NAWEN KC-8402-NA

NAWEN HDMI 4x2 Multi-Screen Seamless Switch User Manual

Model: KC-8402-NA

Brand: NAWEN

Introduction

This manual provides detailed instructions for the NAWEN HDMI 4x2 Multi-Screen Seamless Switch (Model KC-8402-NA). This device allows for the display of up to four HDMI input sources on two output screens, supporting various display modes including quad-view and single-screen switching. It is designed for use with HDMI-compatible devices such as computers, game consoles, DVD players, and security cameras.

Product Features

- **HDMI 4x2 Quad Multi-viewer:** Displays up to four HDMI input sources simultaneously on Output A, and a single selected HDMI source on Output B.
- **Supported Resolution:** Supports resolutions up to 4K@30Hz (at 50cm distance) and 1080P@60Hz. Also compatible with 720P, 1080i, 1024x768, and 1360x768. Compatible with HDMI2.0a.
- **Multiple Switching Methods:** Control the device using the included IR remote control, front panel buttons, or TTL USB computer control.
- **Wide Compatibility:** Compatible with various HDMI source devices including computers, laptops, DVD players, camcorders, game consoles, and security surveillance equipment.
- **Integrated KVM Functionality:** Allows control of multiple computers using a single set of keyboard and mouse (via USB connections).

Product Overview



Image: Front view of the NAWEN HDMI 4x2 Multi-Screen Seamless Switch, showing input/output ports and control buttons.

Setup Instructions

Follow these steps to set up your HDMI 4x2 Multi-Screen Seamless Switch:

1. **Power Connection:** Connect the provided DC 12V power adapter to the 'DC/12V' port on the switch and then to a power outlet.
2. **HDMI Input Connections:** Connect up to four HDMI source devices (e.g., PC, PS4, DVD player) to the 'HDMI 1', 'HDMI 2', 'HDMI 3', and 'HDMI 4' input ports on the switch using HDMI cables.
3. **HDMI Output Connections:**
    - Connect your primary display (e.g., TV, monitor) to the 'OUT-A' port using an HDMI cable. This output supports multi-screen viewing modes.
    - Connect your secondary display to the 'OUT-B' port using an HDMI cable. This output displays a single selected input source sequentially.
4. **USB Connections (for KVM functionality):** If using the KVM feature, connect USB cables from your source computers to the 'USB 1', 'USB 2', 'USB 3', and 'USB 4' ports on the switch. Connect your keyboard and mouse to the dedicated USB ports on the front panel of the switch.

5. **IR Receiver:** If using the IR remote control, ensure the IR receiver is connected to the 'IR' port on the switch and positioned to receive signals from the remote.
6. **Power On:** Power on all connected HDMI source devices and displays. The switch will power on automatically when connected to power.



Image: Diagram illustrating the connection of four HDMI inputs and two HDMI outputs, along with USB connections for KVM functionality and IR remote control.



Image: Illustration of the USB key mouse synchronizer setup, showing how one keyboard and mouse can control up to four computers connected via USB.

Operating Instructions

The NAWEN HDMI 4x2 Multi-Screen Seamless Switch offers various display modes and control options:

Switching Input Sources

You can switch between HDMI input sources using the following methods:

- **Front Panel Buttons:** Press the '1', '2', '3', or '4' buttons on the front panel to select the corresponding HDMI input for Output B.
- **IR Remote Control:** Use the numbered buttons (1-4) on the remote control to select the desired HDMI input. The remote can operate from up to 10 feet away.
- **TTL USB Control:** Connect the switch to a computer via USB for software-based control (refer to specific software instructions if applicable).

Display Modes for Output A

Output A supports multiple display modes for simultaneous viewing of input sources. Use the 'MODE/&#x23x229e;' button on the front panel or the remote control to cycle through these modes.

- **Quadruple Screen Mode (4 Equal Division):** Displays all four HDMI input sources simultaneously in four equally sized quadrants on a single screen.
- **Full Screen Mode:** Displays a single selected HDMI input source across the entire screen.
- **One Major and Three Minor Mode:** Displays one HDMI input source prominently in a larger section, with three other input sources displayed in smaller sections.
- **Left and Right Screen Mode:** Divides the screen into two halves, displaying two different HDMI input sources side-by-side.
- **Up and Down Mode (Proportional Mode):** Divides the screen horizontally, displaying two different HDMI input sources one above the other.
- **PIP (Picture-in-Picture) Modes:** Displays one main HDMI input source with a smaller window showing another input source.



Image: Comparison of Quadruple Screen Mode (four inputs simultaneously on Output A) and Single Cut Mode (one input on Output B).



Image: Visual representation of switching between different HDMI input sources on a display.



Image: Examples of Full Screen Mode and 4 Equal Division Mode for Output A.

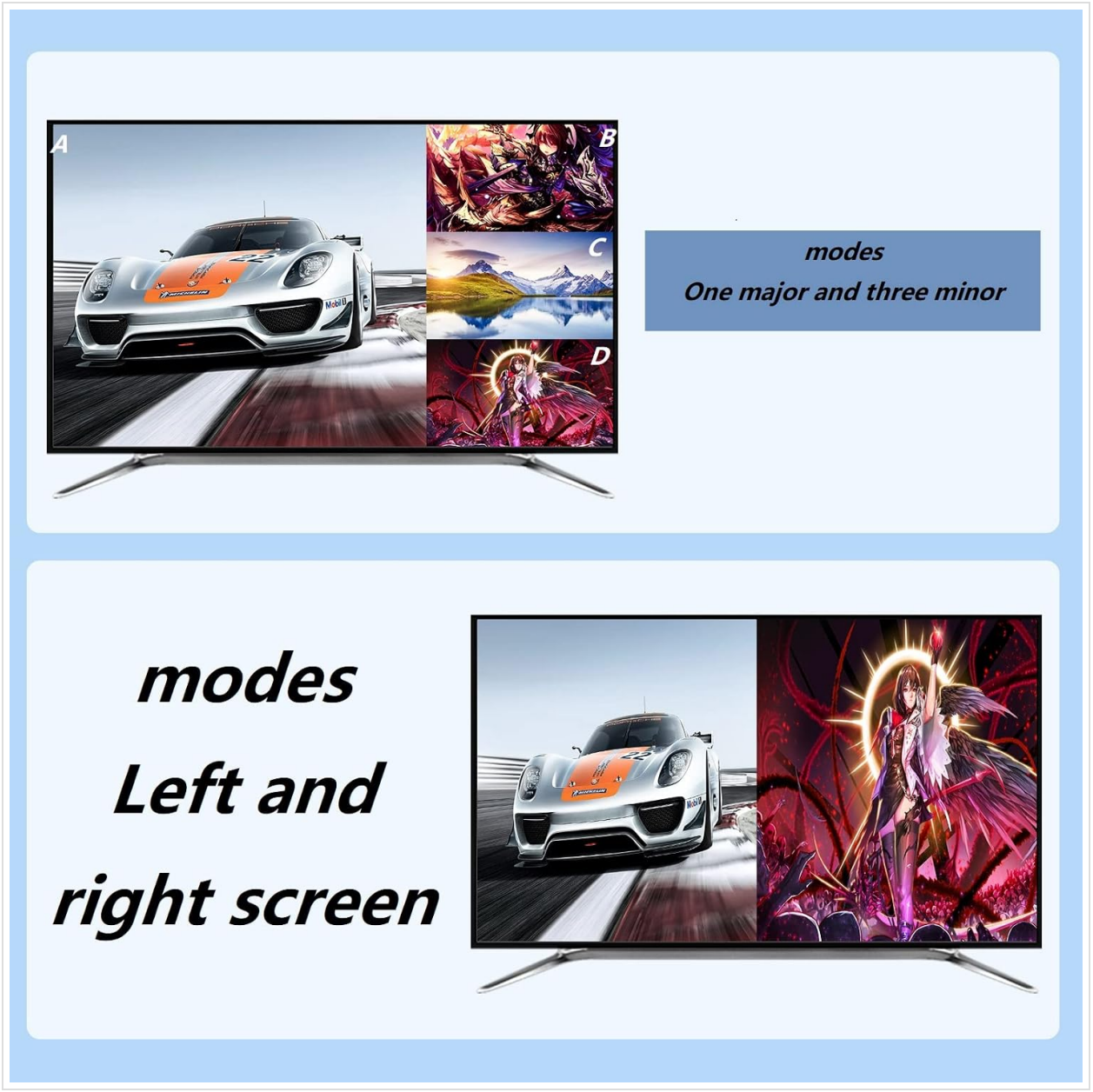


Image: Examples of One Major and Three Minor Mode and Left and Right Screen Mode for Output A.

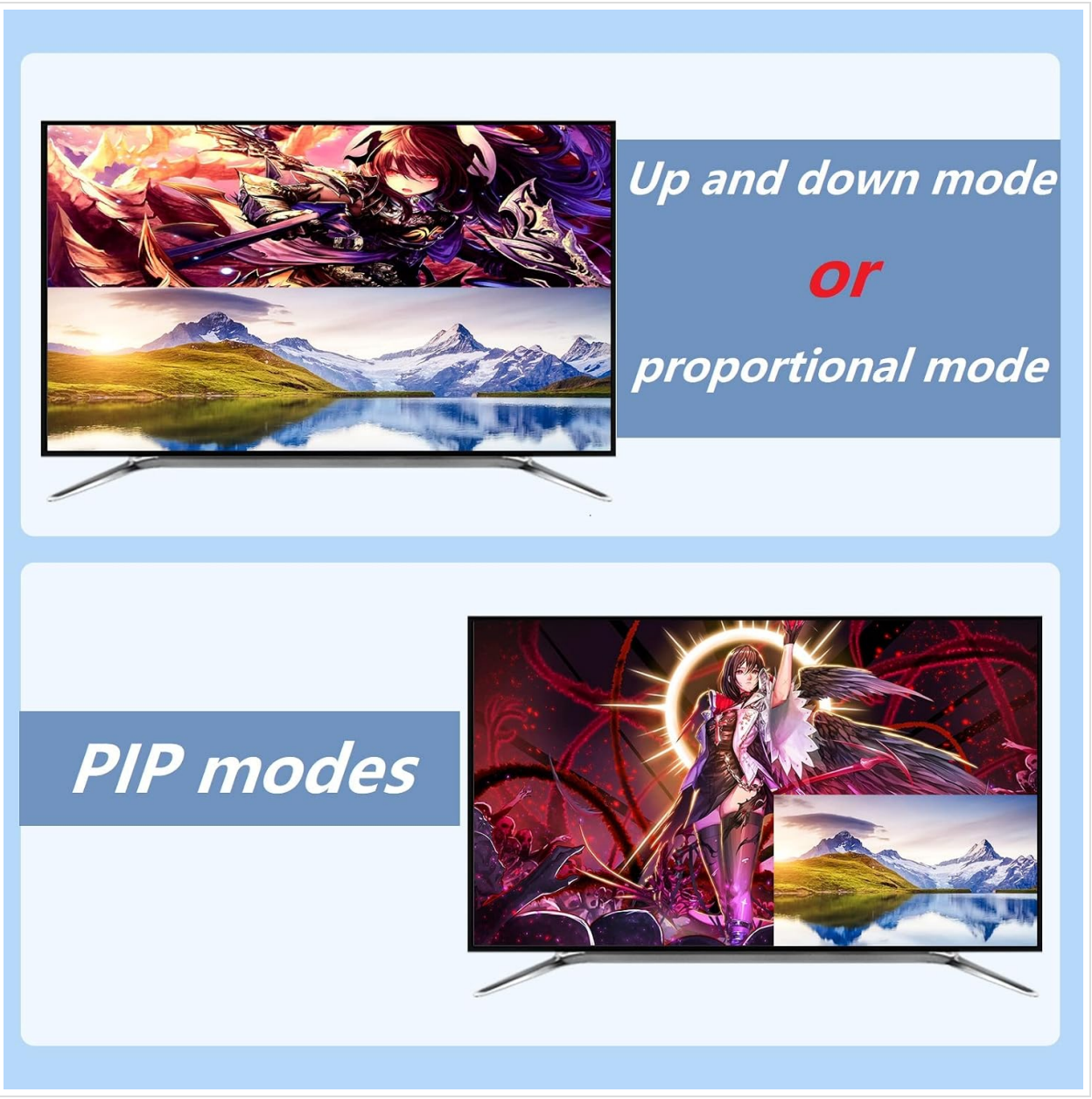


Image: Examples of Up and Down Mode and Picture-in-Picture (PIP) Modes for Output A.

Maintenance

To ensure optimal performance and longevity of your NAWEN HDMI 4x2 Multi-Screen Seamless Switch, follow these maintenance guidelines:

- **Cleaning:** Use a soft, dry cloth to clean the exterior of the device. Avoid using liquid cleaners or abrasive materials.
- **Ventilation:** Ensure the device is placed in a well-ventilated area to prevent overheating. Do not block any ventilation openings.
- **Storage:** When not in use for extended periods, store the device in a cool, dry place away from direct sunlight and extreme temperatures.
- **Cable Management:** Keep HDMI and USB cables organized and free from kinks or excessive bending to prevent damage.

Troubleshooting

If you encounter issues with your HDMI 4x2 Multi-Screen Seamless Switch, refer to the following troubleshooting tips:

- **No Video Output:**
  - Ensure all HDMI cables are securely connected to both the source devices, the switch, and the displays.
  - Verify that the switch is powered on and its indicator lights are active.
  - Check if the correct input source is selected on the switch and the correct input is selected on your display.
  - Test with different HDMI cables or source devices to rule out cable or source issues.
- **Poor Video Quality or Flickering:**
  - Ensure your HDMI cables are high-quality and support the desired resolution (e.g., 4K).
  - Verify that your source device and display support the selected resolution. The switch supports up to 4K@30Hz.
  - Reduce the cable length if possible, especially for 4K resolutions.
- **IR Remote Control Not Working:**
  - Ensure there are no obstructions between the remote and the IR receiver.
  - Check the battery in the remote control and replace if necessary.
  - Confirm the IR receiver is properly connected to the switch.
- **KVM (Keyboard/Mouse) Functionality Issues:**
  - Ensure all USB cables from the computers to the switch are securely connected.
  - Verify that your keyboard and mouse are connected to the designated USB ports on the switch.
  - Some specialized keyboards or mice may have compatibility issues. Try a standard keyboard/mouse to isolate the problem.
  - If using hotkeys, ensure your keyboard has a dedicated number section.

Specifications

Brand	NAWEN
Model	KC-8402-NA
Connector Type	HDMI
Input Ports	4 x HDMI, 4 x USB
Output Ports	2 x HDMI
Max Resolution	4K@30Hz, 1080P@60Hz
Control Methods	IR Remote, Front Panel Buttons, TTL USB
Item Dimensions (L x W x H)	10 x 7 x 2 centimetres
UPC	793288776155

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