



## KM590 2-Port USB-C KVM Switch with Dual HDMI Docking Station

KM590

User Manual

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### Features

- USB-C KVM switch allows control 2 laptops with 2 external screens
- Integrated USB-C docking station with Dual HDMI, USB Ports, Ethernet, and PD charging
- Two HDMI output ports for connecting two monitors simultaneously
- Supports MST (Multi-Stream Transport) for two extended screens
- 7 USB 2.0 ports for connecting mouse, keyboard, printer and more
- 3.5mm audio jack for connecting headphones or speakers
- Integrated Ethernet Switch, RJ45 port enables both computers to access internet simultaneously
- Two PD charging ports allow charging for both laptops at the same time
- HDMI 2.0 compliant, support video resolution up to 4K
- Supports resolutions up to 4K@60Hz when a single display is connected
- Supports resolutions up to 4K@30Hz when two displays are connected
- Easy to use by pressing the toggle button on the KVM switch
- Self-powered via connected laptop, no external power required
- Plug and play, hot swappable and no driver software required
- Durable aluminium alloy casing, also efficiently dissipate heat
- LED light indicating the active computer and PD charging

### System Requirements

- Laptop or PC with full functional USB-C port that supports DP Alt Mode (DisplayPort Alternate Mode)
- Laptop with Thunderbolt 3, Thunderbolt 4, USB4 port
- macOS does not support MST technology and will only support one extended screen



#### MST (Multi Stream Transport)

MST is supported by Windows only, macOS only can support one extended screen

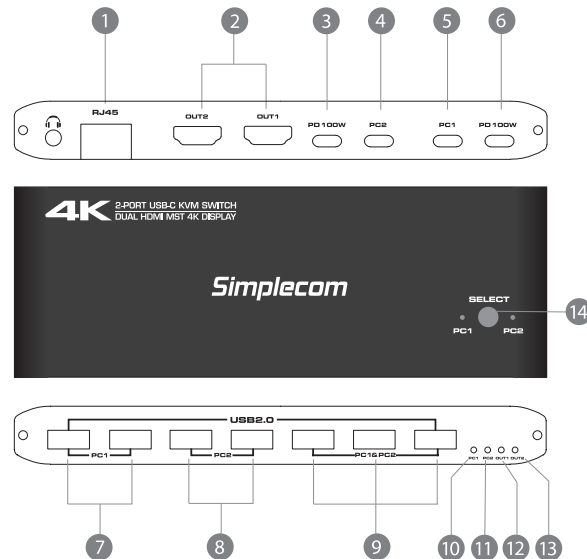
### Important Note

- Please confirm the USB-C port on your laptop or tablet supports DisplayPort Alternate Mode (DP Alt Mode). Some USB-C ports only work for charging or data transfer, no video output function.
- Most USB-C ports on desktop PCs are for data transfer only and do not support video output.
- Self-powered via connected laptop, no external power required.
- Two USB-C PD ports are always enabled to charge both laptops simultaneously. Pressing the "SELECT" button will not affect the PD charging status of both computers.
- RJ45 port features an integrated Ethernet switch, enabling both computers to access the internet simultaneously. Pressing the "SELECT" button will not affect the network connection of both computers.

### How to Connect

1. Connect front 3x USB downstream ports labelled "PC1&PC2" to your USB peripherals, such as mouse, keyboard, printer.  
**Note:** that USB ports labelled "PC1" or "PC2" are not switchable and are always connected to the corresponding computer.
2. Connect rear 2x USB-C upstream ports (PC1 and PC2) to your laptops with USB-C cables.  
**Note:** Please use the supplied USB4-compliant USB-C cables, other lower spec USB-C cables may not support video transmission.
3. Connect rear 2x HDMI output ports to two monitors.
4. Connect rear 2x USB-C PD ports (2x PD100W) to PD Chargers of your laptops. (Two PD ports are only used for charging laptops)
5. To switch between PC1 and PC2, press the "SELECT" button, USB-C upstream ports will be switched.  
**Note:** The two USB-C PD ports and RJ45 network port remain active for both computers and are not affected by the "SELECT" button.

### Overview



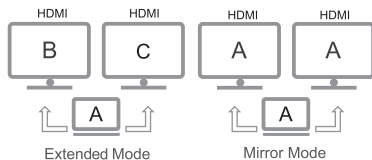
- |  |   |
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| ① RJ45 Ethernet Port                   | ⑧ USB Ports for PC2 (Always connected)  |
| ② Dual HDMI Outputs                    | ⑨ USB Ports for PC1 or PC2 (Switchable) |
| ③ PD Port for PC2 (to USB-C Charger)   | ⑩ PD Charging Indicator for PC1         |
| ④ USB-C Input (to PC2)                 | ⑪ PD Charging Indicator for PC2         |
| ⑤ USB-C Input (to PC1)                 | ⑫ HDMI Output 1 Indicator               |
| ⑥ PD Port for PC1 (to USB-C Charger)   | ⑬ HDMI Output 2 Indicator               |
| ⑦ USB Ports for PC1 (Always connected) | ⑭ Switch Button                         |

## Specifications

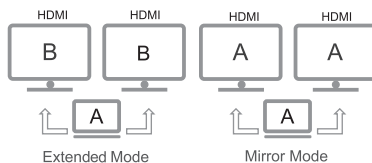
- USB Upstream Ports: USB-C x2 (Connect to PC1 and PC2)
- USB Downstream Ports: USB 2.0 x7 (3x Switchable USB Ports, 2x USB for PC1, 2x USB for PC2)
- USB Max Bandwidth: HighSpeed 480Mbps
- PD Charing Port: USB-C x2 (up to 100W on each port)
- Video Output: HDMI 2.0 x2
- HDMI Max Bandwidth: 18Gbps
- Video Resolution: up to 4K@60Hz (Single HDMI), 4K@30Hz (Dual HDMI)
- RJ45 Port: Fast Ethernet (10/100 Mbps), with Integrated Ethernet Switch
- Audio Output: 3.5mm audio jack (sound output only)
- Operating Temperature: 0 to 50°C
- Dimension (L x W x H): 17.6 x 6.3 x 2.1CM
- Operating System Support: Windows, MacOS, Chrome OS

## Display Mode

Windows supports two Extended Outputs (B and C)



MacOS supports one Extended Output (B)



## FAQ

### What do I need to know before using this KVM switch?

Please confirm the USB-C port on your device supports DisplayPort Alternate Mode (DP Alt Mode). Some USB-C ports only work for charging or data transfer, no video output function.

### What is DP Alt Mode?

At its most basic level, DP Alt Mode means that device manufacturers would no longer need to put dedicated display ports (whether DisplayPort, VGA, or HDMI) on their devices, and could instead fill out their devices entirely with USB port for all digital I/O.

### What is Multi Stream Transport (MST)?

MST allows multiple displays to be connected to a single DP port or USB-C with DP Alt Mode. It does this by combining multiple video signals into a single stream (a process known as multiplexing) and sending it to a MST enabled device that unbundles the signal.

### How to enable Extend Screen Mode on Windows?

You can right click Desktop and click *"Display settings"* option from menu, or click *Start > Settings > System > Display*. Then select *"Extend these displays"*



### I'm using my own USB-C cable, but there's no display output.

Please check if your USB-C cable is USB4-compliant. The supplied USB-C cables are USB4-compliant, while lower-spec cables may not support video transmission.

## 3.5mm Audio Jack Setting

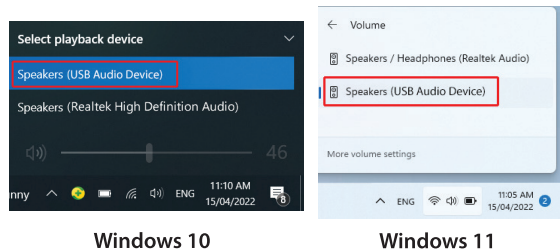
When you connect KVM switch to your laptop for the first time, the system may switch the default sound output to the 3.5mm audio jack on KM590, you can switch back to computer speaker if you don't need sound output from the 3.5mm jack.

### How to select default sound output on Windows?

**Windows 10:** Click *"Sound"* icon in system tray, then click *"Select playback device"* to select default playback device.

**Windows 11:** Click *"Sound"* icon in system tray, then click *"Manage audio device"* icon next to volume control, then select default playback device.

The 3.5mm audio output will show *"USB Audio Device"* on Windows.



## Warranty

1 Year limited Warranty. Our goods come with guarantees that cannot be excluded under the Australian Consumer Law. You are entitled to a replacement or refund for a major failure and for compensation for any other reasonably foreseeable loss or damage. You are also entitled to have the goods repaired or replaced if the goods fail to be of acceptable quality and the failure does not amount to a major failure.

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