

USB-C MST KVM Switch

User Manual

2-Port Dual & Quad Monitor
Up to 8K Resolution

I. Applicable Models:

2 PCs in (1x USB-C per PC) → 2 Monitors out.

2 PCs in (2x USB-C per PC) → 4 Monitors out.



Dual Monitor USB C MST KVM switches



Quad Monitor USB C MST KVM switches

II. Product Description:

The dual monitor KVM switches are designed to control 2 computers via a single USB-C cable per PC that supports DP Alt Mode and MST.

The quad monitor KVM switches are designed to control 2 computers or laptops that support 4 video outputs (via 2 USB-C ports with MST support) and other applicable devices from one set of keyboard and mouse, with 4 monitor outputs for extended or duplicated display.

Mouse and keyboard can be used alternately between two monitors, operating two interface files respectively. It is suitable for high resolution display and monitoring, multimedia design, multimedia post-production and video editing etc. It provides users with great convenience.

III. Product Features:

- Control 2 USB-C computers using a single set of keyboard, mouse, and multiple monitors.
- Supported Resolutions:
1080p, 2560×1440@160Hz, 4K@144Hz, 5K@60Hz (DSC), 8K@30Hz (DSC). In MST mode, the maximum resolution is limited to 4K@60Hz for each monitor when using dual-screen or quad-screen setups.
Note: Higher resolutions (like dual 4K) require the host to support DP 1.4 and DSC.
- Built-in EDID emulation ensures stable and optimal display resolution
- Supports Multi-Stream Transport (MST) for multiple independent displays from a single USB-C connection
- Supports up to 2 or 4 extended displays depending on the model
- Efficient Single/Dual Cable Link:
Dual Monitor: Each computer connects via a single USB-C cable to drive two independent monitors.
Quad Monitor: Each computer connects via two USB-C cables to drive four independent monitors.
- 4 switching methods:
 - Front panel button
 - Wired remote control
 - Keyboard hotkeys
 - Mouse switching
- MST Technology: Fully supports Multi-Stream Transport (MST) to extend your desktop across multiple displays using minimal cabling.
- System Requirement: Requires host devices to support DisplayPort Alternate Mode and MST for extended display functionality.
- Multi-platform compatibility:
Windows 10 / MacOS 15 or later,
compatible with Thunderbolt-enabled devices
- Supports plug and play (no driver required)
- Auto detection:
Automatically switches to the next active computer when one is powered off (disabled by default, can be enabled via hotkey)
- Memory function:
Remembers last active port after power loss
- Auto scan mode:
Monitor connected computers with adjustable interval (8 - 999 seconds)
- 4× USB 3.0 ports with data transfer rates up to 5Gbps
- Independent 3.5mm audio and microphone output

IV. Data sheet

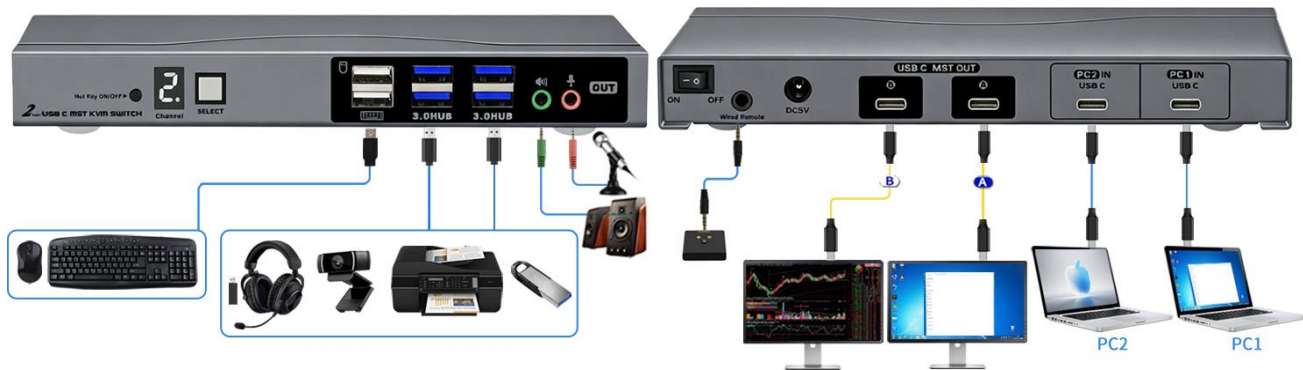
ITEM \ MODEL		Dual Monitor KVM	Quad Monitor KVM
KVM output (Console)	Keyboard	1×USB Type A F	
	Monitor	2× USB Type C F	4× USB Type C F
	Mouse	1×USB Type A F	
	Stereo 3.5	3(one of them is for wired remote)	
	USB 3.0 Type A F	4	
Computer (Input)	USB Type C	2	4
DC Socket		DC5.5x2.5MM	
Push button		1	
Digital Display		1	
Resolution		3840x2160@144Hz, 5120x2880@60Hz (DSC), 8K@30Hz (DSC)	
Scan interval		8 ~ 999 Seconds	
Power Consumption		5V DC, 3.0W	5V DC, 4.5W
Environment	Operating Temperature	0-50°C	
	Storage Temperature	-20-60°C	
	Humidity	0-80%RH, Non-condensing	
Physical Dimensions	Housing	Metal	
	Dimensions(L×W×H)	205 x 75 x 25 mm	200 x 75 x 42 mm

V. Setup Instructions:

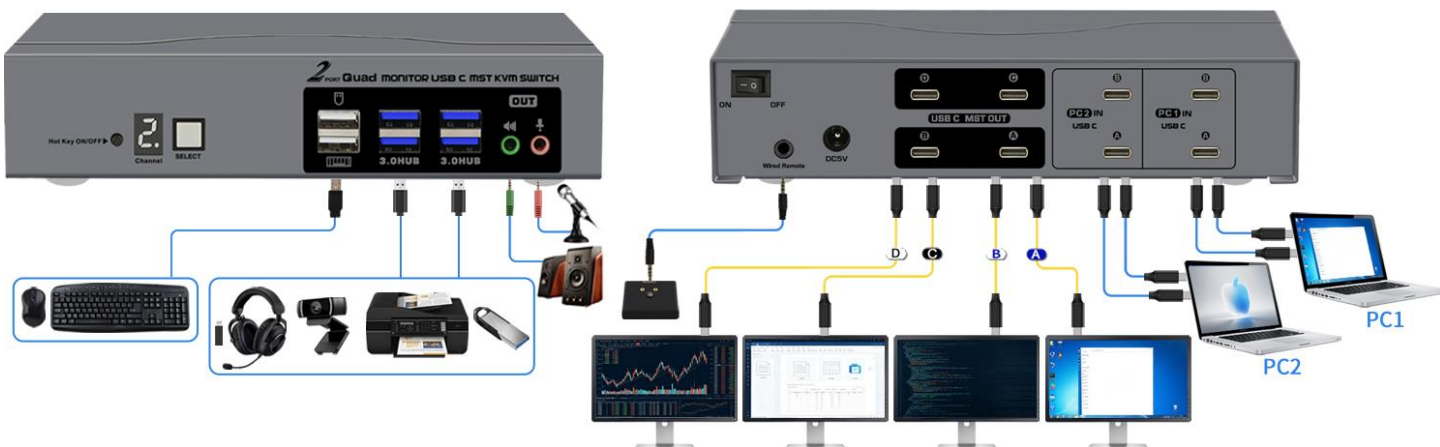
1. Power off all devices.
 2. Connect each computer to the corresponding USB-C input port on the KVM switch using the included USB-C cables.
- For 624T-MST, connect both USB-C cables (Input A and Input B) from each PC to the KVM to ensure all 4 monitor outputs are active.
3. Connect your keyboard and mouse to the dedicated Keyboard and Mouse ports. If gaming or mechanical keyboards exhibit lag or limited functionality, please connect them to the USB 3.0 ports instead. Connect your monitor(s) to the KVM switch.
 4. Connect your monitor(s) to the KVM.
 5. Connect speakers or a microphone if needed.
 6. Connect the power adapter.
 7. Power on the devices in the following order:
KVM switch → Monitor(s) → Computers
 8. Configure your display settings (Extend or Duplicate mode) as needed.

VI. Connection Diagram:

I. Dual Monitor USB C MST KVM switch



II. Quad monitor USB C MST KVM switch



For Quad Monitor:

- To output to 4 monitors, you must connect both USB-C ports (e.g., PC1 Input A and PC1 Input B) from your computer to the KVM.
- Each USB-C input on the KVM manages two of the four monitor outputs via MST.

Display Note:

- MST (Multi-Stream Transport) is supported only on Windows systems.
- MacOS does not support MST and can only display mirrored content on all connected monitors.
- Your computer's USB-C port must support DisplayPort Alternate Mode (DP Alt Mode) or Thunderbolt.
- To use multiple independent displays, your computer and operating system must support MST.
- The maximum supported resolution and refresh rate depend on your computer's graphics capability and available bandwidth.
- If only one monitor is detected or all monitors display the same content, verify that MST is supported and enabled on your system.

VII. Graphics card display settings

Take Windows 10 as an example: Press the Windows key + P on your keyboard, as shown in the

image . A display options menu will appear.

Select “Duplicate” or “Extend” to display content on both monitors.



Warm Tip: macOS system only supports Copy Mode and does not support Extend Mode. Please refer to the schematic diagram below:



VIII. Switch Modes:

➤ Button Switch:

Press the button on the front panel to switch between connected computers.



➤ Wired Remote Switching:

Connect the wired remote control to the KVM, then press the button on the remote to switch between computers.



➤ Mouse Switching (Disabled by default) :

After enabling the hotkey function: Double-click the mouse scroll wheel within 1 second to switch between computers.



➤ Keyboard Hotkey Switching(Disabled by default):

Press the “Hotkey ON/OFF” button on the front panel to enable this function. Once enabled: Press the Right Ctrl key twice to switch between computers.



IX. Hotkey & Mouse Switching Control:

The hotkey function can be enabled or disabled as needed. When the hotkey function is enabled, the LED indicator (dot) on the display is lit.

1. Disable Mouse Switching:

Press Right Ctrl twice, then press M, and then Enter

- Mouse switching will be disabled
- The mouse port will function as a standard USB 2.0 port
- The LED indicator remains ON

2. Disable Keyboard & Mouse Hotkeys:

Press Right Ctrl twice, then press K, and then Enter.

- Both keyboard hotkey and mouse switching functions will be disabled
- The keyboard and mouse ports will function as standard USB 2.0 ports
- The LED indicator will turn OFF

3. Restore Hotkey Function:

Press the “Hotkey ON/OFF” button on the front panel.

- The LED indicator will turn ON
- Hotkey and mouse switching functions will be enabled

X. Hotkey Setting:

The default hotkey is the **Right Ctrl** key (the Ctrl key located on the right side of the keyboard). If the Right Ctrl key conflicts with other keyboard shortcuts, you can change the hotkey to **Num Lock** or **Scroll Lock**.



How to Change the Hotkey:

Double click the right 【Ctrl】 → 【Num lock】 → 【Enter】	Hotkey change to 【Num lock】
Double click the right 【Ctrl】 → left 【Ctrl】 → 【Enter】	Hotkey change to the left 【Ctrl】
Double click the right 【Ctrl】 → 【Scroll Lock】 → 【Enter】	Hotkey change to 【Scroll Lock】
If the hotkey is changed to 【Scroll Lock】 , You want to change it to the left 【Ctrl】 , Then double click 【Scroll Lock】 → the left 【Ctrl】 → 【Enter】	

Example: If the current hotkey is Scroll Lock and you want to change it to the Left Ctrl key, press: Scroll Lock twice → Left Ctrl → Enter

The hotkey will then be changed to Left Ctrl

XI. Keyboard Hotkey Operations:

Hotkey Command	Function Description
[Right Ctrl] → [Right Ctrl]	Switch PC: Toggle between PC1 and PC2
[Right Ctrl] → [Right Ctrl] → [S] → [Enter]	Auto Scan: Turn the Auto Scan function ON or OFF
[Right Ctrl] → [Right Ctrl] → [S] → [N] → [Enter]	Scan Interval: Set interval (8 - 999s, Replace N with seconds)
[Right Ctrl] → [Right Ctrl] → [T] → [Enter]	Auto Detection: Turn signal detection ON or OFF
[Right Ctrl] → [Right Ctrl] → [R] → [Enter]	KVM Reset: Reset to resolve keyboard/mouse issues
[Right Ctrl] → [Right Ctrl] → [Esc] (x3) → [Enter]	Factory Reset: Restore settings to default
[Right Ctrl] → [Right Ctrl] → [Num Lock] → [Enter]	Change the hotkey trigger key to [Num Lock]
[Right Ctrl] → [Right Ctrl] → [Left Ctrl] → [Enter]	Change the hotkey trigger key to [Left Ctrl]
[Right Ctrl] → [Right Ctrl] → [Scroll Lock] → [Enter]	Change the hotkey trigger key to [Scroll Lock]
If the current hotkey is Scroll Lock: Scroll Lock + Scroll Lock+ [Left Ctrl] + Enter	Change the hotkey trigger key from Scroll lock to [left Ctrl]

Notes:

1. N represents the Auto Scan interval and can be set from 8 to 999 seconds.
2. For wireless keyboards and mice, please connect the USB receiver (2.4 GHz or Bluetooth dongle) to the dedicated USB Keyboard port on the KVM switch for optimal compatibility and performance.

XII. Box Contents

- USB-C KVM Switch
- USB-C cables (for computer connections)
- Wired remote control
- Power adapter
- User manual

XIII. FAQ & Trouble Shooting

Q1. Why can't I get extended display or only one monitor is working?

- Verify that your computer's USB-C port supports DisplayPort Alternate Mode (DP Alt Mode) or Thunderbolt.
- Verify by connecting two monitors directly to your computer
- Ensure your display mode is set to "Extend" instead of "Duplicate"

Q2. No display or display issues:

- Check all cable connections or try different cables
- For best performance, Avoid using adapters on both the input (computer) and output (monitor) ends.
- Make sure the resolution and refresh rate are within supported limits
- Try lowering the resolution or refresh rate
- If the issue occurs after working normally: Press Right Ctrl twice, then press ESC three times, and press Enter to reset the KVM (Hotkey must be enabled and keyboard connected to the keyboard port)

Q3: Keyboard or mouse is not working:

- Ensure the USB connections are properly connected to the KVM and computers
- Make sure the KVM is powered on
- If the issue occurs after some time: Press Right Ctrl twice, then press ESC three times, then press Enter to reset
- Refer to Q4 for gaming or special keyboards/mice

Q4. My gaming mouse or mechanical keyboard is not working properly. What should I do?

Some gaming or special keyboards/mice may not work properly with the dedicated keyboard and mouse ports. Try the following:

- Press the "Hotkey ON/OFF" button to disable the hotkey function
- The keyboard and mouse ports will function as standard USB ports
- Alternatively, connect your devices to the USB 3.0 ports
- Use the wired remote or front panel button to switch between computers

Q5. How can I disable mouse switching?

- Connect your mouse to one of the USB 3.0 ports OR
- Press Right Ctrl twice, then press M, then press Enter

Q6. Why are all monitors showing the same content instead of extended desktops?

- Make sure your display mode is set to “Extend” rather than “Duplicate”.
In Windows, press the Windows key + P and select “Extend”.
- MST (Multi-Stream Transport) is supported only on Windows systems.
- Ensure you are using ‘Full-Featured’ USB-C cables. Standard charging cables do not support MST video signals.
- macOS does not support MST and supports mirror mode only, so all connected monitors will display the same content.
- Ensure your computer’s USB-C port supports DisplayPort Alternate Mode (DP Alt Mode) or Thunderbolt.
- If the issue persists, connect the monitors directly to your computer to verify that MST and extended display are supported by your system.

Q7. I have other issues not listed above:

Please contact our support team. We will respond within 24 hours on business days.

IMPORTANT FOR macOS USERS: > macOS does not support MST technology. When connected to a Mac, all external monitors will show the **same content (Mirror Mode only)**. This is a limitation of the Apple operating system, not the KVM switch.