

CMSTEDCD VP-SW345

CMSTEDCD 8K HDMI + 2 DisplayPort KVM Switch (Model: VP-SW345) User Manual

1. INTRODUCTION

This manual provides detailed instructions for the installation, operation, and troubleshooting of your CMSTEDCD 8K HDMI + 2 DisplayPort KVM Switch, Model VP-SW345. This device allows up to four computers to share three monitors (two DisplayPort, one HDMI) and four USB 3.0 peripheral devices. It supports high resolutions up to 8K@60Hz and 4K@144Hz, offering both extended and mirror display modes.

2. PACKAGE CONTENTS

Before installation, please verify that all items listed below are included in your package:

- 1 x CMSTEDCD 8K HDMI + 2 DisplayPort KVM Switch (Model: VP-SW345)
- 4 x USB 3.0 A-to-A Cables
- 1 x IR Extend Cable
- 1 x IR Remote Control
- 1 x DC12V Power Adapter
- 1 x User Manual (this document)

Multiple switching methods



1. Button Switch



2. Remote Control and IR Extend

Image: Contents of the CMSTEDCD KVM Switch package.

3. SETUP INSTRUCTIONS

Follow these steps to correctly set up your KVM switch:

1. **Power Connection:** Connect the DC12V power adapter to the KVM switch and then to a power outlet.
2. **Monitor Connections:** Connect your three monitors to the KVM switch's output ports (OUT A, OUT B, OUT C) using DisplayPort and HDMI cables. Ensure you use high-quality cables for optimal performance.
3. **Computer Connections:** For each computer (PC1, PC2, PC3, PC4):
 - Connect the USB 3.0 A-to-A cable from your computer's USB 3.0 port to the corresponding USB 3.0 input port on the KVM switch (PC1 IN, PC2 IN, etc.).
 - Connect two DisplayPort cables from your computer's DisplayPort outputs to the corresponding DP IN ports on the KVM switch (e.g., PC1 DP A, PC1 DP B).
 - Connect one HDMI cable from your computer's HDMI output to the corresponding HDMI IN port on the KVM switch (e.g., PC1 HDMI).

- Peripheral Connections:** Connect your USB keyboard, mouse, and other USB 3.0 devices to the USB 3.0 ports on the front of the KVM switch.
- IR Extender (Optional):** If using the remote control and the KVM switch is out of direct line of sight, connect the IR Extend cable to the 'EXT IR' port on the KVM switch and place the IR receiver in a visible location.



Image: Comprehensive connection diagram for the KVM switch.

Important Cable Information:

- Use 8K@60Hz / 4K@120Hz DisplayPort and HDMI cables.
- Cable length should not exceed 1.8 meters (6 feet) for optimal performance at high resolutions.
- DP to HDMI or DP to DVI/VGA conversion cables are **not supported**. Use native DisplayPort and HDMI cables.
- If an adapter is required for your computer's video output, ensure it is an **active adapter**.



Image: Cable requirements and unsupported cable types.

4. OPERATING INSTRUCTIONS

Switching Between Computers:

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

- **Front Panel Button Switch:** 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 will illuminate for the active computer.

- **IR Remote Control:** Use the provided IR remote control to switch between computers. Point the remote at the KVM switch (or the IR extender if connected) and press the button corresponding to the desired PC (1, 2, 3, or 4).



Image: Switching methods using front panel buttons and IR remote control.

Display Modes:

The KVM switch supports both extended and mirror display modes, allowing a single computer to display three images across the connected monitors. Ensure your computer's display settings are configured for the desired mode.



Image: Extended and Mirror display modes for multiple monitors.

USB 3.0 Port Functionality:

The KVM switch features four USB 3.0 ports for sharing peripherals such as keyboards, mice, and USB storage devices. These ports offer high-speed data transfer up to 5Gbps, significantly faster than USB 2.0.



Image: USB 3.0 ports and their high-speed data transfer capabilities.

5. MAINTENANCE

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

- Keep the device in a cool, dry environment, away from direct sunlight, heat sources, and moisture.
- Avoid placing heavy objects on top of the KVM switch.
- Clean the exterior of the device with a soft, dry cloth. Do not use liquid cleaners or aerosols.
- Ensure proper ventilation around the unit to prevent overheating.
- Regularly check all cable connections to ensure they are secure.

6. TROUBLESHOOTING

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

Problem: USB devices are not working.

- **Solution 1:** Confirm that the USB 3.0 A-to-A cable is properly connected between the computer and the KVM switch.
- **Solution 2:** Verify that the computer's USB port is functioning correctly by testing it with another device.
- **Solution 3:** Ensure that the latest USB drivers are installed on your computer.

Problem: Display has no image.

- **Solution 1:** Confirm that the KVM switch's video input ports (DP IN, HDMI IN) match the corresponding output ports on your computer.
- **Solution 2:** Ensure all PC to KVM input cables are connected correctly. For example, if using Input A on the KVM, ensure it corresponds to OUT-A display.
- **Solution 3:** Use high-quality DisplayPort and HDMI cables, preferably not exceeding 1.8 meters (6 feet). Conversion cables (e.g., DP to HDMI) are not supported.
- **Solution 4:** If an adapter is necessary for your computer's video output, ensure it is an active adapter.

7. SPECIFICATIONS

Feature	Specification
Model	VP-SW345
Brand	CMSTEDCD
Video Inputs	4 x (2x DisplayPort 1.4, 1x HDMI 2.1)
Video Outputs	2 x DisplayPort 1.4, 1 x HDMI 2.1
USB Ports	4 x USB 3.0 (for peripherals), 4 x USB 3.0 (for PC connection)
Max Resolution	8K@60Hz, 4K@144Hz
Switching Methods	Front Panel Button, IR Remote Control
Control Method	Remote, Push Button
Connectivity Protocol	USB
Mounting Type	Rack Mount
Material	Copper (Contact Material)
Parcel Dimensions	28.8 x 12.6 x 10.6 cm
Weight	1.06 kg

Image: Supported resolutions and display technologies.

8. WARRANTY INFORMATION

CMSTEDCD products are designed for reliability and performance. For specific warranty terms and conditions, please refer to the warranty card included with your product or contact CMSTEDCD customer support. Keep your

purchase receipt as proof of purchase for any warranty claims.

9. CUSTOMER SUPPORT

For further assistance, technical support, or inquiries, please contact CMSTEDCD customer service:

- **Email:** vpfetus@163.com
- CMSTEDCD offers 24/7 online support.