UGREEN B09BQTNK1

UGREEN HDMI Switch 4K@60Hz User Manual

Model: B09BQTNK1

1. Introduction

The UGREEN Bi-Directional HDMI Switch allows you to connect multiple HDMI devices to a single display or a single HDMI device to multiple displays. This versatile switch supports high-resolution video up to 4K@60Hz, ensuring a clear and vibrant visual experience. It is designed for ease of use with a simple one-button operation and requires no external power source for most setups.

2. Product Features

- **Bi-Directional Functionality:** Operates as a 2-in-1-out HDMI switch (two sources to one display) or a 1-in-2-out HDMI splitter (one source to two displays, with only one display active at a time).
- **High Resolution Support:** Supports 4K@60Hz, 4K@30Hz, and 1080P@60Hz resolutions.
- **Advanced Video Technologies:** Compatible with 3D, HDR, and HDCP 2.2 for enhanced picture quality.
- **High Bandwidth:** Provides 18Gbps video transmission for stable and fast signal delivery.
- **Audio Support:** Supports uncompressed digital 7.1, 5.1, or 2 channels (Dolby Atmos/DTS compliant).
- **Durable Construction:** Made from high-quality metal material for good heat dissipation and long service life.
- **No External Power Needed:** Plug and play design, typically powered directly from the HDMI source.
- **One-Button Switching:** Easily switch between connected devices with a single press.
- **Compact Design:** Small footprint for minimal desk or entertainment center space.

3. Package Contents

- UGREEN HDMI Switch (Model B09BQTNK1)
- UGREEN 4K HDMI Cable (6.6FT, 18Gbps)

4. Product Diagram

Familiarize yourself with the ports and indicators on your UGREEN HDMI Switch.



Image: The UGREEN HDMI Switch in a 2-in-1-out configuration, connecting a PlayStation 5 and a Roku streaming player to a single television. The image highlights the input and output connections.



Image: A close-up view of the UGREEN HDMI Switch, illustrating that no external power adapter is required for operation.



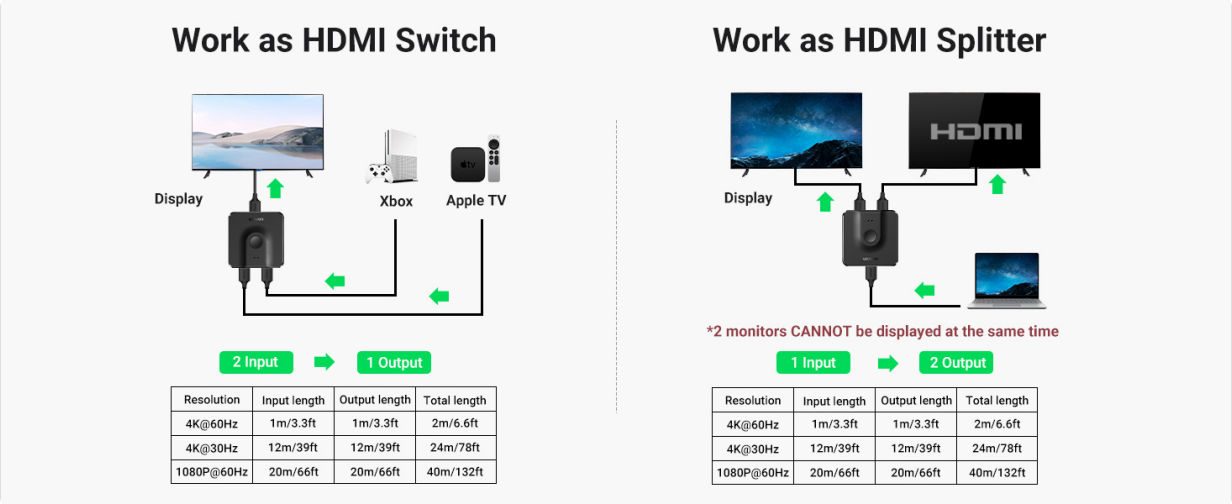
Image: A detailed view of the UGREEN HDMI Switch, highlighting the LED indicators that show which HDMI port is currently active.

- **HDMI Input Ports (2):** Connect your source devices (e.g., gaming console, Blu-ray player, laptop).
- **HDMI Output Port (1):** Connect to your display device (e.g., TV, monitor, projector).
- **Switch Button:** Press to toggle between input sources or output displays.
- **LED Indicators:** Blue lights indicate the currently active input/output port.

5. Setup Instructions

Follow these steps to set up your UGREEN HDMI Switch:

1. **Identify Connection Mode:**
    - **2-in-1-out (Switch Mode):** Connect two HDMI source devices (e.g., PS5, Roku) to the two HDMI input ports on the switch. Connect one HDMI display (e.g., TV) to the HDMI output port on the switch.
    - **1-in-2-out (Splitter Mode):** Connect one HDMI source device (e.g., laptop) to the HDMI input port on the switch. Connect two HDMI displays (e.g., monitor, projector) to the two HDMI output ports on the switch. *Note: Only one display can be active at a time in splitter mode.*
2. **Connect HDMI Cables:** Use high-quality HDMI 2.0 cables. For optimal 4K@60Hz performance, ensure the total length of the HDMI cable from source to display does not exceed 2 meters (6.6 feet).
3. **Power On Devices:** Ensure all connected source devices and display devices are powered on. The HDMI switch typically draws power directly from the HDMI source, so no separate power adapter is usually needed.



Resolution	Input length	Output length	Total length
4K@60Hz	1m/3.3ft	1m/3.3ft	2m/6.6ft
4K@30Hz	12m/39ft	12m/39ft	24m/78ft
1080P@60Hz	20m/66ft	20m/66ft	40m/132ft

Resolution	Input length	Output length	Total length
4K@60Hz	1m/3.3ft	1m/3.3ft	2m/6.6ft
4K@30Hz	12m/39ft	12m/39ft	24m/78ft
1080P@60Hz	20m/66ft	20m/66ft	40m/132ft

Image: A diagram illustrating the two operational modes of the HDMI switch (2 inputs to 1 output, or 1 input to 2 outputs). A table provides recommended HDMI cable lengths for various resolutions (4K@60Hz, 4K@30Hz, 1080P@60Hz).

6. Operating Instructions

Operating the UGREEN HDMI Switch is straightforward:

1. **Switching Sources (2-in-1-out mode):** Press the button on the top of the HDMI switch to cycle through the connected HDMI input sources. The blue LED indicator will illuminate next to the active input port.
2. **Switching Displays (1-in-2-out mode):** Press the button on the top of the HDMI switch to toggle between the two connected HDMI display devices. The blue LED indicator will illuminate next to the active output port. Remember, only one display can show content at a time in this mode.



Image: A close-up of the UGREEN HDMI Switch, highlighting the central button used for switching between connected devices.

7. Maintenance

To ensure the longevity and optimal performance of your HDMI switch:

- Keep the device in a dry environment, away from moisture and extreme temperatures.
- Clean the device with a soft, dry cloth. Avoid using liquid cleaners or solvents.
- Do not attempt to disassemble or repair the device yourself. Refer to qualified service personnel if needed.
- Avoid placing heavy objects on top of the switch.

8. Troubleshooting

If you encounter issues with your UGREEN HDMI Switch, refer to the following common solutions:

Problem	Possible Cause	Solution
No signal or flickering screen	Loose cable connections, incompatible resolution, excessive cable length, insufficient power from source.	Ensure all HDMI cables are securely connected. Verify that your display and source devices support the selected resolution. Use standard HDMI 2.0 cables, and for 4K@60Hz, keep total cable length under 2 meters (6.6 feet). Try connecting a different source or display to isolate the issue.
No audio	Audio settings on source/display, incompatible audio format.	Check audio output settings on your source device and input settings on your display. Ensure the audio format is supported by all connected devices.

Problem	Possible Cause	Solution
Switch button unresponsive	Temporary software glitch, power issue.	Disconnect and reconnect all HDMI cables to reset the switch. Ensure the source device is providing sufficient power through the HDMI cable.
Only one display works in 1-in-2-out mode	This is expected behavior.	The UGREEN HDMI Switch functions as a splitter in 1-in-2-out mode, meaning it can only output to one display at a time. Use the switch button to select the desired active display.

9. Specifications

Feature	Detail
Model	B09BQTNK1
Color	Black
Connector Type	HDMI
Number of Ports	2 (Bi-directional)
Max Resolution	4K@60Hz
Backward Compatibility	4K@30Hz, 1080P@60Hz
Bandwidth	18Gbps
Supported Technologies	3D, HDR, HDCP 2.2, Dolby Atmos/DTS compliant audio
Compatible Devices	DVD Player, Gaming Console (PS4/PS5, Xbox), Laptop, Monitor, Personal Computer, Television, TV Stick/TV Box, Projector, VR
Power Supply	No external power needed (powered via HDMI)

10. Warranty and Support

UGREEN products come with a standard warranty. For specific warranty details, technical support, or customer service inquiries, please refer to the warranty card included with your product or visit the official UGREEN website. You may also contact UGREEN customer support directly through their provided contact channels.

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