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> BUNGPUNG 8K@60Hz HDMI eARC Audio Extractor Adapter User Manual

BUNGPUNG BP-HDC-MC03

BUNGPUNG 8K@60Hz HDMI eARC Audio Extractor Adapter User Manual

Model: BP-HDC-MC03

Brand: BUNGPUNG

1. INTRODUCTION

This manual provides detailed instructions for the installation, operation, and maintenance of your BUNGPUNG 8K@60Hz HDMI eARC Audio Extractor Adapter. This device is designed to extract audio signals from an HDMI source or a TV with ARC/eARC functionality, allowing you to output HDMI eARC audio to a soundbar or other audio system. It supports high-resolution video up to 8K@60Hz and is compatible with HDMI 2.1, HDCP 2.3, and HDR standards.



Figure 1: BUNGPUNG 8K@60Hz HDMI eARC Audio Extractor Adapter. This image shows the compact black adapter with green accents, featuring HDMI IN, OUT, eARC OUT ports, and control switches.

2. KEY FEATURES

- **HDMI eARC Audio Extraction:** Extracts audio signals from an HDMI source or TV with ARC/eARC to output HDMI eARC audio to a soundbar.
- **Ultra HD Video Support:** Supports video resolutions up to 8K@60Hz 4:2:0 12bit, 4K@120Hz 4:4:4 12bit, and UltraHD 4K@60Hz RGB 4:4:4. Backwards compatible with 480i / 480p / 720p / 1080i / 1080P@60/120Hz.
- **Advanced Compatibility:** Compatible with HDMI 2.1, HDCP 2.3, and HDR. Supports deep color (30 bit, 36 bit, 48 bit).
- **eARC Functionality:** When eARC is enabled, the TV(eARC) OUT port functions as an ARC/eARC audio channel, returning audio from the 8K TV. When eARC is off, audio for the soundbar comes from the HDMI input source.
- **Wide Device Compatibility:** Works with Blu-ray players, DVDs, HD players, Amazon Fire TV, Apple TV, PS3/4 Pro, Xbox, PCs/Laptops, HD cameras, Chromecast, Fire Stick, Roku, HDDVR, full HD TVs, monitors, projectors, speakers, amplifiers, and soundbars.
- **Durable Construction:** Features a durable metal body for rapid heat absorption and dissipation, reducing EMI/RFI noise interference.
- **Compact and Easy to Use:** Compact size with plug-and-play installation. Includes an independent power supply for stable operation.

3. PACKAGE CONTENTS

Please ensure all items are present and in good condition upon opening the package:

- BUNGPUNG 8K@60Hz HDMI eARC Audio Extractor Adapter (BP-HDC-MC03)
- DC 5V Power Adapter
- User Manual (this document)

4. SETUP AND CONNECTIONS

4.1. Device Overview

Familiarize yourself with the ports and indicators on the adapter:

BUNGPUNG 8K60Hz HDMI eARC Audio Extractor for Soundbar

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

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



- 48 Gbps
- 8K 60Hz
- HDMI 2.1
- HDCP 2.3
- HDR 10
- CEC
- eARC

Figure 2: Top and rear view of the adapter showing input/output ports, LEDs, and control switches.

Function and operation explanation

No.	Name	Function Description
1	Power LED	When the device is powered on, the red LED will be on.

2	IN LED	When the input signal is detected, the green LED will be on.
3	OUT LED	When the OUT port connects to a TV, the green LED will be on.
4	Soundbar LED	When the eARC OUT port connects to a soundbar, the green LED will be on.
5	eARC LED	<ul style="list-style-type: none"> ▪ On: The ARC/eARC function is turned on. CEC communication and ARC/eARC is working properly. ▪ Flashing: The ARC/eARC function is turned on. CEC communication and ARC/eARC is not working properly. ▪ Off: The ARC/eARC function is turned off.
6	eARC button	Press this button to enable or disable the eARC function.
7	EDID DIP switch	<p>Use the DIP switch to set EDID.</p> <p>[DIP]=111: Copy OUT port sink video and audio EDID</p> <p>[DIP]=110: Copy OUT port sink video EDID, Audio 7.1CH</p> <p>[DIP]=101: FRL12G_8K_HDR, 2.0CH</p> <p>[DIP]=100: FRL12G_8K_HDR, 5.1CH</p> <p>[DIP]=011: FRL12G_8K_HDR, 7.1CH</p> <p>[DIP]=010: FRL10G_8K_HDR, 2.0CH</p> <p>[DIP]=001: FRL10G_8K_HDR, 5.1CH</p> <p>[DIP]=000: FRL10G_8K_HDR, 7.1CH</p>
8	SERVICE	Firmware update and debug port.

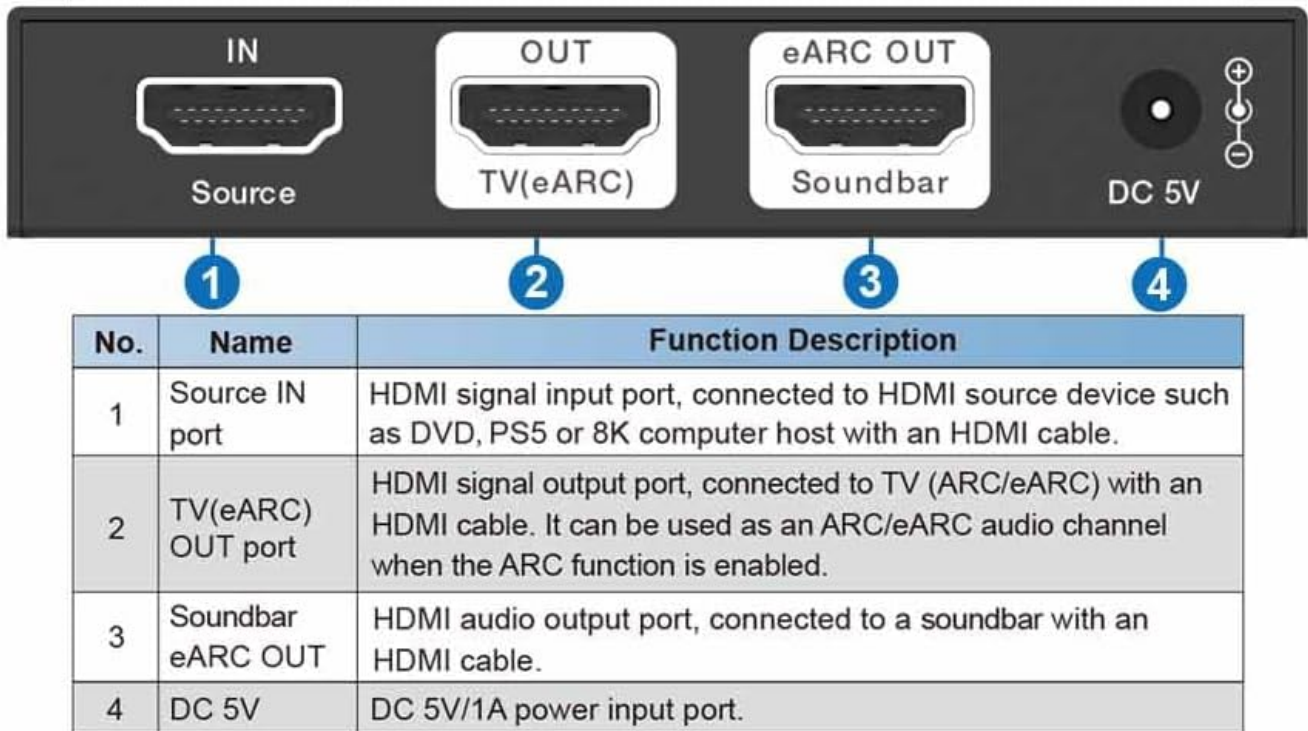


Figure 3: Detailed diagram explaining the function of each port, LED, and switch.

Front Panel Indicators and Controls:

- **Power LED:** Red when the device is powered on.
- **IN LED:** Green when an input signal is detected.
- **OUT LED:** Green when the OUT port connects to a TV.
- **Soundbar LED:** Green when the eARC OUT port connects to a soundbar.
- **eARC LED:** Flashing indicates eARC/ARC is not working properly. Solid green indicates eARC/ARC is working properly.

- **eARC button:** Press to enable or disable the eARC function.
- **EDID DIP Switch:** Used to set EDID modes. Refer to Section 5.2 for details.
- **SERVICE Port:** Firmware update and debug port.

Rear Panel Ports:

- **IN (Source) Port:** HDMI signal input port, connects to an HDMI source device (e.g., PS5, Blu-ray player, PC).
- **OUT (TV(eARC)) Port:** HDMI output port, connects to a TV. Can be used as an ARC/eARC audio channel when the eARC function is enabled.
- **eARC OUT (Soundbar) Port:** HDMI audio output port, connects to a soundbar or other audio system.
- **DC 5V Port:** Power input port for the included DC 5V/1A power adapter.

4.2. Connection Steps

Follow these steps to connect your adapter:

1. Connect an HDMI cable from your source device (e.g., Blu-ray player, game console, PC) to the **IN (Source)** port on the adapter.
2. Connect an HDMI cable from the **OUT (TV(eARC))** port on the adapter to the HDMI input on your TV or display.
3. Connect an HDMI cable from the **eARC OUT (Soundbar)** port on the adapter to the HDMI input on your soundbar or audio receiver.
4. Connect the included DC 5V power adapter to the **DC 5V** port on the adapter, then plug the power adapter into a wall outlet.
5. Power on all connected devices (source, TV, soundbar, and the adapter).

8K@60Hz Ultra HD Clear image
impeccable quality Synchronized audio and video output



Figure 4: Typical connection setup for the HDMI eARC Audio Extractor Adapter.

5. OPERATION

5.1. eARC Function Control

The adapter provides flexibility in how audio is routed, depending on whether the eARC function is enabled or disabled.

eARC OFF Mode:

When the eARC function is turned OFF (by pressing the eARC button until the eARC LED is off or flashing), the audio signal for the soundbar is extracted directly from the HDMI input source. The HDMI OUT port will carry both video and audio to the TV, and the eARC OUT port will carry the extracted audio to the soundbar.



Figure 5: Audio routing when eARC function is OFF. Audio is extracted from the HDMI IN source.

eARC ON Mode:

When the eARC function is turned ON (by pressing the eARC button until the eARC LED is solid green), the TV(eARC) OUT port acts as an ARC/eARC audio channel. In this mode, the audio signal for the soundbar is returned from the 8K TV connected to the OUT port. This is useful for playing audio from smart TV apps or broadcast channels through your soundbar.



Figure 6: Audio routing when eARC function is ON. Audio is returned from the TV via eARC.

5.2. EDID Management

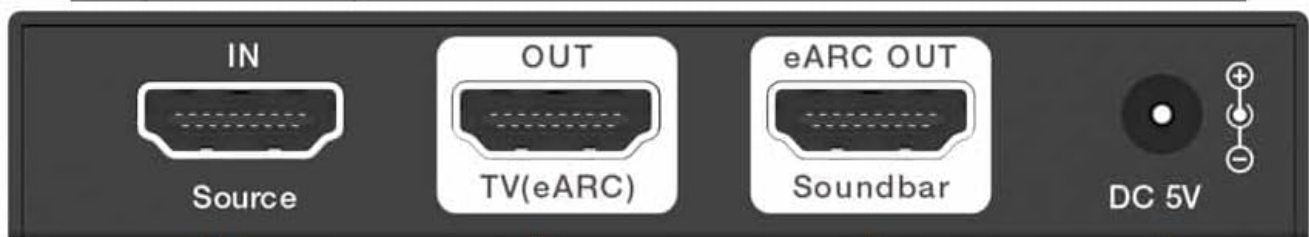
The EDID (Extended Display Identification Data) DIP switch allows you to manually configure the audio and video capabilities reported by the adapter to the source device. This can help resolve compatibility issues or force specific resolutions/audio formats.

The DIP switch has two positions (1 and 0) for each setting. Refer to the diagram below for specific configurations:

Function and operation explanation



No.	Name	Function Description
1	Power LED	When the device is powered on, the red LED will be on.
2	IN LED	When the input signal is detected, the green LED will be on.
3	OUT LED	When the OUT port connects to a TV, the green LED will be on.
4	Soundbar LED	When the eARC OUT port connects to a soundbar, the green LED will be on.
5	eARC LED	<ul style="list-style-type: none"> ▪ On: The ARC/eARC function is turned on. CEC communication and ARC/eARC is working properly. ▪ Flashing: The ARC/eARC function is turned on. CEC communication and ARC/eARC is not working properly. ▪ Off: The ARC/eARC function is turned off.
6	eARC button	Press this button to enable or disable the eARC function.
7	EDID DIP switch	Use the DIP switch to set EDID. [DIP]=111: Copy OUT port sink video and audio EDID [DIP]=110: Copy OUT port sink video EDID, Audio 7.1CH [DIP]=101: FRL12G_8K_HDR, 2.0CH [DIP]=100: FRL12G_8K_HDR, 5.1CH [DIP]=011: FRL12G_8K_HDR, 7.1CH [DIP]=010: FRL10G_8K_HDR, 2.0CH [DIP]=001: FRL10G_8K_HDR, 5.1CH [DIP]=000: FRL10G_8K_HDR, 7.1CH
8	SERVICE	Firmware update and debug port.



No.	Name	Function Description
1	Source IN port	HDMI signal input port, connected to HDMI source device such as DVD, PS5 or 8K computer host with an HDMI cable.

2	TV(eARC) OUT port	HDMI signal output port, connected to TV (ARC/eARC) with an HDMI cable. It can be used as an ARC/eARC audio channel when the ARC function is enabled.
3	Soundbar eARC OUT	HDMI audio output port, connected to a soundbar with an HDMI cable.
4	DC 5V	DC 5V/1A power input port.

Figure 7: EDID DIP switch settings and their corresponding audio/video output modes.

Table 1: EDID DIP Switch Settings

DIP Setting (1=Up, 0=Down)	Description
[DIP]=111	Copy OUT port sink video EDID, Audio 7.1CH
[DIP]=110	Copy OUT port sink video and Audio EDID
[DIP]=101	FRL12G_8K_HDR, 2.0CH
[DIP]=100	FRL12G_8K_HDR, 5.1CH
[DIP]=011	FRL10G_8K_HDR, 7.1CH
[DIP]=010	FRL10G_8K_HDR, 2.0CH
[DIP]=001	FRL10G_8K_HDR, 5.1CH
[DIP]=000	FRL10G_8K_HDR, 7.1CH

Note: Always power cycle the adapter after changing EDID DIP switch settings for the changes to take effect.

6. SPECIFICATIONS

Table 2: Product Specifications

Attribute	Value
Product Dimensions (L x W x H)	3.94 x 2.76 x 0.79 inches (95mm x 68mm x 18mm)
Item Weight	0.007 ounces (approximately 178g)
Model Number	BP-HDC-MC03
Manufacturer	BUNGPUNG
Compatible Devices	Laptop, Speaker, Television, Blu-ray player, DVD, HD player, Game Consoles (PS3/4 Pro, Xbox), Streaming Devices (Amazon Fire TV, Apple TV, Chromecast, Fire Stick, Roku), Projectors, Amplifiers, Soundbars

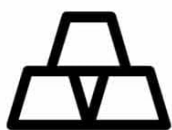
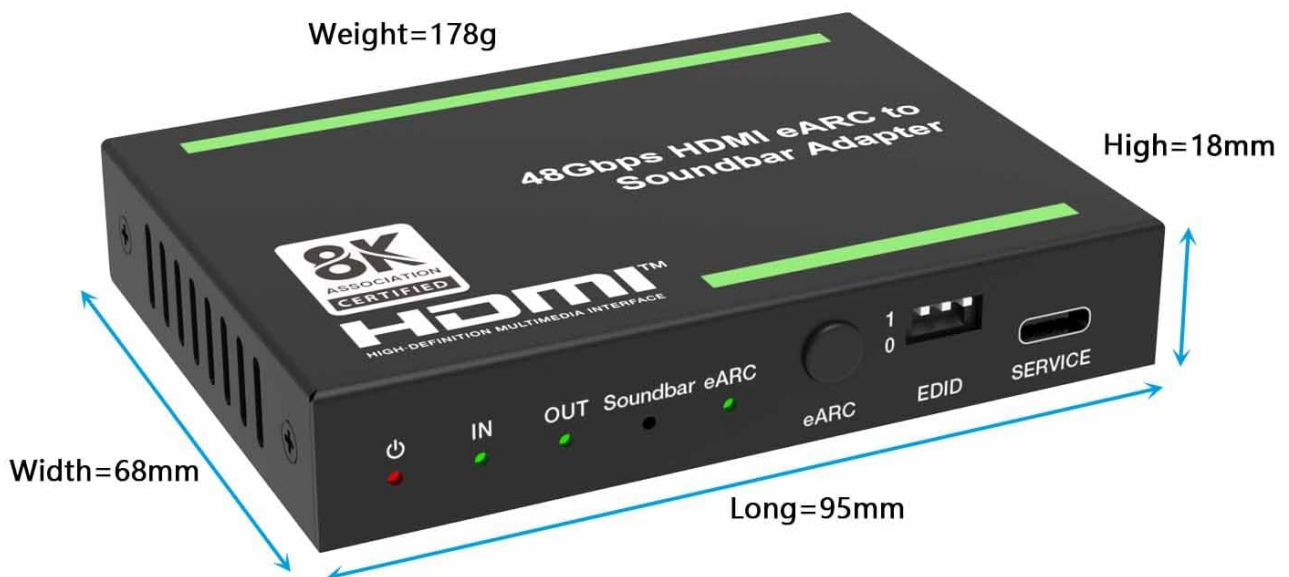
Attribute	Value
Connector Type	HDMI
Video Resolution Support	Up to 8K@60Hz 4:2:0 12bit, 4K@120Hz 4:4:4 12bit, UltraHD 4K@60Hz RGB 4:4:4. Backwards compatible with 480i / 480p / 720p / 1080i / 1080P@60/120Hz.
HDMI Compliance	HDMI 2.1, HDCP 2.3, HDR
Color Depth Support	30 bit, 36 bit, 48 bit
Power Supply	DC 5V/1A (included adapter)



8K@60Hz
More realistic images

HDR
Immersive visual effects

DOLBY / DTS / DSD
Acoustic feast



Durable
Metal housing



High speed
heat dissipation



Reduce EMI/RFI
noise interference



Small size
Easy to install



Plug & play

Figure 8: The adapter supports 8K@60Hz Ultra HD for clear images and synchronized audio/video output.



Figure 9: Diagram illustrating the compact dimensions of the adapter (Length 95mm, Width 68mm, Height 18mm).

7. TROUBLESHOOTING

If you encounter issues, please refer to the following common troubleshooting steps:

1. No Video Output / Black Screen:

- Ensure all HDMI cables are securely connected to the correct ports.
- Verify the power adapter is connected and the Power LED on the adapter is red.
- Try a different HDMI cable, especially a certified HDMI 2.1 cable for 8K/4K@120Hz signals.
- Adjust the EDID DIP switch settings (refer to Section 5.2) to match your display's capabilities or try a different EDID mode.
- Bypass the adapter to test if the source and display work directly.
- Ensure your display supports the resolution and refresh rate output by your source device.

2. No Audio Output / Distorted Audio:

- Check all audio connections to your soundbar/receiver.
- Verify the Soundbar LED is green, indicating a connection.
- Ensure the eARC function is set correctly (ON for TV audio, OFF for source audio) as described in Section 5.1.
- Adjust the EDID DIP switch settings (refer to Section 5.2) to ensure the correct audio format is being sent.
- Check the audio settings on your source device and TV to ensure they are outputting compatible audio formats.
- If experiencing noise, ensure the source device is powered on before the adapter and sound system, and power off the sound system before the source device.

3. eARC LED Flashing:

- This indicates that the eARC/ARC function is not working properly.
- Ensure your TV's HDMI port supports ARC/eARC and that the function is enabled in your TV's settings.
- Try power cycling all devices (TV, soundbar, adapter, source).
- Ensure you are using high-quality HDMI cables.

4. CEC Issues:

- CEC (Consumer Electronics Control) functionality can sometimes be inconsistent between different brands.
- Ensure CEC is enabled on your TV and source devices.
- If issues persist, you may need to manually control power and input selection on your devices.

8. WARRANTY AND SUPPORT

This BUNGPUNG product is covered by a one-year warranty from the date of purchase. This warranty covers defects in materials and workmanship under normal use.

If you have any questions regarding compatibility, initial defects, or require technical assistance, please do not hesitate to contact BUNGPUNG customer support. Please have your model number (BP-HDC-MC03) and purchase details ready when contacting support.

For support, please visit the official BUNGPUNG website or contact your retailer.