ROFAVEZCO EZ-SP12H2

ROFAVEZCO HDMI Splitter 1x2 4K 60Hz Instruction Manual

Model: EZ-SP12H2

1. INTRODUCTION

Thank you for choosing the ROFAVEZCO HDMI Splitter 1x2. This device allows you to duplicate a single HDMI input signal to two HDMI output displays simultaneously. It supports high-resolution video up to 4K@60Hz, 1080p@120Hz, and advanced audio formats, making it ideal for various home theater and professional applications. Please read this manual carefully to ensure proper installation and operation.

2. PRODUCT FEATURES

- **4K 60Hz HDMI 1x2 Splitter:** Duplicates one HDMI input to two HDMI outputs, supporting resolutions up to 4K@60Hz and 1080p@120Hz.
- **Advanced Video Support:** Compatible with 3D, HDR, Dolby Vision, HDCP 2.2, and HDCP 2.3 bypass. Supports 3840x2160@60Hz and 1440p@60Hz.
- **High Bandwidth:** 8-bit 18Gbps data transfer rate for smooth, high-quality video.
- **Superior Audio Support:** Supports Dolby Atmos, 7.1CH digital audio, DTS:X, Dolby True HD, and DTS-HD Master Audio.
- **EDID Management:** Features EDID management for optimal display compatibility.
- **Scaler Function:** Includes a scaler function to downscale 4K to 1080p for one output, allowing simultaneous use of 4K and 1080p displays.
- **Plug and Play:** Easy to set up with no drivers required. Powered via Micro USB.

3. PACKAGE CONTENTS

Please check the package contents upon opening. If any items are missing or damaged, contact your retailer.

- 1x ROFAVEZCO HDMI Splitter 1x2 (Model EZ-SP12H2)
- 1x USB Type-C Power Cable
- 1x User Manual

Figure 3.1: Package Contents and Product Dimensions

The image above illustrates the compact design of the HDMI splitter, its packaging, the included USB Type-C power cable, and the user manual. The unit measures approximately 58mm x 52.8mm x 22mm.

4. PRODUCT DIAGRAM

Figure 4.1: Front and Rear Panel Overview

The diagram above highlights the various ports and controls on the ROFAVEZCO HDMI Splitter:

- **HDMI IN:** Connect your source device (e.g., PS5, Xbox, Blu-ray player).
- **HDMI OUT1:** Connect to your primary display (e.g., 4K TV).
- **HDMI OUT2:** Connect to your secondary display (e.g., 1080p monitor, soundbar).
- **POWER/FW:** Micro USB port for power supply and firmware updates.
- **EDID Switch:** Used to configure EDID settings (4K7.1, 4K5.1, COPY1).
- **SCALER Switch:** Controls the 4K to 1080p downscaling function for Output 2.

5. SETUP INSTRUCTIONS

Follow these steps to set up your HDMI splitter:

1. **Connect Source Device:** Connect your HDMI source device (e.g., game console, media player) to the **HDMI IN** port on the splitter using a high-quality HDMI 2.0 cable (recommended length under 3 meters).
2. **Connect Displays:**

- Connect your primary display (e.g., 4K TV) to the **HDMI OUT1** port.
- Connect your secondary display (e.g., 1080p monitor or soundbar) to the **HDMI OUT2** port.

3. **Power On:** Connect the included USB Type-C power cable to the **POWER/FW** port on the splitter and then to a 5V/1A-5V/3A USB power adapter (not included) or a USB port on your source device/TV.

4. **Configure EDID and Scaler:** Adjust the EDID and SCALER switches according to your display requirements (refer to Section 7 for details).

5. **Power On Devices:** Power on your displays and source device. The splitter should automatically detect the signals.

Figure 5.1: Basic Connection Diagram

This diagram illustrates a typical setup where a source device (Xbox) is connected to the splitter's input, and the splitter's outputs are connected to a 4K TV and a 1080p TV. The scaler function can be used to ensure compatibility with both displays.

6. OPERATING INSTRUCTIONS

The ROFAVEZCO HDMI Splitter operates automatically once connected and powered. It supports two primary modes of operation:

6.1 Mirror Mode

In Mirror Mode, the splitter duplicates the input signal to both HDMI OUT1 and HDMI OUT2, displaying the same content on both screens. This is ideal for presentations, gaming setups with multiple displays, or simply watching content on two screens simultaneously.

6.2 Soundbar Mode

When using a soundbar or AV receiver for audio, you can connect your primary display to HDMI OUT1 and your soundbar/receiver to HDMI OUT2. Ensure your EDID settings are configured correctly to pass through the desired audio format.

Figure 6.1: Mirror Mode and Soundbar Mode Setup

This image illustrates how to configure the splitter for Mirror Mode (top) where two displays show identical content, and Soundbar Mode (bottom) where one display receives video and a soundbar receives audio, often with the scaler enabled for the soundbar output if it's an older model.

7. EDID AND SCALER SETTINGS

The EDID and SCALER switches on the splitter allow you to optimize video and audio output for different
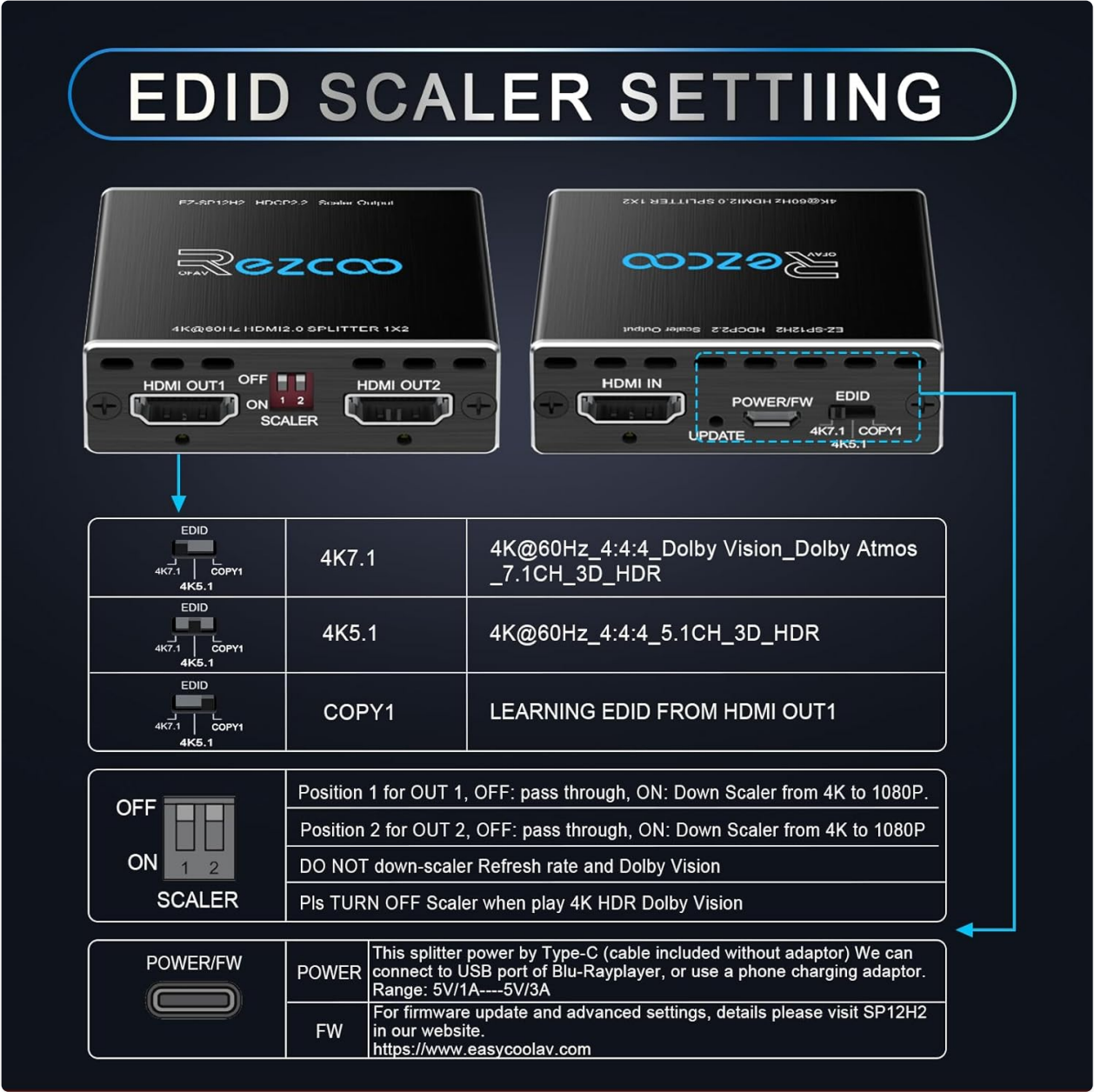
display configurations.

Figure 7.1: EDID and Scaler Switch Configuration

7.1 EDID Settings

The EDID (Extended Display Identification Data) switch has three positions:

- **4K7.1:** Forces the output to 4K@60Hz 4:4:4, Dolby Vision, Dolby Atmos, 7.1CH, 3D, HDR. Use this setting when both displays support these advanced formats.

- **4K5.1:** Forces the output to 4K@60Hz 4:4:4, 5.1CH, 3D, HDR. Suitable for setups where 5.1 channel audio is preferred.

- **COPY1:** Copies the EDID from HDMI OUT1. This is useful when you want the splitter to mimic the capabilities of your primary display.

7.2 Scaler Settings

The SCALER switch controls the downscaling function for HDMI OUT2:

- **Position 1 (OFF):** For HDMI OUT1, the signal passes through without scaling.
- **Position 2 (OFF):** For HDMI OUT2, the signal passes through without scaling.

- **Position 1 (ON):** For HDMI OUT1, the signal passes through without scaling.
- **Position 2 (ON):** For HDMI OUT2, 4K signals are downscaled to 1080p. This allows a 4K source to be displayed on both a 4K TV (OUT1) and a 1080p TV (OUT2) simultaneously.

Note: The scaler does not downscale refresh rate or Dolby Vision. If using 4K HDR Dolby Vision, please turn OFF the SCALER function.

8. COMPATIBILITY

The ROFAVEZCO HDMI Splitter offers wide compatibility with various devices and displays:

- **Source Devices:** PS5, PS4, Nintendo Switch, Xbox One S, Xbox X, Nvidia Shield, Roku Ultra, Apple TV, Chromecast, Google TV, Fire TV, Fire Stick, Xfinity Box, Elgato Game Capture, set-top boxes, cable satellite boxes, PC laptops, HD cameras, HD DVRs, Comcast.
- **Display Devices:** TVs, monitors, projectors, soundbars.

Figure 8.1: Wide Device Compatibility

This image visually confirms the broad range of devices compatible with the splitter, from gaming consoles and streaming devices to various display types and audio equipment.

8.1 HDCP Bypass

The splitter features automatic HDCP 2.2 and HDCP 2.3 bypass, allowing you to connect HDCP-protected content sources to displays that might not fully support the latest HDCP versions.

Figure 8.2: Automatic HDCP Bypass

The diagram above demonstrates the splitter's ability to automatically bypass HDCP, ensuring that protected content from sources like a PS4 can be displayed without issues on compatible screens.

9. MAINTENANCE

To ensure the longevity and optimal performance of your HDMI splitter, follow these simple maintenance guidelines:

- **Cleaning:** Use a soft, dry cloth to clean the unit. Avoid liquid cleaners or abrasive materials.
- **Ventilation:** Ensure the unit is placed in a well-ventilated area to prevent overheating. Do not block any ventilation openings.
- **Cable Care:** Handle HDMI cables carefully. Avoid bending them sharply or pulling them forcefully, as this can damage the connectors or internal wiring.

- **Power Supply:** Always use the provided USB power cable and a compatible 5V/1A-5V/3A power adapter.

10. TROUBLESHOOTING

If you encounter issues with your HDMI splitter, refer to the following common problems and solutions:

- **No Signal on Display:**

  - Ensure all HDMI cables are securely connected to the correct ports.
  - Verify the splitter is receiving power from the USB cable.
  - Check the input source selection on your display.
  - Try different HDMI cables, especially high-quality HDMI 2.0 cables under 3 meters.
  - Adjust the EDID switch settings to match your display's capabilities.

- **Intermittent Video or Audio:**

  - This often indicates poor quality or excessively long HDMI cables. Use certified HDMI 2.0 cables, preferably under 3 meters.
  - Ensure the splitter is adequately powered. Some devices may require a dedicated power adapter rather than a TV's USB port.
  - Check for overheating. Ensure the unit has proper ventilation.

- **No Audio or Incorrect Audio Format:**

  - Verify your displays and audio system support the audio format being sent by the source.
  - Adjust the EDID switch to a setting that includes the desired audio format (e.g., 4K7.1 for Dolby Atmos).
  - Ensure your soundbar or AV receiver is correctly configured to receive audio from the HDMI input.

- **4K Content Not Displaying on 1080p TV:**

  - Ensure the SCALER switch for HDMI OUT2 is set to ON to enable 4K to 1080p downscaling.

- **HDR/Dolby Vision Issues:**

  - Ensure both your source and display support HDR/Dolby Vision.
  - The splitter does not downscale HDR Dolby Vision (4K60 4:2:2) or convert HDR to SDR.
  - Turn OFF the SCALER function when using 4K HDR Dolby Vision.

11. SPECIFICATIONS

Feature	Specification
Brand	ROFAVEZCO
Model Number	EZ-SP12H2
Input Ports	1x HDMI
Output Ports	2x HDMI
Max Resolution	4K@60Hz, 1080p@120Hz

Video Formats	3D, HDR, Dolby Vision
HDCP Compliance	HDCP 2.2 / HDCP 2.3 Bypass
Bandwidth	18Gbps
Audio Formats	Dolby Atmos, 7.1CH Digital Audio, DTS:X, Dolby True HD, DTS-HD Master Audio
Power Supply	Micro USB (5V/1A-5V/3A)
Color	Grey/Black
UPC	824941679305

12. IMPORTANT NOTES AND WARNINGS

- This device does **NOT** support ARC (Audio Return Channel), e-ARC/Sonos ARC, CEC (Consumer Electronics Control), VRR (Variable Refresh Rate), 4K@120Hz, or upscaling.
- It does **NOT** downscale HDR Dolby Vision (4K60 4:2:2) or VRR.
- It does **NOT** convert HDR to SDR.
- There is no audio down-mixer.
- For optimal performance, use high-quality HDMI 2.0 cables with a length of less than 3 meters.
- To achieve both Dolby Atmos and Dolby Vision, ensure that both your TV and receiver/sound system support these formats.

13. WARRANTY AND SUPPORT

Warranty information for this product is not explicitly provided in the available product data. For details regarding warranty coverage, returns, or technical support, please contact the seller or manufacturer directly through their official channels.