

ROFAVEZCO EZ-EX11HA21-EO

ROFAVEZCO 4K@120Hz HDMI 2.1 eARC Audio Extractor User Manual

Model: EZ-EX11HA21-EO

1. INTRODUCTION

The ROFAVEZCO 4K@120Hz HDMI 2.1 eARC Audio Extractor is designed to extract audio from an HDMI 2.1 source and output it to a soundbar or audio receiver via eARC/ARC or SPDIF, while simultaneously passing through the video signal to a display. This device supports advanced HDMI 2.1 features including 4K@120Hz, VRR, ALLM, HDR, and HDCP2.3, making it ideal for modern gaming consoles (PS5, Xbox Series X) and other high-fidelity media devices. It allows for flexible audio routing to enhance your home theater experience.

2. KEY FEATURES

- **HDMI 2.1 Compliance:** Supports 4K@120Hz 4:4:4 8bit, 8K@60Hz, 1080p@240Hz, 5120x1440@120Hz, 3840x2160@60Hz, 1440p@60Hz.
- **Advanced Video Features:** Compatible with VRR (Variable Refresh Rate), ALLM (Auto Low Latency Mode), HDR (High Dynamic Range), Deep Color, 3D, and Lip Sync.
- **HDCP Support:** Bypasses HDCP2.2 and HDCP2.3 for broad compatibility.
- **Audio Extraction:** Extracts audio via eARC/ARC to a soundbar and SPDIF Optical Digital (5.1CH).
- **High-Fidelity Audio:** Supports HD lossless Audio/Video formats, including Digital 7.1CH, DTS:X, True HD, DTS-HD Master Audio via HDMI OUT.
- **EDID Management:** Features Digital EDID settings for optimized audio output (Fixed 4K7.1, SPDIF5.1, ATMOS).
- **CEC Bypass:** Allows TV remote directional/confirm buttons to control source device menus (e.g., PS5/Xbox UI). Note: Does not support volume control.
- **Plug & Play:** Easy to use with no driver installation required.
- **Wide Compatibility:** Works with N-v-i-dia Shield, X-f-inity box, Game Capture, A-pple TV, F-ire TV, PS3/PS4 Pro, PS5, Xbox Series X, Switch, and various soundbars (e.g., S-O-N-O-S ARC/eARC).
- **Compact Design:** Portable and flexible for easy installation.

3. PACKAGE CONTENTS

Please verify that all items are present in your package:

- ROFAVEZCO 4K@120Hz HDMI 2.1 eARC Audio Extractor
- Type-C Cable (for power)
- User Manual

Packing List

HDMI2.1 eARC Audio Extractor



Packing box



Type C Cable



User Manual



This image shows the contents of the product package, including the HDMI 2.1 eARC Audio Extractor, packing box, Type-C cable, and user manual, along with the device's dimensions (58mm x 52.8mm x 22mm).

4. PRODUCT OVERVIEW

The ROFAVEZCO HDMI 2.1 eARC Audio Extractor features a compact design with clearly labeled ports for easy connection.



This image displays the compact design of the ROFAVEZCO HDMI 2.1 eARC Audio Extractor, showing its input and output ports, including HDMI In, HDMI Out (TV), eARC/ARC (Soundbar), SPDIF Out, Power/FW port, and the EDID switch.

Port Descriptions:

- **HDMI IN:** Connects to your source device (e.g., PS5, Xbox, PC).
- **HDMI OUT (TV):** Connects to your display device (e.g., TV, monitor).
- **eARC/ARC (Soundbar):** Connects to your eARC/ARC compatible soundbar or audio receiver.
- **SPDIF OUT:** Optical digital audio output for connecting to older sound systems or receivers.
- **POWER/FW:** USB Type-C port for power supply (5V/2A adapter required, not included) and firmware updates.
- **EDID Switch:** A three-position switch to select audio EDID modes (FIXED 4K7.1, SPDIF5.1, ATMOS).

5. SETUP

Follow these steps to set up your HDMI 2.1 eARC Audio Extractor:

1. **Connect Source:** Connect your HDMI source device (e.g., PS5, Xbox, PC, Apple TV) to the **HDMI IN** port on the extractor using a high-quality HDMI 2.1 cable (recommended less than 10ft / 3m).
2. **Connect Display:** Connect your TV or monitor to the **HDMI OUT (TV)** port on the extractor using another high-quality HDMI 2.1 cable.
3. **Connect Audio Device:**
 - For eARC/ARC compatible soundbars: Connect your soundbar to the **eARC/ARC (Soundbar)** port on the extractor using an HDMI cable.
 - For optical audio devices: Connect your audio receiver or sound system to the **SPDIF OUT** port on the extractor using an optical cable.
4. **Power On:** Connect the provided Type-C cable to the **POWER/FW** port on the extractor and plug the other end into a 5V/2A USB power adapter (not included). The device will power on automatically.
5. **Select EDID Mode:** Adjust the EDID switch on the extractor according to your desired audio output and system configuration (refer to Section 6 for details).



This diagram illustrates a typical setup for the audio extractor, connecting a source device (like a PS5) to the HDMI In, a TV to HDMI Out


(TV), and a soundbar to the eARC/ARC (Soundbar) port, with the device powered via a USB cable.




6. OPERATING INSTRUCTIONS

6.1 EDID Audio Output Settings

The EDID switch allows you to control the audio format presented to the source device, ensuring optimal compatibility with your audio system. Select the appropriate mode based on your soundbar or receiver capabilities:

EDID AUDIO OUT SETTING



	FIXED 4K7.1	Video will be 4K@120Hz VRR and audio will be Atmos/7.1CH
	SPDIF5.1	Copy TV' EDID, and audio will be 5.1CH
	ATMOS	Copy TV' EDID, and audio will be Atmos/7.1CH

• **You cannot use Dolby Atmos and SPDIF outputs simultaneously**

4K7.1/Dolby Atmos Mode	<input checked="" type="checkbox"/> HDMI OUT 2 (eARC): Dolby Atmos 7.1 channel audio
	<input checked="" type="checkbox"/> SPDIF Output: No signal (This port will be inactive)
Best for: Dolby Atmos soundbars/home theater systems	
SPDIF 5.1CH Mode	<input checked="" type="checkbox"/> HDMI OUT 2: 5.1 channel audio (Dolby Atmos disabled)
	<input checked="" type="checkbox"/> SPDIF Output: 5.1 channel digital audio
Best for: Optical-compatible receivers/older sound systems	

This image details the EDID switch settings (FIXED 4K7.1, SPDIF5.1, ATMOS) and their corresponding video and audio output behaviors, including a note about not being able to use Dolby Atmos and SPDIF outputs simultaneously.

- **FIXED 4K7.1:**
 - Video: 4K@120Hz VRR.
 - Audio: Atmos/7.1CH.
 - Best for: Dolby Atmos soundbars/home theater systems.
- **SPDIF5.1:**

- Video: Copies TV's EDID.
- Audio: 5.1CH.
- Best for: Optical-compatible receivers/older sound systems.

- **ATMOS:**

- Video: Copies TV's EDID.
- Audio: Atmos/7.1CH.
- Best for: Dolby Atmos soundbars/home theater systems.

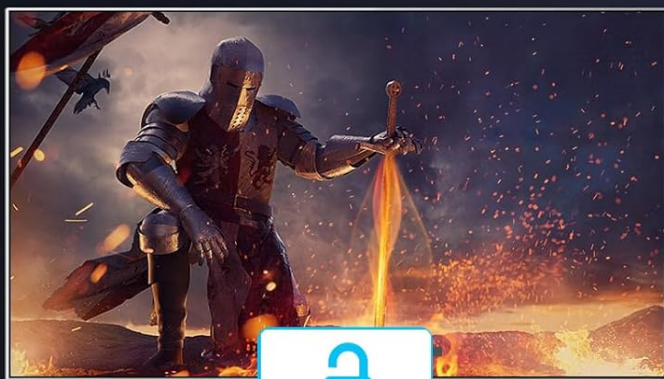
Important Note: You cannot use Dolby Atmos and SPDIF outputs simultaneously. If 4K7.1/Dolby Atmos Mode is selected, SPDIF Output will have no signal (inactive). If SPDIF 5.1CH Mode is selected, HDMI OUT 2 & SPDIF will output 5.1 channel digital audio (Dolby Atmos disabled).

6.2 CEC Bypass Control

The extractor supports CEC (Consumer Electronics Control) bypass, allowing your TV remote's directional and confirm buttons to control menus on your source device (e.g., PS5 or Xbox user interface). This feature streamlines control without needing multiple remotes.

CEC Bypass&ARC/ARC Soundbar

CEC Bypass: TV remote directional/confirm buttons control source device menus (e.g., PS5/Xbox UI)



eARC Soundbar EDID: Set to 4K7.1/
Dobly Atmos
ARC Soundbar: Set to SPDIF/5.1ch

eARC/ARC Soundbar



This image shows how the TV remote can control source device menus (e.g., PS5/Xbox UI) through the extractor's CEC bypass feature, noting that volume control is not supported.

Note: CEC Bypass does not support volume control. Volume adjustments must be made directly on your soundbar or audio receiver.

7. SPECIFICATIONS

Attribute	Value
Package Dimensions	4.72 x 2.52 x 1.02 inches
Item Weight	3.53 ounces
Date First Available	April 23, 2025
Manufacturer	EZCOOTECH

Attribute	Value
Brand	ROFAVEZCO
Maximum Supply Voltage	5 Volts (DC)
Minimum Supply Voltage	5 Volts (DC)
Number of Pins	38
Interface Type	HDMI

8. TROUBLESHOOTING

If you encounter issues with your ROFAVEZCO HDMI 2.1 eARC Audio Extractor, please refer to the following common solutions:

- **No Power/Device Not Working:**

- Ensure you are using a 5V/2A power adapter (not included) and that it is properly connected to the POWER/FW port.
- Try using a different power adapter and/or USB Type-C cable.
- Unplug and replug the power cable to reset the device.

- **No Video/Audio Output:**

- Verify all HDMI and audio cables are securely connected to the correct ports.
- Ensure you are using high-quality HDMI 2.1 cables, especially for 4K@120Hz signals. Cables longer than 10ft (3m) are not recommended.
- Check the EDID switch setting on the extractor. Adjust it to match the capabilities of your audio system (e.g., ATMOS for Dolby Atmos soundbars, SPDIF5.1 for optical 5.1CH).
- Confirm that your TV/display and audio receiver/soundbar are set to the correct input sources.
- Remember that Dolby Atmos and SPDIF outputs cannot be used simultaneously. If you need SPDIF, ensure the EDID is set to SPDIF5.1.

- **Incompatibility Issues:**

- If you experience specific compatibility problems with certain devices, check the manufacturer's official website for potential firmware updates.

- **No Volume Control via TV Remote:**

- The CEC Bypass feature allows menu navigation but does not support volume control. Adjust volume directly on your soundbar or audio receiver.

- **Bright Blue Lights:**

- The device features bright indicator lights. If these are distracting, especially in dark environments, you may cover them with opaque tape.

If the problem persists after trying these steps, please contact customer support for further assistance.

9. MAINTENANCE

The ROFAVEZCO HDMI 2.1 eARC Audio Extractor requires minimal maintenance. Keep the device in a cool, dry place away from direct sunlight and extreme temperatures. Clean the exterior with a soft, dry cloth. Do not use liquid cleaners or abrasive materials. Ensure proper ventilation around the device to prevent overheating.

10. WARRANTY AND SUPPORT

ROFAVEZCO products are designed for reliability and performance. For information regarding warranty coverage, returns, or technical support, please refer to the warranty card included in your package or contact the manufacturer directly through their official website or the retailer where you purchased the product. Please have your product model number (EZ-EX11HA21-EO) and purchase details ready when contacting support.