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- › [TESmart DisplayPort + HDMI KVM Switch 2 Monitors 2 Computers 4K@60Hz, Dual Monitor KVM Switch 2 Port Extended Display, EDID Emulators, USB 2.0, L/R Audio, Hotkey Switch, Button Switch with All Cables USB 2.0 HDMI+DP KVM Red](#)

TESmart HDK202-E23

TESmart DisplayPort + HDMI KVM Switch User Manual

MODEL: HDK202-E23

1. Product Overview

The TESmart DisplayPort + HDMI KVM Switch is designed to allow two computers to share two monitors, a single keyboard, mouse, and other USB peripherals. This device is ideal for users who need to manage multiple systems efficiently without cluttering their workspace with redundant equipment. It supports high-resolution video output up to 4K@60Hz, ensuring a crisp and clear display.

Renovate Your Hybrid Life

Supports resolutions of up to 3840x2160 (4K) @60hz, 3440x1440@100hz, 2560x1440@144hz, and is also downward compatible



Image: The TESmart KVM Switch in a typical dual-monitor setup, illustrating its role in a hybrid workspace.

2. Package Contents

Please verify that all items listed below are included in your package:

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

Packing List



2* KVM Cables
(HDMI+USB A/B)



2* DisplayPort Cables



IR Remote
(Without AAA Batteries)



User Manual



DC 12V Adapter

Image: A visual representation of all components included in the TESmart KVM Switch package.

3. Product Features

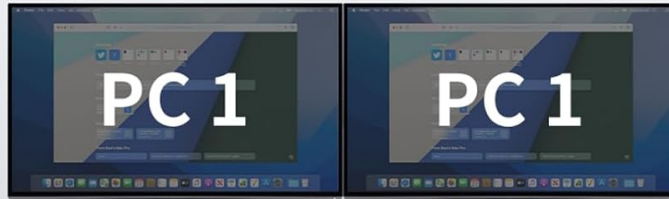
- **Dual Monitor Support:** Connects two computers to two monitors using a combination of DisplayPort and HDMI inputs.
- **High Resolution:** Supports Ultra HD 4K@60Hz (3840x2160) and 3440x1440@100Hz, with backward compatibility. Features 3D, HDR10, HDCP2.2, and Dolby Vision for superior video quality.

2 Display Modes

Display Mode 1

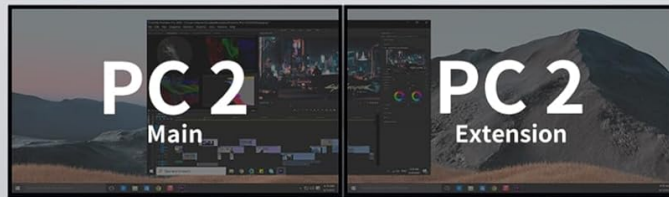
Mirrored

E.g.



Extended

E.g.



Display Mode 2

Different on Each

E.g.

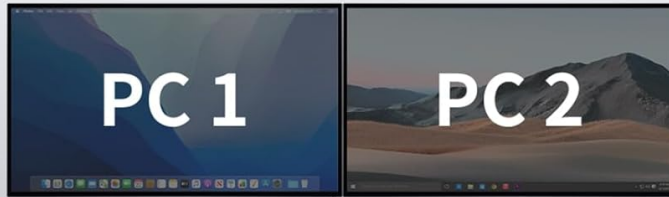


Image: Illustration of the two primary display modes: Mirrored (same content on both monitors) and Extended (different content across monitors).

- **EDID Emulators:** Built-in EDID emulators in each input port ensure that your computers always receive correct display information, preventing display settings from changing during switching. This eliminates the need for constant display adjustments.

EDID Emulator

Without EDID Emulator ☹️



The PC's desktop will be changed

TESmart With EDID Emulator 😊



The PC's desktop won't be changed

Image: Visual comparison demonstrating how EDID emulators prevent desktop changes when switching between PCs.

- **Seamless Switching:** Experience zero-latency keyboard and mouse switching between connected computers, enhancing work efficiency and gaming.

Seamless Keyboard and Mouse Switching



Image: A visual timeline showing the rapid, seamless transition of keyboard and mouse control between two computers.

- **Broad Compatibility:** Features an upgraded pass-through mode (Semi-DDM USB) for high compatibility with most wired, wireless (2.4G receiver), mechanical, multimedia, and gaming keyboards and mice. (Note: Does not support wireless Bluetooth K&M).

Enhance KVM Compatibility with Pass-Through Mode



Common K&M



Wireless K&M with 2.4G receiver



Multimedia K&M



Mechanical K&M

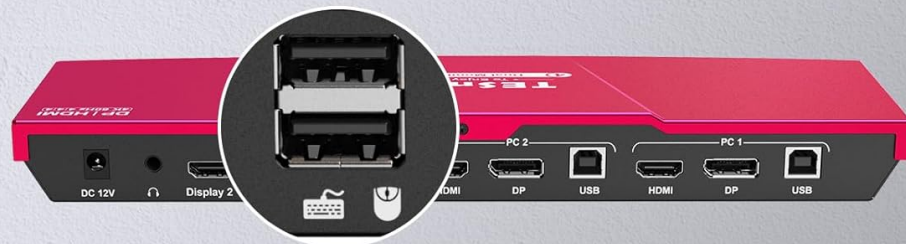


Image: Examples of various keyboard and mouse types compatible with the KVM switch, including common, wireless, mechanical, and multimedia.

- **Audio Output:** Includes a 3.5mm Audio Jack port with a built-in DAC chip for stereo audio output to connected headphones or speakers.
- **Peripheral Sharing:** A dedicated USB 2.0 port allows sharing of USB hubs, USB drives, printers, or scanners across multiple devices. (Note: Hotkey switching is not supported when the keyboard is connected to this USB 2.0 port).
- **Plug and Play:** Easy to set up with no software or drivers required. Supports hot-plugging for adding or removing devices without powering off the KVM switch.
- **Operating System Support:** Compatible with Unix, Windows, Debian, Ubuntu, Fedora, Mac OS X, Raspbian, Ubuntu for Raspberry Pi, and other Linux-based systems.

4. Setup Guide

Follow these steps to connect your TESmart KVM Switch:

1. **Connect Computers to KVM:** For each computer (PC1 and PC2), connect one HDMI cable, one DisplayPort cable, and one USB-B to USB-A cable from your computer's output ports to the corresponding input ports on the KVM switch (e.g., PC1 HDMI to KVM PC1 HDMI, PC1 DP to KVM PC1 DP, PC1 USB to KVM PC1 USB).

Ensure both HDMI and DisplayPort cables are connected for full dual monitor functionality.

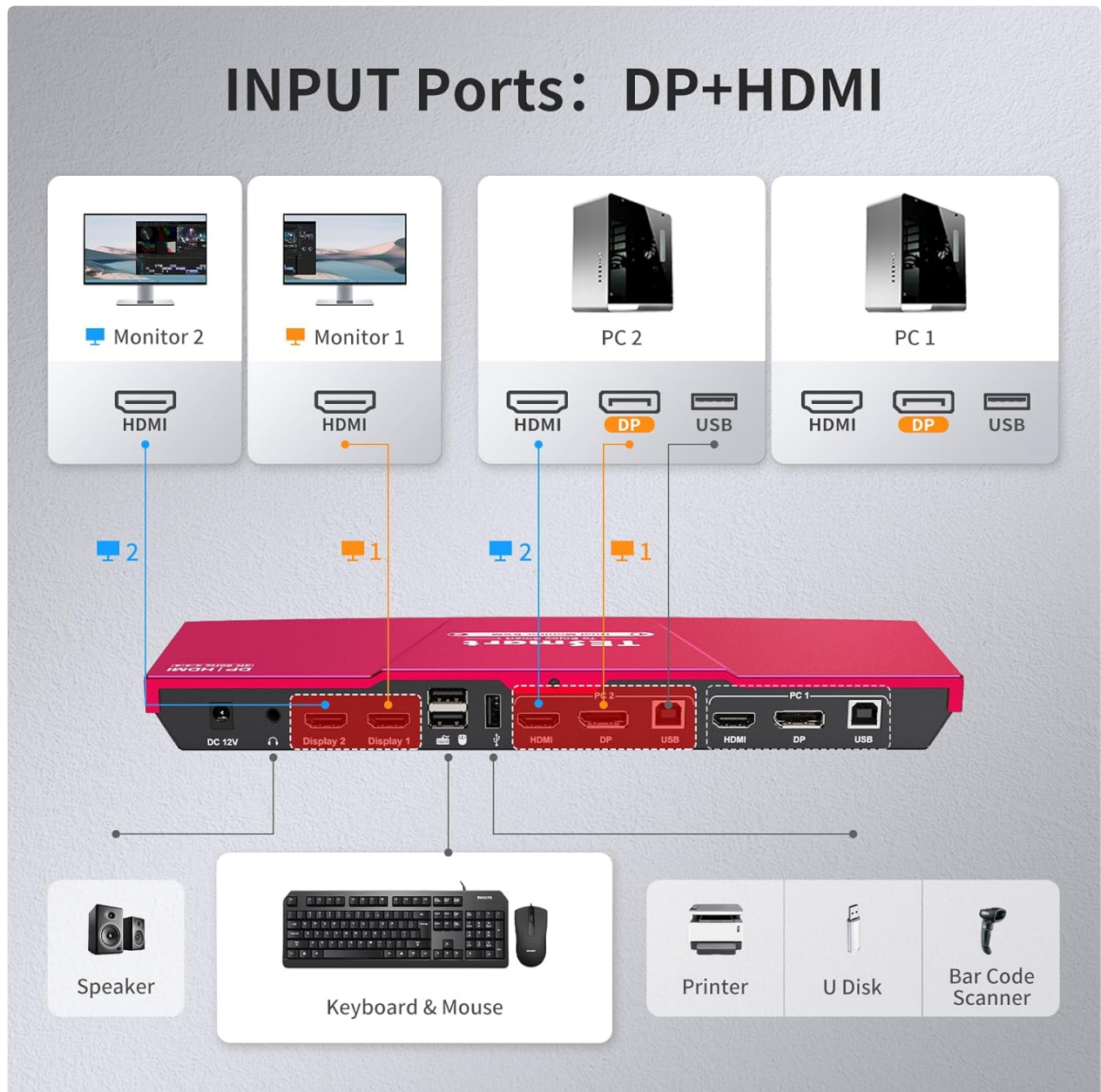


Image: A detailed diagram showing how to connect two computers to the KVM switch's input ports for dual monitor setup.

2. **Connect Monitors to KVM:** Connect your two monitors to the KVM switch's Display 1 and Display 2 output ports using HDMI cables.
3. **Connect Keyboard and Mouse:** Plug your keyboard and mouse into the dedicated USB ports on the KVM switch.
4. **Connect Peripherals (Optional):** If you have additional USB peripherals (e.g., printer, USB drive), connect them to the USB 2.0 port on the KVM switch.
5. **Connect Audio (Optional):** If desired, connect your headphones or speakers to the 3.5mm audio jack on the KVM switch.
6. **Power On:** Connect the DC 12V power adapter to the KVM switch and plug it into a power outlet. Turn on the KVM switch using the power button.

Setup Demonstration Video:

Video: A step-by-step guide demonstrating the physical connections for setting up the TESmart KVM Switch with two computers and two monitors.

5. Operating Instructions

The TESmart KVM Switch offers multiple methods for switching between connected computers:

- **Front Panel Button:** Simply press the 'Selection' button on the front panel of the KVM switch to toggle between PC1 and PC2.
- **IR Remote Control:** Use the included IR remote control to switch between computers. Ensure the remote has AAA batteries installed (not included).
- **Hotkey Switching:** Utilize keyboard hotkeys for quick and efficient switching.



Image: Visual guide to the three convenient switching methods: keyboard hotkeys, the front panel button, and the IR remote control.

Hotkey Commands:

Function	Hotkey Command
Switch to PC1	Scroll Lock + Scroll Lock + 1
Switch to PC2	Scroll Lock + Scroll Lock + 2

Function	Hotkey Command
Simultaneous Display Mode (Keyboard/Mouse focus on PC1)	Scroll Lock + Scroll Lock + 3
Simultaneous Display Mode (Keyboard/Mouse focus on PC2)	Scroll Lock + Scroll Lock + 4

Operation Demonstration Video:

Video: A demonstration of the KVM switch in operation, showing how to switch between computers using the front panel button and hotkeys.

6. Troubleshooting

If you encounter issues with your KVM switch, please refer to the following common troubleshooting tips:

- **No Display/Incorrect Resolution:**
 - Ensure all HDMI and DisplayPort cables are securely connected to both the KVM switch and your computers/monitors.
 - Verify that your computer's display settings are configured for dual monitors and the correct resolution.
 - Check if the KVM switch is powered on and the correct input is selected.
 - Try restarting the KVM switch and then your computers.
- **Keyboard/Mouse Not Responding:**
 - Ensure the keyboard and mouse are plugged into the dedicated USB ports on the KVM switch.
 - If using a wireless keyboard/mouse, ensure the 2.4G receiver is properly connected and the devices are charged.
 - Avoid connecting the keyboard to the general USB 2.0 peripheral port if you intend to use hotkey switching.
 - Try unplugging and re-plugging the keyboard/mouse.
- **Display Settings Change After Switching:**
 - The built-in EDID emulators should prevent this. Ensure all cables are high-quality and properly connected.
 - Verify that your operating system and graphics drivers are up to date.
- **Audio Issues:**
 - Check that your headphones/speakers are correctly plugged into the 3.5mm audio jack.
 - Ensure the correct audio output device is selected in your computer's sound settings (often the monitor itself if audio is passed through HDMI/DP).

For more detailed troubleshooting, please refer to the official[Troubleshooting Guide \(PDF\)](#).

7. Specifications

Feature	Detail
Product Dimensions	11.81 x 4.33 x 1.18 inches

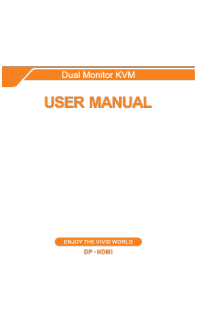

Feature	Detail
Item Weight	1.32 Pounds
Item Model Number	HDK202-E23
Manufacturer	TESmart
ASIN	B0888V13CS
Country of Origin	China
Operation Mode	ON-OFF
Current Rating	2 Amps
Operating Voltage	12 Volts (DC)
Connector Type	Plug In
Actuator Type	Push Button
Contact Material	Copper





8. Warranty and Support

The TESmart DisplayPort + HDMI KVM Switch comes with a **1-year warranty** from the date of purchase. This warranty covers manufacturing defects and ensures reliable performance of your device.

For any questions, concerns, or technical assistance, please reach out to the TESmart customer experience design team. You can typically find contact information on the product packaging, the official TESmart website, or through your purchase platform's seller messaging system.

Related Documents - HDK202-E23

	<p>TESmart Dual Monitor KVM User Manual: Control Two Computers with Dual Displays</p> <p>Explore the TESmart Dual Monitor KVM Switch user manual for detailed setup, features, and operation. Learn to manage two computers with a single set of peripherals and dual monitors efficiently.</p>
	<p>TESmart KVM Switch Troubleshooting Guide: Resolve Common AV Issues</p> <p>Comprehensive troubleshooting guide for TESmart KVM switches, covering hotkey, keyboard/mouse, video signal, audio, and resolution issues. Includes model HKS0202A10.</p>

	<p>TESmart 2x2 HDMI+DP Dual Monitor KVM Switch User Manual</p> <p>Comprehensive user manual for the TESmart 2x2 HDMI+DP Dual Monitor KVM Switch, detailing features, connection, operation, and troubleshooting. Supports 4K@60Hz resolution, dual display, USB 3.0, and hotkey switching.</p>
	<p>TESmart HKS201-E23/HKS401-E23 2-Port KVM Switch with USB 3.0 Docking Station - User Manual</p> <p>User manual detailing the features, specifications, installation, and usage of the TESmart HKS201-E23 and HKS401-E23 2-port KVM switch kits, which include HDMI 4K60Hz support and USB 3.0 docking station capabilities for controlling two PCs.</p>
	<p>TESmart HKS0201B2U KVM Switch Troubleshooting Guide</p> <p>Comprehensive troubleshooting guide for TESmart KVM switches, including model HKS0201B2U. Covers common issues with hotkeys, keyboard/mouse, video signals, audio, and refresh rates/resolutions. Provides solutions and setup tips for 2-port HDMI KVM switches supporting 4K 60Hz, EDID, and USB 2.0 hub functionality.</p>
	<p>TESmart Dual Monitor KVM Switch User Manual</p> <p>Comprehensive user manual for the TESmart 4x2 Dual Monitor KVM Switch. This guide covers product features, packing list, panel descriptions, display modes, connection diagrams, usage instructions, keyboard hotkeys, IR remote control, verified peripherals, warranty information, and technical support.</p>