CMSTEDCD CMSTEDCD-US-SW532

CMSTEDCD USB C KVM Docking Station Switch User Manual

Model: CMSTEDCD-US-SW532

Introduction

This manual provides comprehensive instructions for the CMSTEDCD USB C KVM Docking Station Switch, Model CMSTEDCD-US-SW532. This device is designed to allow two computers to share up to three monitors, a keyboard, mouse, and other USB peripherals. It also integrates power delivery and high-speed data transfer capabilities, streamlining your workspace for enhanced productivity.

Package Contents

- DC20V Power Adapter
- USB C Cable
- USB 3.0 Cable
- Desktop Controller
- User Manual

Product Overview

Front and Rear Panel Layout



This image displays the CMSTEDCD KVM Docking Station Switch from both front and rear perspectives, highlighting all input and output ports and controls.



This diagram illustrates the connection points on the KVM switch, detailing where to connect power, computers (PC1 IN, PC2 IN), monitors (DP OUT1, DP OUT2, HDMI OUT), Ethernet, and USB peripherals. It also shows the location of the switch button and signal LED.

Setup Instructions

1. **Power Connection:** Connect the included 120W DC20V power adapter to the "DC20V" port on the KVM switch.
2. **Monitor Connections:**
   - Connect your monitors to the KVM switch using DisplayPort (DP OUT1, DP OUT2) and HDMI (HDMI OUT) cables.
   - For optimal performance, use high-quality video cables. Conversion cables are not supported. If an adapter is required, use an active adapter.
3. **Computer 1 (PC1) Connection:**
   - Connect your first computer (e.g., laptop) to the "PC1 IN" USB-C port on the KVM switch using the provided USB-C cable.
   - **Important:** Ensure your laptop's USB-C port supports DisplayPort Alternate Mode (DP Alt Mode) and data transmission, or is a Thunderbolt 3/4/5 port.

4. **Computer 2 (PC2) Connection:**
    - Connect your second computer (e.g., desktop) to the "PC2 IN" port using the provided USB 3.0 cable and appropriate video cables (DP and/or HDMI). This port supports USB 3.0, DisplayPort, and HDMI inputs.
5. **Peripheral Connections:**
    - Connect your keyboard, mouse, and other USB devices (e.g., flash drives, external hard drives) to the USB 3.0 ports on the front panel of the KVM switch.
    - Connect the wired desktop controller to the "Control" port for easy switching.
6. **Ethernet Connection:** Connect an Ethernet cable to the "LAN IN" port for network access.
7. **Power On:** Power on both connected computers and the monitors.

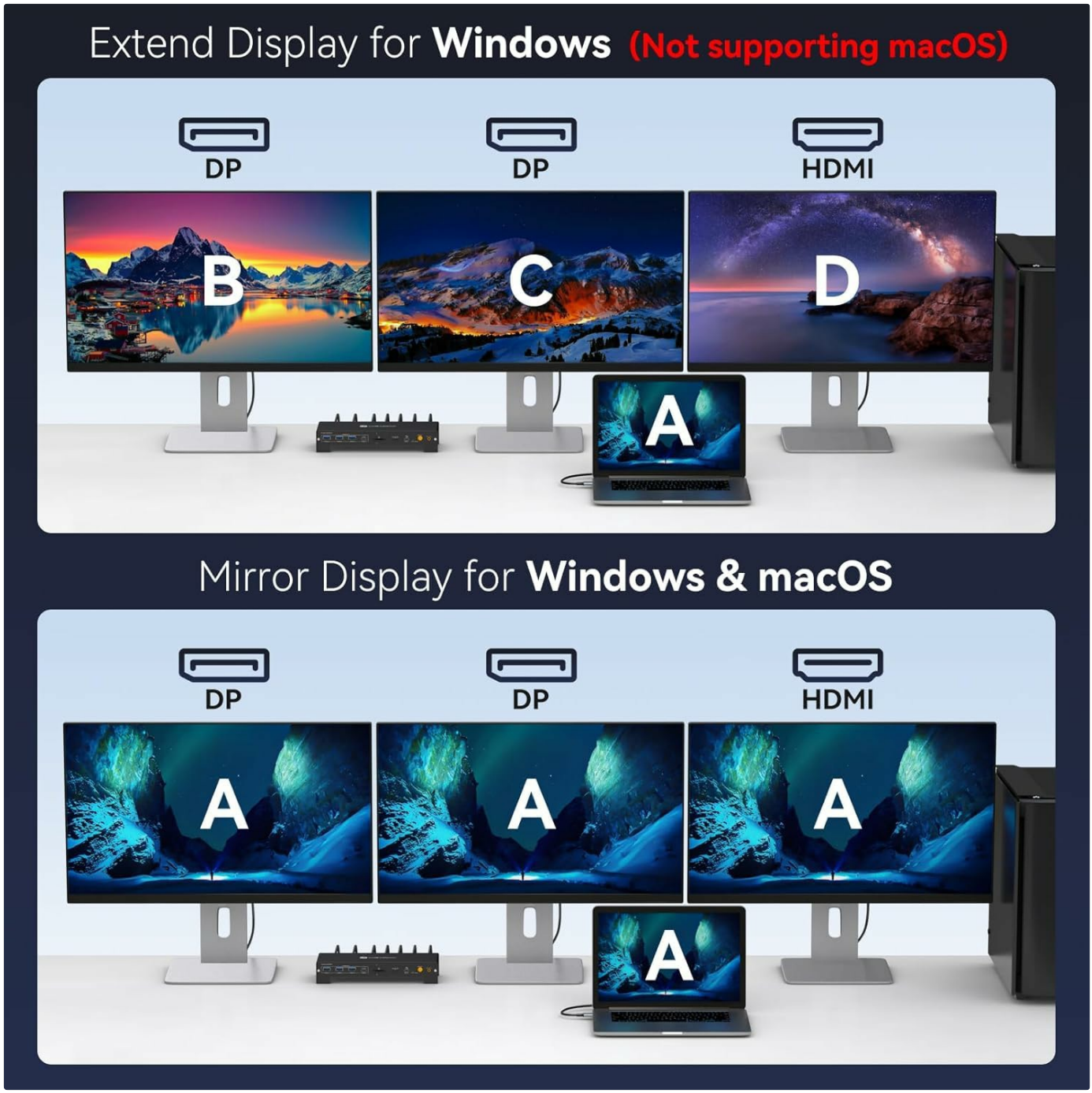


This image shows the KVM switch connected to a laptop and a smartphone, illustrating the 100W power delivery to the laptop and 65W charging to the phone via the included 120W power adapter.

Operating Instructions

Switching Between Computers

Use the wired desktop controller or the "Switch" button on the KVM unit to toggle between PC1 and PC2. A single press will switch the active computer.

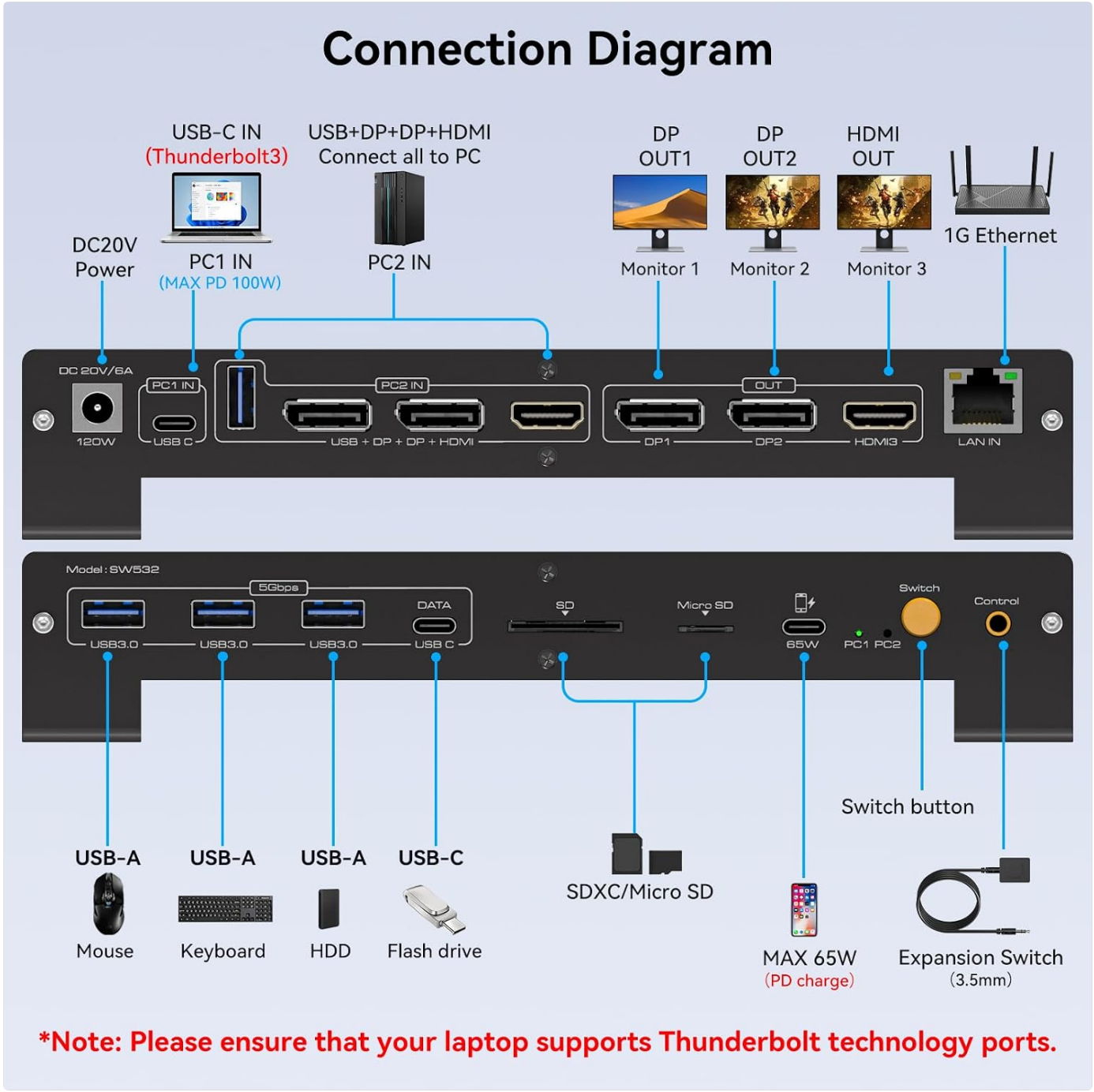


This image demonstrates the use of the wired desktop controller to switch between computers, showing it placed conveniently on the desk.

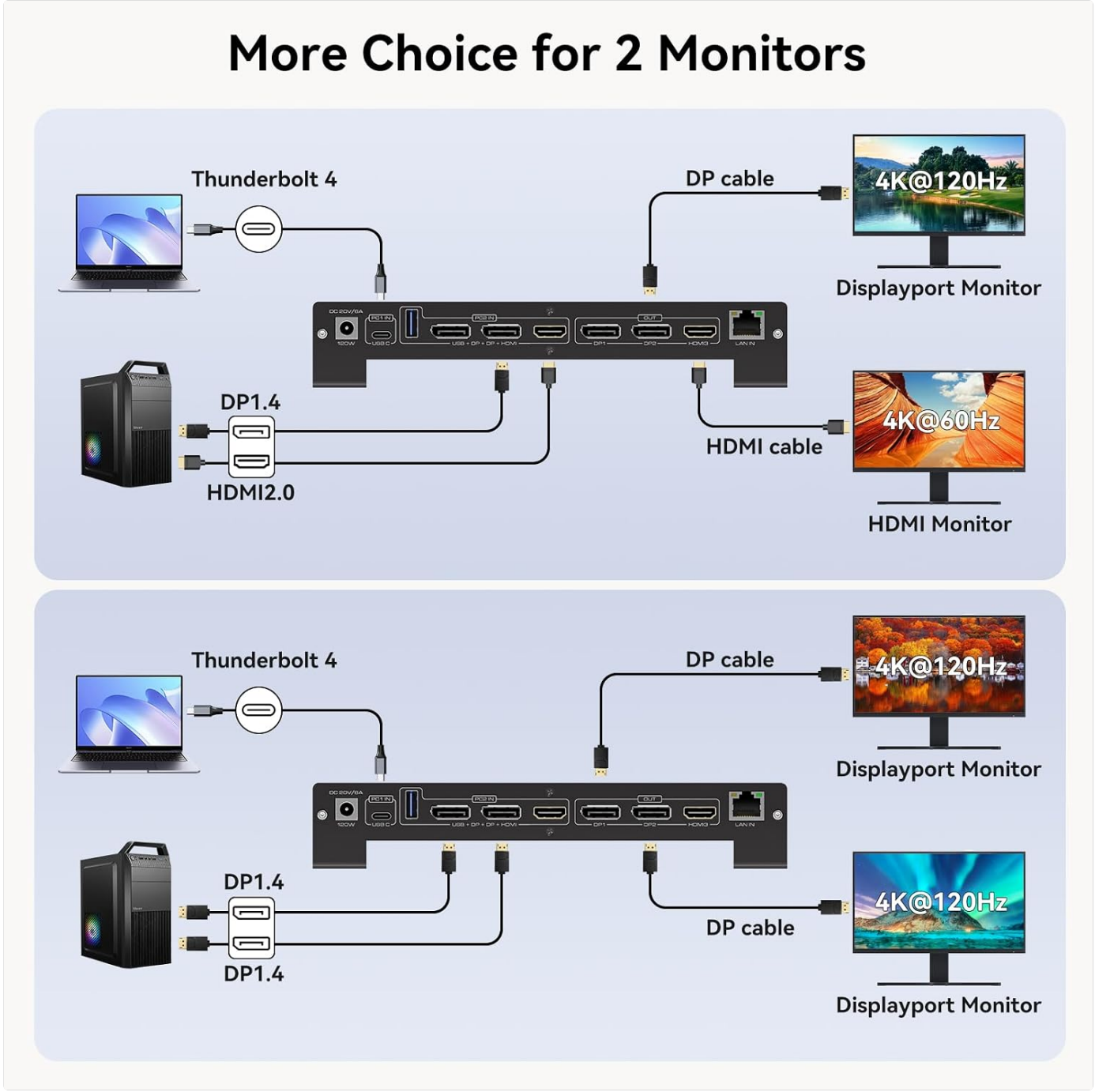
Display Modes

The KVM switch supports various display configurations:

- **Triple 4K@60Hz Display:** Connect three monitors for extended display at 4K resolution and 60Hz refresh rate.
- **Dual 4K@120Hz Display:** For smoother performance, connect two DisplayPort monitors to achieve 4K resolution at 120Hz. This requires your laptop to support Thunderbolt 4.



This image illustrates different monitor setups, including a quad display for a Windows laptop and a triple display for a desktop, demonstrating the KVM's multi-monitor capabilities.



This diagram shows two different dual monitor configurations: one with a DisplayPort and an HDMI monitor (4K@120Hz DP, 4K@60Hz HDMI), and another with two DisplayPort monitors (both 4K@120Hz), highlighting the need for Thunderbolt 4 for higher refresh rates.

Power Delivery and Charging

The KVM switch provides 100W Power Delivery (PD) pass-through charging for your connected laptop via the USB-C host port. Additionally, a dedicated 65W USB-C port is available for charging other devices like smartphones or tablets. The included 120W power adapter ensures stable power for all connected devices.

Data Transfer

Utilize the USB 3.0 and USB-C data ports for high-speed data transfer up to 5Gbps. The integrated Micro SD/SD card slots allow for convenient access to memory cards.



This image highlights the high-speed data transfer capabilities of the KVM switch, showing a USB 3.0 flash drive and SD/Micro SD cards connected, with a comparison of 5Gbps (USB 3.0) vs 480Mbps (USB 2.0).

Compatibility

The USB-C Host Port requires your laptop's USB-C port to support DisplayPort Alternate Mode (DP Alt Mode) and data transmission, or be a Thunderbolt 3/4/5 port.

Compatible Laptop Models (Partial List)



This image provides a list of partially compatible laptop models from various brands (HP, Dell, Lenovo, Acer, Asus, Microsoft, MSI, Samsung, Alienware) that support the necessary USB-C features for this KVM switch.

Display Configurations for Operating Systems

Windows (Extended Display - MST Mode)

For Windows operating systems, the KVM switch supports extended display (MST mode), allowing each monitor to show different content.

Windows & macOS (Mirror Display - SST Mode)

For both Windows and macOS, the KVM switch supports mirror display (SST mode), where all connected monitors display the same content.

Note: macOS does not support extended display (MST) mode through this KVM switch.



This image visually explains the difference between extended display (Windows only) and mirror display (Windows & macOS) modes when using the KVM switch with multiple monitors.

TROUBLESHOOTING

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 the computer.

Display Has No Image

- Confirm that the switch and KVM video ports match the correct inputs/outputs.
- Verify that 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 (e.g., 3.3ft). Conversion cables are not supported.
- If an adapter is required, use an active adapter.

General Display Issues

- If experiencing green fuzz or artifacts at higher refresh rates, ensure both devices are outputting at a compatible refresh rate (e.g., 60Hz for office work).
- If monitors sporadically show display or not all three monitors work, re-plug the laptop or check all cable connections.
- Ensure your laptop's USB-C port supports Thunderbolt 4 for Dual 4K@120Hz display.

SPECIFICATIONS

Feature	Detail
Product Dimensions	2.68 x 1.5 x 5.91 inches; 2.6 Pounds
Model Number	CMSTEDCD-US-SW532
Manufacturer	CMSTEDCD
Operation Mode	ON-OFF
Current Rating	1 Amps
Operating Voltage	20 Volts (DC)
Contact Type	Normally Open
Connector Type	Plug In
Terminal	Dp Hdmi Usb C
Circuit Type	2-way
Contact Material	Metal
Power Input	DC20V/6A (120W)
Laptop Charging (PD)	Up to 100W
Device Charging (USB-C)	Up to 65W
Data Transfer Speed	Up to 5Gbps (USB 3.0)
Video Output	Triple 4K@60Hz, Dual 4K@120Hz (DP)
Ethernet	1000Mbps

MAINTENANCE

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

- Keep the device in a dry, well-ventilated area, away from direct sunlight and extreme temperatures.
- Avoid exposing the device to water or other liquids.
- Clean the exterior with a soft, dry cloth. Do not use harsh chemicals or abrasive cleaners.
- Ensure all cables are securely connected and not under strain.
- Periodically check for firmware updates from the manufacturer's website, if available.

Warranty and Support

CMSTEDCD products are designed for reliability and performance. For warranty information or technical support, please refer to the contact details provided with your purchase documentation or visit the official CMSTEDCD website.
For common issues, please refer to the Troubleshooting section of this manual.
Contact Email: vphesus@163.com

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