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UGREEN B0CRYF4DTH

UGREEN 8K@60Hz HDMI KVM Switch User Manual

Model: B0CRYF4DTH

1. Introduction

This manual provides detailed instructions for the UGREEN 8K@60Hz HDMI KVM Switch. This device allows two computers to share a single monitor and up to four USB 3.0 peripheral devices, such as a keyboard, mouse, hard drives, and printers. It is designed to streamline your workspace and enhance productivity by centralizing control of multiple systems.

The KVM switch supports high-resolution video output up to 8K@60Hz, ensuring a clear and smooth visual experience. It is backward compatible with various resolutions, including 4K@60Hz, 4K@30Hz, 2560x1440@120Hz, and 1920x1080@240Hz. The integrated USB 3.0 ports offer data transfer speeds of up to 5Gbps.



Image 1.1: UGREEN 8K@60Hz HDMI KVM Switch with its accompanying HDMI and USB-C to A cables.

2. Package Contents

Please verify that all items are present in your package:

- 1 x UGREEN 8K@60Hz HDMI KVM Switch
- 2 x USB-A to USB-C Cables (for data transmission from computers to KVM)
- 2 x HDMI 2.1 Cables (for video input from computers to KVM)
- 1 x Desktop Controller (for switching between computers)
- 1 x Power Adapter (for KVM power supply)



Image 2.1: Illustration of the KVM switch and its included accessories.

3. Setup Instructions

Follow these steps to connect your UGREEN HDMI KVM Switch:

1. **Connect the Monitor:** Connect your monitor to the HDMI OUT port on the KVM switch using an HDMI cable.
2. **Connect Peripherals:** Plug your keyboard, mouse, and other USB 3.0 devices into the USB 3.0 ports on the front of the KVM switch. If you have a USB-C peripheral, use the dedicated USB-C port.
3. **Connect Computers (PC1 & PC2):**
    - For each computer (PC1 and PC2), connect one end of an HDMI cable to the computer's HDMI output and the other end to an HDMI IN port (labeled '1 IN' or '2 IN') on the KVM switch.
    - For each computer, connect one end of a USB-A to USB-C cable to the computer's USB-A port and the other end to the corresponding USB-C & HDMI input port on the KVM switch (next to the HDMI IN port). These USB-C connections are crucial for data transmission from your computers to the KVM switch, enabling the shared USB peripherals to function.
4. **Power Connection:** Connect the provided power adapter to the KVM switch's power input port. Ensure the KVM switch receives adequate power, especially when connecting high-power USB devices.
5. **Desktop Controller (Optional):** Connect the desktop controller to the 'CONTROL' port on the KVM switch for convenient remote switching.

Important Notes:

- You **must** connect both the HDMI cable and the USB-A to USB-C cable from each computer to the KVM switch for proper functionality of both video and shared USB devices.
- This KVM switch supports **one monitor only**. It does not support dual monitors.
- This is an **HDMI KVM switch**. It is not compatible with DisplayPort or USB-C KVM setups unless appropriate adapters are used.
- When connecting high-power USB devices (e.g., external hard drives), ensure the KVM switch is connected to its power source for stable operation.

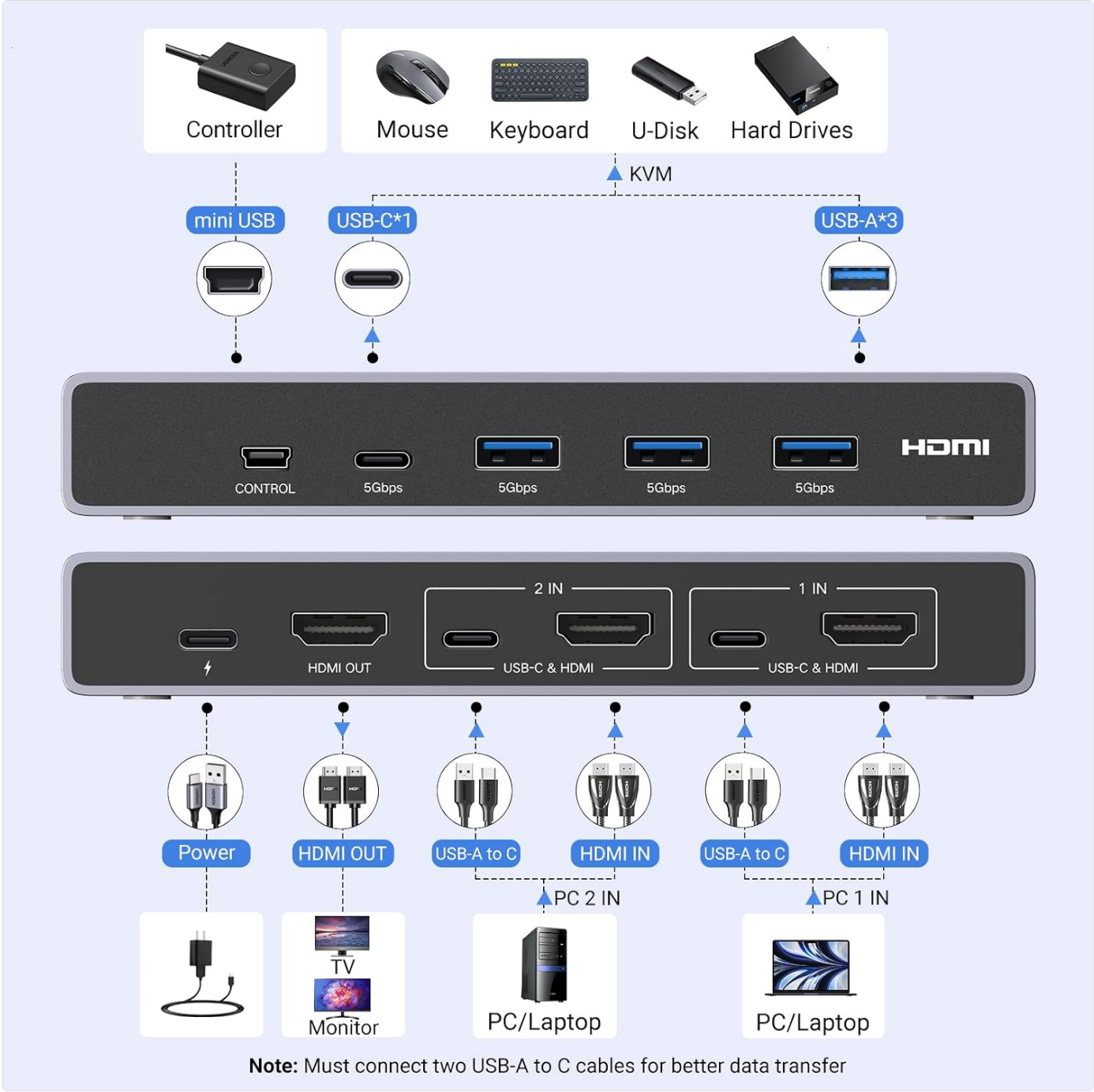


Image 3.1: Port layout and connection guide for the KVM switch.



Image 3.2: Detailed view of the KVM switch's input and power ports.

3.1 Connecting with a USB-C Laptop

If your laptop primarily uses USB-C for video output and data, consider the following:

- **Single USB-C Port:** If your laptop only has a single USB-C port and no other HDMI or USB-A ports, this HDMI KVM switch may not be directly compatible without additional adapters.
- **Two USB-C Ports:** If your laptop has two USB-C ports, you may need an 8K USB-C to HDMI cable or adapter, and a USB-C to USB-C cable to connect to the KVM switch.
- **USB-C and USB-A Ports:** If your laptop features both a USB-C and a USB-A port, you can use an 8K USB-C to HDMI cable or adapter for video, and the included USB-A to USB-C cable for data.

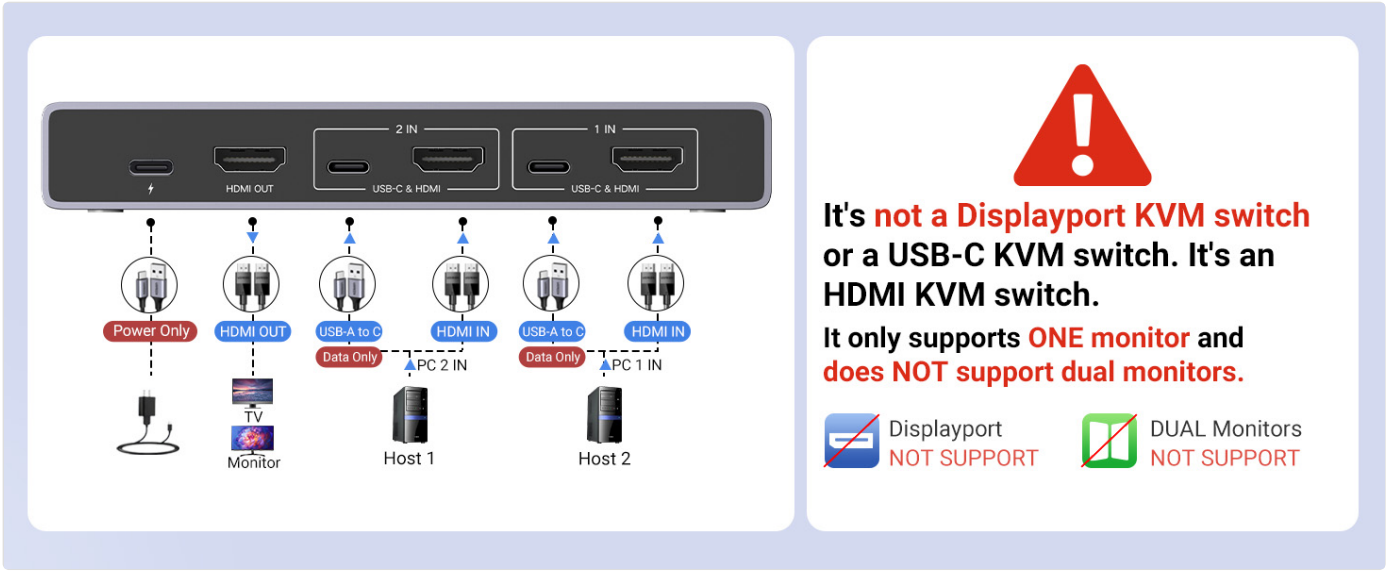


Image 3.3: Connection options for laptops with USB-C ports.

4. Operating Instructions

Once the KVM switch is set up, operating it is straightforward:

1. **Power On:** Ensure both connected computers are powered on.
2. **Switching Computers:** To switch between PC1 and PC2, press the button on the top of the KVM switch or use the external desktop controller. An LED indicator will show which computer is currently active.
3. **Peripheral Sharing:** The connected USB peripherals (keyboard, mouse, etc.) will automatically switch to the active computer.



Image 4.1: Example of a KVM switch in operation, sharing a monitor and peripherals between a laptop and a desktop.



Image 4.2: Visual comparison demonstrating space-saving benefits with a KVM switch.

5. Maintenance

To ensure the longevity and optimal performance of your UGREEN HDMI KVM Switch, follow these maintenance guidelines:

- **Cleaning:** Use a soft, dry cloth to clean the exterior of the device. Avoid using liquid cleaners or abrasive materials.
- **Ventilation:** Ensure the KVM switch is placed in a well-ventilated area to prevent overheating. Do not block any ventilation openings.
- **Cable Management:** Keep cables organized and free from kinks or excessive bending to prevent damage.
- **Storage:** When not in use for extended periods, store the device in a cool, dry place away from direct sunlight and extreme temperatures.

6. Troubleshooting

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

- **No Video Output:**
  - Ensure all HDMI cables are securely connected to both the computers and the KVM switch, and from the KVM switch to the monitor.
  - Verify that the correct input source is selected on your monitor.
  - Check if the KVM switch is powered on and the active computer's indicator light is illuminated.
  - Test with different HDMI cables if possible, especially if experiencing issues with 8K resolution.
- **USB Peripherals Not Working:**
  - Confirm that the USB-A to USB-C cables are correctly connected from both computers to the KVM switch. These cables are essential for USB data transmission.
  - Ensure the KVM switch is connected to its power adapter, especially for high-power USB devices.
  - Try connecting the USB peripheral directly to the computer to rule out device issues.
  - Restart the KVM switch and the connected computers.
- **Intermittent Connection/Flickering Screen:**
  - Check cable lengths. For 8K@60Hz, total HDMI cable length (input + output) should ideally not exceed 13 feet (4 meters). For 4K@60Hz, total length should not exceed 20 feet (6 meters).
  - Ensure all cables are HDMI 2.1 certified for 8K resolutions.
  - Reduce the display resolution or refresh rate temporarily to see if the issue persists.
  - Verify that the power adapter is providing stable power.
- **Switching Delay:** A brief delay (1-3 seconds) during switching is normal as the KVM re-establishes connections. If the delay is excessive, check cable connections and power supply.



Image 6.1: Clarification on KVM type and monitor support.

7. Specifications

Feature	Detail
Brand	UGREEN
Model	B0CRYF4DTH
Hardware Interface	HDMI
Max Resolution	8K@60Hz
Backward Compatibility	4K@240Hz, 4K@144Hz, 4K@120Hz, 4K@100Hz, 4K@60Hz, 4K@30Hz, 2560x1440@120Hz, 1920x1080@240Hz
HDMI Version Support	HDMI 2.1 / 2.0 / 1.4
HDCP Support	HDCP 2.3 / 1.4
USB Ports	3 x USB 3.0, 1 x USB-C
USB Data Transfer Speed	Up to 5Gbps (USB 3.0)
Compatible Devices	Keyboards, Mice, Hard Drives, U Disks, Printers, HDMI 2.1 Monitors and TVs
Special Features	VRR, ALLM, QMS, QFT, Dynamic HDR, eARC, Dolby Atmos, Dolby Vision, DTS-X

7.1 Recommended Cable Lengths

To maintain optimal performance, especially at higher resolutions, adhere to the following cable length guidelines:

Resolution	Input Cable Length (Max)	Output Cable Length (Max)	Total Cable Length (Max)

Resolution	Input Cable Length (Max)	Output Cable Length (Max)	Total Cable Length (Max)
8K@60Hz	6.5 FT (2m)	6.5 FT (2m)	13 FT (4m)
4K@240Hz	6.5 FT (2m)	6.5 FT (2m)	13 FT (4m)
4K@120Hz	10 FT (3m)	10 FT (3m)	20 FT (6m)
4K@60Hz	10 FT (3m)	10 FT (3m)	20 FT (6m)



Image 7.1: HDMI Cable Length Recommendations.

8. Warranty and Support

UGREEN products typically come with a standard manufacturer's warranty. For specific warranty details, registration, or technical support, please refer to the warranty card included with your product or visit the official UGREEN website. You may also contact UGREEN customer service directly for assistance.

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