CMSTEDCD SW222-Deep Blue

CMSTEDCD 8K KVM Switch User Manual

Model: SW222-Deep Blue | **Brand:** CMSTEDCD

Introduction

This manual provides detailed instructions for the setup, operation, and maintenance of your CMSTEDCD 8K KVM Switch. This device allows two computers (PC/laptop) to share two monitors and four USB 3.0 peripherals such as a mouse, keyboard, printer, or USB flash drive. It supports high-resolution displays up to 8K@60Hz and 4K@120Hz, and offers both Extended and Replication display modes.

Setup Instructions

Follow these steps to properly connect your KVM switch:

1. **Power Connection:** Connect the included 12V power adapter to the DC12V port on the KVM switch and plug it into a power outlet. Ensure the ON/OFF switch is in the OFF position during initial setup.
2. **Computer Connections (PC1 & PC2):**
   - For PC1: Connect one USB 3.0 A-A cable from a USB 3.0 port on PC1 to the 'PC1 IN USB 3.0' port on the KVM switch. Connect one HDMI cable from PC1's HDMI output to the 'PC1 IN HDMI B' port and one DisplayPort cable from PC1's DP output to the 'PC1 IN DP A' port on the KVM switch.
   - For PC2: Repeat the above step for PC2, connecting its USB 3.0, HDMI, and DisplayPort outputs to the 'PC2 IN USB 3.0', 'PC2 IN HDMI B', and 'PC2 IN DP A' ports respectively.

   Note: Ensure your computers support dual-screen output and have the necessary HDMI or DisplayPort interfaces. Signal converters may be required if your computer lacks these ports. High-quality 3.3ft video cables are recommended.
3. **Monitor Connections:**
   - Connect your first monitor to the 'OUT A' DisplayPort on the KVM switch.
   - Connect your second monitor to the 'OUT B' HDMI port on the KVM switch.

Note: Input A corresponds to OUT-A display, and Input B corresponds to OUT-B display.

4. **Peripheral Connections:** Connect your USB mouse, keyboard, printer, USB flash drive, or other USB 3.0 peripherals to the four USB 3.0 ports on the front of the KVM switch.
5. **Extended Controller:** Plug the wired extended controller into the dedicated port on the KVM switch. This allows for convenient desktop switching.
6. **Power On:** Once all connections are secure, switch the ON/OFF button on the KVM to the ON position.

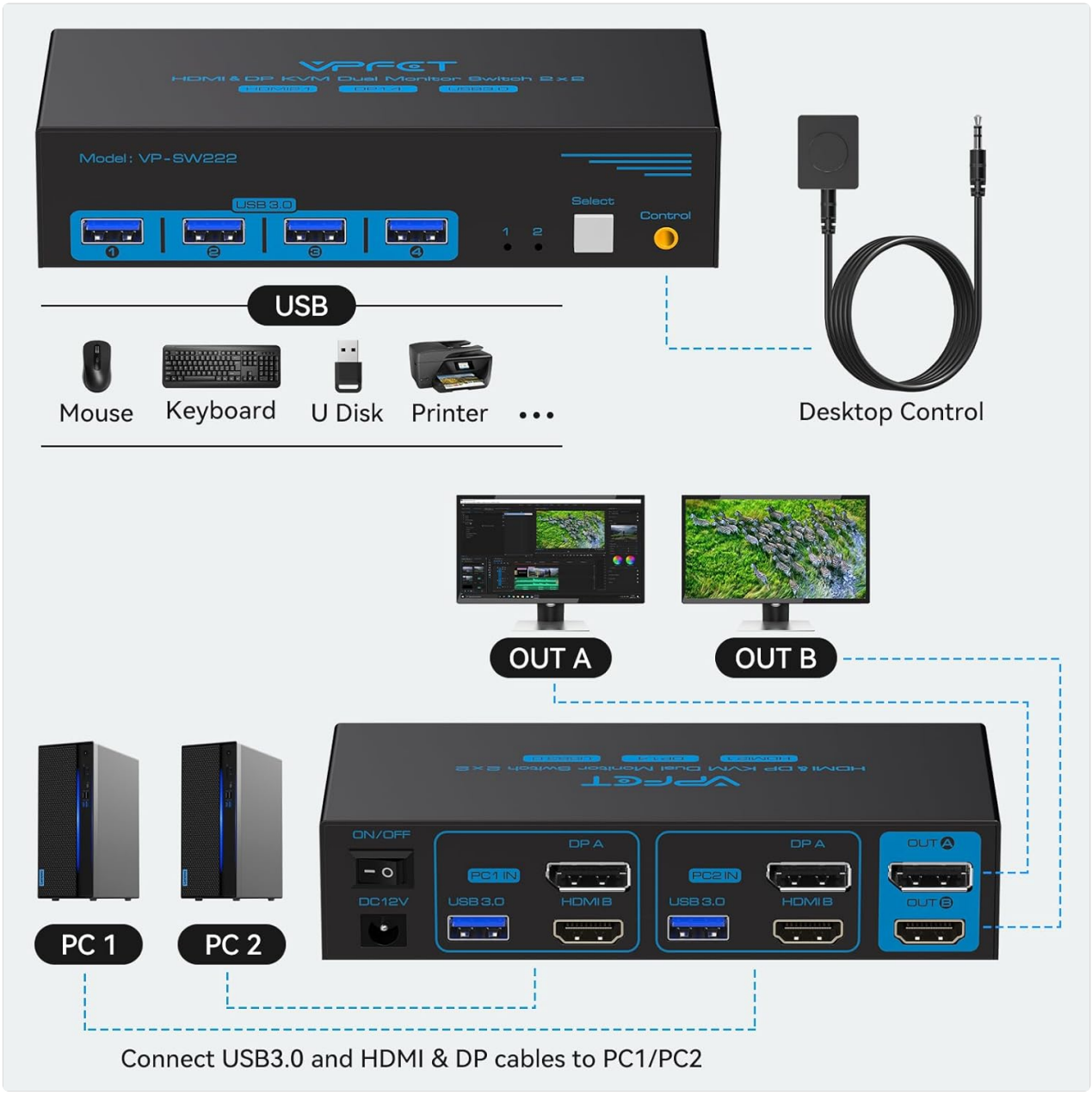

Figure 1: Detailed connection diagram for the KVM switch, showing connections from two PCs to the KVM, and from the KVM to two monitors and USB peripherals.

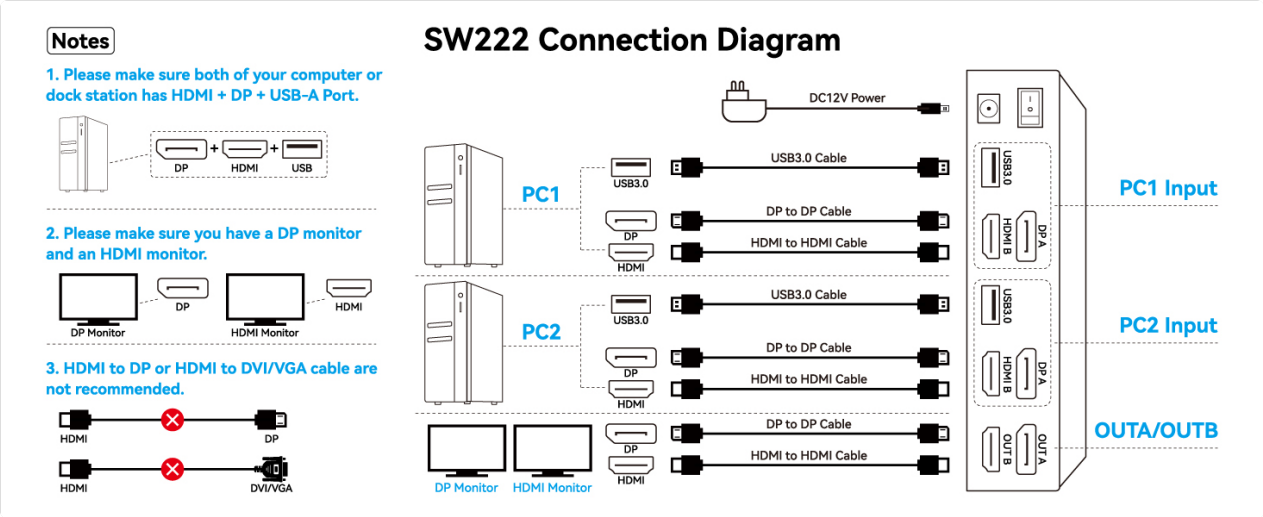

Figure 2: SW222 KVM Switch connection diagram, illustrating the required HDMI, DisplayPort, and USB 3.0 connections from each PC to the KVM, and the outputs to the monitors.

Operating Instructions

Switching Between Computers

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

- **Physical Button on KVM:** Press the 'Select' button on the front panel of the KVM switch to toggle between PC1 and PC2. The LED indicator (1 or 2) will illuminate to show which PC is currently active.
- **Wired Extended Controller:** Use the external wired button for convenient switching from your desktop. This allows the KVM unit to be hidden, creating a minimalist workspace.

Note: This KVM switch does not support keyboard hotkey switching for enhanced stability.

Figure 3: The LED indicator on the KVM switch clearly shows which PC (1 or 2) is currently active.

Display Modes

The KVM switch supports two primary display modes for your monitors:

- **Extended Mode:** Each monitor displays a different part of the desktop, allowing for multitasking and increased screen real estate.

- **Replication (Mirror) Mode:** Both monitors display the same content, ideal for presentations or collaborative work.

Note: The KVM switch automatically adapts to different resolutions of the signal sources, eliminating the need for manual display adjustments when switching.

Figure 4: Illustration of Extended Working Mode (two different displays) and Copy Working Mode (two identical displays).

USB 3.0 Functionality

The KVM switch features four USB 3.0 ports, providing high-speed connectivity for your peripherals:

- **High Transfer Speeds:** USB 3.0 delivers transfer speeds up to 5Gbps, which is significantly faster than USB 2.0 (480Mbps), optimizing performance for USB flash drives or external hard drives.
- **Broad Compatibility:** Compatible with a wide range of USB peripherals, including mice, keyboards, printers, and U-disks.

Figure 5: Comparison of USB 3.0 (5Gbps) and USB 2.0 (480Mbps) transfer speeds, highlighting the faster performance of USB 3.0.

Maintenance

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

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

Troubleshooting

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

- **USB Not Working:**
  - Confirm that the USB 3.0 cable is properly connected between the computer and the KVM switch.
  - Verify that the computer's USB port is functioning correctly.
  - Ensure that the latest USB driver is installed on your computer.
- **Display Has No Image:**
  - Confirm that the KVM switch and KVM video ports match the connected cables (e.g., HDMI to HDMI, DisplayPort to DisplayPort).
  - Verify that the PC to KVM input cables are connected correctly: Input A should correspond to the OUT-A display, and Input B to the OUT-B display.
  - Use high-quality 3.3ft video cables. Conversion cables (e.g., HDMI to DP, DVI/VGA) are not supported and may cause issues.
  - If an adapter is required for your setup, please use an active adapter.
- **Unstable Operation / Device Dropouts:**
  - Ensure the included 12V power adapter is connected and providing power to the KVM switch. PC hosts often provide insufficient current for stable operation of USB devices like hard drives without external power.
  - The external power supply design is optimized for stability and prevents device dropouts.

If you continue to experience issues, please contact CMSTEDCD technical support for assistance.

Specifications

Feature	Detail
Product Dimensions	14.96 x 6.48 x 3.51 cm; 560 g
Item Model Number	SW222-Deep Blue
Manufacturer	CMSTEDCD
Material	Metal
Operation Mode	ON-OFF
Current Rating	1 Amps
Operating Voltage	12 Volts
Connector Type	Plug In
Switch Type	Push Button
Circuit Type	1-way
Date First Available	March 15 2024

Warranty and Support

CMSTEDCD is committed to providing high-quality products and excellent customer service. We have a professional technical team dedicated to assisting you with any issues you may encounter.

- **Warranty:** Within 24 months of purchase, we will replace the KVM switch at no cost if you experience any defects or malfunctions.
- **Technical Support:** If you have any problems during the use of your KVM switch, please contact our technical support team. We are here to help you solve your problems efficiently.

For support, please refer to the contact information provided with your product packaging or visit the official CMSTEDCD website.