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› HDMI 4K @ 60 Hz KVM Switch - EDID Simulation - 10 Ports - USB 3.0 KVM Switches for 10 PCs - 1 Monitor and 4 USB Devices - KVM Switch with Audio RS232 - Remote Control 1-10 PC 1 Monitor

MLEEDA KC-KVM1001A

MLEEDA 10-Port HDMI 4K@60Hz KVM Switch User Manual

Model: KC-KVM1001A

1. INTRODUCTION

Thank you for choosing the MLEEDA 10-Port HDMI 4K@60Hz KVM Switch. This device is designed to streamline your workspace by allowing you to control up to ten computers using a single set of keyboard, mouse, and monitor. It supports high-resolution video output, fast USB 3.0 data transfer, and offers multiple switching methods for convenience. Please read this manual carefully to ensure proper installation and operation.

2. PRODUCT OVERVIEW

The MLEEDA KC-KVM1001A is a high-performance KVM switch that enables seamless switching between multiple computers. It is ideal for environments requiring control over numerous systems, such as data centers, testing facilities, or multi-PC workstations. Key features include:

- Control up to 10 PCs from a single HDMI monitor, keyboard, and mouse.
- Share 4 USB 3.0 peripheral devices among connected computers.
- Supports HDMI 2.0 with resolutions up to 4K@60Hz.
- Features EDID simulation for stable display output.
- Multiple switching options: front panel buttons, wired remote control, and RS232 commands.
- LED indicators for active PC selection.



Figure 2.1: Front and Rear View of the KVM Switch. This image displays the compact design of the KVM switch, highlighting its front panel with input selection buttons, USB 3.0 ports, and LED indicators, as well as the rear panel with 10 HDMI and USB 3.0 input ports for PCs, a monitor output, and power input.

3. PACKAGE CONTENTS

Please check the package contents upon opening. If any items are missing or damaged, contact your vendor immediately.

- 1 x MLEEDA 10-Port HDMI KVM Switch (Model: KC-KVM1001A)
- 10 x USB 3.0 A-to-B Cables
- 1 x 12V DC Power Adapter
- 1 x Wired Remote Control (1.5m)
- 1 x User Manual

Broad Compatibility



Figure 3.1: Included Accessories and Product Dimensions. This image illustrates the KVM switch along with its accessories: ten USB 3.0 cables, a 12V power adapter, a wired remote, and the user manual. It also shows the physical dimensions of the KVM switch.

4. SETUP INSTRUCTIONS

Follow these steps to set up your MLEEDA KVM Switch:

1. **Power Off All Devices:** Ensure all computers, the monitor, and the KVM switch are powered off before making any connections.
2. **Connect Monitor:** Connect your HDMI monitor to the "Monitor" HDMI output port on the KVM switch.
3. **Connect Keyboard and Mouse:** Connect your USB keyboard and mouse to the dedicated USB ports on the front panel of the KVM switch.
4. **Connect USB Peripherals:** Connect any additional USB 3.0 devices (e.g., printer, USB drive, headset) to the remaining USB 3.0 ports on the front panel.
5. **Connect PCs:** For each PC (up to 10), connect one HDMI cable from the PC's HDMI output to a corresponding "PC-X" HDMI input on the KVM switch. Then, connect one USB 3.0 A-to-B cable from a USB 3.0 port on the PC to the corresponding "PC-X" USB 3.0 input on the KVM switch.

6. **Connect Wired Remote (Optional):** Plug the wired remote control into the "Wired Remote" port on the front panel if you wish to use it for switching.
7. **Connect Power:** Plug the 12V DC power adapter into the "DC/12V" port on the KVM switch and then into a power outlet.
8. **Power On:** Power on the KVM switch, then power on your monitor, and finally power on your connected computers.

Each computer needs 1*HDMI+1*USB cable to connect to KVM

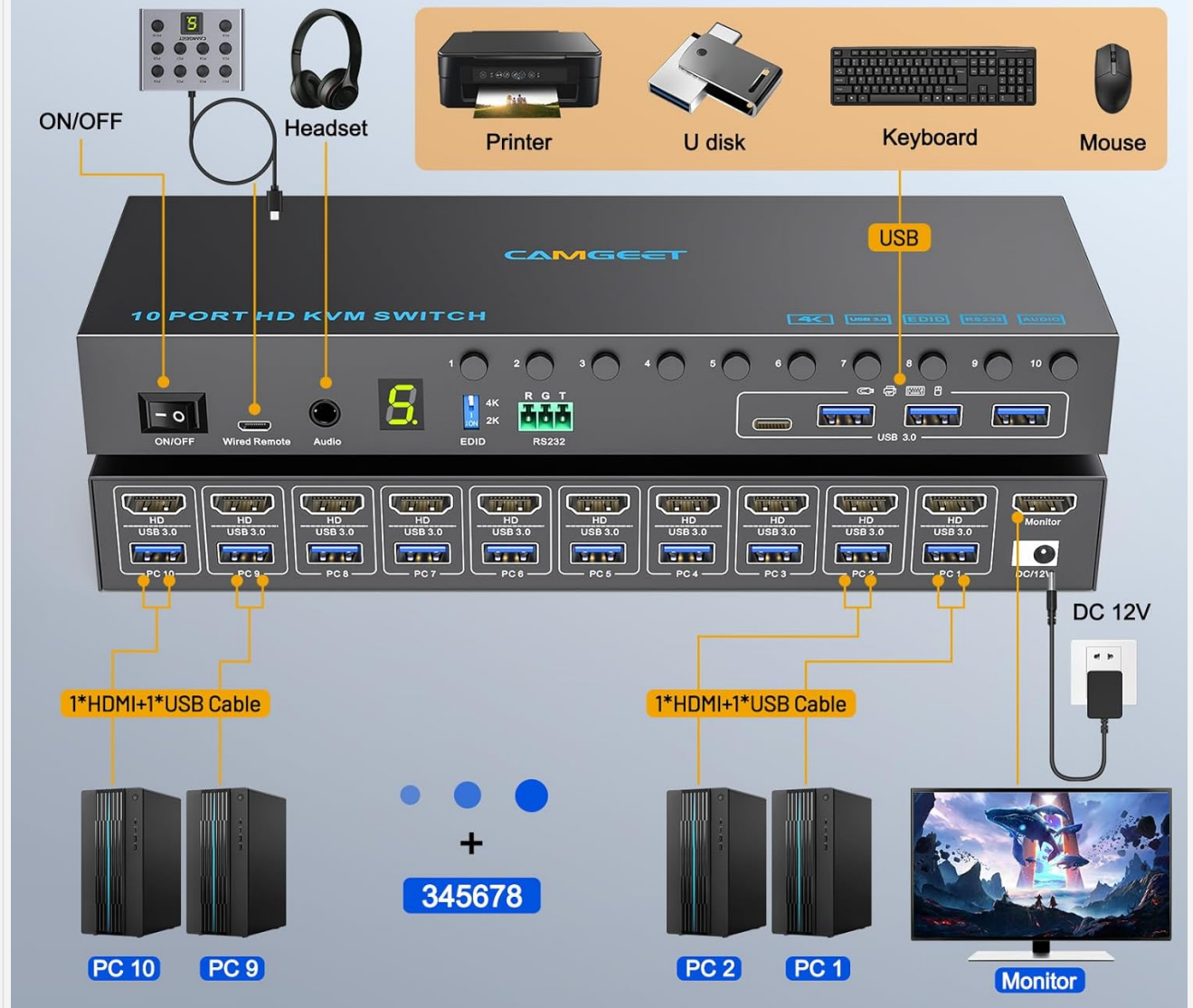


Figure 4.1: Detailed Connection Diagram. This diagram illustrates how to connect multiple PCs, a monitor, keyboard, mouse, and other USB peripherals to the KVM switch, emphasizing that each PC requires both an HDMI and a USB 3.0 cable connection.

10 PC Share 1 Monitor and 4 Peripheral USB Devices



Figure 4.2: Typical 10 PC Setup. This image shows a typical setup where ten computer towers are connected to the KVM switch, allowing a single monitor, keyboard, and mouse to control all of them, demonstrating the space-saving benefit.

5. OPERATING INSTRUCTIONS

5.1 Switching Between Computers

The MLEEDA KVM switch offers three methods for switching between connected computers:

- **Front Panel Buttons:** Press the numbered buttons (1-10) on the front panel corresponding to the PC you wish to switch to. The LED indicator above the button will illuminate to show the active PC.
- **Wired Remote Control:** Use the included wired remote control to switch between PCs. The remote typically has numbered buttons or up/down arrows for selection.
- **RS232 Commands:** For advanced control, the KVM switch supports RS232 commands. Refer to the detailed RS232 protocol in the full technical manual (if available) for command syntax.



Figure 5.1: Switching Options. This image demonstrates the two primary methods of switching between computers: using the front panel buttons directly on the KVM switch and using the external wired remote control for convenience.

5.2 EDID Emulation

The KVM switch features EDID (Extended Display Identification Data) emulation to ensure stable and consistent display output when switching between computers. This prevents display resolution or icon rearrangement issues.

- To turn on/off the EDID emulation function, press and hold button 1 on the front panel for 3 seconds.

Ultra-fast USB 3.0 Data Transfer Rates of Up to 5Gbps

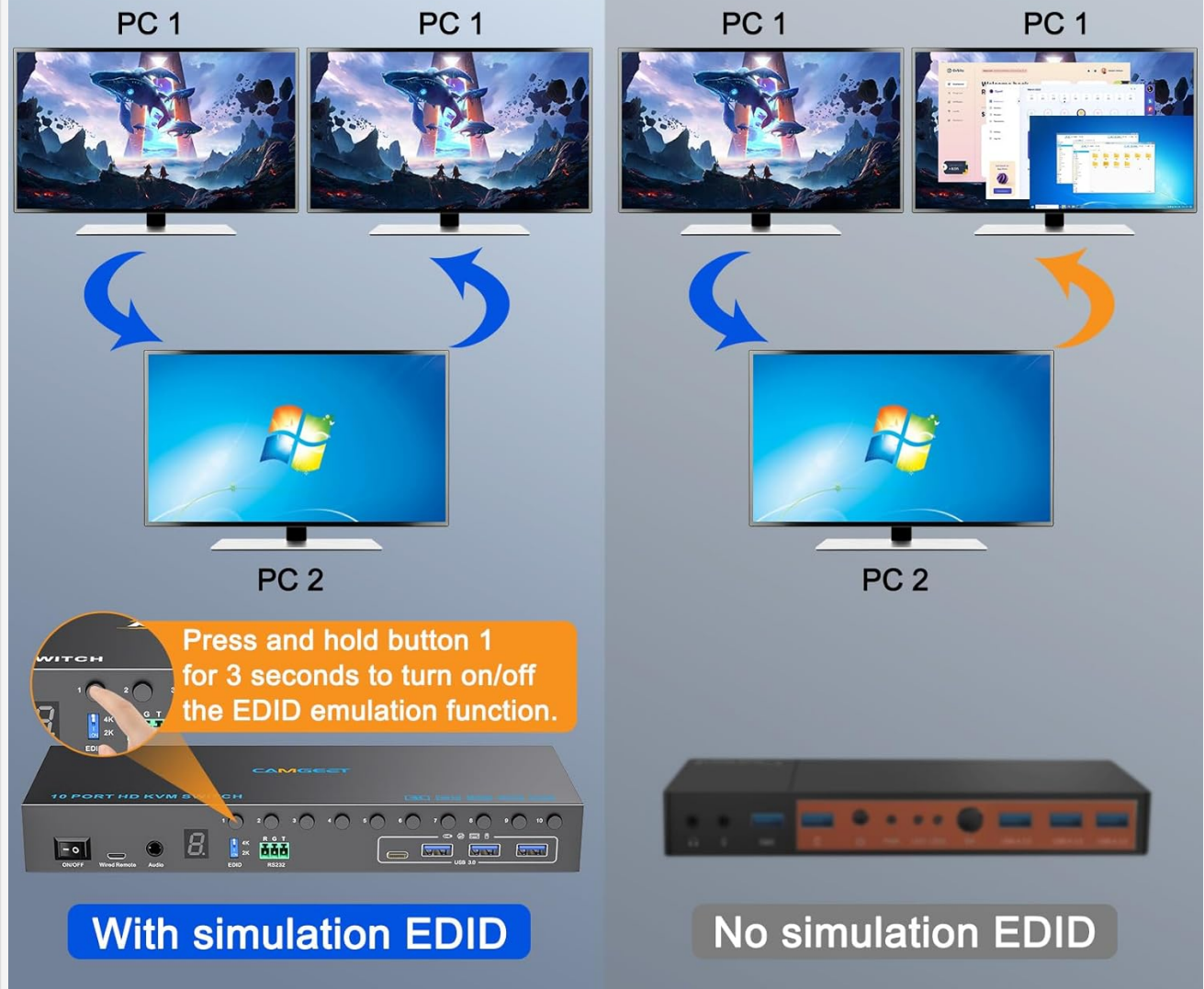


Figure 5.2: EDID Emulation Functionality. This image illustrates the benefit of EDID emulation, showing how it maintains stable display settings and prevents screen flickering or resolution changes when switching between different PCs, compared to a device without this feature.

5.3 USB 3.0 Data Transfer

The KVM switch supports ultra-fast USB 3.0 data transfer rates of up to 5Gbps, allowing for quick access to shared USB devices.

Ultra-fast USB 3.0 Data Transfer Rates of Up to 5Gbps

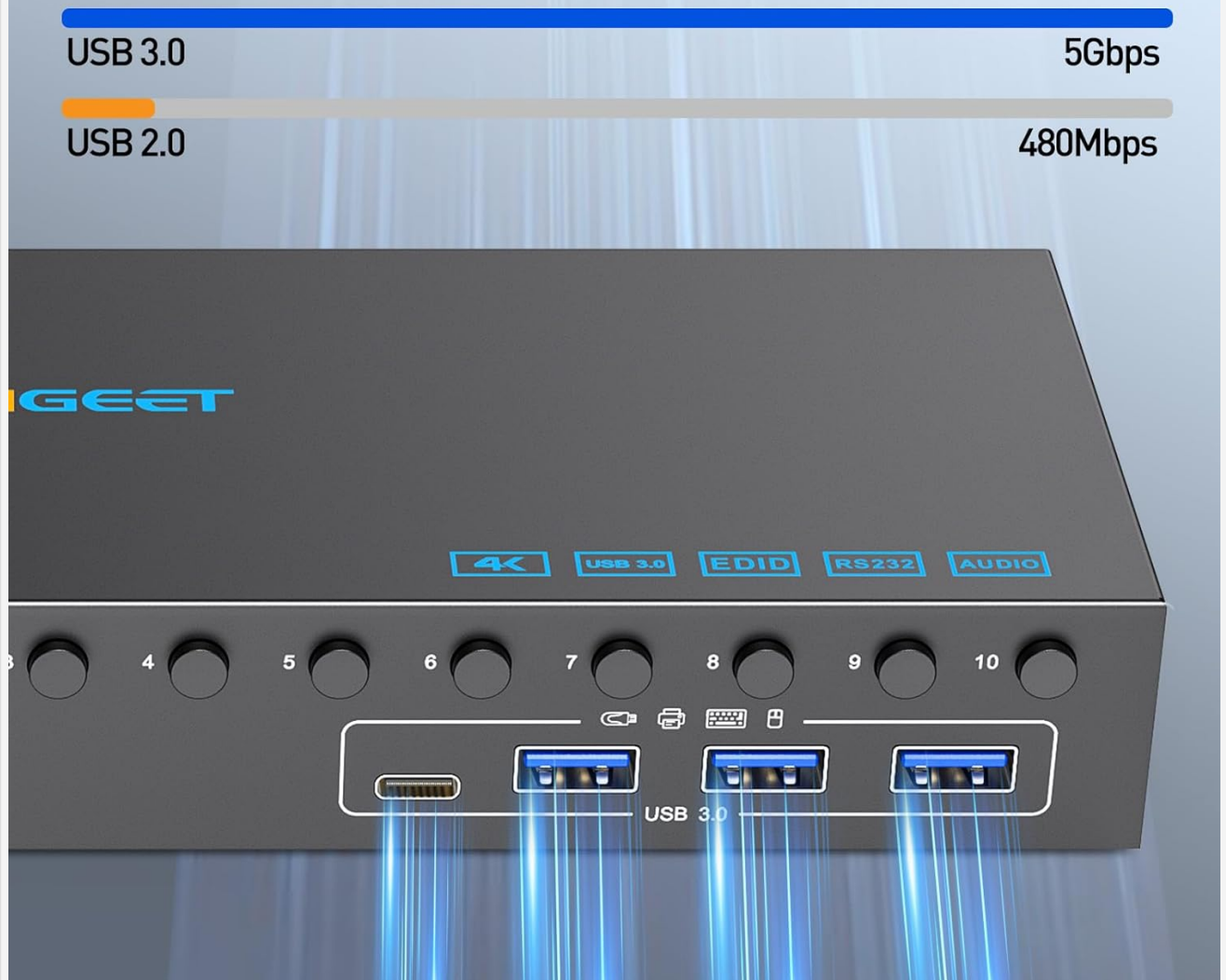


Figure 5.3: USB 3.0 Speed Comparison. This image visually compares the data transfer speed of USB 3.0 (5Gbps) to USB 2.0 (480Mbps), highlighting the superior performance of USB 3.0 for connected peripherals.

6. TROUBLESHOOTING

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

Problem	Possible Cause	Solution
No display on monitor	Loose HDMI cable connection; Incorrect input selected; EDID issue; Power issue.	Check all HDMI cable connections. Ensure the correct PC input is selected on the KVM. Try toggling EDID emulation (press and hold button 1 for 3 seconds). Verify KVM power supply. Try a different HDMI cable.
Keyboard/Mouse not working	Loose USB cable connection; Incorrect USB port used; KVM not powered.	Ensure USB cables from PCs to KVM are securely connected. Connect keyboard/mouse to the dedicated USB ports on the KVM front panel. Check KVM power. Try reconnecting the keyboard/mouse.

Problem	Possible Cause	Solution
USB peripherals not detected	Loose USB cable connection; Driver issue on PC; Power issue.	Check USB 3.0 cable connections. Ensure the KVM is powered. Try connecting the peripheral directly to the PC to rule out driver issues. Some high-power USB devices may require external power.
Switching is slow or unresponsive	Temporary glitch; Overheating.	Restart the KVM switch by unplugging and replugging the power adapter. Ensure adequate ventilation around the KVM switch.

7. SPECIFICATIONS

Feature	Detail
Model Number	KC-KVM1001A
Brand	MLEEDA
Input Ports	10 x HDMI, 10 x USB 3.0 (Type B)
Output Ports	1 x HDMI, 4 x USB 3.0 (Type A)
Video Resolution	Up to 4K@60Hz
USB Data Rate	Up to 5Gbps (USB 3.0)
Switching Methods	Front Panel Buttons, Wired Remote, RS232
Operating Voltage	5 Volts (DC 12V Power Adapter included)
Operating Current	2 A
Material	Metal Casing
Dimensions (L x W x H)	24 x 8 x 3 cm (9.45 x 3.15 x 1.26 inches)
Weight	580 grams
Host Compatibility	STB, Laptop, PS4, PC
System Compatibility	Windows, Mac OS, Linux, Chrome OS, Vista

Broad Compatibility

Plug and play, no drivers required

Host compatibility



System compatibility

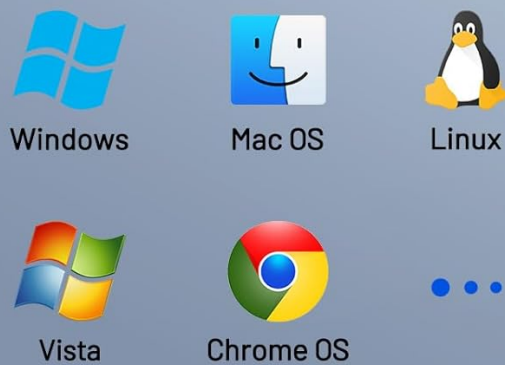


Figure 7.1: Broad Compatibility. This image highlights the wide range of host devices (STB, Laptop, PS4, PC) and operating systems (Windows, Mac OS, Linux, Chrome OS, Vista) that are compatible with the KVM switch, indicating its versatility.

4K@60Hz HD Visual Enjoyment



Figure 7.2: High-Definition Visual Experience. This image emphasizes the KVM switch's support for 4K@60Hz resolution, promising a superior visual experience compared to lower resolutions like 4K@30Hz.

8. MAINTENANCE

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

- Keep the device in a cool, dry place away from direct sunlight and heat sources.
- Avoid exposing the device to moisture or extreme temperatures.
- Clean the device with a soft, dry cloth. Do not use liquid or aerosol cleaners.
- Ensure proper ventilation around the unit to prevent overheating.
- Do not attempt to open or repair the device yourself. Refer all servicing to qualified personnel.

9. WARRANTY AND SUPPORT

MLEEDA products are designed and manufactured to the highest quality standards. For warranty information and technical support, please refer to the warranty card included with your product or visit the official MLEEDA website.

Our core value is to make users' work more comfortable and efficient.
For further assistance, please contact MLEEDA customer support.

