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TESmart HKS201-M24

TESmart HKS201-M24 8K HDMI KVM Switch User Manual

Model: HKS201-M24 | Brand: TESmart

1. INTRODUCTION

This manual provides detailed instructions for setting up, operating, and maintaining your TESmart HKS201-M24 8K HDMI KVM Switch. This device allows you to control two computers using a single keyboard, mouse, and monitor, supporting high-resolution displays up to 8K@60Hz and 4K@144Hz. Please read this manual thoroughly before use to ensure optimal performance and safety.

2. PACKAGE CONTENTS

Verify that all items are present in your package:

- 1 x TESmart HKS201-M24 2x1 HDMI 2.1 KVM Switch
- 2 x KVM Cables (HDMI + USB)
- 1 x IR Remote Control (*batteries not included*)
- 1 x DC 12V Power Adapter
- 1 x User Manual

What's in the box?

HKS201-M24



1 * 2x1 HDMI 2.1 KVM Switch



2 * KVM Cables
(HDMI+USB)



1 * IR Remote Control
(Without AAA Batteries)



1 * DC 12V Power Adapter



1 * User Manual

Image: The TESmart HKS201-M24 KVM Switch with its included accessories: two KVM cables, an IR remote, a DC 12V power adapter, and the user manual.

3. PRODUCT OVERVIEW

3.1 Front Panel

All-in-One

KVM + USB 3.0 Docking Station



Image: Front panel of the TESmart HKS201-M24 KVM Switch, showing USB 3.0 ports, audio jacks, and control buttons.

- **USB 3.0 Ports:** Two USB 3.0 ports for high-speed data transfer and device charging.
- **3.5mm Audio Jacks:** For connecting headphones and microphones.
- **Keypad:** Buttons for manual switching between connected computers.
- **Power Switch:** On/Off button for the device.

3.2 Rear Panel

Connect 2 Devices to 1 8K60 Monitor

Connect HDMI from each PC → into the KVM → then to 1 monitor.



Image: Rear panel of the TESmart HKS201-M24 KVM Switch, displaying input/output ports for PCs, monitor, and peripherals.

- **DC 12V:** Power input port.
- **Service Port:** For firmware updates and maintenance.
- **LAN Port (1000 Mbps):** Gigabit Ethernet port for network connectivity.
- **K&M Ports:** Dedicated USB ports for keyboard and mouse.
- **Input Ports (PC1 & PC2):** HDMI and USB 3.0 ports for connecting two computers.
- **Output Port:** HDMI port for connecting a single monitor.

4. SETUP INSTRUCTIONS

Follow these steps to set up your KVM switch:

1. **Power Connection:** Connect the DC 12V power adapter to the KVM switch and then plug it into a power outlet.
2. **Network Connection (Optional):** Insert an Ethernet cable into the LAN port on the KVM switch.
3. **Keyboard and Mouse:** Connect your keyboard and mouse to the dedicated K&M USB ports on the rear panel of the KVM switch.

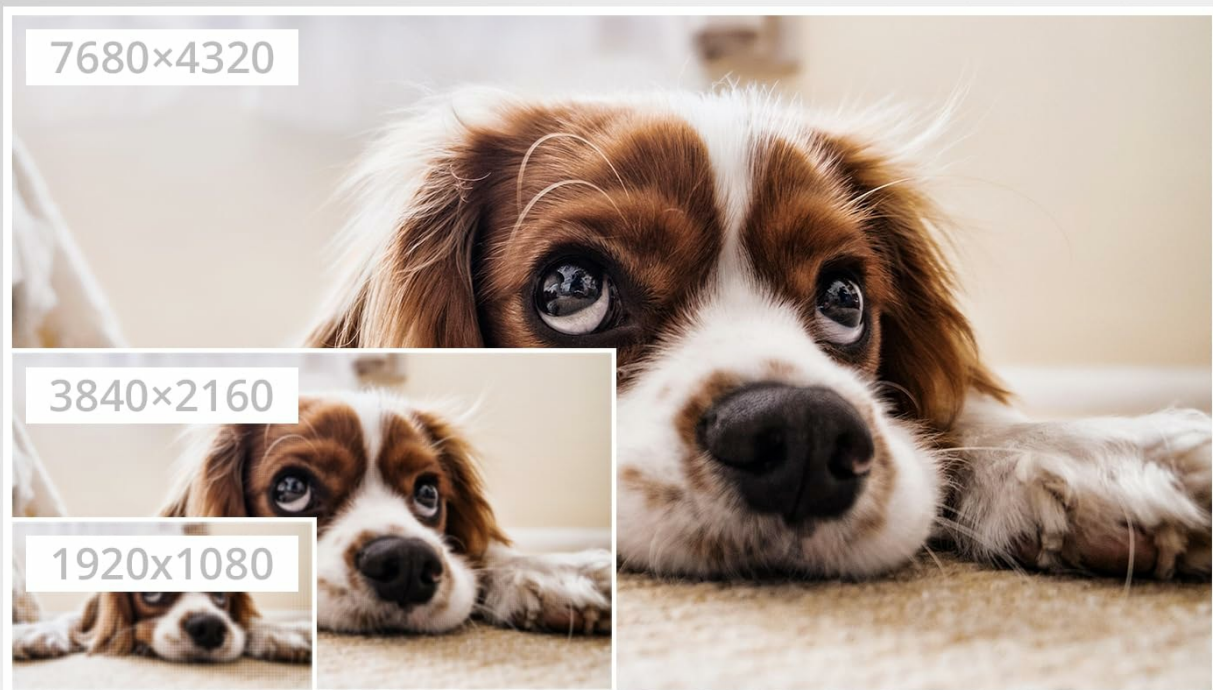
4. **Connect PC1:** Use one of the included KVM (HDMI+USB) cables to connect your first computer (PC1) to the Input 1 HDMI and USB 3.0 ports on the KVM switch.
5. **Connect PC2:** Use the second included KVM (HDMI+USB) cable to connect your second computer (PC2) to the Input 2 HDMI and USB 3.0 ports on the KVM switch.
6. **Monitor Connection:** Connect your monitor to the HDMI output port on the KVM switch. *Note: An HDMI output cable is not included.*
7. **Audio Devices (Optional):** Connect your headphones or speakers to the 3.5mm audio output jack on the front panel. Connect your microphone to the 3.5mm microphone input jack.
8. **USB Peripherals (Optional):** Plug any additional USB devices (e.g., USB flash drive, printer) into the USB 3.0 ports on the front or rear panel.

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Video: A detailed guide on setting up the TESmart 8K HDMI 2.1 KVM Switch, demonstrating cable connections for power, computers, monitor, and peripherals.

From 8K to 240Hz — It Just Works

Built for gaming, multitasking, and crystal-clear visuals.



Each HDMI 2.1 output theoretically supports up to:

- 7680×4320 (8K UHD) — 60Hz (DSC)
- 5120×1440 (32:9 Ultra-Wide) — 120Hz (DSC)
- 3840×2160 (4K UHD) — 240Hz (DSC)
- 3440×1440 (21:9 Ultra-Wide) — 144Hz
- 2560×1440 (QHD) — 240Hz
- 1920×1080 (FHD) — 240Hz

Image: Connection diagram illustrating how to link two PCs to the KVM switch and a single 8K monitor.

5. OPERATING INSTRUCTIONS

5.1 Switching Between Computers

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

- **Hotkey Switching:** Use custom hotkeys on your keyboard (e.g., Right Ctrl + Right Ctrl + 1 for PC1, Right Ctrl + Right Ctrl + 2 for PC2).
- **Front Panel Button:** Press the dedicated button on the front panel of the KVM switch to cycle between inputs.
- **IR Remote Control:** Use the included IR remote to select the desired PC input.
- **Mouse Wheel Switching:** This feature is typically off by default. It can be enabled via keyboard hotkey commands. Once enabled, double-click the mouse wheel to switch inputs.



4K144 HDR VRR



Faster Switching. Stronger Signal. Smoother Frames.

- Fast Switching in 1-3 Seconds
- Signal Always-On
- VRR / FVA / ALLM Supported
- 4K@120Hz HDR (12bit)
- Up to 4K@144Hz / 165Hz via DSC

Powered by ADI HDMI 2.1 decoding

Image: Visual representation of the four switching methods: hotkeys, front panel button, IR remote, and mouse wheel.

Your browser does not support the video tag.

Video: Demonstration of the KVM switch's one-click switching functionality between connected computers.

5.2 Independent USB & Audio Focus Lock

This feature allows you to maintain USB and audio connections to one computer while switching the display to another. This is useful for tasks like listening to audio from one PC during a meeting while working on another. Use specific hotkeys (e.g., Scroll Lock + Scroll Lock + 0) to disable/enable follow mode and switch USB 3.0 and audio

channels independently.



Image: Illustration of the Independent USB & Audio Focus Lock feature, showing how USB and audio can remain connected to one PC while the display switches to another.

5.3 Auto Detect Mode

The KVM switch can automatically detect an active signal and switch to that device. For example, if PC1 is active and PC2 is turned on, the display will automatically switch to PC2 without manual intervention.



Image: Visual explanation of the Auto Detect Mode, showing automatic switching to an active PC.

6. KEY FEATURES

- **Dual PC Control:** Manage two computers with a single keyboard, mouse, and monitor.
- **8K Visuals & HDMI 2.1:** Supports 8K@60Hz 4:4:4 and 4K@120Hz/144Hz resolutions with HDMI 2.1 (48Gbps). Compatible with VRR, FVA, ALLM for high-performance displays.
- **EDID Emulators:** Maintains display resolution and screen settings when switching, preventing screen flicker or layout resets.
- **Multiple Switching Methods:** Switch inputs via hotkeys, front panel button, IR remote, or mouse wheel.
- **Shared Gigabit LAN:** Both connected PCs can access a wired 1000 Mbps Ethernet connection through the KVM switch.
- **USB 3.2 Gen 1 SuperSpeed:** Offers ultra-fast data transfer and front-panel charging for mobile devices.
- **Integrated Audio:** Includes microphone and L/R audio output for comprehensive audio management.

EDID Emulation

Solves Desktop Icon Rearrangement, Screen Flicker, and Window Clutter Issues.

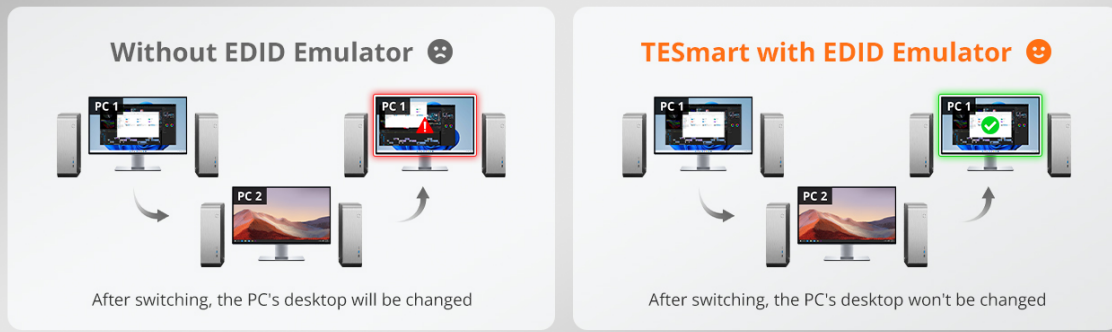


Image: Visual detailing the KVM switch's support for 8K@60Hz and 4K@144Hz resolutions, ideal for gaming and high-resolution tasks.

Auto Detect Mode

Smart Signal Detection – Automatically Switches to the Active Device.

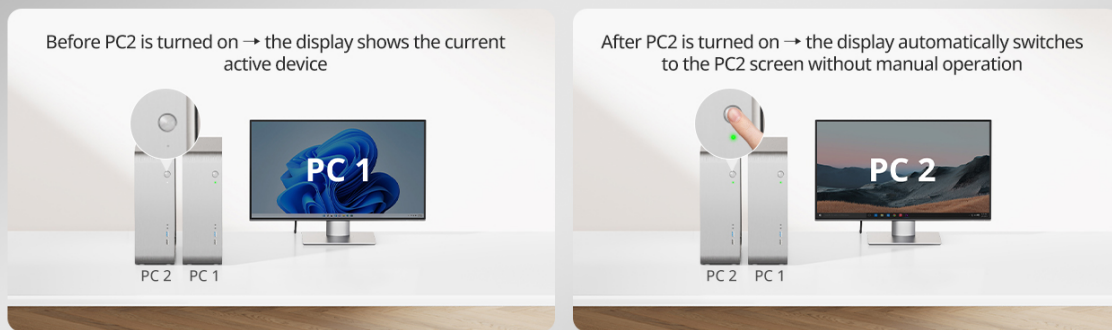


Image: Explanation of EDID emulation, which prevents desktop icon rearrangement and screen flicker when switching inputs.

60Hz

144Hz

4K144 HDR VRR

Faster Switching. Stronger Signal. Smoother Frames.

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- Signal Always-On
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Powered by ADI HDMI 2.1 decoding

Image: The KVM switch functioning as a shared docking station with USB 3.0 ports and Gigabit LAN connectivity.

7. SPECIFICATIONS

Attribute	Value
Brand	TESmart
Model	HKS201-M24-USBK
Item Dimensions (L x W x H)	9 x 5 x 2 inches
Color	Black
Material	Metal
Connectivity Protocol	Ethernet
Wattage	36 watts
Operating Voltage	12 Volts
Upper Temperature Rating	50 Degrees Celsius
International Protection Rating	IP41
Specification Met	FCC

8. TROUBLESHOOTING

- **No Display/Screen Flicker:** Ensure all HDMI cables are securely connected. The built-in EDID emulators should prevent most display issues; however, if problems persist, try restarting the KVM switch and connected computers.
- **Keyboard/Mouse Not Responding:** Verify that the keyboard and mouse are connected to the dedicated K&M USB ports. If using a wireless keyboard/mouse, ensure the receiver is connected to a K&M port. Try connecting them directly to the computer to rule out device issues.
- **Switching Delays:** While the KVM switch is designed for quick switching, some monitors or systems may experience slight delays. Ensure all cables are high-quality and meet HDMI 2.1 specifications for optimal performance.
- **No Audio:** Check audio cable connections to the KVM switch and your audio devices. Ensure the correct audio output is selected on your computer.
- **USB Devices Not Detected:** Ensure USB devices are properly connected to the USB 3.0 ports. If using a high-power device, ensure it has its own power supply if needed.
- **Network Connectivity Issues:** Verify the Ethernet cable is securely connected to the KVM switch and your network source. Check network settings on both connected PCs.

9. WARRANTY AND SUPPORT

TESmart offers a comprehensive warranty and support for this product:

- **Warranty:** The product includes a standard 1-year warranty, extendable by an additional 2 years with TESmart+ Extended Protection, totaling 3 years.
- **Technical Support:** 24/7 technical support is available for assistance with setup, operation, and troubleshooting.



Image: TESmart support offerings, including 24/7 technical support and extended warranty options.