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NAWEN NA-KVM203DH

NAWEN KVM Switch NA-KVM203DH User Manual

Triple Monitor KVM Switch for 2 Computers (DisplayPort & HDMI)

1. Product Overview

The NAWEN NA-KVM203DH KVM Switch allows two computers to share three monitors and four USB 3.0 devices. This device supports extended and mirrored display modes, providing a flexible solution for managing multiple workstations with a single set of peripherals.

Key Features:

- Connects 2 computers to 3 monitors (2x DisplayPort, 1x HDMI).
- Supports resolutions up to 8K@60Hz (HDMI) and 8K@30Hz / 4K@144Hz (DisplayPort).
- Integrated 4x USB 3.0 ports for sharing keyboard, mouse, printer, U disk, and other USB 3.0 devices.
- USB 3.0 ports offer data transfer speeds up to 5Gbps, backward compatible with USB 2.0.
- Supports both extended and mirrored display modes.
- Switching via front panel button or wired remote control.
- Plug and Play compatibility with Windows, Mac OS, and Linux operating systems.

Package Contents:

Verify that all items are present in the package:

- 1x NAWEN Triple Monitor KVM Switch (NA-KVM203DH)
- 2x DisplayPort 1.4 Cables
- 1x HDMI 2.1 Cable
- 2x USB 3.0 Cables
- 1x 12V1A Power Adapter
- 1x Wired Remote Control
- 1x User Manual



Image 1.1: Contents of the NAWEN KVM Switch package, including the KVM unit, various cables (DisplayPort, HDMI, USB 3.0), power adapter, wired remote, and user manual.

2. Setup Instructions

Follow these steps to correctly set up your NAWEN KVM Switch.

2.1 Connection Diagram

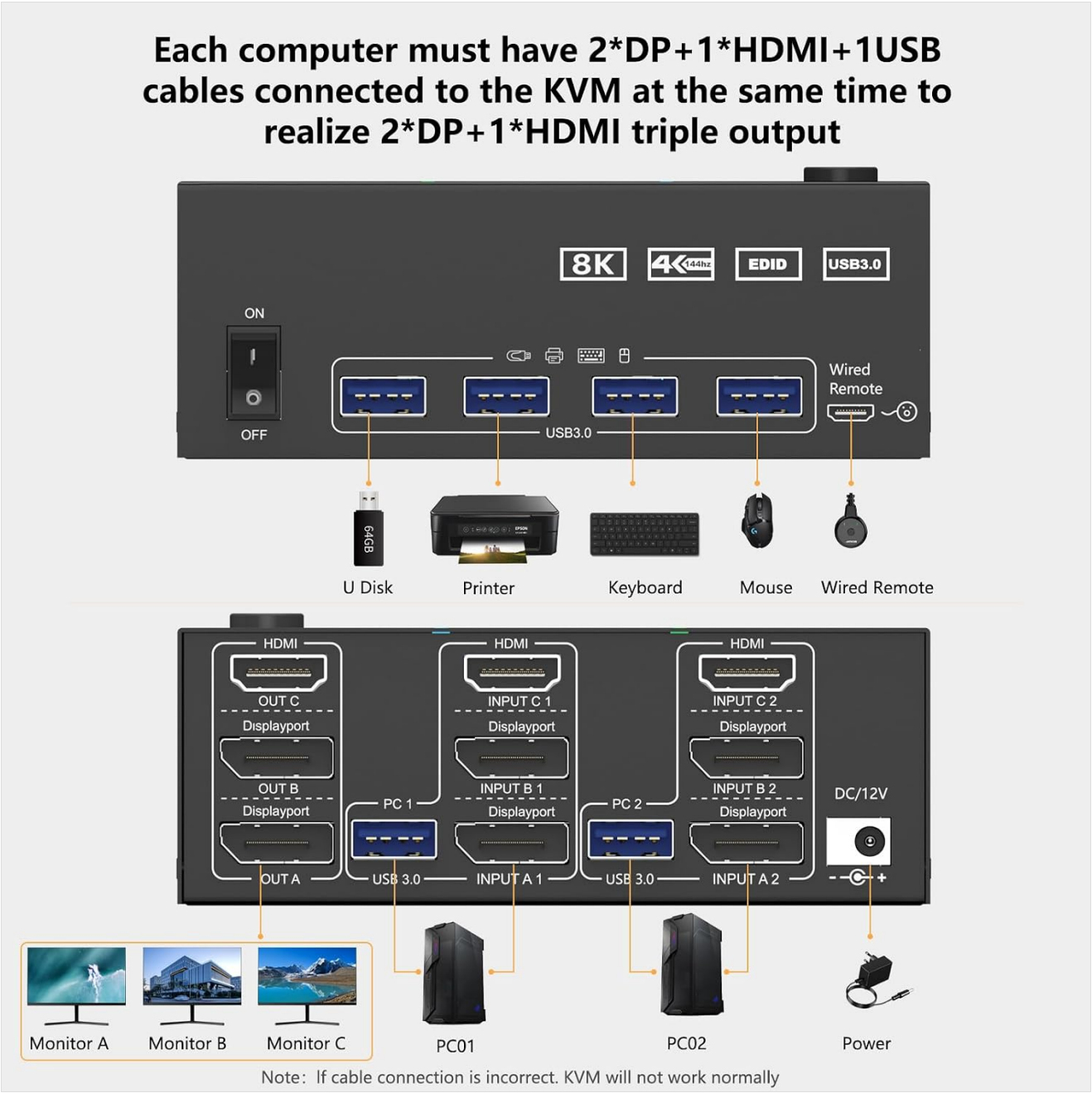


Image 2.1: Detailed connection diagram showing the rear panel of the KVM switch with inputs for two PCs (PC1, PC2) and outputs for three monitors (OUT A, OUT B, OUT C), along with USB 3.0 ports and power input.

2.2 Step-by-Step Connection

1. **Power Connection:** Connect the provided 12V1A power adapter to the DC/12V port on the KVM switch and plug it into a power outlet.
2. **Monitor Connections:**
    - Connect your three monitors to the KVM's output ports: OUT A (DisplayPort), OUT B (DisplayPort), and OUT C (HDMI).
    - Ensure your monitors are powered on.
3. **Computer Connections (Per Computer):** For each computer (PC1 and PC2), you must connect **two DisplayPort cables, one HDMI cable, and one USB 3.0 cable** to the KVM switch.
    - Connect DisplayPort cables from your computer's graphics card to INPUT A1 and INPUT B1 (for PC1) or INPUT A2 and INPUT B2 (for PC2).
    - Connect an HDMI cable from your computer's graphics card to INPUT C1 (for PC1) or INPUT C2 (for

PC2).

- Connect a USB 3.0 cable from your computer's USB 3.0 port to the corresponding USB 3.0 input (PC1 or PC2) on the KVM switch. This enables USB peripheral sharing.
- **Important:** Ensure your computer's graphics card supports multi-screen display (at least 2x DisplayPort and 1x HDMI output).

4. **Peripheral Connections:** Connect your keyboard, mouse, printer, U disk, or other USB 3.0 devices to the four USB 3.0 ports on the front panel of the KVM switch.
5. **Wired Remote Control (Optional):** Connect the wired remote control to the dedicated port on the KVM switch for convenient switching.



Image 2.2: Illustration of a typical setup with two desktop computers connected to the KVM switch, which in turn connects to three external monitors, a keyboard, and a mouse.

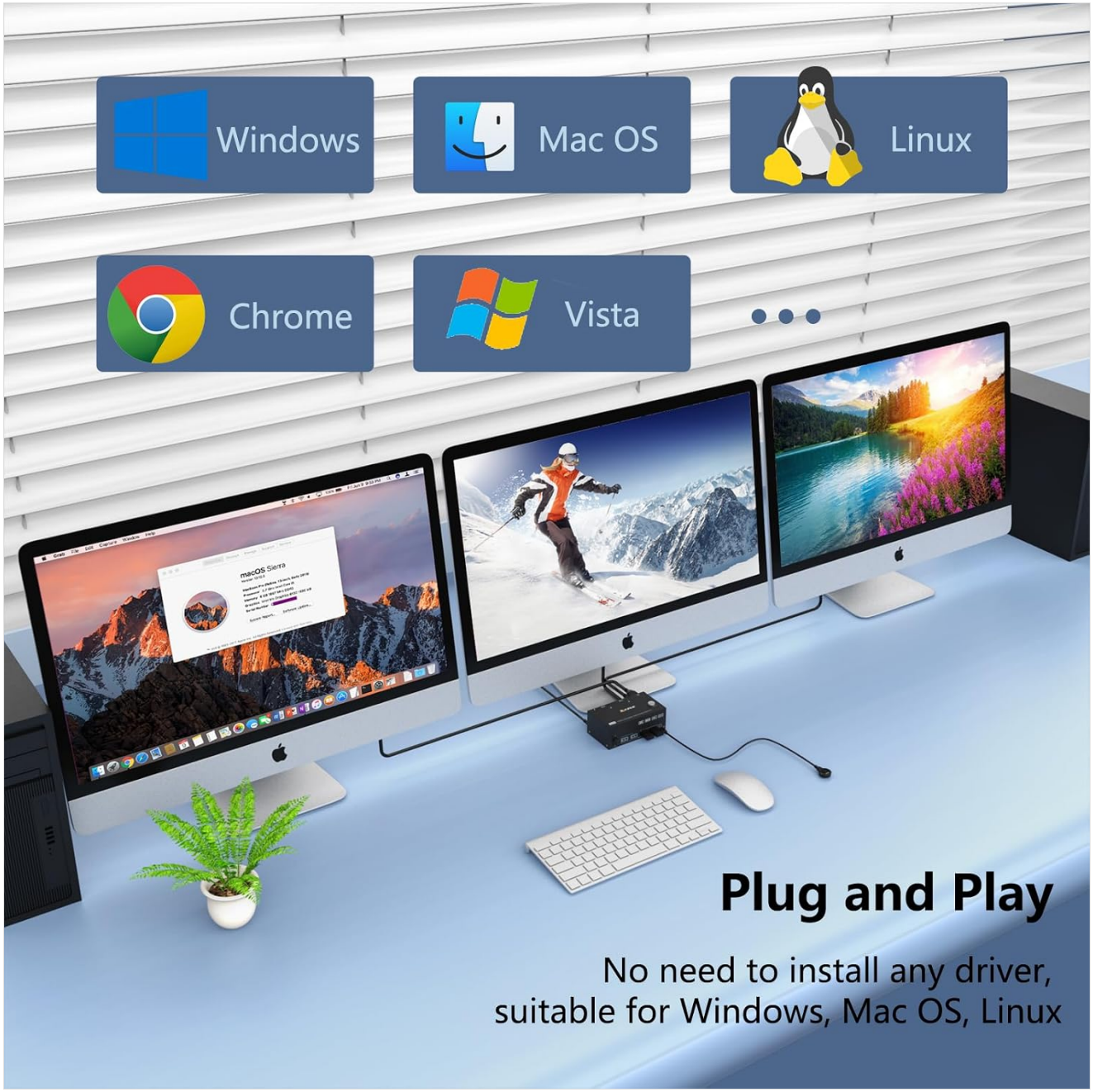


Image 2.3: The KVM switch is plug and play, requiring no driver installation and compatible with Windows, Mac OS, and Linux operating systems.

3. Operating Instructions

3.1 Switching Between Computers

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

- **Front Panel Button:** Press the "SWITCH" button located on the front panel of the KVM device to toggle between PC1 and PC2.
- **Wired Remote Control:** Use the provided wired remote control to switch between computers. This offers convenience if the KVM switch is not easily accessible.



Image 3.1: Demonstrates switching between computers using either the button on the KVM unit or the external wired remote control.

3.2 Display Modes (Extended and Mirror)

The KVM switch supports both extended and mirror display modes, allowing you to configure your multi-monitor setup as needed.

- **Extended Mode (A+B+C):** In this mode, your desktop is extended across all three monitors, providing a larger workspace. Windows can be dragged between screens.
- **Mirror Mode (A+A+A):** In this mode, the content of your main screen is duplicated across all three monitors.

To set the display mode on your computer (Windows):

1. Press the **Windows key + P** on your keyboard.
2. A small window will appear, allowing you to select "Duplicate" (Mirror) or "Extend" mode.



Image 3.2: Visual representation of Extended Mode (desktop spread across three distinct screens) and Mirror Mode (same content displayed on all three screens).

4. Maintenance

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

- **Cleaning:** Use a soft, dry cloth to clean the exterior of the KVM switch. Avoid using liquid cleaners or abrasive materials.
- **Ventilation:** Ensure the KVM switch is placed in a well-ventilated area to prevent overheating. Do not block any ventilation openings.
- **Cable Management:** Keep cables organized and free from kinks or excessive bending to prevent damage.
- **Power Supply:** Always use the provided 12V1A power adapter. Using an incorrect power supply may damage the device.
- **Storage:** If storing the device for an extended period, disconnect all cables and store it in a cool, dry place.

5. Troubleshooting

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

5.1 No Display on Monitors

- **Check Power:** Ensure the KVM switch is properly powered on and the power adapter is securely connected.
- **Verify Cable Connections:** Double-check all DisplayPort and HDMI cables between the computers, KVM switch, and monitors. Ensure they are securely plugged in.
- **Computer Multi-Monitor Support:** Confirm that your computer's graphics card supports multiple monitor outputs (2x DisplayPort + 1x HDMI). You can test this by connecting your monitors directly to the computer without the KVM switch.
- **Resolution Compatibility:** Ensure your monitors and cables support the selected resolution and refresh rate. For 8K resolution, all components (graphics card, cables, monitors) must support 8K.
- **Switch Input:** Ensure the KVM switch is set to the correct computer input (PC1 or PC2).

5.2 USB Devices Not Responding (Keyboard/Mouse)

- **USB Cable Connection:** Verify that the USB 3.0 cables from your computers are securely connected to the KVM switch's PC1 and PC2 USB input ports.
- **Peripheral Connection:** Ensure your keyboard, mouse, and other USB devices are firmly connected to the KVM's USB 3.0 ports.
- **Power Supply:** The KVM switch requires external power for stable operation of all ports, especially for USB devices. Ensure the 12V1A power adapter is connected.
- **Wired vs. Wireless:** For optimal performance and compatibility, it is recommended to use wired keyboards and mice. Some wireless devices may have compatibility issues or require direct connection to the computer.
- **Try Different USB Port:** If a specific USB device is not working, try connecting it to a different USB 3.0 port on the KVM switch.
- **Reboot:** Try rebooting both the KVM switch (by disconnecting and reconnecting power) and the connected computers.

5.3 Resolution or Refresh Rate Issues

- **Cable Quality:** Use high-quality DisplayPort 1.4 and HDMI 2.1 cables to support high resolutions and refresh rates. The provided cables are recommended.
- **Graphics Card Support:** Confirm your computer's graphics card supports the desired output resolution and refresh rate.
- **Monitor Support:** Ensure your monitors are capable of displaying the desired resolution and refresh rate.
- **Driver Updates:** Ensure your graphics card drivers are up to date.



Image 5.1: Illustrates the KVM switch's capability to support Ultra HD resolutions, including 8K@60Hz via HDMI and 8K@30Hz or 4K@144Hz via DisplayPort. Note that all connected components must support these resolutions.

6. Specifications

Feature	Description
Model Number	NA-KVM203DH
Brand	NAWEN
Input Ports	2x PC (each PC requires 2x DisplayPort, 1x HDMI, 1x USB 3.0)
Output Ports	3x Monitors (2x DisplayPort, 1x HDMI)
USB Peripheral Ports	4x USB 3.0 (5Gbps data transfer)
Video Resolution (HDMI)	Up to 8K@60Hz, 4K@60Hz

Feature	Description
Video Resolution (DisplayPort)	Up to 8K@30Hz, 4K@144Hz
Switching Method	Front Panel Button, Wired Remote Control
Power Supply	DC 12V1A Power Adapter
Material	Plastic
Dimensions	20.29 x 20.29 x 6.81 cm
Weight	998 g
Operating System Support	Windows, Mac OS, Linux

7. Warranty and Support

The NAWEN KVM Switch NA-KVM203DH comes with a **12-month warranty** from the date of purchase.
If you have any questions, require technical assistance, or experience issues with your product, please contact NAWEN customer support. Refer to the product packaging or purchase platform for specific contact information.

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