

## ROFAVEZCO EZ-SW21HA21

# ROFAVEZCO 4K 120Hz HDMI 2.1 Audio Extractor Switch User Manual

Model: EZ-SW21HA21 | Brand: ROFAVEZCO

## 1. INTRODUCTION

This user manual provides detailed instructions for the installation, operation, and troubleshooting of your ROFAVEZCO 4K 120Hz HDMI 2.1 Audio Extractor Switch. This device is designed to seamlessly integrate multiple HDMI sources with your display and audio system, supporting advanced features like 4K@120Hz, VRR, ALLM, HDR10, ARC, and CEC, while providing flexible audio extraction options.

## 2. KEY FEATURES

- HDMI 2.1 Compliance:** Supports 4K@120Hz, 8K@60Hz, VRR (Variable Refresh Rate), ALLM (Auto Low Latency Mode), HDR10, and HDCP2.3.
- 2-in-1 HDMI Switch:** Connects two different HDMI sources to a single HDMI display, allowing easy switching between inputs.
- Advanced Audio Extraction:** Extracts audio from the HDMI signal via SPDIF (Optical) for 5.1CH Dolby Digital/DTS, and L/R (3.5mm stereo) for 2.1CH analog audio.
- HDMI ARC Support:** Audio Return Channel (ARC) functionality allows audio from your TV's built-in apps to be sent back to the extractor and output via SPDIF or L/R. Note: Only HDMI OUT 1 supports ARC.
- CEC Control:** Consumer Electronics Control (CEC) allows for integrated control of connected devices.
- EDID Management:** Supports EDID adjustment for optimal audio and video compatibility.
- Automatic/Manual Switching:** Offers both automatic input switching based on active source and manual switching via a button.
- Wide Compatibility:** Compatible with a broad range of HDMI devices including gaming consoles (PS5, Xbox Series X/S), streaming devices (Apple TV, Fire Stick), PCs, Blu-ray players, and projectors.

## 3. PACKAGE CONTENTS

- ROFAVEZCO 4K 120Hz HDMI 2.1 Audio Extractor Switch Unit

- USB Type-C Power Cable
- User Manual

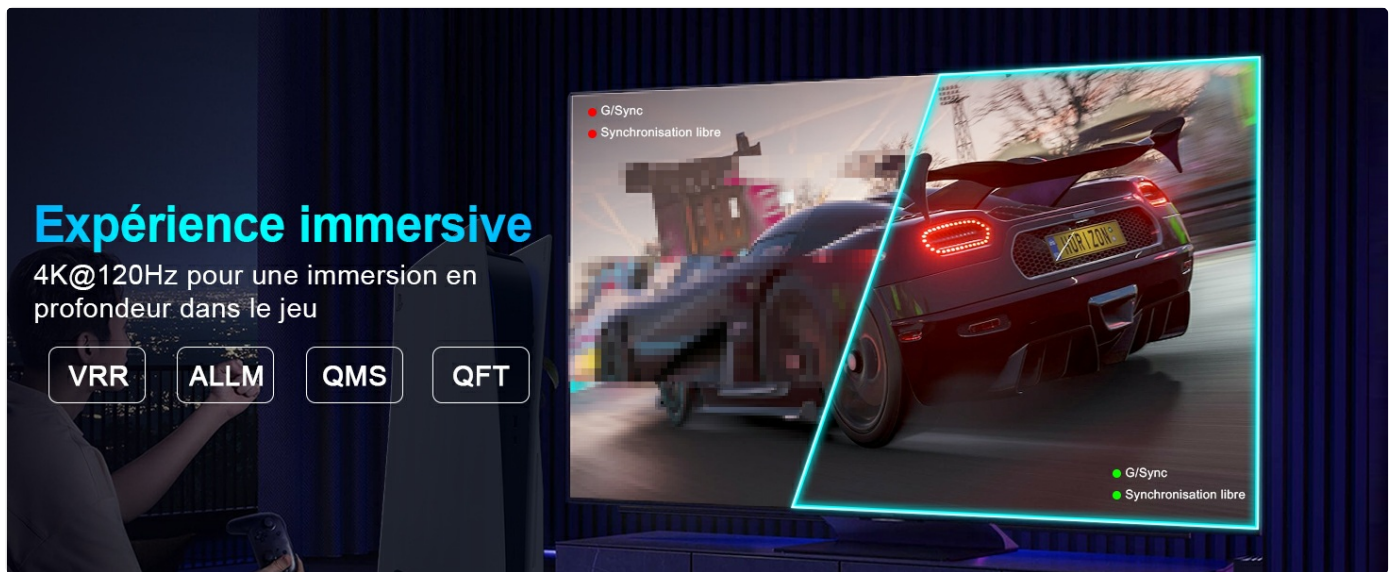


Image: Contents of the product package, including the HDMI audio extractor, USB Type-C power cable, and user manual.

## 4. PRODUCT OVERVIEW

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



Image: Front and rear view of the HDMI Audio Extractor, highlighting input and output ports.

### Port Descriptions:

- **HDMI IN 1 / HDMI IN 2:** Connect your HDMI source devices (e.g., PS5, Xbox, PC).
- **HDMI OUT:** Connect to your display (TV, monitor, projector).
- **L/R AUDIO OUT:** 3.5mm stereo audio output for headphones or 2.1ch audio systems.
- **SPDIF AUDIO OUT:** Optical audio output for 5.1ch audio systems or soundbars.
- **POWER/FW:** USB Type-C port for power supply and firmware updates.
- **SWITCH Button:** Used to manually switch between HDMI inputs and to enable/disable auto-switching.
- **AUDIO MODE Switch:** Selects the audio output mode (ARC, SPDIF/5.1CH, LR/2.1CH).

## 5. SETUP INSTRUCTIONS

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Follow these steps to set up your HDMI Audio Extractor Switch:

1. **Power Off Devices:** Ensure all devices (HDMI sources, display, audio system) are powered off before making connections.
2. **Connect HDMI Sources:** Connect your HDMI source devices (e.g., PS5, Xbox, Blu-ray player) to the **HDMI IN 1** and **HDMI IN 2** ports on the extractor using high-quality HDMI 2.1 cables.
3. **Connect to Display:** Connect the **HDMI OUT** port of the extractor to the HDMI input of your TV, monitor, or projector using a high-quality HDMI 2.1 cable.
4. **Connect Audio System (Optional):**
  - For 5.1ch audio: Connect your soundbar or amplifier to the **SPDIF AUDIO OUT** port using an optical cable.
  - For 2.1ch stereo audio: Connect your headphones or stereo speakers to the **L/R AUDIO OUT** (3.5mm) port.
5. **Connect Power:** Connect the provided USB Type-C power cable to the **POWER/FW** port on the extractor and then to a 5V/1A USB power adapter (not included) or a USB port on your display/source device.
6. **Power On Devices:** Power on your display first, then your audio system (if connected), and finally your HDMI source devices.

# 8K HDMI 2.1 Audio Extractor

■ HDMI IN   ■ HDMI OUT   ■ L/R OUT   ■ SPDIF Audio OUT





## 6. OPERATING INSTRUCTIONS

### 6.1. Input Switching

The extractor supports both manual and automatic input switching.

- **Manual Switching:** Press the **SWITCH** button on the top of the unit to cycle between HDMI IN 1 and HDMI IN 2.
- **Automatic Switching:**
  - **Enable Auto Switch:** Press and hold the **SWITCH** button for 3 seconds until the LED flashes once. The unit will automatically switch to the latest connected or powered-up device.
  - **Disable Auto Switch:** Press and hold the **SWITCH** button for 3 seconds until the LED flashes 3 times.



Image: Two ways to switch inputs: manual button press and automatic detection.

6.2. Audio Mode Selection

Use the **AUDIO MODE** switch to select your desired audio output configuration.

Mode	Description
ARC	Outputs audio from your TV's built-in applications (e.g., Netflix, YouTube) via the SPDIF (Optical) or L/R (3.5mm) ports. Ensure your TV's ARC function is enabled. Only HDMI OUT 1 supports ARC.
SPDIF/5.1CH	Copies the TV's EDID (Extended Display Identification Data) to output 5.1 channel audio via the SPDIF (Optical) port.
LR/2.1CH	Copies the TV's EDID to output 2.1 channel stereo audio via the L/R (3.5mm) port.

# AUDIO MODE SETTING

AUDIO MODE	
ARC	Optical/LR will output audio from ARC of TV
SPDIF/5.1CH	COPY TV'EDID,Audio will be 5.1CH
LR/2.1CH	COPY TV'EDID,Audio will be 2.1CH

AUDIO OUT	
SPDIF	EDID Set to SPDUF/5.1CH Or ARC,NO 2.1CH
L/R	EDID Set to LR/2.1CH

HDMI AUTO SWITCH	
ENABLE	Press Input Select Button 3 seconds and LED flash once to enable Auto switch
DISABLE	Press Input Select Button 3 seconds and LED flash 3 times to disable Auto switch

Image: Audio mode settings and their corresponding output types.

# Support ARC



## Note:

1. Please switch to ARC under Audio out Select.
2. ARC is supported on **HDMI OUT & SPDIF** port only.
3. Please remember to switch to CEC when ARC is not in used.

Image: How ARC (Audio Return Channel) functions with TV applications.

### Important ARC Notes:

1. Please switch to ARC under Audio Out Select.
2. ARC is supported on HDMI OUT and SPDIF port only.
3. Remember to switch to CEC when ARC is not in use.

## 6.3. CEC Functionality

The device supports CEC (Consumer Electronics Control), allowing compatible devices connected via HDMI to communicate and control each other. For example, turning on your PS5 might automatically turn on your TV and switch to the correct input.

**Note:** When using CEC, you may not be able to use other remote controls to switch the HDMI switch ports. The CEC function is designed for integrated control.





Image: Illustration of CEC (Consumer Electronics Control) functionality between connected devices.

## 7. COMPATIBILITY

This HDMI Audio Extractor Switch offers broad compatibility with various devices:

- **Input Devices:** PS5, PS4, PS3, Xbox One, Xbox Series X/S, Nintendo Switch, Amazon Fire Stick, Apple TV, Blu-ray players, PCs, Laptops, Media Boxes, Cameras, STBs.
- **Output Devices:** TVs, Monitors, Projectors, Soundbars, Amplifiers, Headphones.



Image: Overview of compatible input and output devices.

## 8. TROUBLESHOOTING

If you encounter issues, please refer to the following common problems and solutions:

### 1. No Video/Audio Output:

- Ensure all HDMI cables are securely connected and are HDMI 2.1 compliant.
- Verify the power cable is connected and the unit is receiving power.
- Check if the correct HDMI input is selected on your display and the extractor.



- Try restarting all connected devices (extractor, sources, display) by unplugging and replugging their power cables.
- Test with different HDMI cables if possible.

## 2. Audio Issues (No Sound, Static, Incorrect Format):

- Ensure the **AUDIO MODE** switch is set correctly (ARC, SPDIF/5.1CH, or LR/2.1CH) for your audio setup.
- For ARC, ensure your TV's ARC function is enabled and connected to HDMI OUT 1.
- Check the audio settings on your source device (e.g., PS5, Xbox) to ensure the output format is compatible with your audio system and the extractor (e.g., set to Dolby Digital for 5.1ch output).
- Verify optical or 3.5mm cables are securely connected.

## 3. 4K@120Hz / 8K@60Hz Not Working:

- Ensure all connected devices (source, display, and cables) support HDMI 2.1 and the desired resolution/refresh rate.
- Some displays may require specific HDMI port settings or firmware updates to enable full HDMI 2.1 features.
- Verify the HDMI cable length. For 4K@120Hz or 8K@60Hz, shorter, certified HDMI 2.1 cables (e.g., up to 3 meters) are recommended.

## 4. CEC Not Functioning:

- Ensure CEC is enabled on all connected devices (TV, source, extractor). CEC names vary by brand (e.g., Anynet+, Bravia Sync, Simplink).
- Try power cycling all devices.

# 9. SPECIFICATIONS

Feature	Detail
Model Number	EZ-SW21HA21
HDMI Version	HDMI 2.1 (Backward compatible with HDMI 2.0/1.4)
Max Resolution Support	8K@60Hz (4:2:0 40Gbps), 4K@120Hz
HDR Support	HDR10, Dolby Vision
HDCP Compliance	HDCP 2.3 (Backward compatible with HDCP 2.2)
Audio Output Ports	SPDIF (Optical), L/R (3.5mm Stereo)
Audio Formats	Dolby Digital, DTS, PCM 2.0/5.1/7.1 (via HDMI), Stereo 2.1 (via L/R)
Special Features	VRR, ALLM, ARC (HDMI OUT 1 only), CEC, EDID Management
Power Supply	USB Type-C, 5V/1A
Dimensions (L x W x H)	Approx. 11.9 x 6.4 x 2.6 cm (from package dimensions)
Weight	Approx. 100 grams (from package dimensions)

# 10. MAINTENANCE

To ensure the longevity and optimal performance of your device, follow these maintenance guidelines:

- **Cleaning:** Use a soft, dry cloth to clean the exterior of the unit. Do not use liquid cleaners or aerosols.
- **Ventilation:** Ensure the device is placed in a well-ventilated area to prevent overheating. Do not block any ventilation openings.
- **Storage:** When not in use for extended periods, store the device in a cool, dry place away from direct sunlight and extreme temperatures.
- **Handling:** Handle the device with care. Avoid dropping or subjecting it to strong impacts.

## 11. SAFETY INFORMATION

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Please read and adhere to the following safety precautions:

- Do not expose this device to water, moisture, or excessive humidity.
- Do not disassemble or attempt to repair the device yourself. Refer all servicing to qualified personnel.
- Use only the provided USB Type-C power cable and a compatible 5V/1A power adapter.
- Keep the device away from heat sources such as radiators, heat registers, stoves, or other apparatus (including amplifiers) that produce heat.
- Avoid placing heavy objects on the device or its cables.
- Disconnect the power supply during lightning storms or when unused for long periods.

## 12. WARRANTY AND SUPPORT

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ROFAVEZCO products are designed for reliability and performance. For warranty information and technical support, please refer to the contact details provided on the product packaging or the official ROFAVEZCO website. Please retain your proof of purchase for warranty claims.

**Note:** Information regarding spare parts availability is currently unavailable.

