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TESmart HDK0402A1U-EUBK

TESmart 4K@60Hz DisplayPort HDMI KVM Switch User Manual

Model: HDK0402A1U-EUBK

1. Introduction

The TESmart 4K@60Hz DisplayPort HDMI KVM Switch allows you to control two computers with two monitors using a single set of keyboard and mouse. This device supports high-resolution video output and offers multiple switching methods for efficient workflow, making it ideal for home offices and professional environments.



Image: The TESmart KVM Switch in a typical dual-monitor, dual-PC setup.

2. Product Features

- **DP + HDMI KVM Switch (2 In 2 Out):** Control two computers and two monitors with one keyboard and mouse. Supports two display modes for maximum efficiency: duplicating one PC across both monitors or using monitors for different content.
- **EDID Emulator for Stability:** Built-in EDID emulator ensures smooth switching between sources without display flickering or window rearrangement. This feature is active in Display Mode 1.

- **Ultra HD 4K@60Hz:** Supports resolutions up to 3840x2160 (4K) at 60Hz, 3440x1440 at 100Hz, and 2560x1440 at 144Hz. Backward compatible with 3D, HDR10, HDCP2.2, and Dolby Vision for enhanced video quality.
- **High Keyboard and Mouse Compatibility:** Advanced USB pass-through mode supports most wired and wireless (2.4GHz dongle) keyboard and mouse models. **Note:** Bluetooth devices are not supported. For hotkey functionality, the keyboard must be connected to the dedicated KVM keyboard/mouse port.
- **Three Switching Methods:** Switch between connected PCs quickly using the front panel button, keyboard hotkeys, or the included IR remote control.
- **Perfect Audio Output:** Features a 3.5mm audio port with a DAC chip, providing clear stereo sound for connected audio devices.

3. Setup Instructions

3.1. Unpacking the Box

Verify that all components are present:

- 1x TESmart 2-Way Dual Monitor KVM Switch
- 2x KVM Cables (HDMI + USB A/B)
- 2x DisplayPort Cables
- 1x IR Remote Control (AAA batteries not included)
- 1x User Manual
- 1x DC 12V Power Adapter



Image: All items included in the product packaging.

3.2. Connection Diagram

Follow these steps to connect your devices to the KVM switch:

1. **Connect Monitors:** Connect your two monitors to the KVM's Display 1 (HDMI and DP) and Display 2 (HDMI and DP) output ports using the provided HDMI and DisplayPort cables.
2. **Connect Computers:** For each PC (PC1 and PC2), connect its HDMI output, DisplayPort output, and a USB-A port to the corresponding PC 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). Use the provided KVM cables.
3. **Connect Keyboard and Mouse:** Connect your keyboard and mouse to the dedicated USB ports on the KVM switch labeled with keyboard and mouse icons.
4. **Connect Peripherals (Optional):** Connect other USB devices such as printers, USB drives, or barcode scanners to the USB 3.0 ports on the KVM switch.
5. **Connect Audio (Optional):** If desired, connect headphones or speakers to the 3.5mm audio output 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.

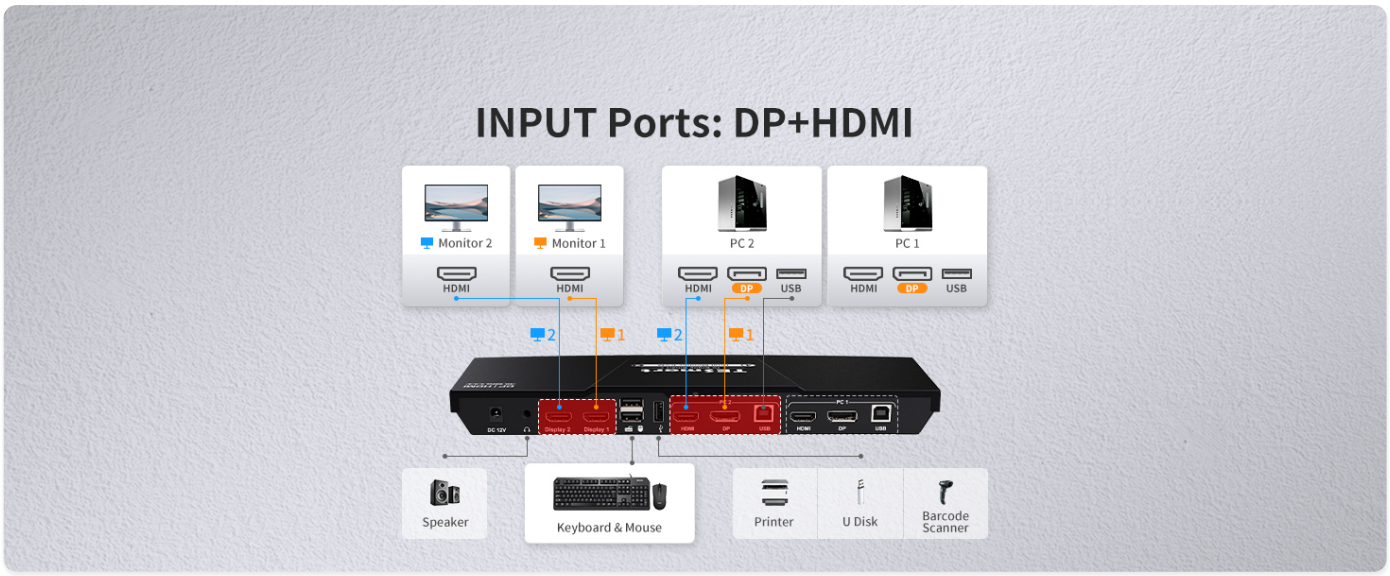


Image: Connection diagram for the TESmart KVM Switch, illustrating input and output ports.

4. Operating Instructions

4.1. Switching Between Computers

You can switch between the connected computers using one of three methods:

- **Front Panel Button:** Press the 'Select' button on the front panel of the KVM switch to cycle between PC1 and PC2.
- **Keyboard Hotkeys:** Use the hotkey sequence Scroll Lock + Scroll Lock + 1 for PC1 or Scroll Lock + Scroll Lock + 2 for PC2. Ensure your keyboard is connected to the dedicated KVM keyboard port for hotkeys to function.
- **IR Remote Control:** Point the IR remote control at the KVM switch and press the corresponding button for PC1 or PC2.

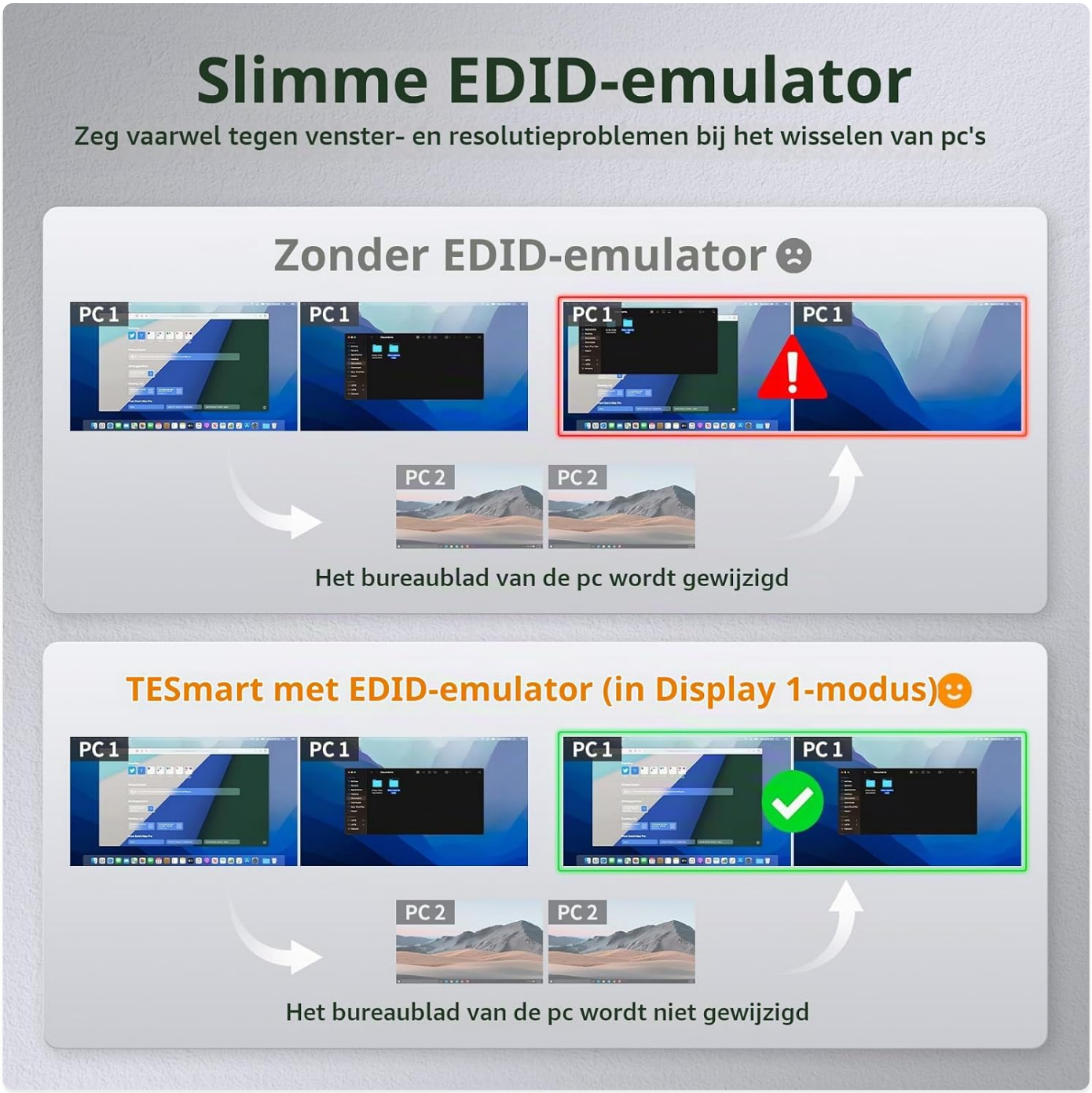


Image: Visual representation of the three switching methods.

4.2. Display Modes

The KVM switch supports two primary display modes:

- **Display Mode 1 (Same PC):** In this mode, both monitors display content from a single PC. You can configure this as either a duplicated display (both monitors show the same content) or an extended display (one PC's desktop spans across both monitors). This mode benefits from the EDID emulator.
- **Display Mode 2 (Different PCs):** Each monitor displays content from a different PC. For example, Monitor 1 shows PC1, and Monitor 2 shows PC2.



Image: Explanation of multiple display modes supported by the KVM switch.

4.3. EDID Emulation

The built-in EDID emulator helps maintain display stability and window arrangements when switching between computers, especially in Display Mode 1. This prevents issues like screen flickering or windows resizing and rearranging after a switch.

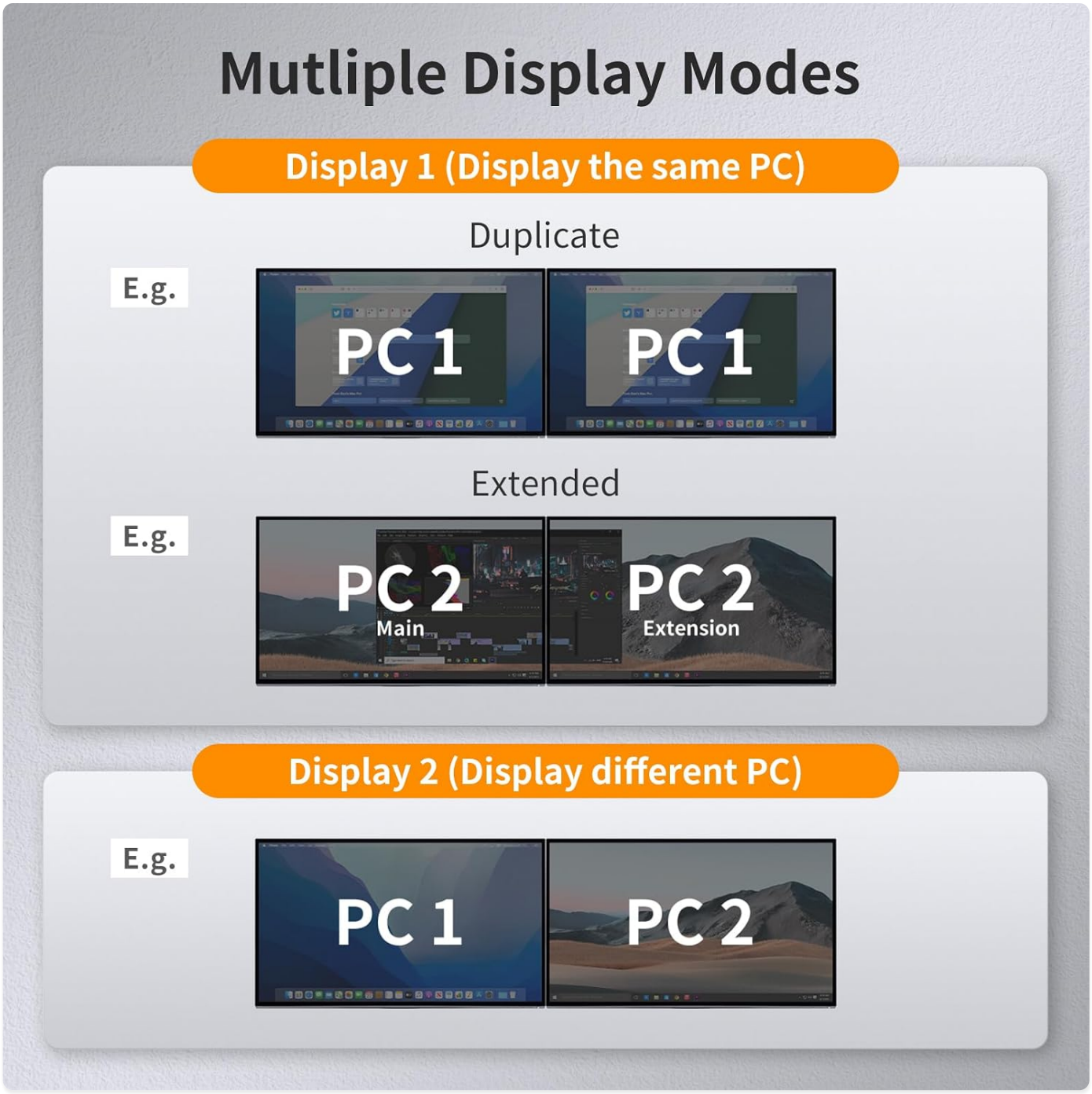


Image: Visual comparison of display behavior with and without EDID emulation.

5. Maintenance

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

- **Keep Clean:** Regularly wipe the device with a soft, dry cloth. Avoid using liquid cleaners or solvents.
- **Avoid Liquids:** Do not expose the KVM switch to water or other liquids.
- **Proper Ventilation:** Ensure the device is placed in a well-ventilated area to prevent overheating.
- **Cable Management:** Organize cables neatly to prevent strain on ports and accidental disconnections.
- **Power Off When Not in Use:** If the device will not be used for an extended period, disconnect it from the power supply.

6. Troubleshooting

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

- **No Display on Monitors:**
  - Check all HDMI and DisplayPort cable connections between the KVM, computers, and monitors.
  - Ensure the KVM switch is powered on and the correct input (PC1 or PC2) is selected.
  - Verify that your computers are powered on and outputting a video signal.
  - Try connecting monitors directly to the computers to rule out monitor or computer issues.
- **Keyboard/Mouse Not Responding:**
  - Ensure the keyboard and mouse are connected to the dedicated KVM keyboard/mouse USB ports.
  - Check USB cable connections from the computers to the KVM switch.
  - If using a wireless keyboard/mouse, ensure the 2.4GHz dongle is connected to the dedicated KVM port. Bluetooth devices are not supported.
  - Try a different keyboard/mouse to isolate the issue.
- **Display Flickering or Windows Rearranging:**
  - This can occur if the EDID emulator is not functioning correctly or if you are in a display mode that does not fully utilize it. Ensure you are using Display Mode 1 for optimal EDID emulation.
  - Update graphics drivers on your computers.
- **No Audio Output:**
  - Check the 3.5mm audio cable connection from your speakers/headphones to the KVM switch.
  - Ensure the audio output on your computer is set to the KVM switch.
  - Verify that the volume levels on your computer and audio device are not muted or too low.

7. Specifications

Product Dimensions	30 x 11.5 x 3 cm
Item Weight	1.2 kg
Max Resolution	3840x2160 (4K) @60Hz, 3440x1440 @100Hz, 2560x1440 @144Hz
Video Protocols	HDMI, DisplayPort
USB Ports	USB-A (for keyboard/mouse and USB 3.0 peripherals)
Audio Output	3.5mm Jack with DAC chip

Power Supply	DC 12V
Material	Metal
Control Modes	Manual Button, Hotkey, IR Remote
Compatible Devices	Computers, monitors, keyboards, mice, scanners, printers, audio devices, HDMI and DisplayPort compatible monitors, IT devices
Model Number	HDK0402A1U-EUBK
UPC	720310303324

8. Warranty and Support

TESmart is committed to providing high-quality products and excellent customer service. Your KVM switch comes with the following:

- **2-Year Manufacturer Warranty:** Covers defects in materials and workmanship under normal use.
- **Free Lifetime Technical Support:** Assistance is available for any technical questions or issues you may encounter.
- **Free Return Policy:** Refer to your purchase platform for specific return window details.
- **24/7 Technical Support:** For assistance, please contact service@tesmart.de.

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