

## Manuals+

[Q & A](#) | [Deep Search](#) | [Upload](#)

manuals.plus /

› [TESmart](#) /

› [TESmart HDMI KVM Switch 8 Port 8K@60Hz User Manual](#)

**TESmart HKS801-M24-USBK**

# TESmart HDMI KVM Switch 8 Port 8K@60Hz User Manual

Model: HKS801-M24-USBK

Brand: TESmart

## 1. INTRODUCTION

---

This manual provides detailed instructions for the installation, operation, and maintenance of your TESmart HDMI KVM Switch 8 Port 8K@60Hz. Please read this manual thoroughly before using the device to ensure proper functionality and to prevent damage.

## 2. PACKAGE CONTENTS

---

Verify that all items listed below are included in your package. If any items are missing or damaged, please contact customer support.

- 1 x 8x1 HDMI KVM Switch
- 8 x KVM Cables (HDMI + USB, 5ft each)
- 1 x IR Remote Control (AAA batteries not included)
- 1 x IR Receiver Cable
- 1 x DC 12V Power Adapter
- 2 x Rack-ears
- 1 x User Manual
- 1 x 3-Pin Connector (for RS232)

# What's in the box?

HKS801-M24



1 \* 8x1 HDMI KVM Switch



8 \* KVM Cables  
(HDMI + USB)



1 \* IR Remote Control



1 \* IR Receiver Cables



1 \* DC 12V  
Power Adapter



2 \* Rack-ears



1 \* User Manual



1 \* 3 Pins connector (For RS232)

Image: All components included in the TESmart HDMI KVM Switch package.

## 3. PRODUCT FEATURES

- **8-Port HDMI KVM Switch:** Connects up to 8 HDMI-enabled computers to a single monitor, keyboard, and mouse console.
- **8K@60Hz Resolution:** Supports ultra-high-definition resolutions up to 7680x4320 at 60Hz.
- **USB 3.0 Hub:** Features two standard USB 3.0 ports for connecting additional peripherals like barcode scanners or USB hard drives.
- **EDID Emulator:** Integrated EDID emulators ensure correct display information is maintained across all input ports, preventing display setting changes during switching.
- **Multiple Switching Methods:** Offers flexible control via IR remote, front panel buttons, keyboard hotkeys, mouse wheel, RS232 commands, and IP control.
- **Auto Switching & Auto Detect Mode:** Supports automatic switching between connected computers at specified intervals and automatically detects active devices.
- **Plug and Play:** Requires no special software installation and supports hot-swapping of devices.
- **Rackmount Design:** Includes rack-ears for easy installation into standard server racks.

## 4. SETUP AND INSTALLATION

Follow these steps to set up your KVM switch:

1. **Power Off Devices:** Ensure all computers and the monitor are powered off before beginning the installation.
2. **Connect Monitor:** Connect your monitor to the HDMI OUTPUT port on the KVM switch using an HDMI cable.
3. **Connect Keyboard and Mouse:** Connect your USB keyboard and mouse to the dedicated K/M USB ports on the KVM switch.
4. **Connect Computers:** For each computer (up to 8), connect an HDMI cable from the computer's HDMI output to an HDMI INPUT port (PC 1-8) on the KVM switch. Simultaneously, connect a USB cable from the computer's USB port to the corresponding USB INPUT port (PC 1-8) on the KVM switch. Use the provided KVM cables for optimal performance.
5. **Connect Power:** Plug the DC 12V power adapter into the KVM switch and then into a power outlet.
6. **Power On:** Power on the KVM switch, then power on your monitor, and finally power on your connected computers.

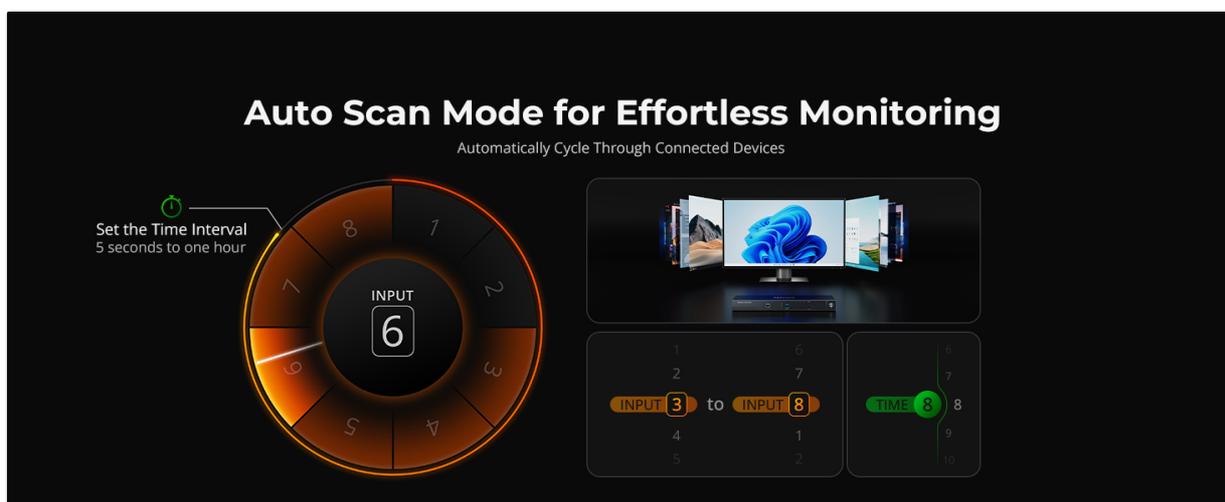


Image: Connection diagram for the TESmart 8-port KVM switch.



Image: Comprehensive connection overview including optional RS232, LAN, and USB device connections.

## 5. OPERATING INSTRUCTIONS

The TESmart KVM switch offers several methods for switching between connected computers:

## 5.1 Switching Methods

- **Front Panel Buttons:** Press the numbered buttons on the front panel to switch directly to the corresponding PC input.
- **IR Remote Control:** Use the included IR remote control to switch inputs. (Requires 2x AAA batteries, not included).
- **Keyboard Hotkeys:** Specific key combinations allow for quick switching without moving your hand from the keyboard. Refer to the full user manual for specific hotkey commands.
- **Mouse Wheel Switching:** Scroll the mouse wheel to switch between inputs.
- **RS232 Control:** Connect via RS232 for serial command control.
- **IP Control:** Control the KVM switch over a network using IP commands.



Image: Overview of the six available switching methods.

## 5.2 Auto Detect Mode

The KVM switch can automatically detect when a connected PC becomes active and switch to its input. This eliminates the need for manual switching when a computer is powered on.

# Auto Detect Mode

Smart Signal Detection – Automatically Switches to the Active Device.



Image: Auto Detect Mode functionality.

## 5.3 Auto Scan Mode

In Auto Scan Mode, the KVM switch cycles through all connected active inputs at a user-defined interval (e.g., 5 seconds to 1 hour). This is useful for monitoring multiple systems.



Image: Auto Scan Mode for monitoring multiple devices.

## 5.4 EDID Emulation

The built-in EDID emulators ensure that your computers always receive correct display information,

preventing issues like desktop icon rearrangement, screen flicker, or resolution changes when switching between inputs or when a computer is disconnected.

## EDID Emulation

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

### Without EDID Emulator ☹️



After switching, the PC's desktop will be changed

### TESmart with EDID Emulator 😊



After switching, the PC's desktop won't be changed

Image: EDID Emulation prevents display issues during switching.

## 5.5 Lock Function

The KVM switch includes a lock function to prevent accidental input changes. Press the [0/Close] button on the front panel to turn off the HDMI display and disable hotkeys and remote control functions. Press it again to re-enable the display and controls.

# Prevent Accidental Input – Even From Your Cat

Lock screen, audio, and controls with one button.

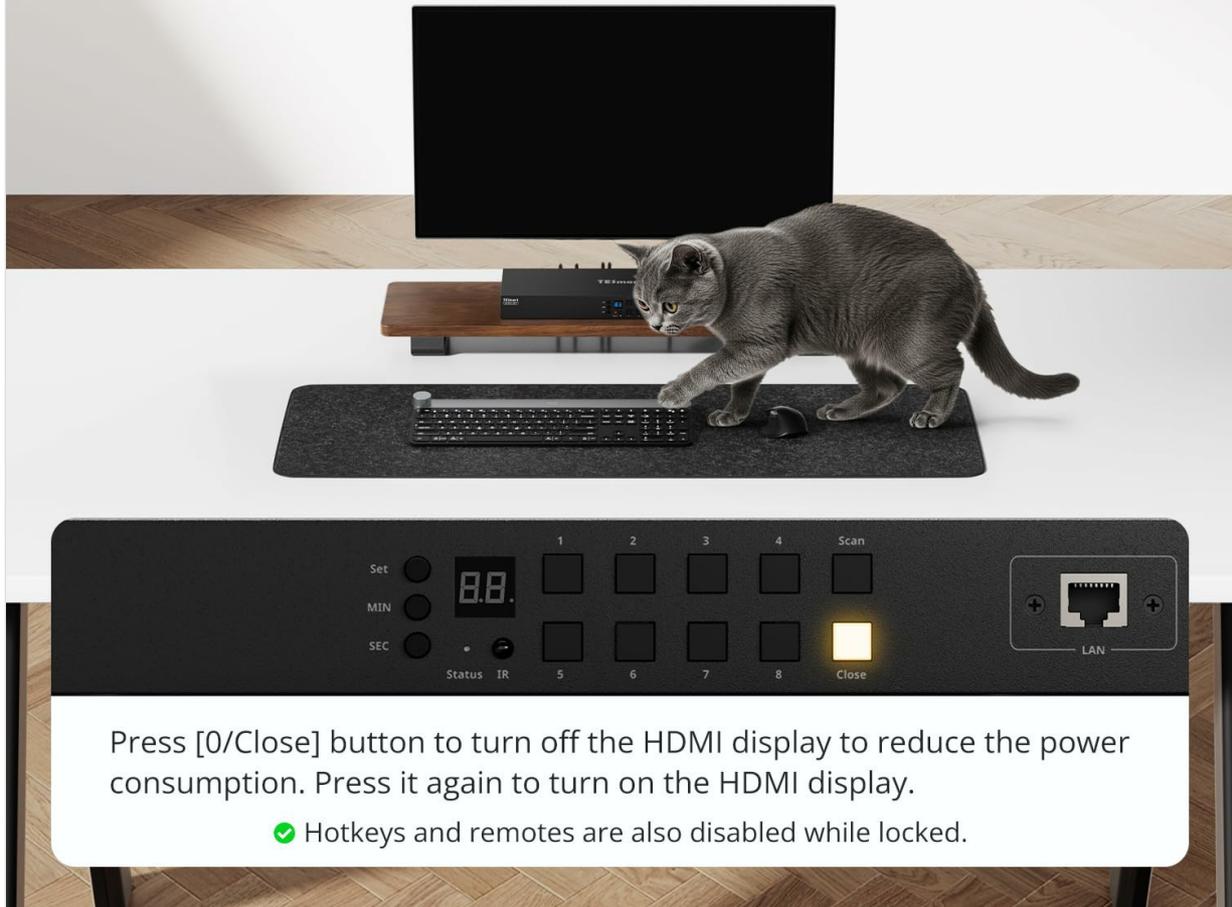


Image: Using the lock function to prevent unintended input.

## 6. MAINTENANCE

To ensure the longevity and optimal performance of your KVM switch, follow these maintenance guidelines:

- **Cleaning:** Use a soft, dry cloth to clean the exterior of the device. Avoid using liquid cleaners or solvents.
- **Ventilation:** Ensure the KVM switch has adequate ventilation. Do not block any ventilation openings.
- **Environment:** Operate the device within the specified temperature range (up to 40°C). Avoid extreme temperatures, humidity, and direct sunlight.
- **Cable Management:** Keep cables organized and free from kinks or excessive tension to prevent damage to connectors and ports.
- **Firmware Updates:** Check the manufacturer's website periodically for any available firmware updates that may improve performance or add features.

## 7. TROUBLESHOOTING

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

- **No Display/Signal:**

- Ensure all HDMI and USB cables are securely connected to both the KVM switch and the computers/monitor.
- Verify the KVM switch is powered on and the correct input is selected.
- Try connecting the computer directly to the monitor to confirm the computer's video output is functional.
- Check if the monitor is set to the correct input source.

- **Keyboard/Mouse Not Responding:**

- Ensure the keyboard and mouse are connected to the dedicated K/M USB ports on the KVM switch.
- Try connecting the keyboard and mouse directly to the computer to verify functionality.
- Some specialized gaming or multimedia keyboards/mice may require pass-through mode. Refer to the full manual for enabling this feature.

- **Slow Switching Time:**

- Switching times can vary depending on the connected devices and their display handshake processes. High-resolution or high-refresh-rate devices (e.g., PS5 at 4K 120Hz HDR) may experience longer switching delays (up to 5 minutes in some cases).
- For other devices, typical switching time is 5-10 seconds.

- **Display Issues with High-Performance Devices (e.g., PS5):**

- Devices requiring 4K 120Hz HDR VRR may be particularly sensitive to HDMI signal integrity.
- Ensure high-quality HDMI 2.1 certified cables are used.
- Consider simplifying the setup by connecting the KVM switch directly to the display, rather than through an A/V receiver, if experiencing signal drops or resolution degradation.
- If green lines or signal loss occur, try adjusting display settings on the source device to a lower resolution or refresh rate as a test.

- **Audio Issues (e.g., Dolby Atmos):**

- This KVM switch may not support certain advanced audio formats like Dolby Atmos. Verify audio compatibility with your specific setup.

- **Control Software Issues:**

- If experiencing difficulties with official control software for advanced settings (e.g., disabling the beep sound), check the TESmart website for updated software or drivers.
- Some users have reported success with third-party applications for controlling TESmart KVM switches; however, use such software at your own discretion.

## 8. SPECIFICATIONS

Feature	Specification
Model Number	HKS801-M24-USBK
Operation Mode	ON-OFF

Feature	Specification
Current Rating	3 Amps
Operating Voltage	12 Volts
Connector Type	HDMI, USB 3.0
Item Dimensions (L x W x H)	17.32 x 5.9 x 1.8 inches
Item Weight	4.22 pounds
Material	Metal
Color	Black
Wattage	36 watts
Upper Temperature Rating	40 Degrees Celsius
International Protection Rating	IP30
Compatible Devices	Computers, servers, DVR/NVR, laptops, USB devices, HDMI 2.1 compatible devices

## 9. WARRANTY AND SUPPORT

---

TESmart products are designed for reliability and performance. For specific warranty information, please refer to the warranty card included with your product or visit the official TESmart website. For technical support, troubleshooting assistance, or to inquire about replacement parts, please contact TESmart customer service through their official channels.