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TESmart HKS0202A2U

TESmart HKS0202A2U Dual Monitor HDMI KVM Switch User Manual

Model: HKS0202A2U

1. Introduction

The TESmart HKS0202A2U Dual Monitor HDMI KVM Switch allows you to control two computers using a single set of keyboard, mouse, and two monitors. This device supports 4K@60Hz resolution, USB 3.0 data transfer, and includes EDID emulators to maintain display settings during switching. It is designed to streamline your workspace and enhance productivity across multiple systems.

2. Package Contents

Verify that all items listed below are included in your package:

- 1 x TESmart 2x2 HDMI KVM Switch
- 2 x 5ft HDMI+USB-B Cables
- 2 x 5ft HDMI Cables
- 1 x IR Remote Control (AAA batteries not included)
- 1 x DC 12V Power Adapter
- 1 x User Manual



Image: Contents of the TESmart KVM Switch package, including the KVM unit, various cables, IR remote, power adapter, and user manual.

3. Setup Instructions

Follow these steps to connect your TESmart KVM Switch:

1. **Power Connection:** Connect the included DC 12V power adapter to the KVM switch and then to a power outlet.
2. **Keyboard and Mouse Connection:** Plug your wired or wireless keyboard and mouse into the dedicated K&M USB ports on the KVM switch. Note: Bluetooth keyboards and mice are not supported.
3. **Computer Connections:** Connect each of your two computers (PC1 and PC2) to the KVM switch using the provided HDMI+USB-B cables and additional HDMI cables. Each computer requires two HDMI connections (Input A and Input B) and one USB-B connection to the KVM switch. Ensure your laptop is capable of dual monitor output before connecting.
4. **Monitor Connections:** Connect your two monitors to the HDMI output ports (Display A and Display B) on the KVM switch. HDMI output cables are not included.
5. **USB 3.0 Peripherals:** Connect any USB 3.0 peripherals (e.g., printer, scanner, webcam, hard disk) to the USB 3.0 ports on the KVM switch. The front panel USB 3.0 port can also charge your phone.
6. **Audio Connection:** Connect your audio device (e.g., headphones, speakers) to the 3.5mm audio output port on the KVM switch.



Image: Connection diagram illustrating how to link two PCs to the KVM switch using HDMI and USB-B cables, and then connecting two monitors to the KVM's HDMI outputs.

Video: A step-by-step guide on setting up the TESmart 4K HDMI KVM Switch, demonstrating cable connections for power, keyboard, mouse, computers, and monitors.

4. Operating Instructions

4.1 Switching Between Computers

The KVM switch offers multiple methods for switching between connected computers:

- **Keyboard Hotkeys:** The default hotkey combination is [Right-Ctrl] key pressed twice, followed by '1' or '2' to switch to PC1 or PC2 respectively. Alternative hotkeys are [Scroll Lock] or [Left-Ctrl] key.
- **Mouse Wheel Switching:** This mode is off by default. You can enable it using a keyboard hotkey command. Once enabled, you can switch by double-clicking the mouse wheel.
- **Front Panel Buttons:** Press the 'Select' button on the front panel to cycle through the connected computers.
- **IR Remote Control:** Use the included IR remote control to switch between computers.

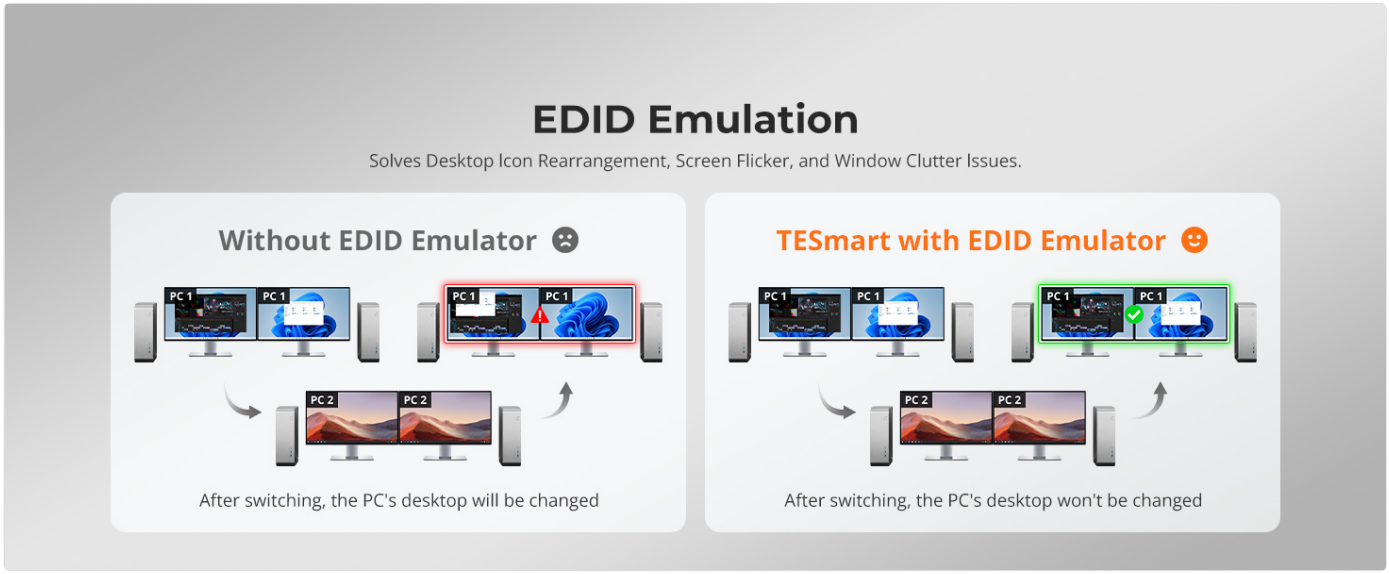


Image: Visual representation of the three primary switching methods: keyboard hotkeys, front panel buttons, and the IR remote control.

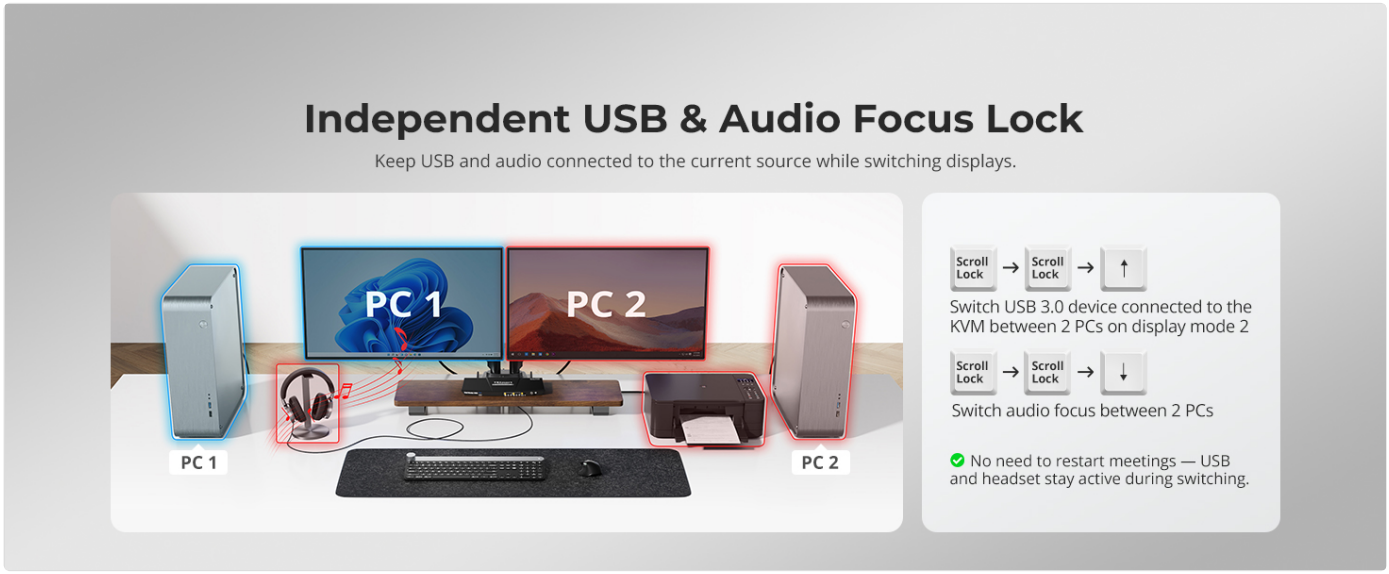


Image: A comprehensive diagram detailing four distinct methods for switching between connected computers: custom hotkeys, front panel buttons, IR remote, and mouse wheel.

4.2 Display Modes

The KVM switch supports two main display modes:

- **Mode 1: One PC Across Two Monitors (Extended or Mirror):**Both monitors display content from a single PC, either extending the desktop or mirroring it.
- **Mode 2: Two PCs on Two Monitors:** Each monitor displays content from a different PC, allowing you to view both systems simultaneously.

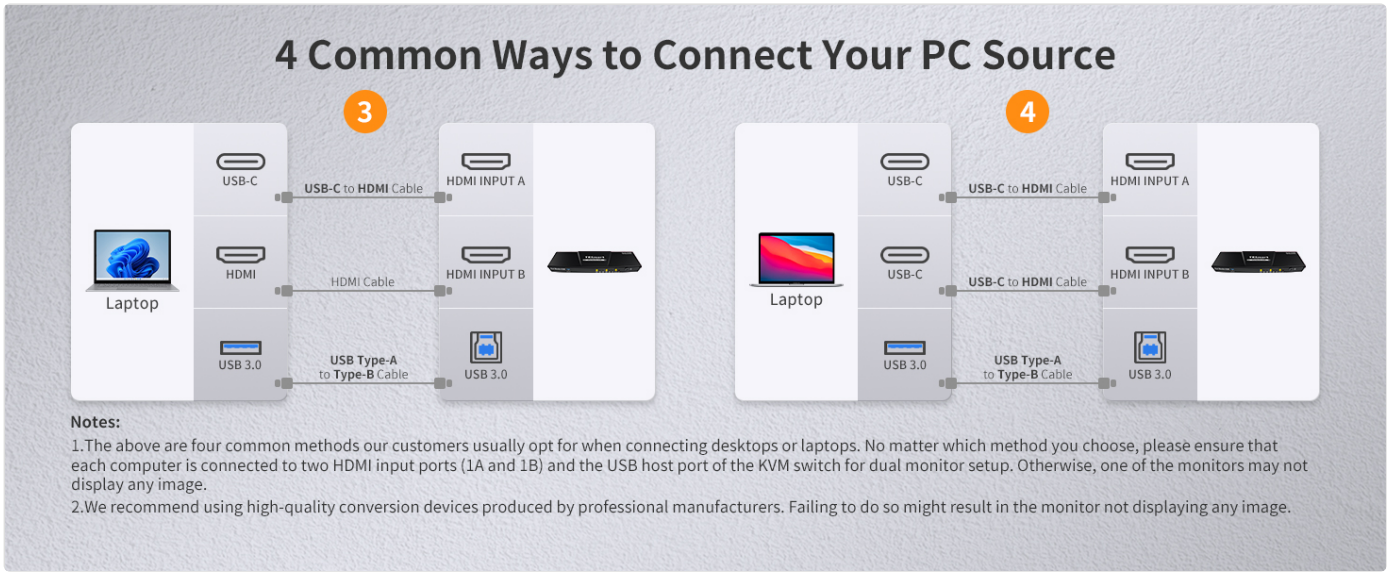


Image: Illustration of the two primary display modes: a single PC utilizing both monitors for an extended or mirrored display, and two separate PCs each displaying on one monitor.

4.3 EDID Emulation

The KVM switch features EDID emulators in each input port. This ensures that your computers always receive correct display information, preventing display settings from changing or windows from rearranging when switching inputs, especially in display mode 1.



Image: A visual comparison demonstrating how EDID emulation prevents desktop rearrangement and screen flicker when switching between inputs, ensuring stable display settings.

4.4 Independent USB & Audio Focus Lock

You can maintain USB and audio connections to the current source while switching displays. This means your headphones will remain active during a switch, and you can continue using USB peripherals without interruption.

- **Switch USB 3.0 Device:** Use hotkeys (e.g., [Scroll Lock] twice, then Up Arrow) to switch the USB 3.0 device focus between PCs in display mode 2.
- **Switch Audio Focus:** Use hotkeys (e.g., [Scroll Lock] twice, then Down Arrow) to switch audio focus between PCs.

Image: A diagram showing how to independently switch USB 3.0 device and audio focus between two PCs, ensuring continuous operation of peripherals and audio during display changes.

4.5 USB 3.0 Data Transfer and Charging

The integrated USB 3.0 ports support data transfer rates up to 5Gbps, which is 10 times faster than USB 2.0. The front panel USB 3.0 port also provides charging capabilities for your phone.

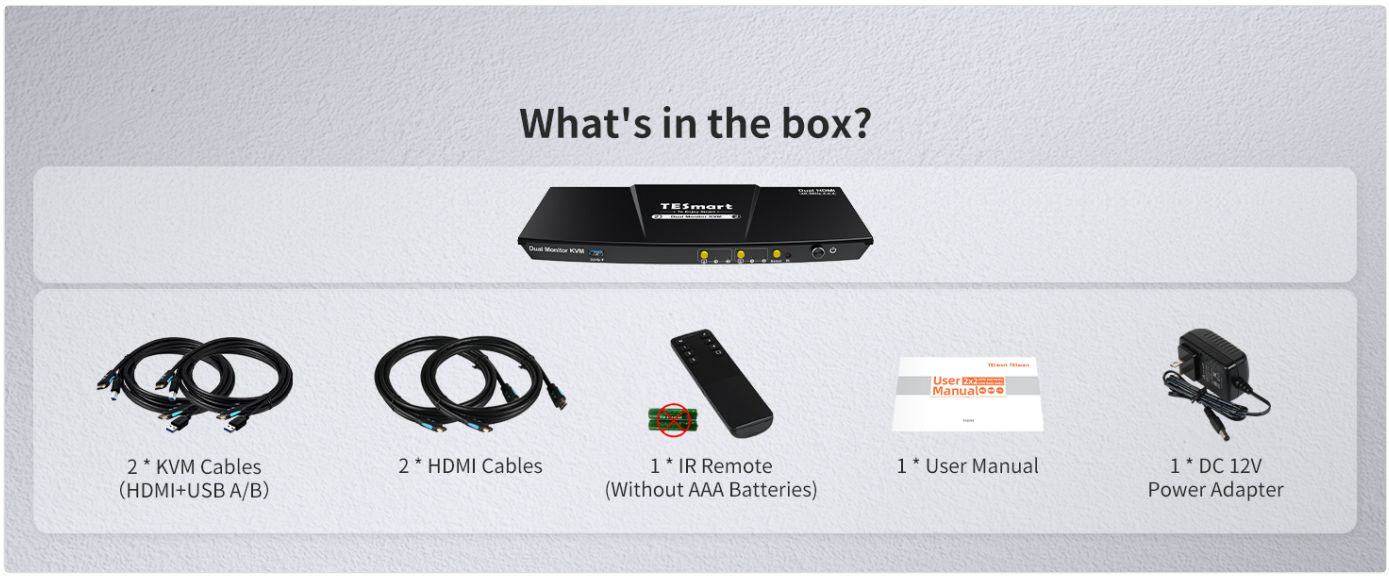


Image: A smartphone connected to the KVM's front USB 3.0 port, illustrating its charging capability.

Video: Demonstrates the features of the USB 3.0 KVM Switch, including fast data transfer and peripheral sharing capabilities.

5. 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. Avoid using liquid cleaners or solvents.
- Ensure proper ventilation around the unit to prevent overheating.
- Avoid placing heavy objects on top of the KVM switch.

6. Troubleshooting

If you encounter issues with your KVM switch, refer to the following common solutions:

- **No Display/Video Output:**
  - Ensure all HDMI cables are securely connected to both the KVM switch and your monitors/computers.
  - Verify that the KVM switch is powered on and the correct input is selected.
  - Check if your computer's graphics card supports dual monitor output.
  - Try using different HDMI cables or connecting monitors directly to the computer to rule out cable or monitor

issues.
    - Ensure your computer's display settings are configured for extended or mirrored displays as desired.
- **Keyboard/Mouse Not Responding:**
    - Confirm that the keyboard and mouse are plugged into the dedicated K&M USB ports on the KVM switch.
    - Ensure the USB-B cables from the computers to the KVM switch are properly connected.
    - Restart the KVM switch and the connected computers.
    - Test the keyboard and mouse directly with the computer to ensure they are functional.
- **Display Settings Change After Switching:**
    - The KVM switch includes EDID emulators to prevent this. Ensure your KVM is operating in a mode that fully utilizes EDID emulation (typically display mode 1).
    - If the issue persists, check for any available firmware updates for your KVM switch from the manufacturer's website.
- **Audio Issues:**
    - Verify that your audio device is correctly plugged into the KVM's audio port.
    - Check the audio output settings on your computer to ensure the KVM's audio output is selected.
    - Use the independent audio focus hotkeys to ensure audio is directed to the desired computer.

7. Specifications

Feature	Specification
Model	TES-HKS0202A2U-USBK-V2
Brand	TESmart
Connectivity Protocol	USB 3.0
Max Resolution	3840x2160 (4K) @60Hz, 3440x1440@100Hz
Video Support	3D, HDR10, HDCP2.2, Dolby Vision
USB 3.0 Data Rate	Up to 5Gbps
Control Method	Push Button, Remote, Hotkey
Operating Voltage	12 Volts
Current Rating	3 Amps
Wattage	36 watts
Material	Metal
Item Dimensions (L x W x H)	11.81 x 4.33 x 1.18 inches
Operating Temperature	Up to 50 Degrees Celsius
International Protection Rating	IP41
Certification	FCC

8. Warranty and Support

The TESmart HKS0202A2U KVM Switch comes with a 1-year warranty. For technical support, troubleshooting assistance, or warranty claims, please contact TESmart customer service directly through their official website or the retailer where the product was purchased.

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