal output port, connect to an Amplifier or TV. When connecting to a TV set, it will output audio only with black screen.
12	DC 5V	DC 5V Power input port.

Figure 1: Front and Rear Panel Layout with Function Description Table.

Function Description Table

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1	POWER LED	When the device is powered on, the red LED will light on.
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11	HDMI OUT2	Dedicated audio signal output port, connect to an Amplifier or TV. When connecting to a TV set, it will output audio only with black screen.
12	DC 5V	DC 5V Power input port.

5. SETUP AND INSTALLATION

Follow these steps to set up your HDMI ARC/eARC Audio Extractor Adapter:

- 1. Connect HDMI Source:** Connect your HDMI source device (e.g., Blu-ray player, game console) to the "HDMI IN" port on the adapter using a high-quality HDMI cable.
- 2. Connect Display (Optional):** Connect your TV or monitor to the "HDMI OUT1" port on the adapter using a high-quality HDMI cable. This port supports ARC/eARC functionality.
- 3. Connect Soundbar/AV Receiver:**
 - If using an ARC/eARC compatible soundbar/AV receiver, connect it to the "SOUND BAR" port on the adapter using an HDMI cable.
 - If using a non-ARC/eARC compatible audio amplifier or TV for audio only, connect it to the "HDMI OUT2" port. Note that this port outputs audio only with a black screen if connected to a TV.
- 4. Power On:** Connect the provided DC 5V power adapter to the "DC 5V" port on the adapter and plug it into a power outlet. The POWER LED will light up.
- 5. Enable ARC/eARC (if needed):** If your setup requires ARC/eARC functionality, press the "ARC/eARC" button on the adapter to enable it. The ARC/eARC LED will light up.

Connection Diagrams:

eARC OFF: HDMI IN-->HDMI OUT+eARC AUDIO OUT+HDMI AUDIO OUT

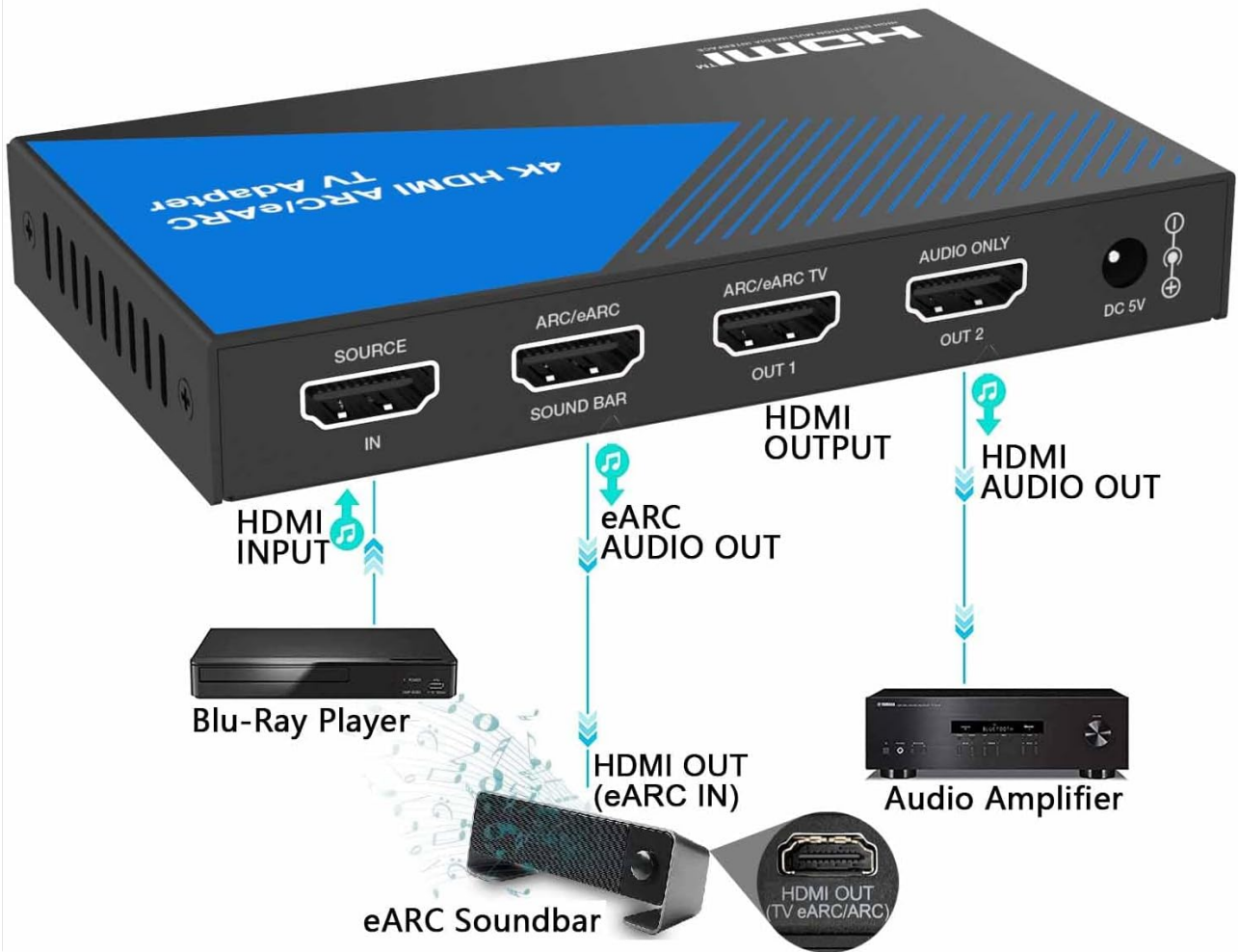
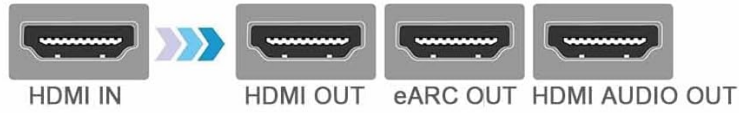


Figure 2: Connecting HDMI Audio to ARC/eARC Audio (ARC/eARC function OFF).

When the ARC/eARC function is OFF, the adapter converts HDMI audio from your source device to the soundbar and also outputs HDMI audio to a display (if connected). No TV connection is required for this mode.

eARC ON: TV eARC IN-->eARC AUDIO OUT+HDMI AUDIO OUT

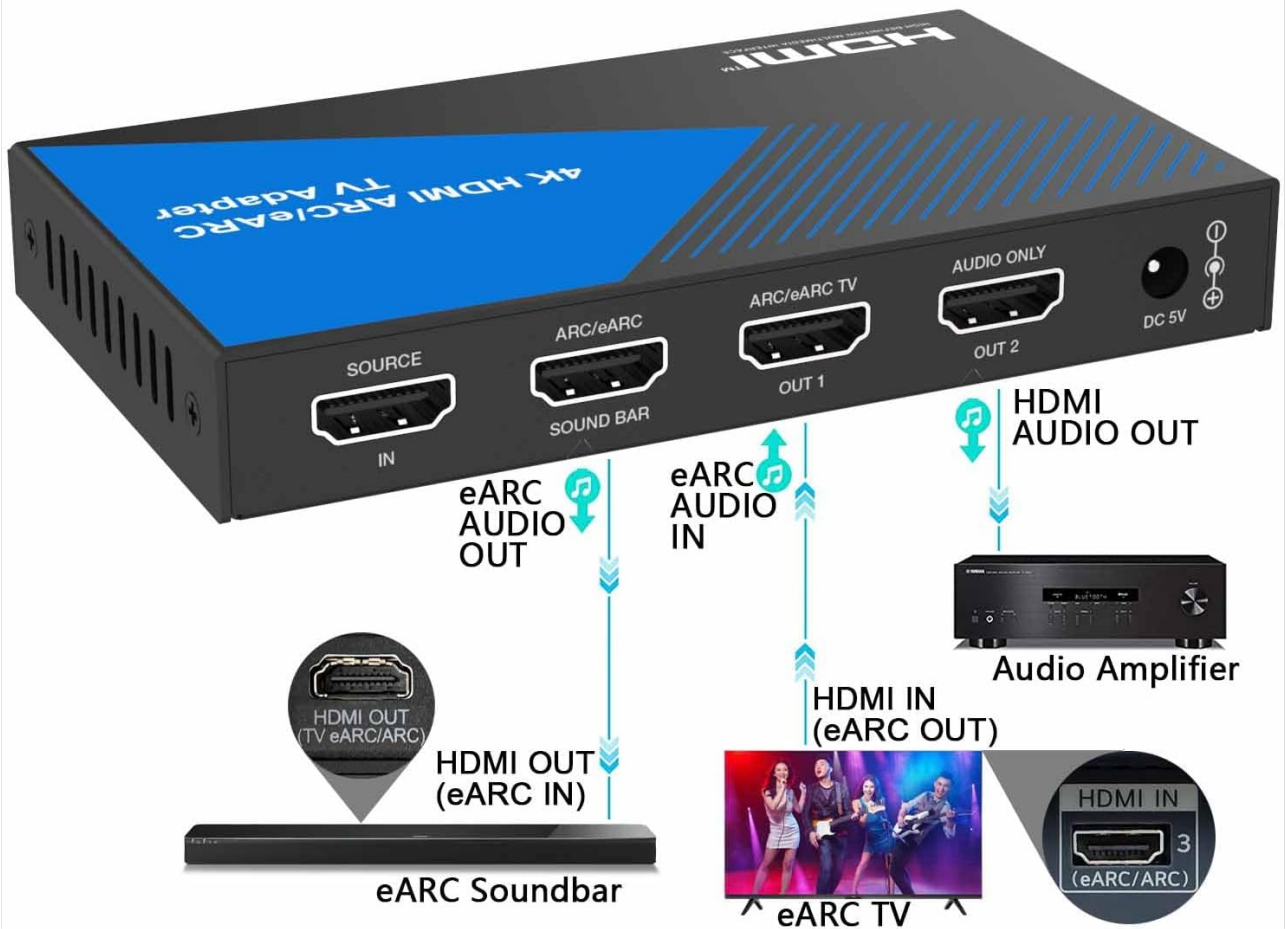


Figure 3: Connecting ARC/eARC Audio from TV to HDMI Audio (ARC/eARC function ON).

When the ARC/eARC function is ON, the adapter takes ARC/eARC audio from your TV and outputs it to the soundbar, while also providing HDMI audio output. No separate HDMI source device is required for this mode.



Figure 4: Example application diagram showing various connections.

Setup Video Guides:

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Video 1: "How to use a eARC Audio Extractor" by OREI Direct. This video demonstrates the setup and usage of an eARC audio extractor, which is similar in function to this product.

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Video 2: "How to use 4K HDMI Audio Extractor" by OREI Direct. This video provides a general guide on using a 4K HDMI audio extractor, offering insights applicable to this device.

6. OPERATING INSTRUCTIONS

Once the device is set up, operating it is straightforward:

1. **Power On All Devices:** Ensure all connected devices (HDMI source, TV, soundbar/AV receiver) are powered on.
2. **Verify LEDs:** Check the LEDs on the adapter (POWER, HDMI IN, HDMI OUT1/OUT2, ARC/eARC) to ensure proper signal detection and connection status as described in the Function Description Table.
3. **Toggle ARC/eARC Function:** Use the "ARC/eARC" button to switch between HDMI audio extraction (ARC/eARC OFF) and TV ARC/eARC audio extraction (ARC/eARC ON) modes, depending on your desired audio routing.
4. **Enjoy Audio and Video:** Your audio and video signals should now be routed correctly through your connected devices.

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Video 3: "BUNGPUNG 4K@60Hz HDMI ARC/eARC Audio Adapter" by BUNGPUNG. This official product video demonstrates the adapter in action, showcasing its features and operation.

7. TROUBLESHOOTING

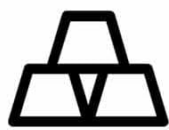
If you encounter issues, try the following:

- **No Power:** Ensure the DC 5V power adapter is securely connected to both the adapter and a working power outlet. Check the POWER LED.
- **No Video/Audio:**
 - Verify all HDMI cables are securely connected to the correct ports.
 - Check the HDMI IN/OUT LEDs on the adapter to confirm signal detection.
 - Ensure your TV/monitor and sound system are set to the correct input source.
 - Try bypassing the adapter to confirm the source and display devices are working independently.
- **ARC/eARC Not Working:**
 - Ensure the ARC/eARC function is enabled on the adapter (ARC/eARC LED should be green).
 - Verify that your TV and soundbar/AV receiver both support ARC/eARC and that the feature is enabled in their respective settings.
 - Use high-quality HDMI cables that support ARC/eARC.
- **Audio Quality Issues:**
 - Ensure all devices are compatible with the selected audio format.
 - Check the audio settings on your source device and TV to ensure they are outputting the desired format.

8. SPECIFICATIONS

Feature	Detail
Product Dimensions	4.72 x 2.76 x 0.63 inches
Item Model Number	BP-HDC-SWB11A
Video Resolution Support	Up to 4K@60Hz
HDMI Version	HDMI 2.0b
Bandwidth	18Gbps
HDCP Compliance	HDCP 2.3
HDR Support	Yes
CEC Support	Yes

Feature	Detail
Audio Formats	LPCM, Dolby Digital/Plus/EX, Dolby True HD, DTS, DTS-EX, DTS-96/24, DTS High Res, DTS-HD Master Audio, DSD
Power Supply	DC 5V
Housing Material	Metal



Durable
Metal housing



High speed
heat dissipation



Reduce EMI/RFI
noise interference



Small size
Easy to install



Plug & play

Figure 5: Product dimensions and key features overview.

9. WARRANTY AND SUPPORT

This product is covered by a one-year warranty from the date of purchase. If you have any questions about compatibility or initial defects, please feel free to contact BUNGPUNG customer support.

