VPFET 20240924345

VPFET 4-Port KVM Switch User Manual

Model: 20240924345

Introduction

This manual provides detailed instructions for the installation, operation, and maintenance of your VPFET 4-Port KVM Switch. This device allows up to four computers to share three monitors (one HDMI, two DisplayPort), a single keyboard, mouse, and other USB 3.0 peripherals. It supports high resolutions up to 8K@60Hz and 4K@144Hz, making it suitable for demanding visual applications and gaming.

Image: The VPFET KVM switch positioned on a desk, facilitating the connection of three monitors to multiple computer towers.

Package Contents

Verify that all items listed below are included in your package:

- 1 x VPFET 4-Port KVM Switch (8K HDMI & DP KVM Switch 4x3)
- 1 x IR Receiver
- 1 x IR Remote Control
- 4 x USB 3.0 A-A Cables
- 1 x DC12V Power Adapter
- 1 x User Manual (this document)

Image: An illustration detailing the contents of the product package, including the KVM switch unit and all accompanying cables and accessories.

Product Overview and Connections

Familiarize yourself with the KVM switch's ports and indicators before proceeding with the setup.

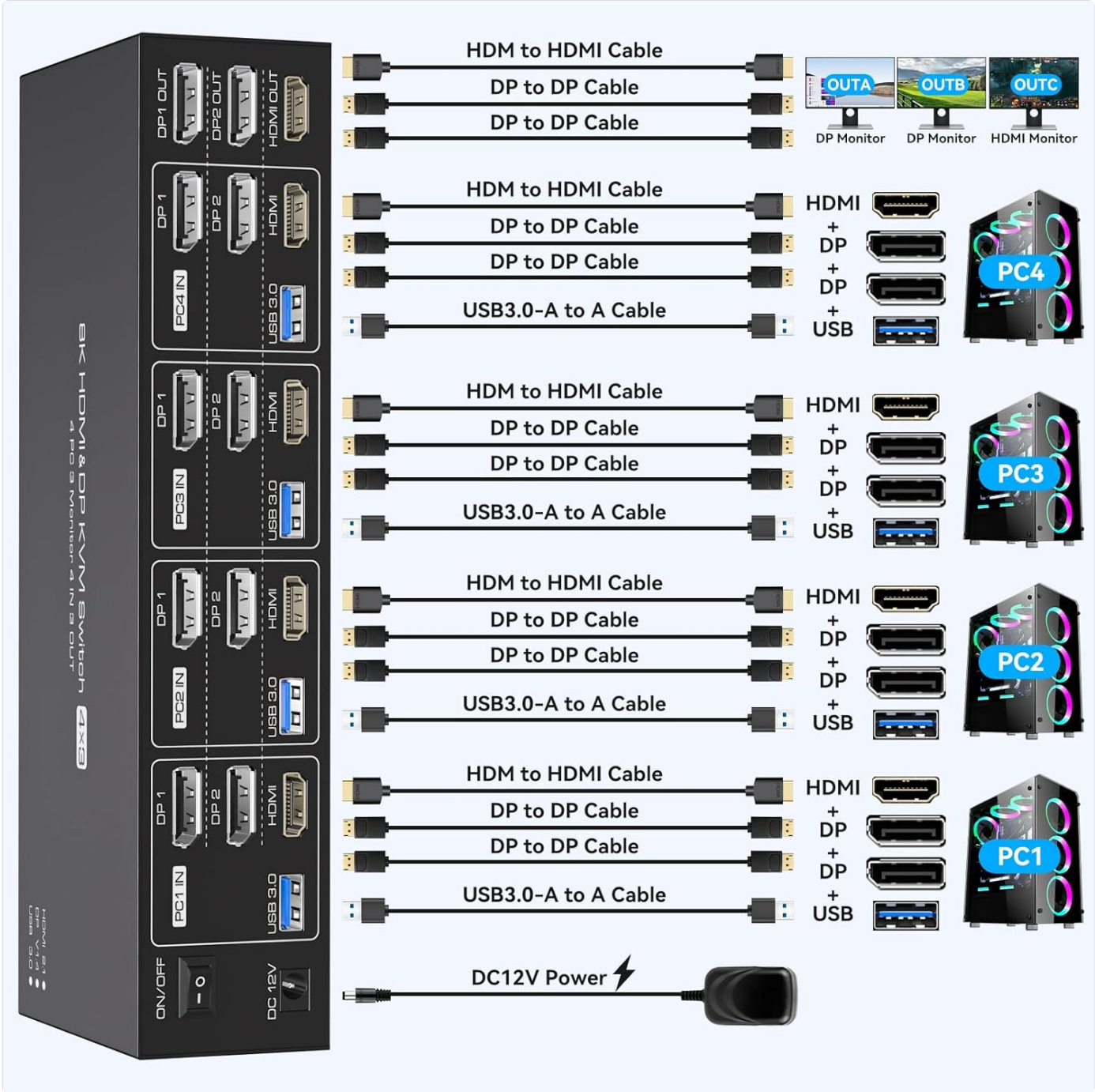

Image: A comprehensive connection diagram illustrating how to connect four PCs to the KVM switch using HDMI, DisplayPort, and USB 3.0 cables, and how the KVM switch outputs to three monitors.

Front Panel:

- **USB 3.0 Ports (1-4):** Connect your keyboard, mouse, USB drives, printers, or other USB 3.0 peripherals.
- **IR Port:** Connect the included IR receiver for remote control functionality.
- **PC Selection Buttons (PC1-PC4):** Manually switch between connected computers.
- **LED Indicators:** Show the currently active PC.

Rear Panel:

- **PC IN Ports (PC1-PC4):** Each PC input requires:
  - 1 x HDMI Input
  - 2 x DisplayPort Inputs (DP1, DP2)
  - 1 x USB 3.0 Input (Type-B)

- **DP OUT Ports (DP1 OUT, DP2 OUT):** Connect to your DisplayPort monitors.
- **HDMI OUT Port:** Connect to your HDMI monitor.
- **DC12V Power Input:** Connect the provided power adapter.
- **ON/OFF Switch:** Power control for the KVM switch.

Setup Instructions

Follow these steps to connect your computers and monitors to the KVM switch.

1. **Power Off All Devices:** Ensure all computers and monitors are powered off before making any connections.
2. **Connect Monitors to KVM Output:**
    - Connect your HDMI monitor to the **HDMI OUT** port on the KVM switch.
    - Connect your two DisplayPort monitors to the **DP1 OUT** and **DP2 OUT** ports on the KVM switch.
3. **Connect Computers to KVM Input:** For each computer (PC1, PC2, PC3, PC4):
    - Connect the computer's HDMI output to the corresponding **HDMI IN** port on the KVM switch.
    - Connect the computer's two DisplayPort outputs to the corresponding **DP1 IN** and **DP2 IN** ports on the KVM switch.
    - Connect the computer's USB 3.0 port to the corresponding **USB 3.0 IN (Type-B)** port on the KVM switch using the provided USB 3.0 A-A cable. *(**Important:** Each PC must be connected via a USB cable to the KVM for USB peripherals to function.)*

    Note: Your computer must support three monitors or multiple monitor outputs to fully utilize this KVM switch's triple monitor functionality.
4. **Connect USB Peripherals:** Connect your keyboard, mouse, and other USB 3.0 devices to the **USB 3.0 Ports (1-4)** on the front panel of the KVM switch. *(Bluetooth mice are not supported.)*
5. **Connect IR Receiver:** Plug the IR receiver into the **IR Port** on the front panel.
6. **Power On KVM Switch:** Connect the DC12V power adapter to the **DC12V Power Input** and plug it into a power outlet. Turn on the KVM switch using the **ON/OFF** switch.
7. **Power On Devices:** Power on your monitors and then your computers.

Operating Instructions

The VPFET KVM switch offers two methods for switching between connected computers:

Image: A visual guide demonstrating the two primary methods for switching between connected computers: via the remote control and directly using the KVM switch's front panel buttons.

1. Button Switching:

Press the corresponding **PC1, PC2, PC3, or PC4** button on the front panel of the KVM switch to select the desired computer. The LED indicator next to the button will illuminate to show the active PC.

2. Infrared (IR) Remote Control:

Use the included IR remote control to switch between computers. Point the remote at the IR receiver connected to the KVM switch and press the button corresponding to the desired PC (1, 2, 3, or 4). The LED indicator on the KVM switch will update to reflect the active PC.
Note: Hotkey switching is not supported by this KVM switch.

Resolution and Performance Notes

This KVM switch supports high resolutions and refresh rates. To achieve optimal performance, consider the following:

Image: A visual representation highlighting the KVM switch's capability to support high resolutions such as 8K@60Hz and 4K@144Hz, compatible with HDMI 2.1 and DisplayPort 1.4 standards.

- **Maximum Resolution:** Supports up to 8K@60Hz and 4K@144Hz. It is backward compatible with lower resolutions.
- **System Requirements:** For 8K resolution, ensure your source device (PC), monitors, and all connecting cables (HDMI and DisplayPort) support 8K.
- **Cable Quality:** The quality and length of your HDMI and DisplayPort cables significantly impact video transmission quality. Shorter, high-quality cables are recommended for optimal performance, especially at higher resolutions and refresh rates.

USB 3.0 Functionality

The KVM switch includes four USB 3.0 ports for sharing peripherals between your connected computers.

Image: A detailed view of the KVM switch's USB 3.0 ports, emphasizing their high-speed data transfer capabilities up to 5Gbps, significantly faster than USB 2.0.

- **Data Transfer Speed:** USB 3.0 ports support data transfer speeds up to 5 Gbit/s.
- **Peripheral Compatibility:** Connect keyboards, mice, USB flash drives, printers, and other USB devices.
- **Connection Requirement:** Ensure each computer is connected to the KVM switch via its dedicated USB 3.0 A-A cable. If a computer is not connected via USB, its USB peripherals will not be recognized by the KVM switch.
- **Bluetooth Devices:** Bluetooth mice and other Bluetooth peripherals are not supported directly through the KVM's USB ports.

Troubleshooting

If you encounter issues, refer to the following common troubleshooting steps:

1. **No Display on Monitors:**
    - Verify all HDMI and DisplayPort cables are securely connected between the computers, KVM switch, and monitors.

- Ensure the KVM switch is powered on and the correct PC input is selected.
- Check if your computers and monitors are powered on and functioning correctly independently.
- Confirm that your computer's graphics card supports the number of monitors and the resolutions you are attempting to use.
- Try using shorter, high-quality cables, especially for high-resolution setups.

2. **USB Peripherals Not Working:**
   - Ensure each computer is connected to the KVM switch via its dedicated USB 3.0 A-A cable.
   - Try connecting the USB peripheral directly to the computer to confirm it is functional.
   - Restart the KVM switch and the connected computers.
   - Note that Bluetooth mice are not supported.
3. **Intermittent Display or Flickering:**
   - This can often be caused by long or low-quality HDMI/DisplayPort cables, especially at high resolutions. Replace with certified high-speed cables.
   - Ensure all connections are tight.
   - Reduce the resolution or refresh rate to see if the issue persists.
4. **Switching Delay:**
   - A brief delay during switching is normal as the KVM re-establishes connections with the new source. This is more noticeable with higher resolutions and multiple monitors.
5. **Remote Control Not Working:**
   - Ensure the IR receiver is properly plugged into the KVM switch's IR port.
   - Check the battery in the remote control.
   - Ensure there are no obstructions between the remote and the IR receiver.

Specifications

Feature	Specification
Model Number	20240924345
Input Ports	4 x HDMI 2.1, 8 x DisplayPort 1.4, 4 x USB 3.0 (Type-B)
Output Ports	1 x HDMI 2.1, 2 x DisplayPort 1.4, 4 x USB 3.0 (Type-A)
Video Resolution	Up to 8K@60Hz, 4K@144Hz
USB Data Transfer	Up to 5 Gbit/s (USB 3.0)
Switching Methods	Button Switch, IR Remote Control
Power Supply	DC 12V
Dimensions (L x W x H)	23 x 8.4 x 4.8 cm (9.3 x 3.3 x 1.9 inches)
Weight	1 kg (2.2 lbs)
Material	Metal

Maintenance

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

- **Cleaning:** Use a soft, dry cloth to clean the exterior of the device. Avoid liquid cleaners or abrasive materials.
- **Ventilation:** Ensure the KVM switch is placed in a well-ventilated area to prevent overheating. Do not block ventilation openings.
- **Power:** Always use the provided DC12V power adapter. Disconnect power during electrical storms or when unused for long periods.
- **Environment:** Keep the device away from excessive heat, humidity, dust, and direct sunlight.

Support

If you encounter any issues that cannot be resolved using the troubleshooting guide, or if you require further assistance, please contact VPFET customer support. Refer to your product packaging or the VPFET official website for contact details.
VPFET is committed to providing reliable products and customer satisfaction. Our professional technical team is available to assist you.