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MODEL: 8K HDMI 2.1 BI-DIRECTIONAL SWITCH

1. Introduction and Overview

The avedio links 8K HDMI 2.1 Switch is a versatile bi-directional device designed to manage your HDMI connections efficiently. It allows you to connect two HDMI source devices to one display (2 In 1 Out mode) or one HDMI source device to two displays (1 In 2 Out mode, displaying one screen at a time). This switch supports advanced video resolutions including 8K@60Hz, 4K@144Hz/120Hz/60Hz, and 1080P@240Hz, ensuring a high-quality visual experience. It is ideal for gamers, home theater enthusiasts, and professionals requiring flexible HDMI routing.



Image: The avedio links 8K HDMI 2.1 Switch unit shown alongside its compact remote control.

2. Product Features

- **Bi-Directional Functionality:** Operates as a 2 In 1 Out switcher or a 1 In 2 Out splitter (one display at a time).
- **8K Ultra HD Support:** Supports 8K@60Hz, 4K@144Hz/120Hz/60Hz, and 1080P@240Hz, with backward compatibility.
- **Advanced Video Technologies:** Features VRR (Variable Refresh Rate), Dynamic HDR, HDCP 2.3, and Dolby Vision for immersive viewing.
- **High Bandwidth:** Supports 48Gbps signal transmission for seamless performance.
- **Premium Build:** Constructed with durable aluminum alloy for stable performance and heat dissipation.
- **Dual Control Modes:** Switch inputs via the physical button on the unit or the included infrared remote control.
- **Plug and Play:** No software or drivers required for operation.
- **Optional External Power:** Includes a USB-C cable for power in cases where the HDMI port cannot provide sufficient power.



Image: Visual representation of the 8K capabilities and high bandwidth of the HDMI 2.1 switch.

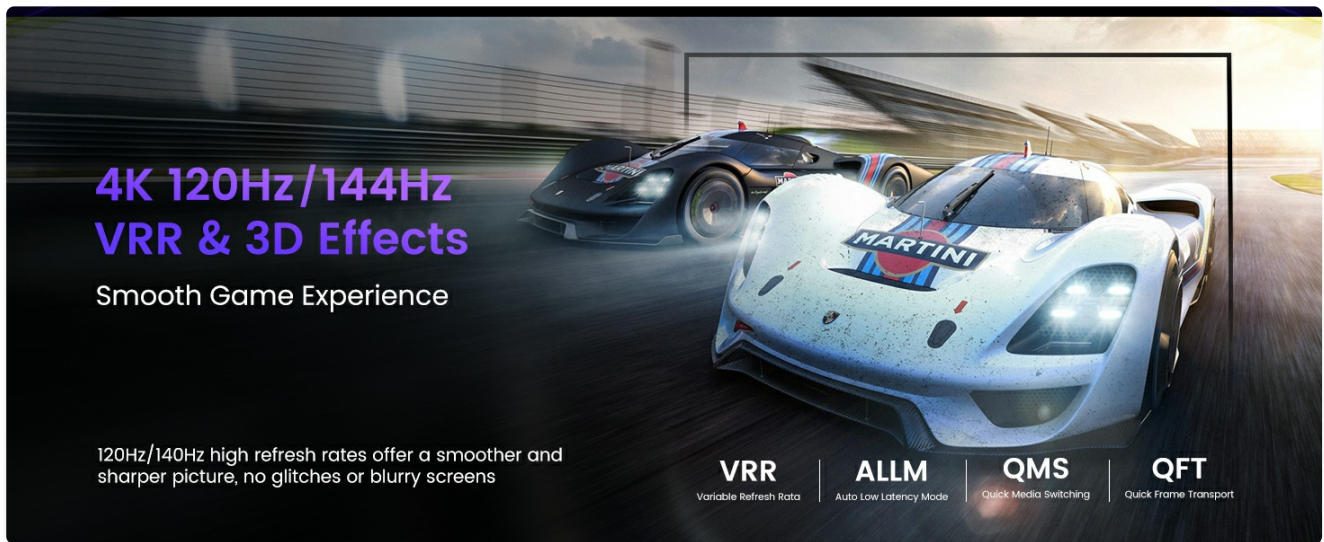


Image: Explanation of Variable Refresh Rate (VRR) support for smooth gaming.

3. Package Contents

Please verify that all items are present in your package:

- avedio links 8K HDMI 2.1 Switch Unit
- Infrared Remote Control
- USB-C Power Cable

Note: HDMI cables are not included and must be purchased separately. For optimal performance with 8K@60Hz or 4K@120Hz, a high-quality HDMI 2.1 cable is recommended.

4. Product Diagram and Ports

The avedio links HDMI switch features clearly labeled ports for easy connection. The unit includes two input ports (INPUT 1, INPUT 2) and one output port (OUTPUT), along with a DC 5V USB-C power input.

Two Control Modes

Infrared remote control: You need to point the remote control at the product to switch.



Image: A detailed view of the HDMI switch's input, output, and power ports.

5. Setup and Installation

The avedio links HDMI switch offers flexible setup options:

5.1. 2 In 1 Out Mode (Connecting two sources to one display)

1. Connect your first HDMI source device (e.g., PS5, Xbox) to the **INPUT 1** port on the switch using an HDMI cable.

2. Connect your second HDMI source device (e.g., Nintendo Switch, Fire Stick) to the **INPUT 2** port on the switch using an HDMI cable.
3. Connect the **OUTPUT** port of the switch to your display (e.g., TV, monitor, projector) using an HDMI cable.
4. If your HDMI source devices do not provide sufficient power, connect the included USB-C power cable from the switch's DC 5V port to a USB power source (e.g., USB wall adapter, TV USB port).



Image: Connection diagram illustrating the 2 In 1 Out setup for the HDMI switch.

5.2. 1 In 2 Out Mode (Connecting one source to two displays)

Note: In this mode, only one display can be active and show content at a time.

1. Connect your HDMI source device (e.g., TV box, Blu-ray DVD player) to the **INPUT** port on the switch using an HDMI cable.
2. Connect the **OUTPUT 1** port of the switch to your first display using an HDMI cable.
3. Connect the **OUTPUT 2** port of the switch to your second display using an HDMI cable.
4. If your HDMI source device does not provide sufficient power, connect the included USB-C power cable from the switch's DC 5V port to a USB power source.



Image: Connection diagram illustrating the 1 In 2 Out setup for the HDMI switch.

6. Operating Instructions

Once connected, the avedio links HDMI switch is plug-and-play. You can switch between connected devices using two methods:

6.1. Manual Switching

Press the button on the front of the HDMI switch unit to cycle through the connected input/output devices.

6.2. Remote Control Switching

Point the included infrared remote control at the front of the HDMI switch unit and press the desired input/output button to switch. Ensure there are no obstructions between the remote and the switch for optimal performance.

Enjoy **8K** Visual Feast In One Step



DOLBY



HDR



VRR



3D



HDMI 2.1



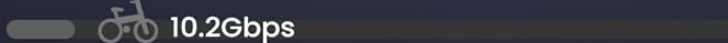
48
Gbps

HDMI 2.0



18Gbps

HDMI 1.4



10.2Gbps

Image: Illustration of both remote control and manual button switching methods.

7. Troubleshooting

If you encounter issues with your avedio links HDMI switch, please refer to the following common solutions:

- **Doesn't Work / Doesn't Switch:**

- Ensure the device is receiving sufficient power. Connect the included USB-C cable to a 5V 1A power source if

needed.

- Use a high-quality HDMI 2.1 cable with a total length not exceeding 3.28ft (1 meter) for 8K@60Hz or 4K@120Hz.
- Try adjusting the resolution of your source device to 1080P to test functionality.

- **Only One of the HDMI Ports Works:**

- In 1 In 2 Out (splitter) mode, only one screen can display at a time. This is normal operation.
- Ensure all cables are securely connected.

- **Not Working / No Output:**

- Check if the signal indicator light on the switch is illuminated. If not, ensure power is supplied and all source devices are active.
- Try connecting more than two input source devices and keep them all on to ensure sufficient signal detection.

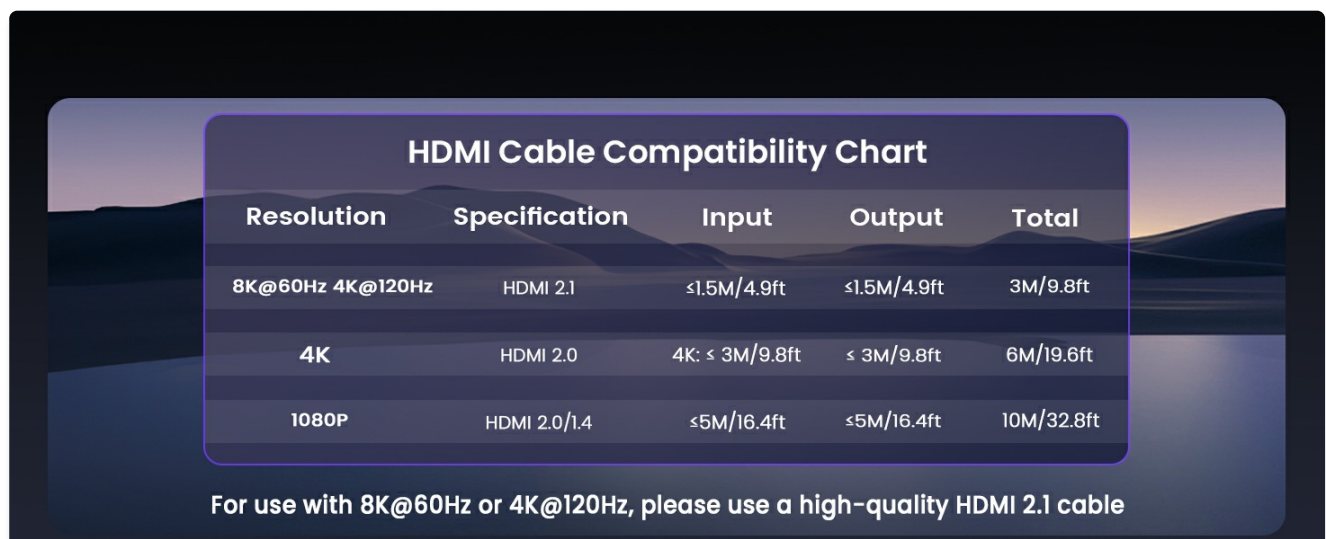
- **Black Screen, Flickering, or Signal Drop:**

- Verify that the HDMI cable you are using supports 8K resolution and is a standard HDMI 2.1 version.
- The total length of the HDMI 2.1 cable (input + output) should not exceed 3.28ft (1 meter) for 8K@60Hz or 4K@120Hz.

- **Cannot Display 4K@120Hz or 8K@60Hz:**

- Check that your input device, output device, and HDMI cable all support 4K@120Hz or 8K@60Hz.
- Ensure you are using a standard HDMI 2.1 cable and that the total cable length (input + output) does not exceed 3.28ft (1 meter).

Note: When connecting input and output devices to your display, our product may have a 3-second delay, which is normal.

The image shows a digital display of an HDMI Cable Compatibility Chart. The chart is presented as a table with five columns: Resolution, Specification, Input, Output, and Total. It lists three rows of data for different resolutions: 8K@60Hz and 4K@120Hz, 4K, and 1080P. Below the table, a note states: 'For use with 8K@60Hz or 4K@120Hz, please use a high-quality HDMI 2.1 cable'. The background of the display shows a landscape with mountains and a sunset.

Resolution	Specification	Input	Output	Total
8K@60Hz 4K@120Hz	HDMI 2.1	≤1.5M/4.9ft	≤1.5M/4.9ft	3M/9.8ft
4K	HDMI 2.0	4K: ≤ 3M/9.8ft	≤ 3M/9.8ft	6M/19.6ft
1080P	HDMI 2.0/1.4	≤5M/16.4ft	≤5M/16.4ft	10M/32.8ft

For use with 8K@60Hz or 4K@120Hz, please use a high-quality HDMI 2.1 cable

Image: A visual guide to common troubleshooting scenarios and solutions.



Image: Chart detailing recommended HDMI cable lengths and specifications for various resolutions.

8. Specifications

Feature	Specification
Model	8K HDMI 2.1 Bi-Directional Switch
Brand	avedio links
Connector Type	HDMI
Color	Black
Supported Resolutions	8K@60Hz, 4K@144Hz/120Hz/60Hz, 1080P@240Hz
Bandwidth	48Gbps
Compatibility	PS5, PS4 Pro, Xbox Series X/S, Nintendo Switch, Apple TV, Fire Stick, Roku, DVD players, TVs, projectors, monitors
Power Input	DC 5V (via USB-C)
Item Weight	3.52 ounces
Package Dimensions	4.72 x 4.25 x 0.75 inches
Country of Origin	China

9. Safety Information

- Do not expose the device to moisture, extreme temperatures, or direct sunlight.

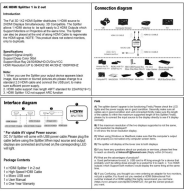




- Avoid dropping or subjecting the device to strong impacts.
- Do not attempt to disassemble or repair the device yourself. Refer all servicing to qualified personnel.
- Use only the provided USB-C power cable or a certified 5V 1A power adapter.
- Keep the device away from sources of strong electromagnetic interference.

10. Warranty and Support

For warranty information, technical support, or any product-related inquiries, please contact avedio links customer service directly. Refer to the product packaging or the official avedio links website for contact details.

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Related Documents - 8K HDMI 2.1 Switch

	<p>4K HDMI Splitter 1 in 2 Out: Duplicate Displays with High Resolution</p> <p>Learn about the 4K HDMI Splitter 1 in 2 Out, its specifications, connection diagram, interface, and FAQs. Easily duplicate your HDMI source to two displays simultaneously with support for 4K resolution.</p>
	<p>HDMI 2.0 Matrix 4x4 User Manual - 4K@60Hz, HDR10, Dolby Vision</p> <p>User manual for the avedio links HDMI 2.0 Matrix 4x4, detailing setup, specifications, features, and troubleshooting for 4K@60Hz, HDR10, and Dolby Vision content distribution.</p>
	<p>Troubleshooting Guide for UGREEN HDMI Switch</p> <p>A comprehensive troubleshooting guide for the UGREEN HDMI Switch, addressing common issues such as remote not working, no signal, black screen, and flickering monitor.</p>
	<p>UGREEN 3-in-1-Out HDMI Switch User Manual</p> <p>User manual for the UGREEN 3-in-1-Out HDMI Switch, detailing product features, connection instructions, and operation for seamless audio-visual switching.</p>
	<p>HDMI 2.0 Switcher 3-in-1-Out: Features, Specifications, and Troubleshooting Guide</p> <p>This document provides a comprehensive overview of the HDMI 2.0 switcher, including its introduction, key features, detailed specifications, connection diagram, and troubleshooting guide for optimal performance.</p>



[HDMI/MHL 5x1 Switch User Manual - Features, Specs, and Troubleshooting](#)

Comprehensive user manual for the HDMI/MHL 5x1 Switch (Model Z-V5012-V2). Details include product features, technical specifications (HDMI 2.0, HDCP 2.2, 4K@60Hz), connection diagram, remote operation, safety guidelines, and troubleshooting tips for optimal A/V setup.