nuphy Halo96 v2

NuPhy Halo96 V2 Wireless Mechanical Keyboard User Manual

Model: **Halo96 V2** | Brand: **NuPhy**

INTRODUCTION

The NuPhy Halo96 V2 is a high-performance 96% layout wireless mechanical keyboard designed for versatility and customization. Featuring a gasket structure, hot-swappable switches, and vibrant RGB backlighting, it offers a premium typing and gaming experience. This keyboard supports QMK/VIA for advanced customization and provides multiple connectivity options including Bluetooth 5.0, 2.4GHz wireless, and USB-C wired modes, ensuring compatibility across various operating systems and devices.

This manual provides essential information for setting up, operating, maintaining, and troubleshooting your NuPhy Halo96 V2 keyboard.

WHAT'S IN THE BOX

- NuPhy Halo96 V2 Wireless Mechanical Keyboard
- USB-C to USB-A Cable
- 2.4GHz Wireless Receiver (Dongle)
- Keycap/Switch Puller
- Extra Keycaps (for Mac/Windows layouts)
- Extra Switches (sample switches for different types)
- User Manual / Quick Guide
- Stickers

Image: NuPhy Halo96 V2 keyboard with included accessories such as USB-C cable, keycap/switch puller, and extra keycaps.

Your browser does not support the video tag.

Video: Official unboxing of the NuPhy Air96 V2 Mechanical Keyboard, showing the contents of the box including the keyboard, cables, and tools.

Setup

1. Physical Setup

- Place the keyboard on a stable, flat surface.
- Adjust the keyboard's feet to your preferred typing angle. The Halo96 V2 features two-level adjustable feet for ergonomic comfort.

Image: The underside of the NuPhy Halo96 V2 keyboard, highlighting the adjustable feet for ergonomic positioning.

2. Connectivity Options

The Halo96 V2 offers three modes of connection:

1. **USB-C Wired Mode:** Connect the provided USB-C cable from the keyboard to your computer. The keyboard will automatically switch to wired mode and begin charging.

2. **2.4GHz Wireless Mode:** Insert the 2.4GHz wireless receiver into an available USB port on your computer. Toggle the switch on the keyboard to 'Wireless' mode. The keyboard should connect automatically.

3. **Bluetooth 5.0 Mode:**

   - Toggle the switch on the keyboard to 'Wireless' mode.
   - Press and hold the 'Fn' key + one of the Bluetooth keys (e.g., 'Fn' + '1', '2', '3', or '4') to enter pairing mode. The indicator light will flash.
   - On your device (computer, tablet, smartphone), search for Bluetooth devices and select 'NuPhy Halo96 V2' to pair.
   - The keyboard supports connecting up to 4 Bluetooth devices simultaneously. Switch between paired devices using 'Fn' + '1'/'2'/'3'/'4'.
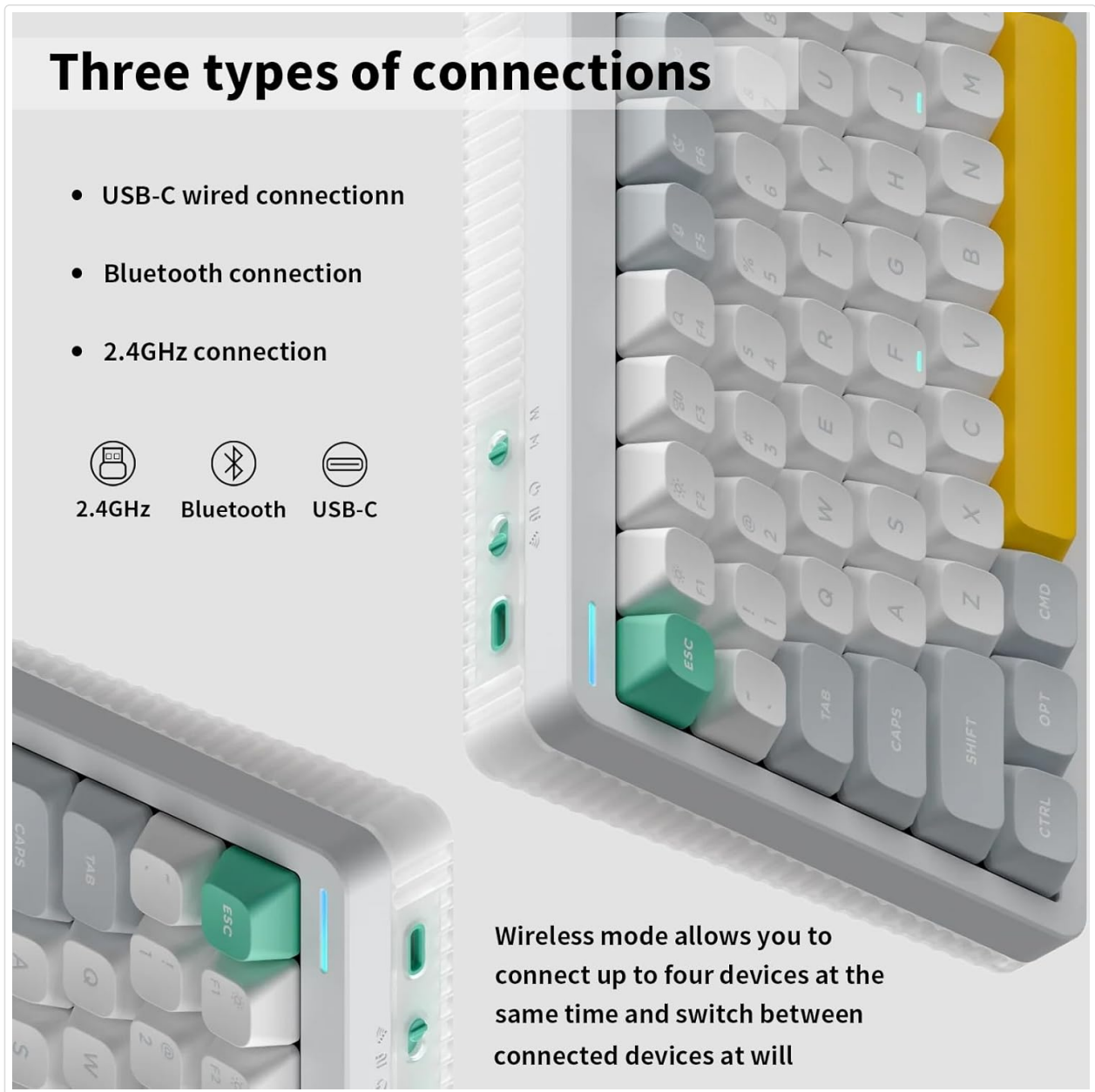
Three types of connections

- USB-C wired connectionn
- Bluetooth connection
- 2.4GHz connection

2.4GHz   Bluetooth   USB-C

Wireless mode allows you to connect up to four devices at the same time and switch between connected devices at will

Image: Diagram illustrating the three connectivity options for the NuPhy Halo96 V2: USB-C wired, Bluetooth, and 2.4GHz wireless.

3. System Compatibility

The Halo96 V2 is compatible with macOS, Windows, Linux, Android, and iOS systems. Use the dedicated switch on the keyboard to select between Windows and Mac layouts for optimal functionality.

4. QMK/VIA Configuration

The keyboard supports open-source QMK/VIA firmware, allowing for extensive customization of key mappings, macros, and lighting effects. Download the VIA software and the appropriate JSON file for your Halo96 V2 model from the official NuPhy website to begin customizing.

Image: The NuPhy Halo96 V2 keyboard displayed with a screenshot of the QMK/VIA software interface, demonstrating its customization capabilities.

OPERATING INSTRUCTIONS

1. Basic Usage

- Simply connect the keyboard using your preferred method (wired, 2.4GHz, or Bluetooth) and begin typing.
- The 96% layout retains essential arrow keys and a number pad for both work and gaming.

2. RGB Backlighting (Halolight 2.0)

The Halo96 V2 features advanced RGB backlighting with a semi-transparent bottom case for enhanced light transmission. You can customize various lighting effects, colors, and brightness levels:

- Use 'Fn' + specific keys (refer to the quick guide) to cycle through different lighting modes and colors.
- Adjust brightness levels using 'Fn' + arrow keys (up/down).
- Further customization is available via the QMK/VIA software.

3. Mac Shortcuts

When in Mac mode, the keyboard provides access to Mac-specific function keys, including Do Not Disturb and Spotlight, for seamless integration with your Apple ecosystem.

4. Low Latency

Experience a 1000Hz polling rate in both wired and 2.4GHz modes, ensuring minimal input lag for responsive gaming and typing.
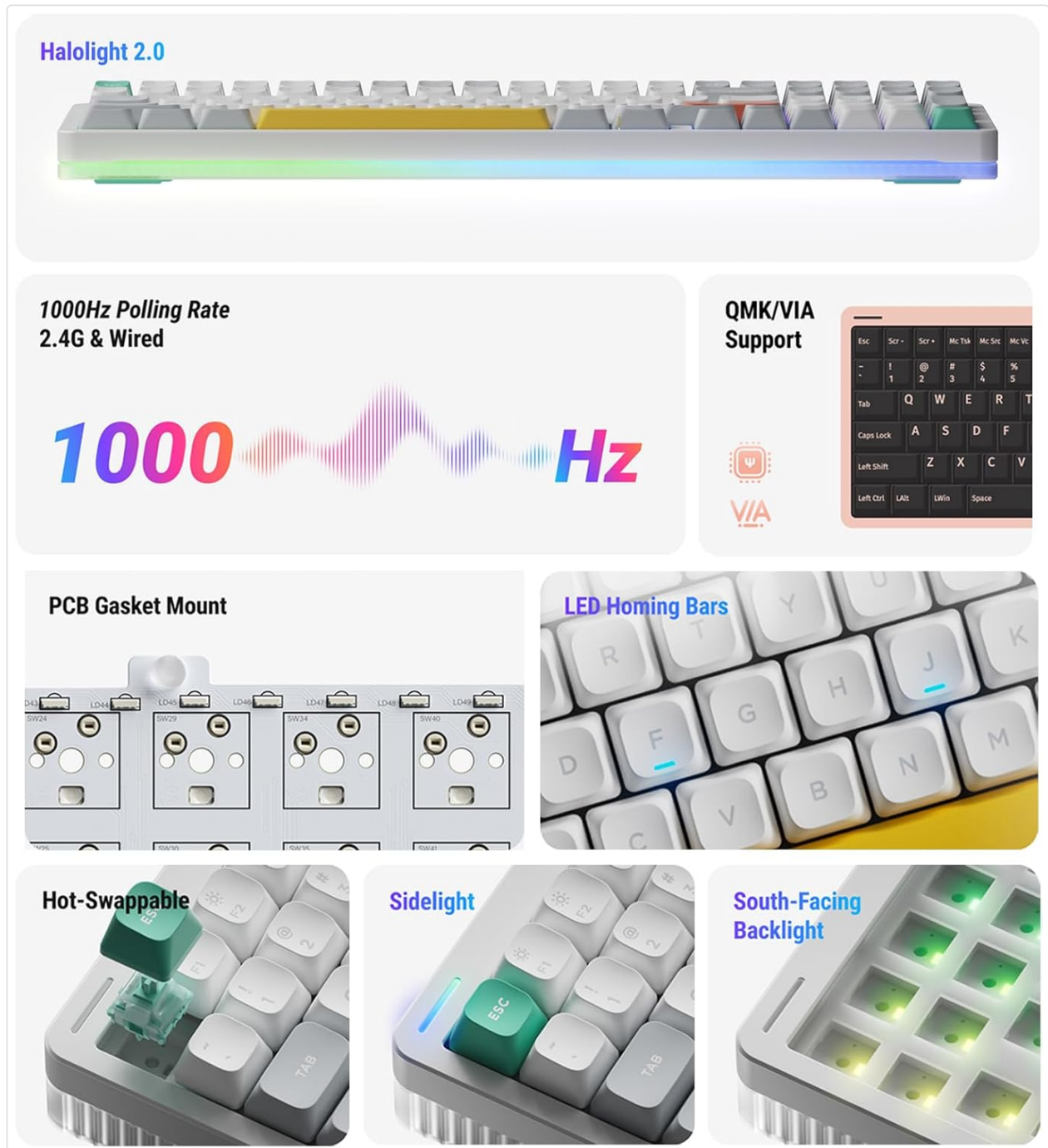

Image: Infographic detailing key features of the NuPhy Halo96 V2, including Halolight 2.0, 1000Hz Polling Rate, QMK/VIA Support, PCB Gasket Mount, LED Homing Bars, Sidelight, and South-Facing Backlight.

MAINTENANCE

1. Cleaning

- Regularly clean your keyboard with a soft, dry cloth.
- For deeper cleaning, use the provided keycap puller to remove keycaps and clean dust or debris with

compressed air.

2. Hot-Swappable Switches

The Halo96 V2 features hot-swappable switches, allowing you to change them without soldering:

- Use the provided switch puller to carefully remove a switch.
- Align the pins of the new switch with the sockets on the PCB and gently press down until it clicks into place.

3. Battery Management

The keyboard is equipped with a 4000mAh battery. To maximize battery life:

- Charge the keyboard fully before first use.
- Connect via USB-C cable to charge.
- Reduce RGB brightness or turn off backlighting when not needed to conserve power.
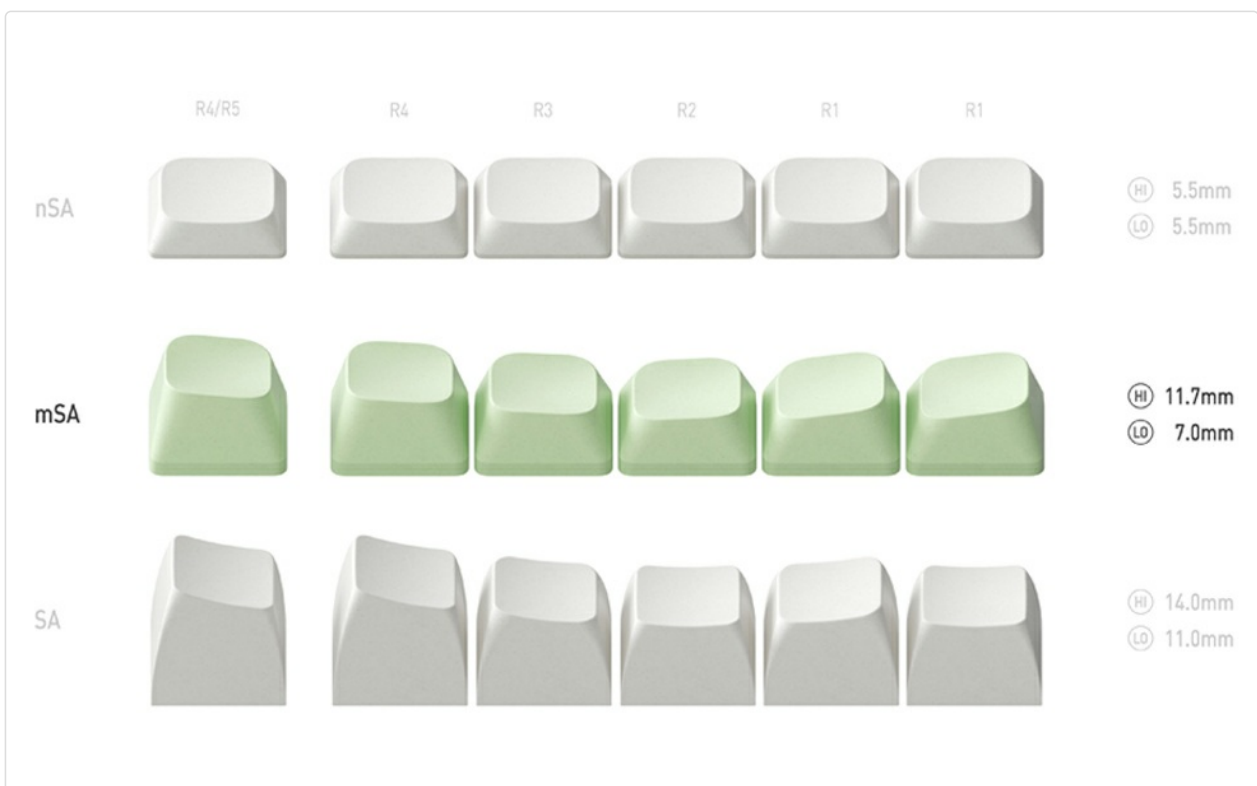- The keyboard has a go-to-sleep mode to save power after a period of inactivity.

Image: An exploded view of the NuPhy Halo96 V2's internal structure, illustrating the six layers of padding and gasket mount design for improved sound and feel.

TROUBLESHOOTING

1. Connectivity Issues

- **Bluetooth Pairing Failure:** Ensure the keyboard is in pairing mode (indicator flashing). Remove previous pairings from your device and try again.
- **2.4GHz Disconnection:** Ensure the dongle is securely inserted and the keyboard is in 2.4GHz mode. Try a different USB port.
- **Wireless Lag:** Ensure the keyboard is fully charged. If issues persist, try updating the keyboard firmware.

2. Key Input Errors (Chattering)

If you experience unintended repeated key presses (chattering), it may be due to switch sensitivity or a faulty switch. Try the following:

- Identify the problematic key.
- Carefully remove the switch using the switch puller.
- Replace the switch with a new one or swap it with a less frequently used key to test if the issue is resolved.
- Adjust typing habits to avoid accidental actuation if switches are highly sensitive.

3. Firmware Updates

Regularly check the official NuPhy website for firmware updates. Updates can improve performance, fix bugs, and enhance compatibility. Follow the instructions provided on the website for a successful update.

Your browser does not support the video tag.

Video: An official NuPhy-Store video showcasing the Halo96 V2 mechanical keyboard, demonstrating its features and potentially addressing common user queries.

SPECIFICATIONS

Feature	Detail
Product Dimensions	14.84"L x 5.31"W x 1.3"H
Item Weight	1.74 pounds
Manufacturer	nuphy
Item Model Number	Halo96 v2
Batteries	1 P76 battery required (included)
Compatible Devices	Laptop, PC, Tablet
Connectivity Technology	Bluetooth, USB-C, 2.4GHz
Keyboard Description	Support macOS/Windows/Linux/Android/iOS
Recommended Uses	Gaming
Special Feature	Hot-Swappable
Material	Aluminum, ABS, POM

WARRANTY AND SUPPORT

For warranty information and technical support, please refer to the documentation included with your product or visit the official NuPhy website. The manufacturer provides support for product-related inquiries and issues.

Extended protection plans may be available for purchase separately. Please check with your retailer for details on available plans.