CMSTEDCD SW241

CMSTEDCD 4K120Hz KVM Switch (Model SW241) User Manual

Connect 4 Computers to 1 Monitor with Shared USB 3.0 Devices

1. Introduction

The CMSTEDCD 4K120Hz KVM Switch (Model SW241) allows you to control up to four computers from a single set of peripherals: one monitor, one keyboard, and one mouse. This device supports high-resolution video up to 8K@60Hz and 4K@120Hz, and includes four USB 3.0 ports for sharing additional USB devices like printers or flash drives. It is designed to streamline your workspace by eliminating the need for multiple monitors and peripheral sets.

2. Package Contents

Please verify that all items are present in your package:

- CMSTEDCD 4K120Hz KVM Switch (Model SW241) x1
- 12V1A Power Supply x1
- Desktop Controller x1
- IR Extension Cable x1
- USB 3.0 Cables x4
- User Manual x1



Figure 2.1: Package Contents. This image displays the KVM switch unit along with all included accessories: power adapter, remote control, IR extension cable, four USB 3.0 cables, and the user manual.

3. Product Overview

3.1 Front Panel

The front panel of the KVM switch features the following:

- **USB 3.0 Ports (1-4):** For connecting USB peripherals such as keyboard, mouse, flash drives, or printers.
- **IR Port:** For connecting the IR extension cable.
- **PC1-PC4 Switch Buttons:** Manual buttons to switch between connected computers.
- **ON/OFF Switch:** Power toggle for the KVM switch.
- **EXT IR Port:** For connecting the external IR receiver.

3.2 Rear Panel

The rear panel provides connection points for your computers and monitor:

- **DC12V:** Power input port for the included 12V1A power adapter.
- **PC1 IN - PC4 IN:** Each input consists of one HDMI port and one USB 3.0 port. Connect these to the corresponding HDMI and USB 3.0 ports on each computer.
- **OUT:** HDMI output port for connecting to your monitor.

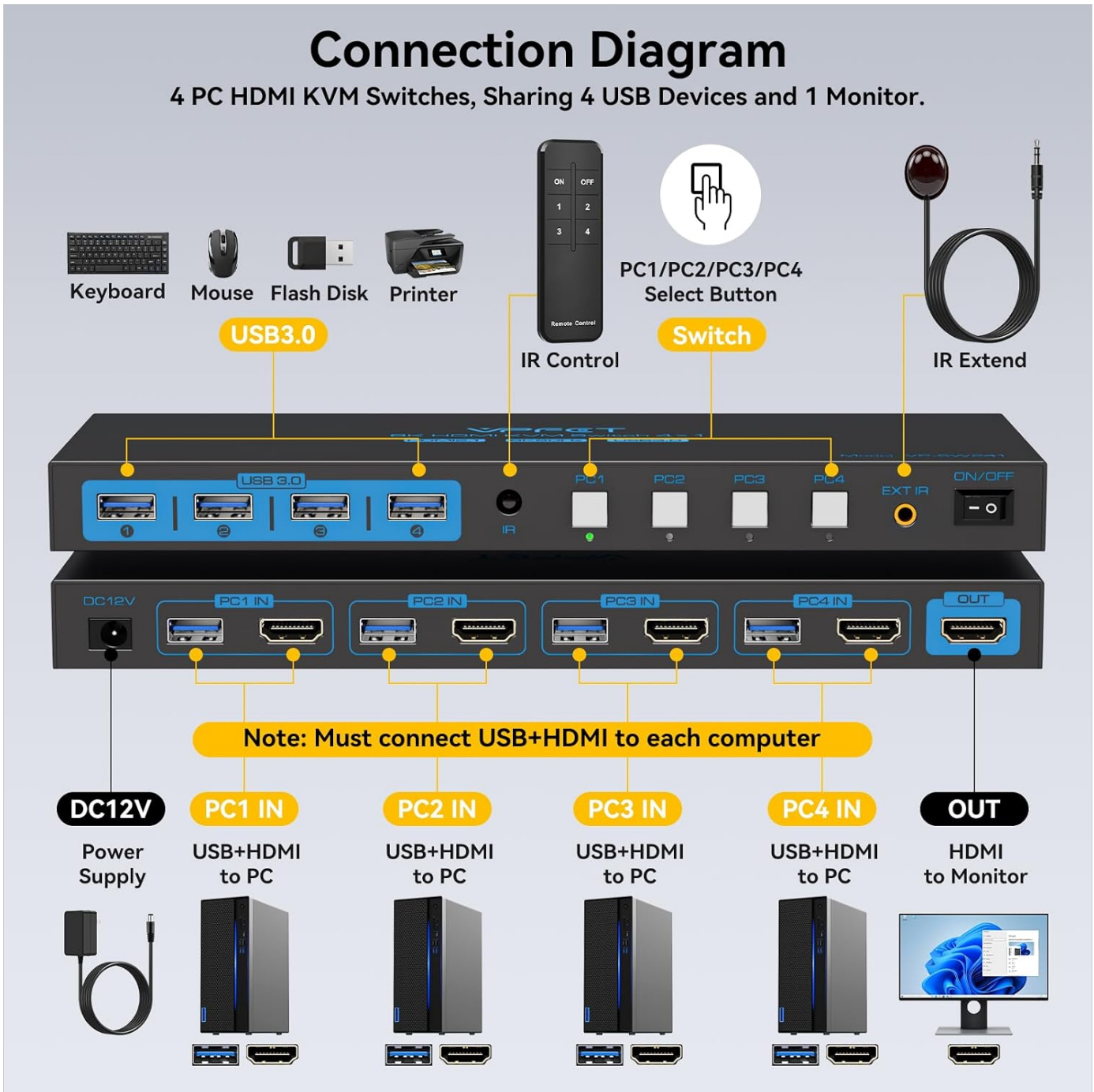


Figure 3.1: Connection Diagram. This diagram shows the KVM switch with its front and rear panels, detailing where to connect the power supply, four computers (each requiring both HDMI and USB 3.0 connections), a single monitor, and shared USB peripherals like a keyboard, mouse, flash drive, and printer.

4. Setup Instructions

Follow these steps to set up your KVM switch:

1. **Power Off Devices:** Ensure all computers and your monitor are powered off before beginning the connection process.

2. **Connect Monitor:** Connect your monitor to the **OUT** HDMI port on the KVM switch using a high-quality HDMI 2.1 cable.
3. **Connect Computers (Video):** For each computer (PC1 to PC4), connect an HDMI cable from the computer's HDMI output to the corresponding **PC IN** HDMI port on the KVM switch.

   Note: All computers and the monitor must have HDMI ports. The use of conversion cables is not supported and may lead to compatibility issues or reduced performance. For 8K@60Hz or 4K@120Hz resolutions, ensure your computers, monitor, and HDMI cables all support these specifications.
4. **Connect Computers (USB):** For each computer (PC1 to PC4), connect one of the included USB 3.0 cables from a USB 3.0 port on your computer to the corresponding **PC IN** USB 3.0 port on the KVM switch.

   Note: Each computer requires a dedicated USB 3.0 cable connection to the KVM switch for peripheral sharing.
5. **Connect USB Peripherals:** Connect your keyboard, mouse, and any other USB 3.0 devices (e.g., printer, flash drive) to the **USB 3.0 Ports (1-4)** on the front panel of the KVM switch.
6. **Connect IR Extension (Optional):** If using the IR remote control, connect the IR extension cable to the **EXT IR** port on the KVM switch and place the IR receiver in a location where it can receive signals from the remote.
7. **Connect Power:** Connect the 12V1A power adapter to the **DC12V** port on the KVM switch and plug it into a power outlet.
8. **Power On:** Power on the KVM switch using the ON/OFF switch, then power on your monitor and computers.



Figure 4.1: Example Desktop Setup. This image illustrates a typical setup with the KVM switch managing connections for four computers to a single monitor, keyboard, and mouse, promoting an organized and efficient workspace.

5. Operating Instructions

The CMSTEDCD KVM Switch offers multiple methods for switching between connected computers:

5.1 Front Panel Buttons

Press the corresponding **PC1, PC2, PC3, or PC4** button on the front panel of the KVM switch to instantly switch control to the desired computer. An LED indicator will illuminate to show which computer is currently active.

5.2 IR Remote Control

Use the included IR remote control to switch between computers. Point the remote at the KVM switch's IR receiver (or the IR extension cable's receiver) and press the button corresponding to the desired PC (1, 2, 3, or 4).



Figure 5.1: Multiple Switching Methods. This image demonstrates the two primary ways to switch between connected computers: using the physical buttons on the KVM switch's front panel or via the included IR remote control.

6. Key Features

- **High Resolution Support:** Supports HDMI 2.1 standards, delivering resolutions up to 8K@60Hz and 4K@120Hz for crisp, detailed visuals and smooth motion.



Figure 6.1: 8K@60Hz Resolution Support. This image emphasizes the KVM switch's ability to output video at resolutions up to 8K at 60Hz, providing a high-quality visual experience.

- **USB 3.0 Connectivity:** Equipped with four USB 3.0 ports, offering data transfer speeds up to 5Gbps. This allows for rapid file transfers and efficient use of shared peripherals.



Figure 6.2: USB 3.0 High-Speed Transfer. This image illustrates the speed advantage of USB 3.0 (5Gbps) over USB 2.0 (480Mbps) and shows USB 3.0 devices connected to the KVM switch for fast data transfer.

- **Broad Compatibility:** Supports various operating systems including Windows, macOS, and Linux, ensuring seamless integration into diverse computing environments.
- **EDID Function:** The KVM switch includes an EDID (Extended Display Identification Data) function to ensure optimal display settings are maintained when switching between computers.

7. Troubleshooting

If you encounter issues, please refer to the following troubleshooting tips:

- **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 drivers are installed on the computer.
- **Display Has No Image:**

- Confirm that the KVM switch is powered on and the correct input (PC1-PC4) is selected.
- Verify that the HDMI cables are securely connected between the computers and the KVM switch, and between the KVM switch and the monitor.
- Ensure that the HDMI cables used are high-quality and support the desired resolution (e.g., 8K or 4K120Hz).
- Avoid using conversion cables; direct HDMI connections are recommended.
- If an adapter is necessary, use an active adapter.
- Check your monitor's input source settings to ensure it is set to the correct HDMI input.

- **Intermittent Display or Flickering:**
  - Ensure all HDMI cables are certified for the resolution and refresh rate you are using. Longer cables may require active repeaters or higher quality.
  - Verify the power adapter is securely connected and providing stable power to the KVM switch.
  - Reduce the resolution or refresh rate temporarily to see if the issue persists.

8. Specifications

Feature	Specification
Model	SW241
Brand	CMSTEDCD
HDMI Version	HDMI 2.1
Max Resolution	8K@60Hz, 4K@120Hz
USB Ports	4 x USB 3.0 (5Gbps)
Input Ports	4 x HDMI, 4 x USB 3.0
Output Ports	1 x HDMI
Control Method	Push Button, IR Remote Control
Power Supply	DC 12V1A
Operating Temperature	Up to 50 Degrees Celsius
Material	Metal
Dimensions (L x W x H)	9.33 x 3.3 x 0.83 inches

9. Official Product Video

Watch this video for a visual guide on the CMSTEDCD 4K120Hz KVM Switch's features and functionality.

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Video: Overview of the CMSTEDCD 4K120Hz KVM Switch. This video demonstrates the product's design, port layout, and how it functions to switch between multiple computers using a single monitor and set of USB peripherals.

10. Warranty and Support

The CMSTEDCD 4K120Hz KVM Switch (Model SW241) comes with a**2-year warranty**.
For technical support, troubleshooting assistance, or warranty claims, please contact CMSTEDCD's dedicated after-sales service team. CMSTEDCD is a high-tech enterprise committed to providing comprehensive support for its products. Contact information for support can typically be found on the after-sales card included in your package or by visiting the official CMSTEDCD website.

Ask a question about this manual

Ask about setup, troubleshooting, compatibility, parts, safety, or missing instructions. Manuals+ will review the question and use this page's manual context to help answer it.

Name

Anonymous

Email

you@example.com

After a successful submission, we securely hash the supplied account or form email before sending it to Microsoft Advertising for conversion attribution. Privacy details.

Question

Example: How do I reset this device or fix this error?

Details

Model number, symptoms, what you tried, or the section of the manual you are using.

Submit question