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> CKLau 2 Port Triple Monitor KVM Switch (Model: CKLau-923Hua-4) User Manual

CKLau CKLau-923Hua-4

CKLau 2 Port Triple Monitor KVM Switch User Manual

Model: CKLau-923Hua-4

INTRODUCTION

This manual provides detailed instructions for the installation, operation, and troubleshooting of your CKLau 2 Port USB 3.0 Triple Monitor KVM Switch. This device allows two computers or laptops to share one set of keyboard and mouse, three monitors, audio, microphone, and two USB 3.0 peripheral devices. It supports HDMI 2.1, HDCP 2.2, and HDR 10, with resolutions up to 8K@60Hz or 4K@144Hz.

SAFETY INFORMATION

- Ensure all devices are powered off before connecting or disconnecting cables.
- Use only the provided DC 5V 2A power adapter.
- Avoid exposing the device to moisture or extreme temperatures.
- Do not attempt to open or repair the device yourself. Refer to qualified personnel for service.

PACKAGE CONTENTS

- 1 x CKLau 2 Port HDMI KVM Switch
- 6 x HDMI Cables
- 2 x USB 3.0 Cables
- 1 x DC 5V 2A Power Adapter
- 1 x User Manual (this document)
- 1 x Wired Remote Push Button Switch



Package



Image: Package contents of the CKLau KVM Switch.

PRODUCT OVERVIEW

Front Panel

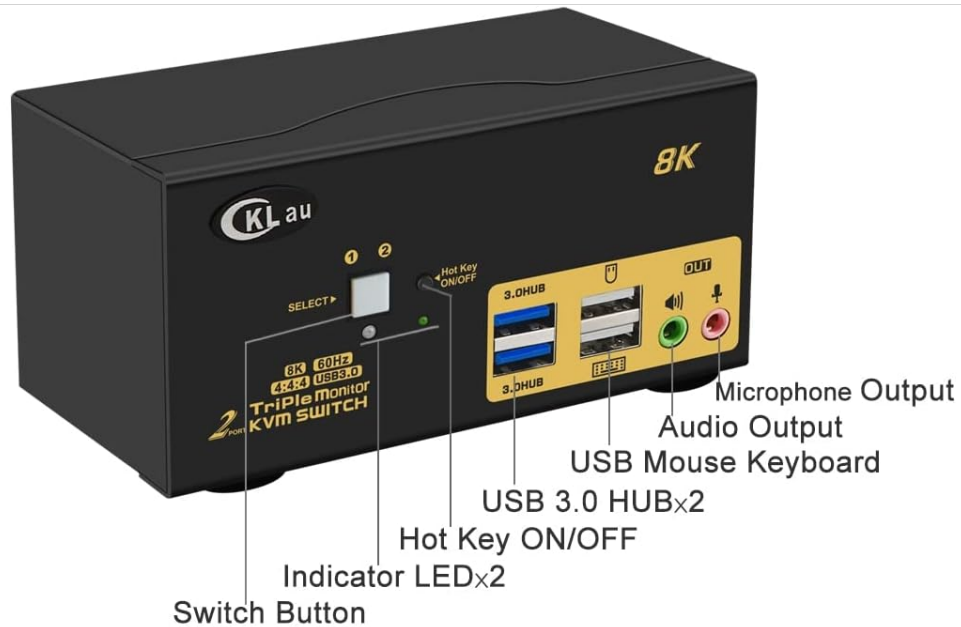
- **SELECT Button:** Manual switch button to change between connected computers.
- **Hot Key ON/OFF Switch:** Enables or disables keyboard hotkey switching.
- **Indicator LEDs:** Show active computer and hotkey status.
- **USB 3.0 HUB (x2):** For connecting USB 3.0 peripheral devices.
- **USB Mouse Port:** Dedicated USB port for mouse connection.
- **USB Keyboard Port:** Dedicated USB port for keyboard connection.
- **Audio Output:** 3.5mm jack for speakers or headphones.
- **Microphone Input:** 3.5mm jack for microphone.

Rear Panel

- **PC1 HDMI Input (x3):** Connects to the three HDMI outputs of Computer 1.
- **PC1 USB Input:** Connects to a USB 3.0 port on Computer 1.
- **PC2 HDMI Input (x3):** Connects to the three HDMI outputs of Computer 2.
- **PC2 USB Input:** Connects to a USB 3.0 port on Computer 2.

- **HDMI Output (x3):** Connects to your three monitors.
- **DC5V Power Input:** For connecting the power adapter.
- **Wired Remote Port:** For connecting the wired remote control switch.
- **I/O Switch:** Power on/off switch for the KVM.

Front



Back

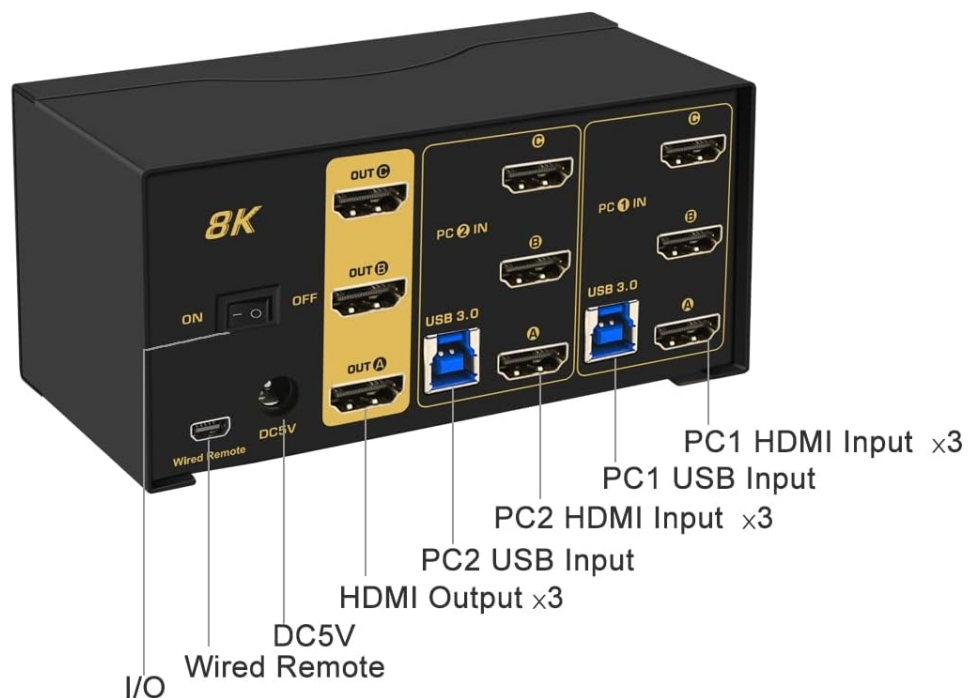


Image: Front and Rear Panel Layout.

SETUP INSTRUCTIONS

Follow these steps to properly set up your KVM switch:

1. **Power Off:** Turn off all computers and monitors, and unplug all cables.
2. **Connect Computers:**
 - Connect the three HDMI 2.1 cables from Computer 1's video outputs to the 'PC1 HDMI IN' ports on the KVM switch.
 - Connect one USB 3.0 cable from a USB 3.0 port on Computer 1 to the 'PC1 USB IN' port on the KVM switch.

- Repeat the above steps for Computer 2, connecting its HDMI and USB 3.0 cables to the 'PC2 HDMI IN' and 'PC2 USB IN' ports respectively.

Important: Each computer requires three video outputs. If a computer has only two HDMI ports and one DisplayPort (DP), you will need an 8K 60Hz DP to HDMI adapter for that DP port.

3. **Connect Monitors:** Connect your three monitors to the 'HDMI OUT' ports on the KVM switch using HDMI cables.

4. **Connect Peripherals:**

- Plug your keyboard into the dedicated USB Keyboard port on the front panel.
- Plug your mouse into the dedicated USB Mouse port on the front panel.
- Connect any other USB 3.0 peripheral devices (e.g., printer, USB hub, U disk) to the 'USB 3.0 HUB' ports.
- Connect your speakers or headphones to the 'Audio Out' port and your microphone to the 'Mic In' port if desired.
- Connect the wired remote push button switch to its dedicated port on the rear panel.

5. **Power On:**

- Plug the DC 5V 2A power adapter into the KVM switch and then into an AC power outlet.
- Turn on the KVM switch using the I/O switch on the rear panel.
- Turn on your computers.

BIOS Startup Note: If one computer is BIOS-based, turn it on first, log in, and wait for the display. Then switch to the second computer and turn it on. If both computers are BIOS-based, start the KVM, then the first BIOS computer, log in, wait for the display, switch the KVM to the second computer, and finally, turn on the second BIOS computer. Avoid starting both BIOS computers simultaneously to prevent issues like a black screen or disabled keyboard/mouse.

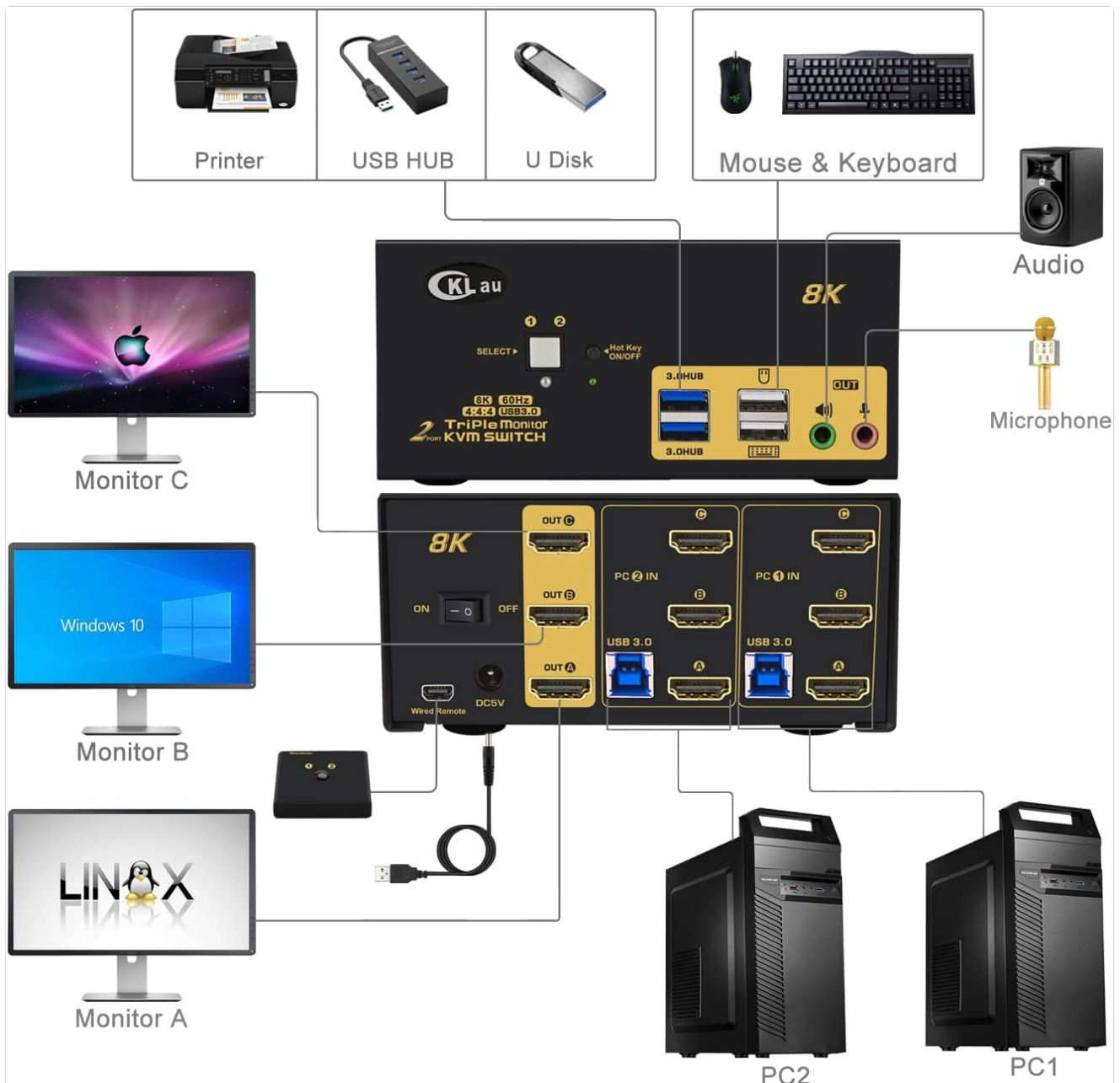


Image: KVM Switch Setup Diagram.

OPERATING INSTRUCTIONS

The CKLau KVM switch offers four methods to switch between the two connected computers:

1. **Keyboard Hotkey Switching:** Press the hotkey sequence to switch between computers. The default hotkeys are:
 - Num Lock + Num Lock + 1 / 2 + Enter
 - Ctrl + Ctrl + 1 / 2 + Enter
 - Scroll Lock + Scroll Lock + 1 / 2 + Enter

Ensure the 'Hot Key ON/OFF' switch on the front panel is in the 'ON' position. The hotkey can be changed if needed.

2. **Mouse Switching:** Double-click the mouse wheel to switch to the next computer.
3. **Manual Button Switching:** Press the 'SELECT' button on the front panel of the KVM switch to cycle between computers.
4. **Wired Remote Push Button Switching:** Press the button on the wired remote control to switch between

computers.

Four Switching Modes



① Push Button Switching



② Keyboard Hotkey Switching



③ Mouse Switching



④ Wire Remote Push Button Switching

Image: Four Switching Modes.

Official Product Video: Setup and Switching Demonstration

Your browser does not support the video tag.

Video: A demonstration of the CKLau 2 Port 8K 60Hz USB 3.0 HDMI KVM switch, including setup, resolution verification, and various switching methods.

DISPLAY MODES

The KVM switch supports three display modes:

- **Extended Display:** Each monitor displays a different part of the desktop, extending your workspace.
- **Mirror Display:** All monitors display the same content, mirroring your desktop.
- **Splice Display (Video Wall):** Combines multiple monitors to act as one large display.

Three working modes

Support 8K@60HZ,4K@144Hz

① Mirror



② Extended



③ Video Wall



It required your 2 computers all has Triple graphic-card or dual video output interface..

Image: Three Working Modes (Mirror, Extended, Video Wall).

RESOLUTION AND REFRESH RATE

This KVM switch supports a maximum 8K resolution at a 60Hz refresh rate. For optimal performance, ensure your PC, monitors, and TV all support the desired resolution and refresh rate.

- **Example 1:** If your PC supports 8K 60Hz, but your monitor/TV supports only 4K 60Hz, you will get 4K 60Hz as a result.
- **Example 2:** If your PC supports 4K 60Hz, and your monitor/TV supports 8K 60Hz, you will get 4K 60Hz as a result.
- **Example 3:** If your PC and your monitor/TV both support 8K 60Hz, you will get 8K 60Hz as a result.

The switch is compatible with a wide range of resolutions, including:

- 10240x4320@60Hz
- 7680x4320@60Hz
- 5120x2880@50/60Hz

- 4096x2160@50/60/100/120Hz
- 3840x2160@60/120/144Hz
- ...and many others up to 240Hz for lower resolutions.

It is drive-free for Windows 10/7/2000/XP/Vista, Linux, Mac, Debian, Ubuntu, Fedora, Raspbian, and other operating systems.

TROUBLESHOOTING

- **No Display / Black Screen:**

- Ensure all HDMI and USB cables are securely connected to both the KVM switch and your computers/monitors.
- Verify that the KVM switch is powered on.
- Check the BIOS startup sequence as described in the Setup Instructions to avoid conflicts.
- Confirm that your PC, monitors, and cables support the selected resolution and refresh rate.

- **Keyboard/Mouse Not Working:**

- Ensure the keyboard and mouse are connected to the dedicated USB ports on the front panel.
- Try reconnecting the USB cables.
- If using hotkeys, ensure the 'Hot Key ON/OFF' switch is in the correct position.

- **Monitor Drops/Flickers:**

- Switch between computers and then back to the desired computer.
- Ensure all cables are high-quality HDMI 2.1 certified.

- **Windows Size/Location Moving After Switching:** This KVM switch does not feature EDID emulation. This behavior is expected as the KVM does not hold the EDID information of the monitors when switching, causing the operating system to re-detect displays.

SPECIFICATIONS

Brand	CKLau
Model	CKLau-923Hua-4
Connectivity Protocol	HDMI 2.1, USB 3.0
Max Resolution	8K@60Hz, 4K@144Hz
Number of Computers	2
Number of Monitors	3
USB Ports	2 x USB 3.0 Hub, 2 x USB 2.0 (Keyboard/Mouse)
Audio Support	Yes (Audio Out, Mic In)
Switching Methods	Hotkey, Mouse, Manual Button, Wired Remote
Power Supply	DC 5V 2A

Dimensions (L x W x H)	5.12 x 2.95 x 2.48 inches
Material	Metal, Plastic
Color	Black

MAINTENANCE

To ensure the longevity and optimal performance of your KVM switch:

- Keep the device in a cool, dry place away from direct sunlight and heat sources.
- Clean the exterior with a soft, dry cloth. Do not use liquid cleaners or aerosols.
- Ensure proper ventilation around the device to prevent overheating.

WARRANTY AND SUPPORT

For warranty information, technical support, or any questions regarding your CKLau KVM switch, please contact CKLau Technologies Inc. customer service. Refer to the contact details provided with your product or visit the official CKLau website for assistance.