CMSTEDCD CMSTEDCD-US-SW532

CMSTEDCD USB C KVM Docking Station Switch User Manual

Model: CMSTEDCD-US-SW532

1. Introduction

This manual provides detailed instructions for setting up, operating, and troubleshooting your CMSTEDCD USB C KVM Docking Station Switch. This device allows two computers (one USB-C laptop and one PC) to share three monitors, a keyboard, mouse, and other peripherals through a single docking station.

2. Product Overview and Features

The CMSTEDCD KVM Docking Station is designed to streamline your workspace by enabling seamless switching between two host devices while sharing multiple displays and USB peripherals. It integrates KVM functionality with a comprehensive docking station.

Key Features:

- **Triple Display Output:** Supports up to 4K@60Hz on three monitors simultaneously.
- **Dual Display Output:** Supports up to 4K@120Hz on two DisplayPort monitors.
- **15-in-1 Docking Station:** Includes USB 3.0, USB-C data ports, DisplayPort, HDMI, Gigabit Ethernet, Micro SD/SD card slots.
- **Power Delivery:** Supports 60W fast charging for laptops (via PC1 IN) and 100W power supply to the KVM, with a dedicated 65W USB-C port for phone/tablet charging.
- **High-Speed Data Transfer:** USB 3.0 ports offer up to 5Gbps data transfer speed.
- **Easy Switching:** Instant switching between PC1 and PC2 via a wired desktop controller or button on the unit.
- **Plug and Play:** No software installation required.



Figure 2.1: Front and back view of the CMSTEDCD KVM Docking Station Switch, showing all ports and included cables.

3. Compatibility

Ensure your laptop's USB-C port supports DisplayPort Alternate Mode (DP Alt Mode) and data transmission, or that it has Thunderbolt 3/4/5 ports for full functionality.

Partial Compatibility List:

- **HP Laptops:** EliteBook 700/800 series, 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, refer to the detailed compatibility image or contact customer support.



Figure 3.1: Detailed compatibility list for various laptop brands and their supported series.

4. Setup Instructions

Follow these steps to connect your KVM Docking Station Switch:

1. **Power Connection:** Connect the included 120W power adapter to the DC20V/6A port on the KVM switch and plug it into a power outlet.
2. **Connect PC1 (USB-C Laptop):**
    - Connect the USB-C cable from your laptop (PC1) to the "PC1 IN (USB-C Thunderbolt 3)" port on the KVM switch. This port supports up to 100W PD for laptop charging.
3. **Connect PC2 (Desktop/Laptop):**
    - Connect the USB 3.0 cable from PC2 to the "PC2 IN (USB3.0)" port.
    - Connect the DisplayPort cables from PC2 to the "PC2 IN (DP)" ports.
    - Connect the HDMI cable from PC2 to the "PC2 IN (HDMI)" port.

4. **Connect Monitors:**
    - Connect your monitors to the "DP1 OUT", "DP2 OUT", and "HDMI3 OUT" ports on the KVM switch.
    - **Important Note:** Use high-quality video cables, preferably 3.3ft or shorter, to ensure optimal signal integrity, especially for 4K resolutions. Conversion cables are not supported. If an adapter is required, use an active adapter.
5. **Connect USB Peripherals:** Connect your keyboard, mouse, USB drives, and other USB 3.0 devices to the USB-A and USB-C data ports on the front panel.
6. **Connect Ethernet:** Connect an Ethernet cable from your router/modem to the "LAN IN" port on the KVM switch for wired network access.
7. **Optional: Wired Controller:** Connect the wired desktop controller to the "Control" port for convenient remote switching.

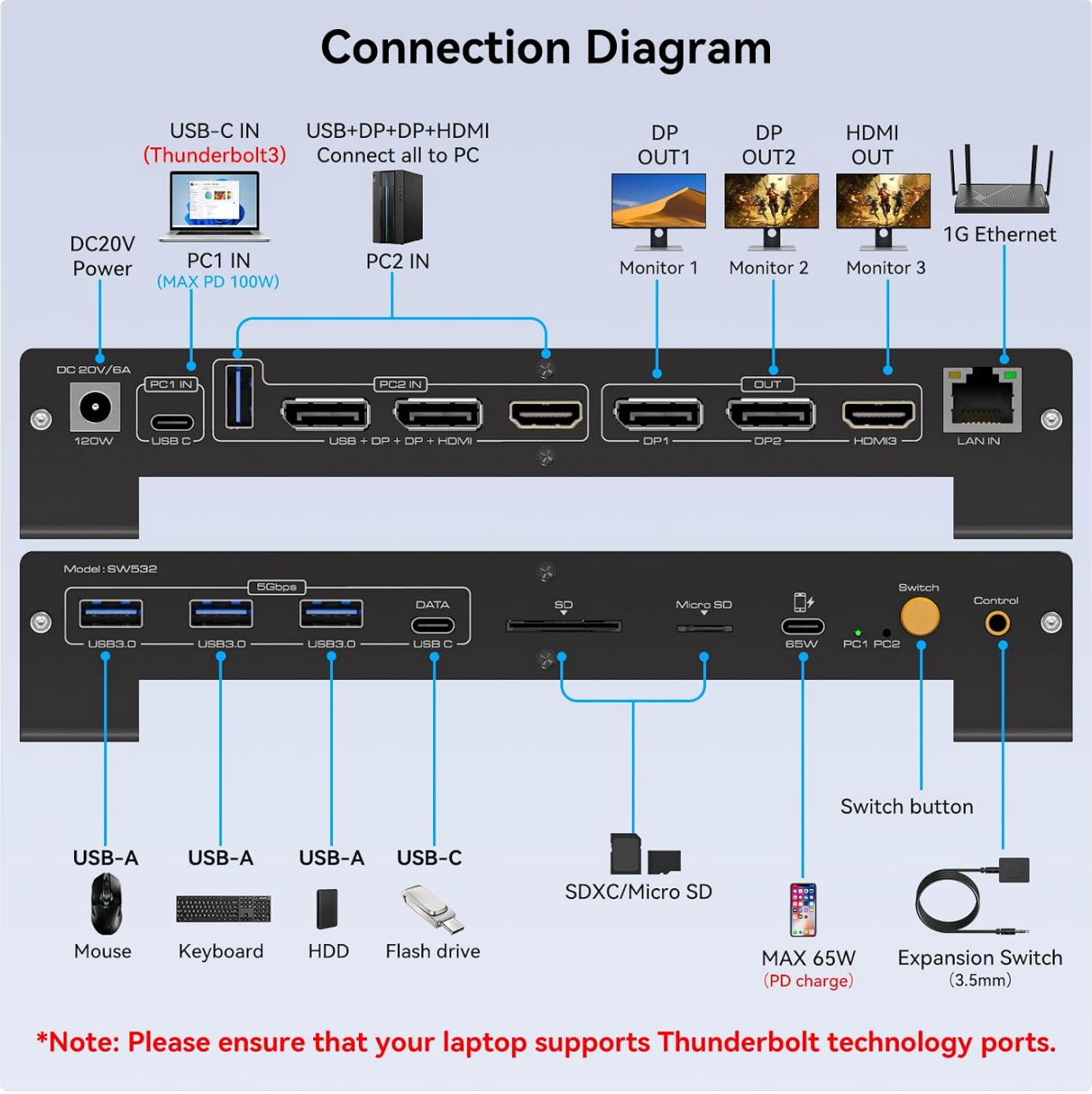


Figure 4.1: Detailed connection diagram illustrating how to connect all devices to the KVM switch.



Figure 4.2: The 120W power adapter provides stable power to the KVM switch and supports 100W PD charging for your laptop.

5. Operating Instructions

Switching Between Computers:

You can switch between PC1 and PC2 using either the button on the KVM unit or the wired desktop controller.

- **Button Switching:** Press the "Switch" button on the front panel of the KVM unit.
- **Wired Controller:** Press the button on the connected wired desktop controller.

The KVM switch will instantly switch all connected monitors and USB peripherals to the selected computer.

Display Modes:

The KVM switch supports various display configurations:

- **Triple 4K@60Hz Display:** Achieve 4K resolution at 60Hz across three monitors.
- **Dual 4K@120Hz Display:** For ultra-responsive performance, connect two DisplayPort monitors to achieve 4K resolution at

120Hz. This mode requires your laptop to support Thunderbolt 4.

Note on macOS: macOS only supports Mirror Display (SST) mode. Windows operating systems support both Extend Display (MST) and Mirror Display modes.



Figure 5.1: Example display configurations for Windows laptops (quad set) and desktops (triple set).

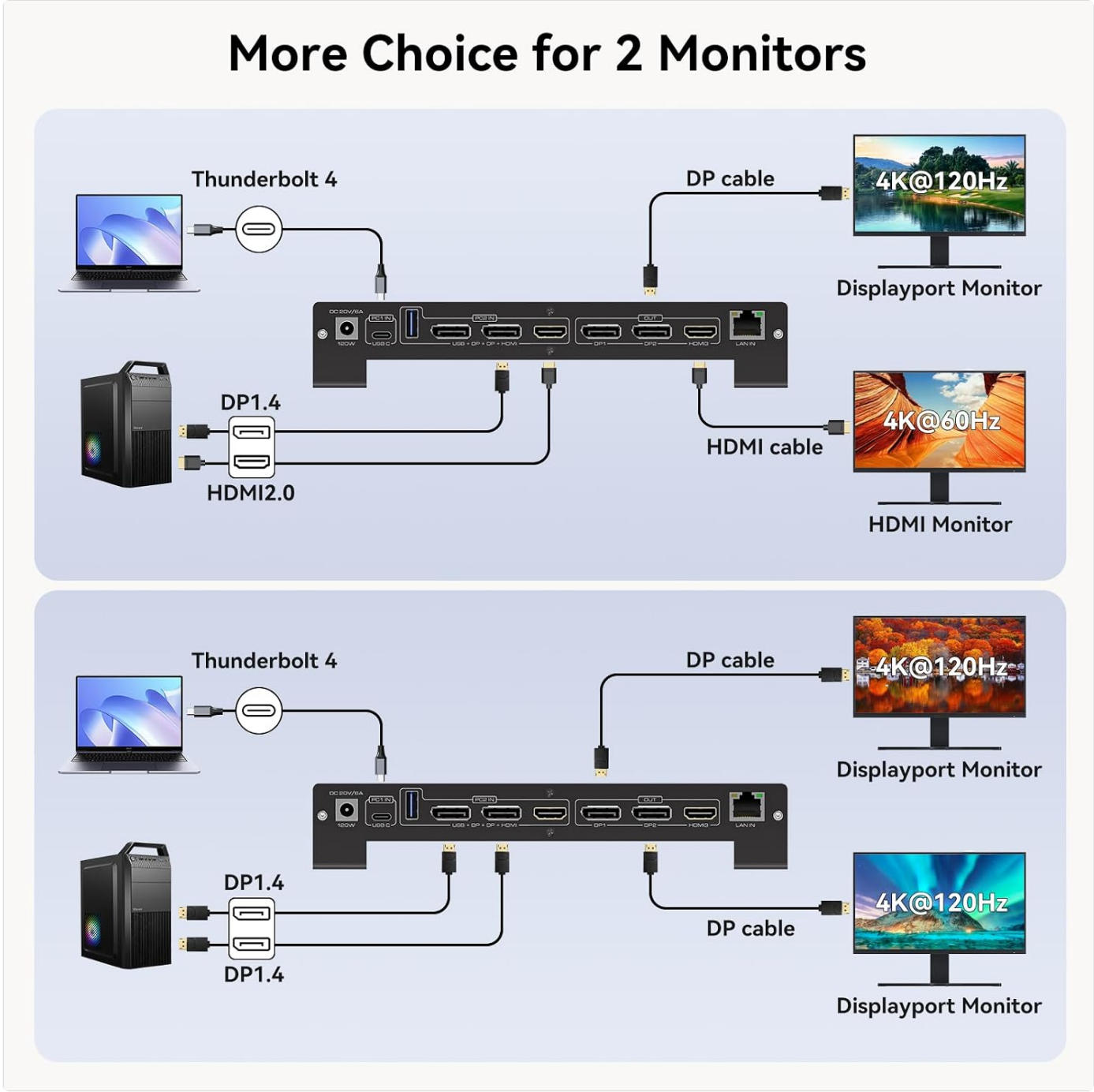


Figure 5.2: Options for two monitor setups, including 4K@120Hz via dual DisplayPort.



Figure 5.3: The wired controller allows for flexible placement and convenient switching.

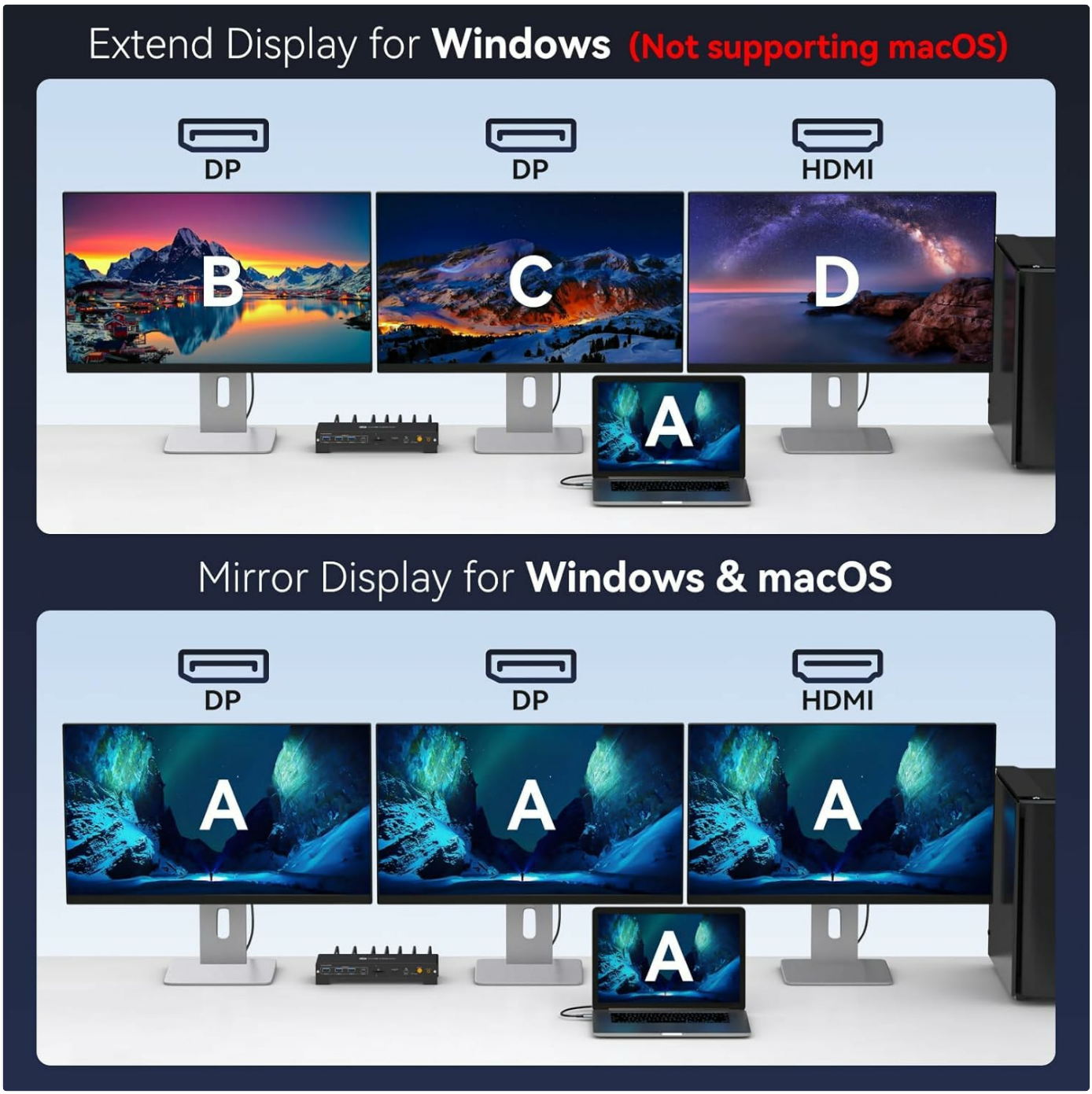


Figure 5.4: Comparison of Extend Display (Windows only) and Mirror Display (Windows & macOS) modes.



Figure 5.5: The KVM switch supports high-speed USB 3.0 data transfer up to 5Gbps.

6. Maintenance

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

- Keep the device in a dry, well-ventilated area, away from direct sunlight and extreme temperatures.
- Avoid placing heavy objects on top of the unit.
- Clean the exterior with a soft, dry cloth. Do not use liquid cleaners or aerosols.
- Ensure all cables are securely connected and not under strain.

7. Troubleshooting

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

- **USB Not Working:**

- Confirm the USB 3.0 cable is properly connected between the computer and the KVM.
- Verify that the computer's USB port is functioning correctly.
- Ensure the latest USB driver is installed on your computer.

- **Display Has No Image:**
  - Confirm that the switch and KVM video ports match the intended output.
  - Ensure PC to KVM input cables are connected correctly (e.g., Input A to OUT-A display, Input B to OUT-B display).
  - Use high-quality video cables, ideally 3.3ft or shorter. Conversion cables are not supported.
  - If an adapter is necessary, use an active adapter.

- **SD Card Reader Stopped Working:**
  - Ensure the card is fully inserted and compatible.
  - Try restarting the KVM switch and the connected computer.
  - Test with a different SD card to rule out card issues.

For further assistance, please contact CMSTEDCD customer support.

8. Specifications

Attribute	Value
Product Dimensions	8.66 x 3.35 x 1.57 inches (22 x 8.5 x 4 cm)
Item Weight	2.6 Pounds (1.18 kg)
Model Number	CMSTEDCD-US-SW532
Brand	CMSTEDCD
Color	Black
Compatible Devices	Desktop, Laptop
Total USB Ports	1 (USB-C for PC1 IN) + 3 USB-A 3.0 + 1 USB-C 3.0 (front panel)
Power Input	DC20V/6A (120W)
Laptop Charging (PC1 IN)	Max 100W PD
USB-C Output (Front)	Max 65W PD (for phone/tablet)
Ethernet Port	1000Mbps Gigabit Ethernet
Video Output	2x DisplayPort, 1x HDMI
Max Resolution (Triple Display)	4K@60Hz
Max Resolution (Dual Display)	4K@120Hz (via 2x DisplayPort, requires Thunderbolt 4)

9. What's in the Box

The package includes the following items:

- CMSTEDCD USB C KVM Docking Station Switch

- DC20V Power Adapter (120W)
- USB-C Cable
- USB 3.0 Cable
- Wired Desktop Controller
- User Manual

10. Product Video

Your browser does not support the video tag.

Video 10.1: An official product video demonstrating the features and connectivity of the HDMI & DP/USB-C KVM Switch for 3 Monitors. This video provides a visual guide to the product's capabilities, including port introductions, multi-display modes, and fast charging features.

11. Warranty and Support

CMSTEDCD is committed to providing high-quality products and comprehensive after-sales service. While specific warranty durations may vary, the manufacturer ensures a dedicated R&D team and support system to assist customers.
For any product inquiries, technical support, or warranty claims, please contact CMSTEDCD customer service through the platform where you purchased the product or visit the official CMSTEDCD store page for contact information.
Visit the CMSTEDCD Store on Amazon

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