CMSTEDCD SW332-1125vine-orange

User Manual: CMSTEDCD Thunderbolt 4 KVM Switch Docking Station

Model: SW332-1125vine-orange

1. Introduction

Thank you for choosing the CMSTEDCD Thunderbolt 4 KVM Switch Docking Station. This device is designed to streamline your workspace by allowing two computers (laptops or MacBooks) to share two monitors and multiple USB peripherals, including keyboards, mice, and other USB devices. It supports extended dual 4K@60Hz displays and features DisplayLink technology for broad compatibility. This manual provides detailed instructions for setup, operation, and maintenance to ensure optimal performance.

2. Product Overview

Familiarize yourself with the components and ports of your KVM switch docking station.



Figure 2.1: Front and Rear Panel Layout of the KVM Switch Docking Station. This image displays the top and rear views of the KVM switch, highlighting all input and output ports, including USB-A 3.0, USB-C 3.0 (data only), SD/Micro SD card slots, power input (DC12V), Ethernet (LAN IN), USB-A 2.0 (for mouse/keyboard), and HDMI/DisplayPort outputs (OUT1, OUT2).

2.1. Front Panel

- **USB-A 3.0 (5Gbps):** Three ports for connecting high-speed USB devices such as external hard drives, SSDs, or flash drives.
- **USB-C 3.0 (5Gbps, Data Only):** One port for connecting USB-C data devices.
- **SD/Micro SD (5Gbps):** Card reader slots for direct access to SD and Micro SD cards.
- **Select Button:** Used to manually switch between PC1 and PC2.
- **Control Port:** For connecting the external wired controller.

2.2. Rear Panel

- **ON/OFF Switch:** Power toggle for the device.
- **DC12V:** Power input port.
- **PC1 IN / PC2 IN (USB-C):** USB-C ports for connecting to Laptop 1 and Laptop 2. These are the primary inputs for the KVM function.
- **LAN IN (1000M):** Gigabit Ethernet port for wired network connection.
- **HDMI / DP (OUT1, OUT2):** Two sets of video output ports (HDMI and DisplayPort) for connecting to two external monitors.
- **USB-A 2.0 (Mouse/Keyboard):** Two ports specifically for connecting a keyboard and mouse.

3. Setup Guide

Follow these steps to set up your KVM switch docking station.

1. **Power Connection:** Connect the provided 12V power adapter to the DC12V port on the rear panel of the KVM switch and plug it into a power outlet.
2. **Connect Monitors:** Connect your two monitors to the HDMI or DisplayPort outputs (OUT1 and OUT2) on the rear panel of the KVM switch. Ensure you use high-quality cables (under 3 feet/1 meter is ideal) that support DP 1.4 and HDMI 2.1 standards for optimal 4K@60Hz performance. If using a DVI monitor, an HDMI-to-DVI cable (not included) is required.
3. **Connect Peripherals:** Connect your keyboard and mouse to the USB-A 2.0 ports on the rear panel. Connect any other USB devices (e.g., webcam, external storage) to the USB-A 3.0 or USB-C 3.0 data ports on the front panel.
4. **Connect Laptops:** Use the provided USB-C cables to connect your two laptops (PC1 and PC2) to the respective PC1 IN and PC2 IN USB-C ports on the rear panel of the KVM switch. Ensure your laptops have a USB-C 3.2 (or higher) port.
5. **Network Connection (Optional):** If desired, connect an Ethernet cable from your router or modem to the LAN IN port on the rear panel.
6. **Install Drivers:** Driver installation is required for the DisplayLink functionality. Please proceed to Section 5 for detailed driver installation instructions.
7. **Power On:** Flip the ON/OFF switch on the rear panel to the 'ON' position.

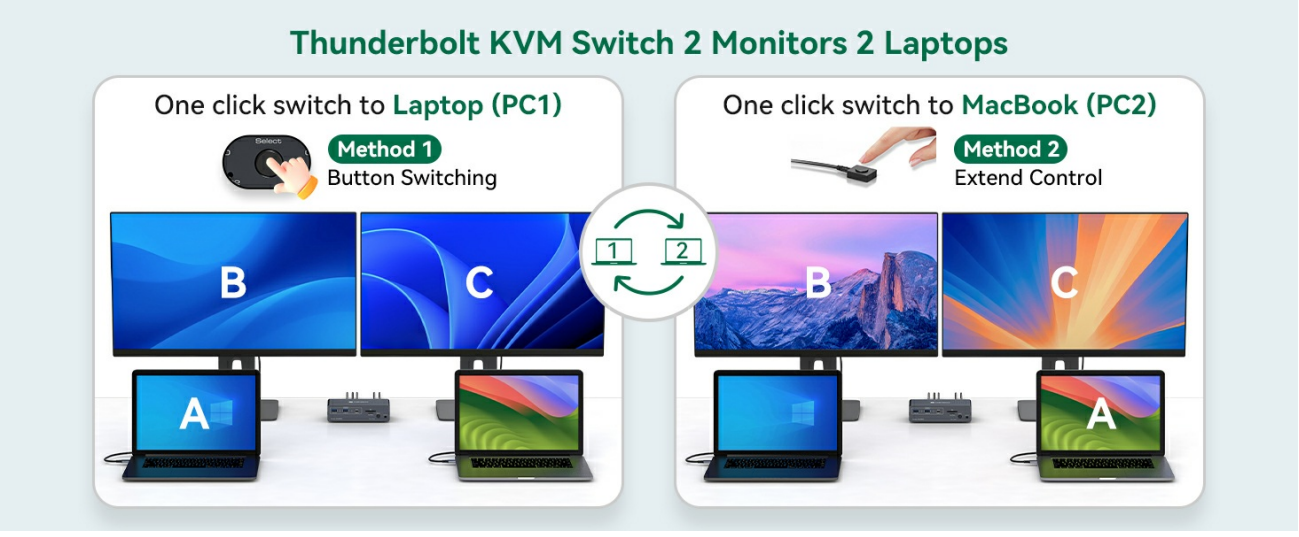


Figure 3.1: Dual 4K@60Hz Extended Display Setup. This image illustrates a typical setup with two laptops connected to the KVM switch, which in turn is connected to two external monitors, demonstrating the extended display capability at 4K@60Hz resolution.



Figure 3.2: Space-Saving Setup with Wired Controller. This image demonstrates how the KVM switch can be discreetly placed under a desk or behind a monitor, with the wired controller accessible on the desktop, optimizing desk space.

4. Operating Instructions

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

4.1. Switching Methods

- **Method 1: Button Switching**

  Press the 'Select' button on the front panel of the KVM switch to toggle between PC1 and PC2. Each press will switch control to the next connected computer.

- **Method 2: Wired Controller**

  Connect the included wired controller to the 'Control' port on the front panel. Press the button on the wired controller to switch between PC1 and PC2. This method is ideal for discreetly placing the main KVM unit and having the switch button easily accessible on your desk.

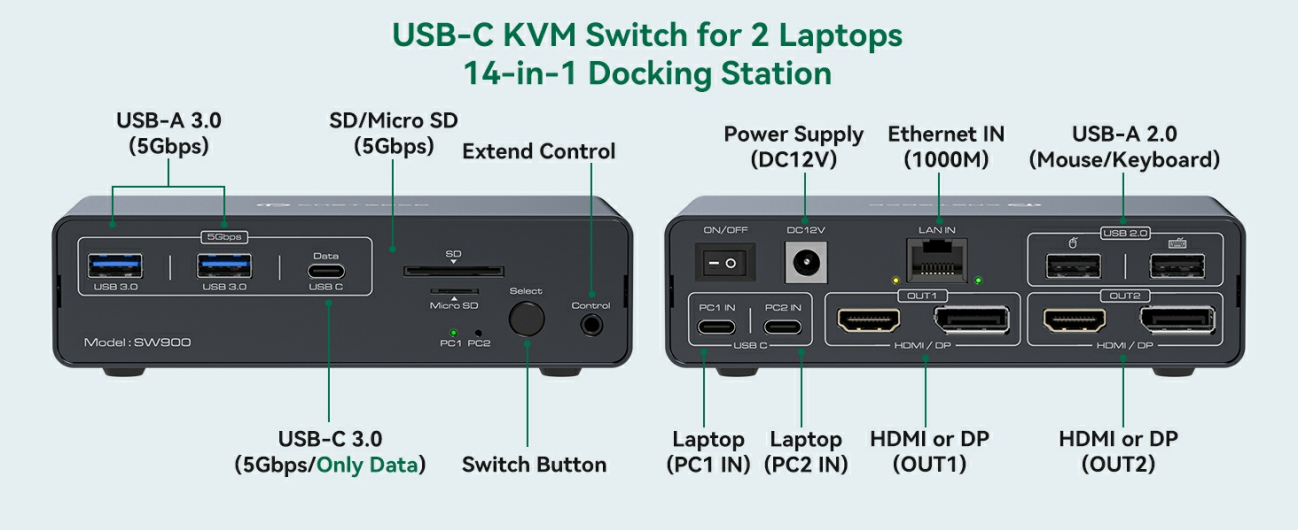


Figure 4.1: KVM Switching Methods. This image illustrates both the button switching method on the KVM unit itself and the wired controller method for convenient switching between PC1 and PC2.

5. Driver Installation

The CMSTEDCD KVM Switch Docking Station requires DisplayLink drivers for full functionality, especially for extended display capabilities. Follow these steps to install the necessary drivers.

1. **Visit the Official DisplayLink Website:** Open your web browser and navigate to the official DisplayLink website. The typical URL is https://www.synaptics.com/products/displaylink-usb-graphics.
2. **Navigate to Downloads:** On the DisplayLink website, locate the 'Downloads' or 'Drivers' section.
3. **Select Your Operating System:** Choose the appropriate operating system for your computer (macOS, Windows, Chrome OS, Linux, or Android).
4. **Download the Driver:** Download the latest DisplayLink Manager or Graphics Connectivity driver package for your selected OS.
5. **Run the Installer:** Once the download is complete, open the downloaded file and follow the on-screen instructions to complete the installation process. You may need to restart your computer after installation.

Note: Ensure your operating system is up-to-date before installing the drivers for best compatibility.



Figure 5.1: Driver Installation Steps. This visual guide outlines the four key steps for installing the DisplayLink driver: visiting the website, selecting the download, choosing the OS, and completing the installation.

6. Compatibility

6.1. System Compatibility

The KVM switch is compatible with a wide range of operating systems, provided your device is equipped with a USB-C 3.2 (or higher) port.

- macOS (including M1, M2, M3, M4 chipsets like MacBook, MacBook Air/Pro, and Mac Mini)
- Windows
- Chrome OS
- Linux
- Android



Figure 6.1: Popular Compatible Systems. This image displays icons representing various operating systems compatible with the KVM switch, including macOS, Windows, Linux, ChromeBook, and Android.

6.2. Monitor Compatibility

The KVM switch offers flexible video output options to connect to a wide range of monitors.

- HDMI Monitors
- DisplayPort (DP) Monitors
- DVI Monitors (requires an HDMI-to-DVI cable, not included)

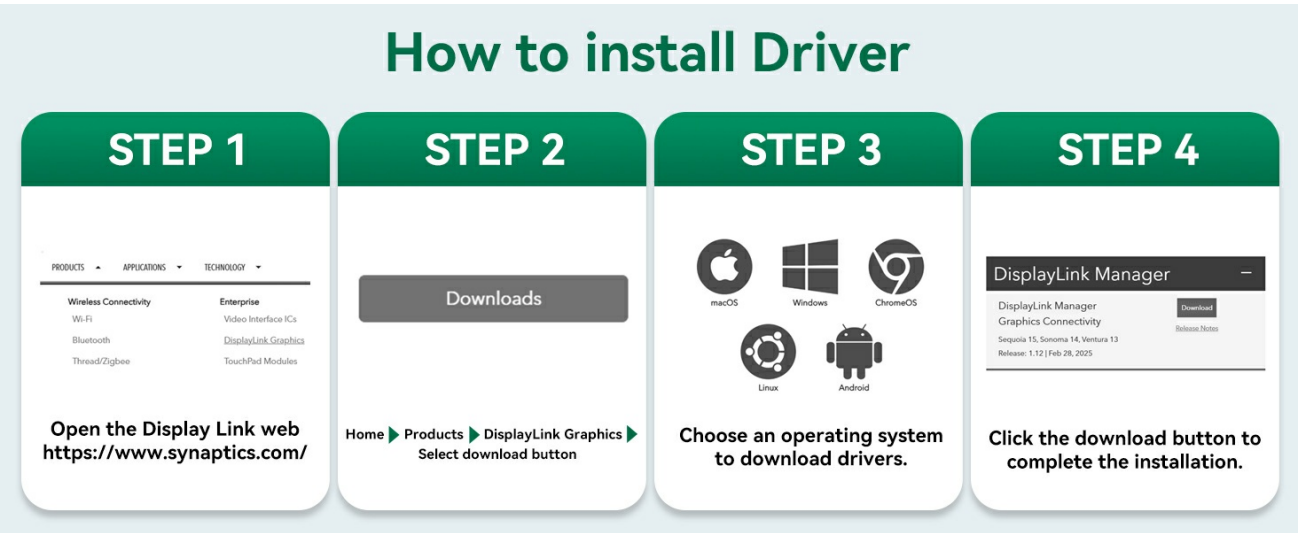


Figure 6.2: Broad Monitor Compatibility. This image visually confirms the KVM switch's compatibility with both HDMI and DisplayPort monitors, indicating that no adapter cable is required for these common connections.

7. Troubleshooting

If you encounter issues, refer to the following common problems and solutions.

- **No Display on Monitor:**
  - Ensure the KVM switch is powered on.
  - Verify all video cables (HDMI/DP) are securely connected between the KVM switch and monitors, and between the laptops and the KVM switch.
  - Confirm that the correct input source is selected on your monitors.
  - Check if the DisplayLink drivers are correctly installed on your laptop (refer to Section 5).
  - Try restarting the KVM switch and your laptops.
- **Keyboard/Mouse Not Responding:**
  - Ensure the keyboard and mouse are connected to the dedicated USB-A 2.0 ports on the rear panel.
  - Try connecting the keyboard/mouse directly to the laptop to confirm they are functional.
  - Switch to the other computer and then back to see if the connection re-establishes.
- **Intermittent Display/Flickering:**
  - Use high-quality, certified HDMI/DisplayPort cables, especially for 4K resolutions. Cables longer than 3 feet (1 meter) may experience signal degradation.
  - Ensure your laptop's graphics drivers are up-to-date.
  - Reduce the display resolution or refresh rate temporarily to see if the issue persists.
- **USB Devices Not Detected:**
  - Ensure USB devices are properly inserted into the USB-A 3.0 or USB-C 3.0 data ports.
  - Some high-power USB devices may require an external power source.
  - Try connecting the device to a different USB port on the KVM switch or directly to the laptop.
- **No Network Connection:**
  - Verify the Ethernet cable is securely connected to the LAN IN port on the KVM switch and your router/modem.
  - Check your laptop's network settings.
  - Ensure your router/modem is functioning correctly.

8. Specifications

Feature	Specification
Model Number	SW332-1125vine-orange
Product Dimensions	7.8 x 6.4 x 2.4 inches
Item Weight	1.44 Pounds
Material	Metal
Video Output	2 x HDMI / DisplayPort (OUT1, OUT2)

Max Resolution	Dual 4K@60Hz (3840x2160@60Hz)
USB Input	2 x USB-C (PC1 IN, PC2 IN)
USB Data Ports	3 x USB-A 3.0 (5Gbps), 1 x USB-C 3.0 (5Gbps, Data Only)
USB Peripheral Ports	2 x USB-A 2.0 (Mouse/Keyboard)
Card Reader	SD / Micro SD (5Gbps)
Ethernet Port	1 x LAN IN (1000M)
Power Supply	DC 12V
Operating Voltage	12 Volts (DC)
Current Rating	1 Amps
Operation Mode	ON-OFF

9. What's in the Box

The product package includes the following items:

- CMSTEDCD Thunderbolt 4 KVM Switch Docking Station
- USB-C cables (for connecting laptops)
- Wired switch button controller
- 12V Power Adapter
- User Manual (this document)

10. Maintenance

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

- **Cleaning:** Use a soft, dry cloth to clean the exterior of the device. Do not use liquid cleaners or aerosol sprays, as they may damage the unit.
- **Ventilation:** Ensure the device is placed in a well-ventilated area to prevent overheating. Do not block the 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 untangled to prevent damage to the ports and cables themselves. Avoid sharp bends or excessive pulling on the cables.

11. Warranty and Support

CMSTEDCD products are designed and manufactured to the highest quality standards. This product is covered by a standard manufacturer's warranty against defects in materials and workmanship from the date of purchase. The warranty period and terms may vary by region and retailer.

For warranty claims, technical support, or any inquiries regarding your product, please contact the retailer where you purchased the device or visit the official CMSTEDCD website for contact information. Please have your product model number and purchase details ready when seeking support.

Customer Support: For further assistance, please refer to the contact information provided with your purchase or visit the CMSTEDCD brand store on Amazon: CMSTEDCD Store.