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## CMSTEDCD SW524

# CMSTEDCD USB C Docking Station with KVM Switch

**MODEL: SW524-GREY**

User Manual

## 1. Introduction

The CMSTEDCD USB C Docking Station with KVM Switch is designed to enhance your workspace efficiency by allowing two computers to share two monitors, a keyboard, mouse, and other peripherals. This device supports dual 4K@60Hz HDMI output, 1G Ethernet, multiple USB ports, and SD/microSD card slots, providing a comprehensive solution for managing multiple systems from a single workstation.



Image 1: Front and rear view of the CMSTEDCD USB C Docking Station with KVM Switch.

## 2. Package Contents

Please verify that all items are present in the package:

- CMSTEDCD USB C Docking Station with KVM Switch (Model SW524-Grey) x1
- DC12V Power Adapter x1
- USB-C to USB-C Cable x1
- Desktop Controller x1
- User's Manual x1

## 3. Product Overview

The CMSTEDCD KVM Docking Station offers a comprehensive set of ports and features for enhanced connectivity and control.

# USB-C KVM Switch Docking Station for 2 Laptops

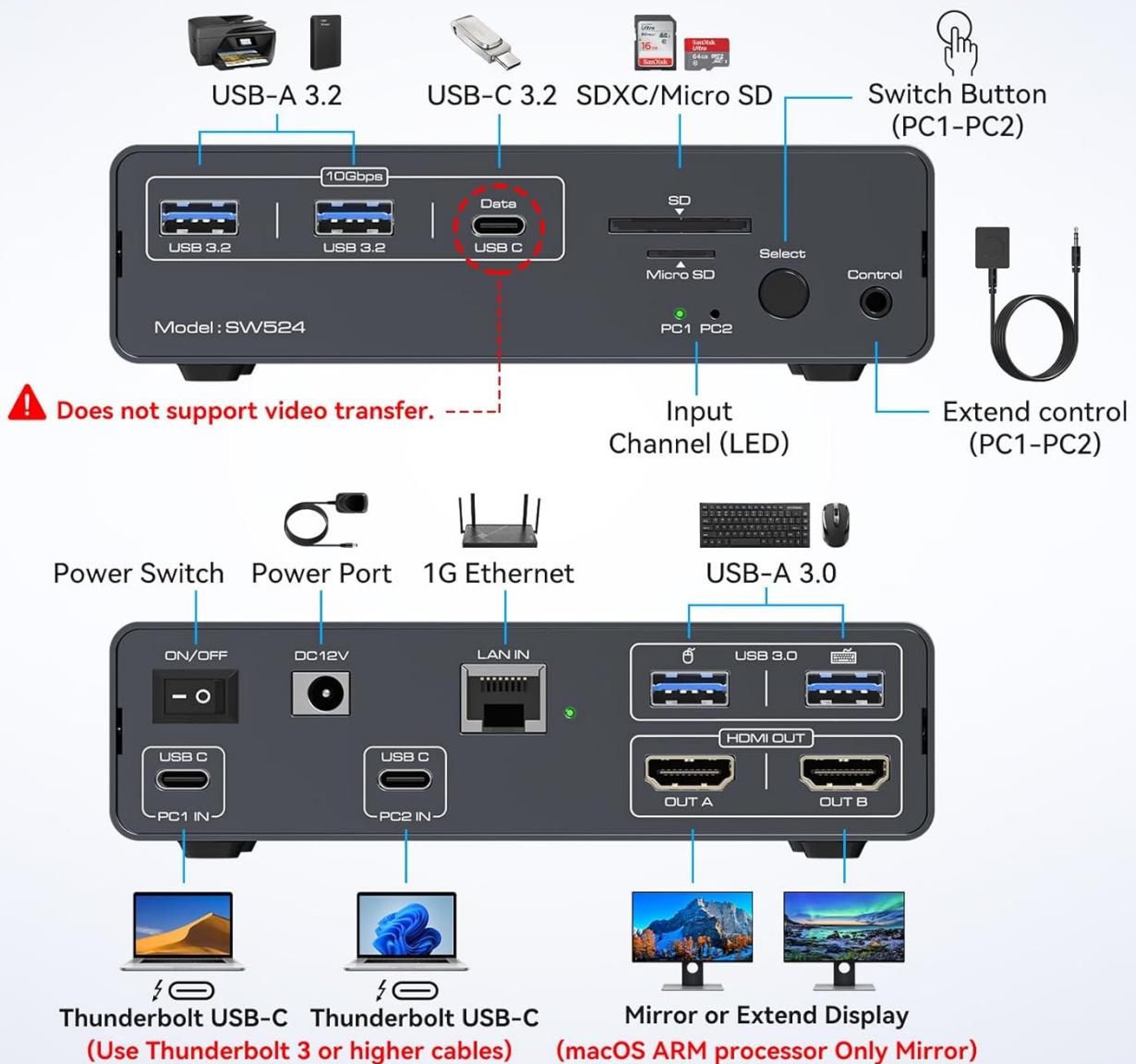


Image 2: Detailed diagram of the KVM switch ports and components.

## Front Panel:

- **USB-A 3.2 Ports (x2)**: For connecting high-speed USB devices.
- **USB-C 3.2 Port (x1)**: For data transfer only. Does not support PD charging or video transmission. (Note: Does not support video transfer.)
- **SD/MicroSD Card Slots**: For reading and transferring data from memory cards.
- **Select Button**: To manually switch between PC1 and PC2.
- **Input Channel (LED)**: Indicates the currently active computer (PC1 or PC2).
- **Extend Control Port**: For connecting the external desktop controller.

## Rear Panel:

- **ON/OFF Switch**: Power control for the device.
- **DC12V Power Input**: Connect the provided power adapter.
- **USB-C PC1 IN / USB-C PC2 IN**: Connect to the USB-C ports of your computers. These ports must support video transmission (DP Alt Mode or Thunderbolt 3/4/5). (Note: Use Thunderbolt 3 or higher cables.)
- **LAN IN (1G Ethernet)**: Connect to your network for wired internet access. Note: Network follows current channel

switching and cannot be used by two computers simultaneously.

- **USB 3.0 Ports (x2):** For connecting additional USB peripherals.
- **HDMI OUT A / HDMI OUT B:** Connect to your monitors. Supports up to 4K@60Hz resolution.

## 4. Setup Instructions

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Follow these steps to set up your CMSTEDCD KVM Docking Station:

1. **Power Connection:** Connect the DC12V Power Adapter to the KVM switch's DC12V input port and plug it into a power outlet. Turn on the KVM switch using the ON/OFF switch.
2. **Monitor Connection:** Connect your two monitors to the HDMI OUT A and HDMI OUT B ports on the KVM switch using HDMI cables.
3. **Computer Connection:**
  - Connect the USB-C PC1 IN port on the KVM switch to a USB-C port on your first computer (PC1) using a USB-C to USB-C cable. Ensure this USB-C port supports video transmission (DP Alt Mode or Thunderbolt).
  - Connect the USB-C PC2 IN port on the KVM switch to a USB-C port on your second computer (PC2) using a USB-C to USB-C cable. Ensure this USB-C port also supports video transmission.
4. **Peripheral Connection:**
  - Connect your keyboard, mouse, and other USB devices to the USB-A 3.2 ports on the front panel or the USB 3.0 ports on the rear panel.
  - If desired, connect an Ethernet cable from your router/modem to the LAN IN port on the KVM switch.
  - Insert SD or microSD cards into the respective slots if needed.
5. **Desktop Controller (Optional):** Connect the provided desktop controller to the Extend Control port for convenient remote switching.

# 2 Laptops Share 2 Monitors

Elevate your work efficiency or gaming experience

4K60Hz  
OUTA + OUTB



Image 3: Example setup showing two laptops connected to the KVM switch, sharing dual monitors and peripherals.

## 5. Operating Instructions

### Switching Between Computers:

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

- **Front Panel Button:** Press the 'Select' button on the front panel of the docking station to switch between PC1 and PC2. The LED indicator will show which computer is currently active.
- **Desktop Controller:** Press the button on the external desktop controller to switch between PC1 and PC2. This allows for switching even if the docking station is placed out of reach.

*Note: Keyboard shortcuts (hotkeys) are not supported for switching.*

### Display Modes:

The docking station supports various display configurations for Windows and macOS systems:

# Multiple Display Modes

## Windows



## macOS

⚠ The Macbook USB-C port does not support extended display(MST)



Image 4: Illustration of various display modes supported by the KVM switch for Windows and macOS.

- **Windows:** Supports dual screen docking mode (two monitors output different images) and dual screen mirroring mode (two monitors output the same image). Extended display (MST) is fully supported.
- **macOS:** Only supports mirroring mode. Due to macOS limitations, the USB-C port does not support extended display (MST).

## EDID Emulation:

The KVM switch features EDID emulation, which helps maintain display settings and prevents resolution and icon rearrangement when switching between computers or when a computer wakes from sleep. This ensures a consistent desktop experience.

## Dual HDMI Up to 4K@60Hz Output



Image 5: Comparison illustrating how EDID emulation prevents desktop rearrangement upon switching.

## 6. Compatibility

This KVM docking station requires that your laptop's USB-C port supports DisplayPort Alternate Mode (DP Alt Mode) or is a Thunderbolt 3/4/5 port. Please verify your laptop's specifications for compatibility.

Examples of compatible laptop series include:

- HP Laptops:** EliteBook 700/800, Omen, Elite Dragonfly, Elitebook Ultra series.
- Dell Laptops:** XPS, Latitude, Precision, Pro series.
- Lenovo Laptops:** ThinkPad, Yoga, ThinkBook, X1 series.
- Acer Laptops:** Swift, Concept D, Neo 2023+ series.
- Asus Laptops:** ROG, ProArt series.

For specific models or other brands, consult your laptop's manufacturer documentation.

## 7. Specifications

Feature	Detail
Model Number	SW524-Grey
Brand	CMSTEDCD
Connector Type	USB C
Operation Mode	Manual
Control Method	Push Button
Circuit Type	2-way
Number of Positions	4
Contact Material	Gold
Mounting Type	Rack Mount

Parcel Dimensions	20 x 14.6 x 5.6 cm
Item Weight	580 g

## 8. Troubleshooting

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

### Issue: USB devices not working

- Confirm that the USB-C to USB-C cables are properly connected between your computers and the KVM switch's PC IN ports.
- Verify that the USB ports on your computers are functioning correctly.
- Ensure that the latest USB drivers are installed on your computers.

### Issue: Display has no image

- Confirm that the KVM switch is powered on and the correct input channel (PC1 or PC2) is selected.
- Verify that the HDMI cables are securely connected from the KVM switch's HDMI OUT ports to your monitors.
- Ensure that the USB-C PC IN ports on the KVM switch are correctly connected to your computers' USB-C ports that support video transmission. Input A corresponds to OUT-A display, and Input B to OUT-B display.
- Use high-quality HDMI cables, preferably 3.3 feet or shorter. Conversion cables are generally not supported.
- If an adapter is required for your monitor setup, ensure it is an active adapter.
- Check your computer's display settings to ensure the monitors are detected and configured correctly.

## 9. Maintenance

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

- **Cleaning:** Use a soft, dry cloth to clean the exterior of the device. Avoid using liquid cleaners or aerosols, which may damage the unit.
- **Ventilation:** Ensure the device is placed in a well-ventilated area to prevent overheating. Do not block the ventilation slots.
- **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 avoid sharp bends or excessive tension, which can damage connectors or internal wiring.

## 10. Warranty and Support

Your CMSTEDCD KVM Docking Station comes with a **24-month warranty** from the date of purchase. During this period, if you encounter any product issues, please contact our customer support for assistance.

We provide comprehensive technical support and offer product replacement or refund services for eligible issues.

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

## Related Documents - SW524

<p><b>USER MANUAL</b></p> <p>Dual Monitor KVM Switch 2x2 4K60Hz USB2.0</p>	<p><a href="#"><b>Dual Monitor KVM Switch 2x2 4K60Hz USB2.0 User Manual</b></a></p> <p>User manual for the CMSTEDCD Dual Monitor KVM Switch 2x2, supporting 4K60Hz resolution and USB 2.0 connectivity. Includes safety instructions, features, specifications, panel descriptions, connection diagrams, and troubleshooting guide.</p>
<p><b>USER MANUAL</b></p> <p>Dual Monitor KVM Switch 2x2 8K60Hz USB3.0</p>	<p><a href="#"><b>Dual Monitor KVM Switch 2x2 8K60Hz USB3.0 User Manual</b></a></p> <p>User manual for the Dual Monitor KVM Switch 2x2, supporting 8K60Hz and USB 3.0. Includes safety instructions, features, specifications, package contents, connection diagrams, and troubleshooting.</p>