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### avedio links B0DWMCDBTJ

## User Manual

AVEDIO LINKS 4K@60Hz HDMI eARC Bi-DIRECTIONAL SWITCH/SPLITTER

Model: B0DWMCDBTJ

### 1. Product Overview

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The avedio links 4K@60Hz HDMI eARC Bi-Directional Switch/Splitter is a versatile device designed to manage your HDMI audio and video signals. It functions as both a 2x1 HDMI switch and a 1x2 HDMI eARC/ARC audio splitter, allowing for flexible connectivity in various home theater and audio setups.

This device supports Ultra HD 4K@60Hz resolution, 36-bit color depth, and HDCP 2.2, ensuring high-quality video transmission. For audio, it features ARC/eARC 7.1CH, Optical Toslink SPDIF 5.1CH, coaxial, and 3.5mm stereo outputs, compatible with advanced audio formats like Dolby True HD and DTS-HD.



Figure 1.1: avedio links HDMI eARC Bi-Directional Switch/Splitter and included remote control.

## 2. Key Features

- **Bi-directional Functionality:** Operates as a 2x1 HDMI switch (two sources to one display) or a 1x2 HDMI eARC/ARC splitter (one TV eARC/ARC output to two audio devices).
- **4K@60Hz Support:** Delivers high-resolution video up to 4K@60Hz, compatible with 4K@30Hz, 1080p, and 720p.
- **Advanced Audio Extraction:** Extracts audio from HDMI sources to eARC/ARC audio devices, Optical Toslink SPDIF 5.1CH, coaxial, and 3.5mm stereo outputs.
- **EDID Settings:** Features DIP switch for EDID configuration, allowing selection between eARC switcher mode (one output) and eARC splitter mode (two simultaneous outputs).
- **Wide Compatibility:** Plug-and-play design compatible with PCs, Projectors, Blu-ray Players, gaming consoles (Switch, Xbox, PS5), Fire Stick, Roku, soundbars, amplifiers, and home theater systems.
- **Multiple Control Options:** Switch inputs and modes via front panel buttons or the included IR remote control.

## 3. Package Contents

Please ensure all items are present before proceeding with installation:

- 1 x avedio links HDMI eARC Bi-Directional Switch/Splitter Unit
- 1 x IR Remote Control
- 1 x USB Power Cable (DC/5V)
- 1 x User Manual (this document)
- *Note: A power adapter is not included and must be supplied by the user (e.g., 5V USB charger).*

## 4. Product Layout and Connections

Familiarize yourself with the ports and controls on the device:



Figure 4.1: Front and Rear Panel Layout with Port Descriptions.

1. **DC/5V Power Port:** Connect the USB power cable here.
2. **HDMI OUT / eARC IN:** This port serves as the HDMI output when functioning as a switch, or the eARC/ARC input from your TV when functioning as an audio splitter.
3. **HDMI IN1 / eARC OUT1:** This port serves as HDMI input 1 when functioning as a switch, or eARC/ARC output 1 to an audio device when functioning as an audio splitter.
4. **HDMI IN2 / eARC OUT2:** This port serves as HDMI input 2 when functioning as a switch, or eARC/ARC output 2 to an audio device when functioning as an audio splitter.
5. **Optical Output:** Toslink SPDIF digital audio output.
6. **Coaxial Output:** Coaxial digital audio output.

7. **R/L (3.5mm) Output:** Analog stereo audio output.
8. **EDID DIP Switch:** Used to configure the device's EDID settings and operational mode (Switch or Splitter).
9. **Select Button:** Switches between HDMI inputs (IN1/IN2) in switch mode.
10. **eARC Audio Button:** Toggles eARC audio on/off.
11. **IR Receive:** Infrared receiver for the remote control.
12. **TV Audio Switch:** Toggles TV audio output.
13. **Indicator Lights (1, 2, 3, eARC Audio):** Indicate active input, eARC status, etc.

## 5. Setup and Connection

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Before connecting, ensure all devices are powered off.

### 5.1. 2x1 HDMI Switch Mode

In this mode, the device allows you to connect two HDMI source devices (e.g., game console, Blu-ray player) to one HDMI display (e.g., TV, monitor).

- Connect your first HDMI source device to the **HDMI IN1 / eARC OUT1** port.
- Connect your second HDMI source device to the **HDMI IN2 / eARC OUT2** port.
- Connect your HDMI display (TV/monitor) to the **HDMI OUT / eARC IN** port.
- Ensure the 4th DIP switch is in the **"Down" (0) position** for splitter mode, or if using as a simple switch, the EDID settings should be configured for the desired audio/video output.
- Connect the USB power cable to the **DC/5V** port and then to a 5V USB power adapter (not included).



## Mode 1: 2X1 HDMI Switch



## Mode 2: 1X2 HDMI eARC Splitter



Figure 5.1: 2x1 HDMI Switch Connection Diagram.



Figure 5.2: Example of 2x1 HDMI Switch Model setup with gaming consoles and laptop.

### 5.2.1. eARC Switch Mode (1-in-1-out)

In this mode, the device allows you to switch between two eARC/ARC audio devices connected to your TV's eARC/ARC output.

- Connect your TV's HDMI (eARC/ARC) port to the **HDMI OUT / eARC IN** port on the splitter.
- Connect your first eARC/ARC audio device (e.g., soundbar) to the **HDMI IN1 / eARC OUT1** port.
- Connect your second eARC/ARC audio device (e.g., amplifier) to the **HDMI IN2 / eARC OUT2** port.
- Ensure the 4th DIP switch is in the **"Up" (1) position** for eARC Switch mode.
- Connect the USB power cable to the **DC/5V** port and then to a 5V USB power adapter (not included).



Figure 5.3: Example of eARC Switch Model setup.

### 5.2.2. eARC Splitter Mode (1-in-2-out)

In this mode, the device extracts audio from your TV's eARC/ARC port and sends it simultaneously to two separate eARC/ARC compatible audio devices.

- Connect your TV's HDMI (eARC/ARC) port to the **HDMI OUT / eARC IN** port on the splitter.
- Connect your first eARC/ARC audio device (e.g., soundbar) to the **HDMI IN1 / eARC OUT1** port.
- Connect your second eARC/ARC audio device (e.g., amplifier) to the **HDMI IN2 / eARC OUT2** port.
- Ensure the 4th DIP switch is in the **"Down" (0) position** for eARC Splitter mode.
- Connect the USB power cable to the **DC/5V** port and then to a 5V USB power adapter (not included).



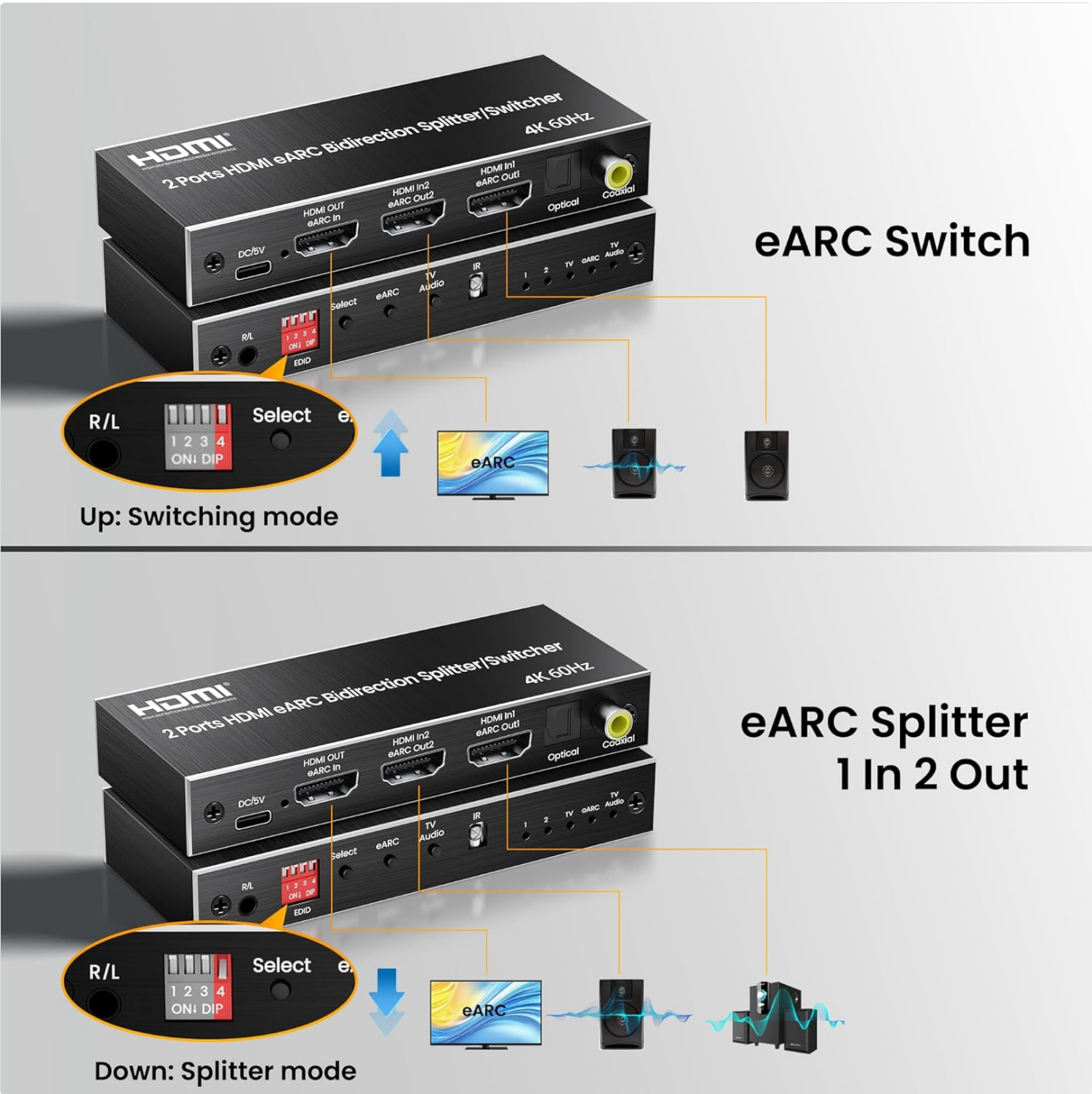


Figure 5.4: eARC Switch vs. eARC Splitter Mode Configuration.

"0" – switch up ↑  
 "1" – switch down ↓  
 4th DigitUp  
 ("0"): eARC Switch 2X1  
 ("1"): eARC Splitter 1X2

### 4 Kinds Audio Modes

EDID SET			
1	2	3	Function
0	0	0	Copy HDMI Output EDID
0	0	1	Upgrading Mode
0	1	0	4K 60Hz 5.1CH 2D
1	0	0	4K 60Hz 7.1CH 2D
1	1	0	1080P 60Hz 2.0CH 2D

**TV Mode**

**2.0CH**

**5.1CH**

**7.1CH**

Figure 5.5: Example of 1x2 eARC Splitter Model setup with a soundbar and speaker.

### 5.3. Audio Extraction (Optical, Coaxial, 3.5mm)

The device can extract audio from the HDMI source and output it via Optical, Coaxial, or 3.5mm stereo ports.

- Connect your HDMI source to either **HDMI IN1** or **HDMI IN2**.
- Connect your audio receiver/amplifier to the desired audio output port: **Optical**, **Coaxial**, or **R/L (3.5mm)**.
- Ensure your audio receiver is set to the correct input source.



Figure 5.6: Broad Compatibility and Connection Examples.

## 6. Operating Instructions

### 6.1. Switching HDMI Inputs (2x1 Switch Mode)

When operating in 2x1 HDMI Switch mode:

- **Front Panel Button:** Press the "Select" button on the front panel to cycle between HDMI IN1 and HDMI IN2.



- **Remote Control:** Use the corresponding input selection buttons on the IR remote control to switch between HDMI IN1 and HDMI IN2.

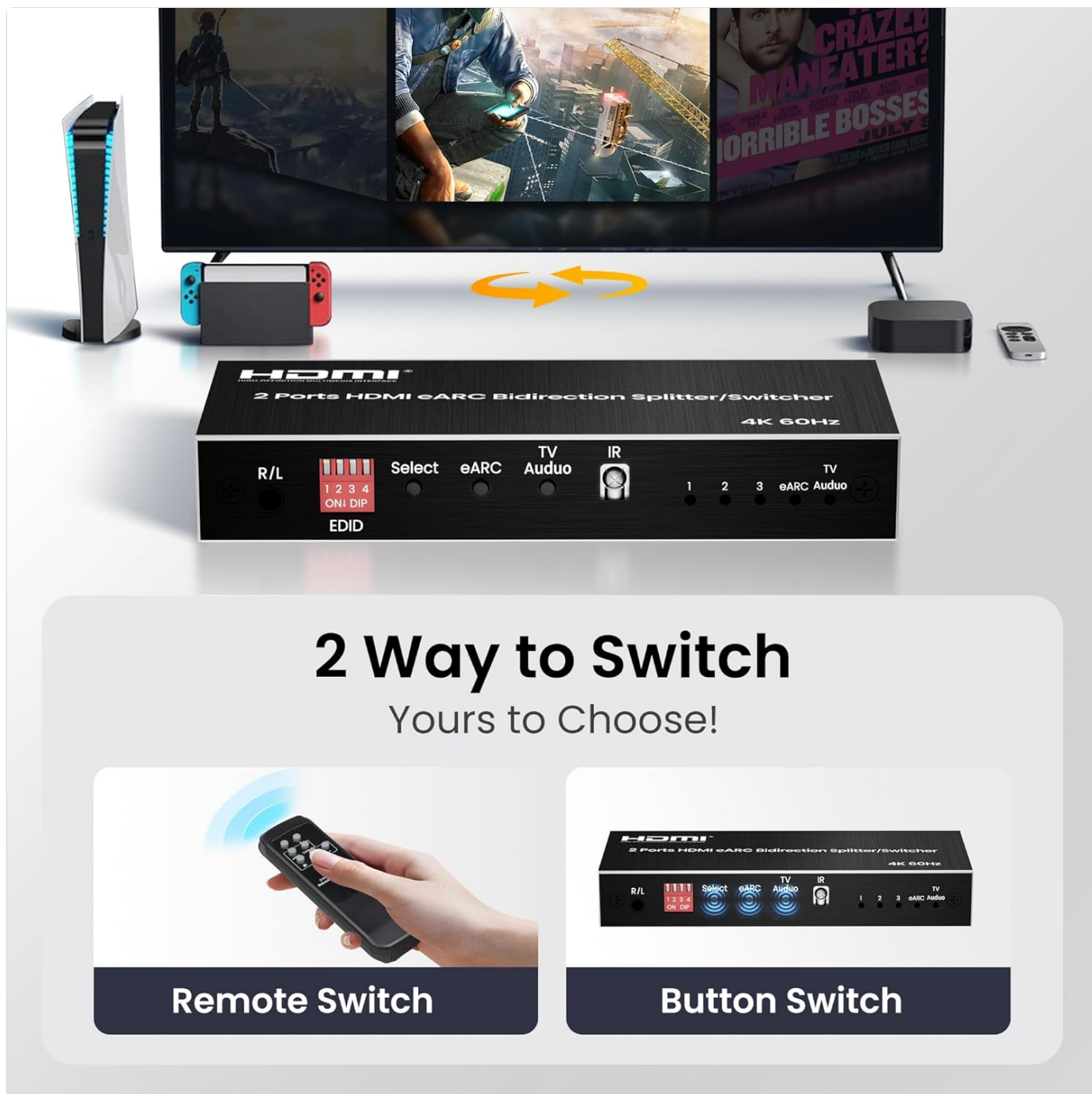


Figure 6.1: Two Ways to Switch Inputs: Remote and Button.

## 6.2. EDID Settings and Mode Selection

The EDID DIP switch allows you to configure the device's behavior, particularly for eARC audio and overall operation mode. The DIP switches are labeled 1, 2, 3, and 4. "Up" typically means '1' or 'ON', and "Down" means '0' or 'OFF'.



Figure 6.2: EDID DIP Switch Configuration for eARC Modes.

- **4th DIP Switch "Up" (1): eARC Switch Mode (1-in-1-out)**
  - When the 4th dial is up, it functions as an eARC switcher, allowing only one of the two eARC output ports (eARC OUT1 or eARC OUT2) to output sound. You can switch between them freely.
- **4th DIP Switch "Down" (0): eARC Splitter Mode (1-in-2-out)**
  - When the 4th dial is down, it works as an eARC splitter, transmitting TV sound to both eARC OUT1 and eARC OUT2 simultaneously for synchronized high-quality audio.

The first three DIP switches (1, 2, 3) are used to set specific audio EDID modes. Here are common configurations:

DIP 1	DIP 2	DIP 3	Function
0 (Down)	0 (Down)	0 (Down)	Copy HDMI Output EDID
0 (Down)	0 (Down)	1 (Up)	Upgrading Mode

0 (Down)	1 (Up)	0 (Down)	4K 60Hz 5.1CH 2D
1 (Up)	0 (Down)	0 (Down)	4K 60Hz 7.1CH 2D
1 (Up)	1 (Up)	0 (Down)	1080p 60Hz 2.0CH 2D

Table 6.1: EDID Settings for Audio Modes. ("0" = switch down, "1" = switch up)

#### Important Note for ARC/eARC:

- When using the ARC feature, both the TV and audio device need to support ARC.
- When using the eARC function, the soundbar should be connected to either the eARC Out1 or eARC Out2 port.
- If the audio format is 7.1CH, the coaxial and optical ports may not output sound.

## 7. Specifications

Feature	Description
<b>Model</b>	B0DWMCDJT
<b>Video Resolution</b>	Up to 4K@60Hz, compatible with 4K@30Hz, 1080p, 720p
<b>Color Depth</b>	36-bit
<b>HDCP Compliance</b>	HDCP 2.2
<b>HDMI Audio Formats</b>	ARC/eARC 7.1CH, Dolby True HD, DTS-HD
<b>Digital Audio Outputs</b>	Optical Toslink SPDIF 5.1CH, Coaxial
<b>Analog Audio Output</b>	3.5mm Stereo (R/L)
<b>Power Supply</b>	DC 5V (USB powered, adapter not included)
<b>Dimensions</b>	7.36 x 6.02 x 2.44 inches
<b>Weight</b>	12 ounces
<b>Color</b>	Black

## 8. Troubleshooting

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

- **No Video Output:**
  - Ensure all HDMI cables are securely connected and are high-quality, certified 4K@60Hz cables.
  - Verify the power adapter is connected and providing sufficient power (5V).
  - Check if the correct input is selected on the switch (using the "Select" button or remote).
  - Try connecting the source directly to the display to rule out cable or source issues.
  - Adjust the EDID settings using the DIP switches. Sometimes, forcing a specific resolution or audio format can resolve compatibility issues.
- **No Audio Output:**
  - Ensure your audio device (soundbar, amplifier) is correctly connected to the appropriate output port (eARC

OUT1/OUT2, Optical, Coaxial, 3.5mm).

- Verify the audio input on your audio device is correctly selected.
- For ARC/eARC, ensure both your TV and audio device support ARC/eARC and that the feature is enabled in your TV's settings.
- Check the EDID DIP switch settings. If 7.1CH audio is selected, optical and coaxial outputs may not function. Try a 5.1CH or 2.0CH setting.
- Ensure the "eARC Audio" button on the unit is enabled.
- If using eARC Splitter mode, ensure the 4th DIP switch is "Down" (0). If using eARC Switch mode, ensure it's "Up" (1) and you've selected the correct eARC output.

- **Intermittent Signal / Flickering:**

- Use shorter, high-quality HDMI cables, especially for 4K@60Hz signals.
- Ensure the power supply is stable and sufficient.
- Check for interference from other electronic devices.

- **Remote Control Not Working:**

- Ensure there are no obstructions between the remote and the IR receiver on the unit.
- Check and replace the battery in the remote control if necessary.
- Point the remote directly at the IR receiver.

## 9. Maintenance

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To ensure the longevity and optimal performance of your device:

- Keep the device in a cool, dry place, away from direct sunlight, heat sources, and moisture.
- Do not expose the device to water or excessive humidity.
- Clean the unit with a soft, dry cloth. Do not use liquid or aerosol cleaners.
- Avoid dropping or subjecting the device to strong impacts.
- Disconnect power when not in use for extended periods.

## 10. Warranty and Support

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For warranty information and technical support, please refer to the documentation included with your purchase or visit the official [avedio links](#) website. Contact details for customer service are typically available on the manufacturer's product page or support section.

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