nuphy Halo75V2

nuphy Halo75 V2 Mechanical Gaming Keyboard User Manual

Comprehensive Guide for Setup, Operation, and Maintenance

1. INTRODUCTION

Welcome to the user manual for your new nuphy Halo75 V2 Mechanical Gaming Keyboard. This 75% wireless, hot-swappable keyboard features 83 keys, RGB backlighting, and supports multiple connectivity options. It is designed to provide a versatile and customizable typing experience for both gaming and productivity across various operating systems. This guide will walk you through the setup, operation, maintenance, and troubleshooting of your device.

Figure 1: nuphy Halo75 V2 Mechanical Keyboard, showcasing its design and RGB lighting.

2. WHAT'S IN THE BOX

Upon unboxing your nuphy Halo75 V2 keyboard, you should find the following items:

- 1 x Halo75 V2 Keyboard
- 1 x 1.5m (59 inches) Cable
- 1 x 2.4G Receiver
- 1 x Keycap/Switch Puller
- 6 x Extra Keycaps
- 3 x Extra Switches
- 1 x Quick Guide/Poster
- 1 x Sticker Set
- 1 x Q&A

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Video 1: Unboxing the Halo75 V2 Wireless Mechanical Keyboard. This video demonstrates the contents of the package and the initial unboxing experience.

3. PRODUCT OVERVIEW

The Halo75 V2 features a robust design with a high-quality aluminum alloy top shell. The keyboard's aesthetic is enhanced by surrounding lights at the bottom, providing a visually appealing experience. The internal structure includes six layers of padding to reduce cavity sound and create a more focused, thicker sound.

Figure 2: Front view of the nuphy Halo75 V2 Mechanical Keyboard, showcasing its 75% layout and RGB lighting.

Figure 3: Back view of the nuphy Halo75 V2 Mechanical Keyboard, highlighting its design and stability features.

Figure 4: Side view of the nuphy Halo75 V2, illustrating the various ports and mode switches for connectivity and system selection.
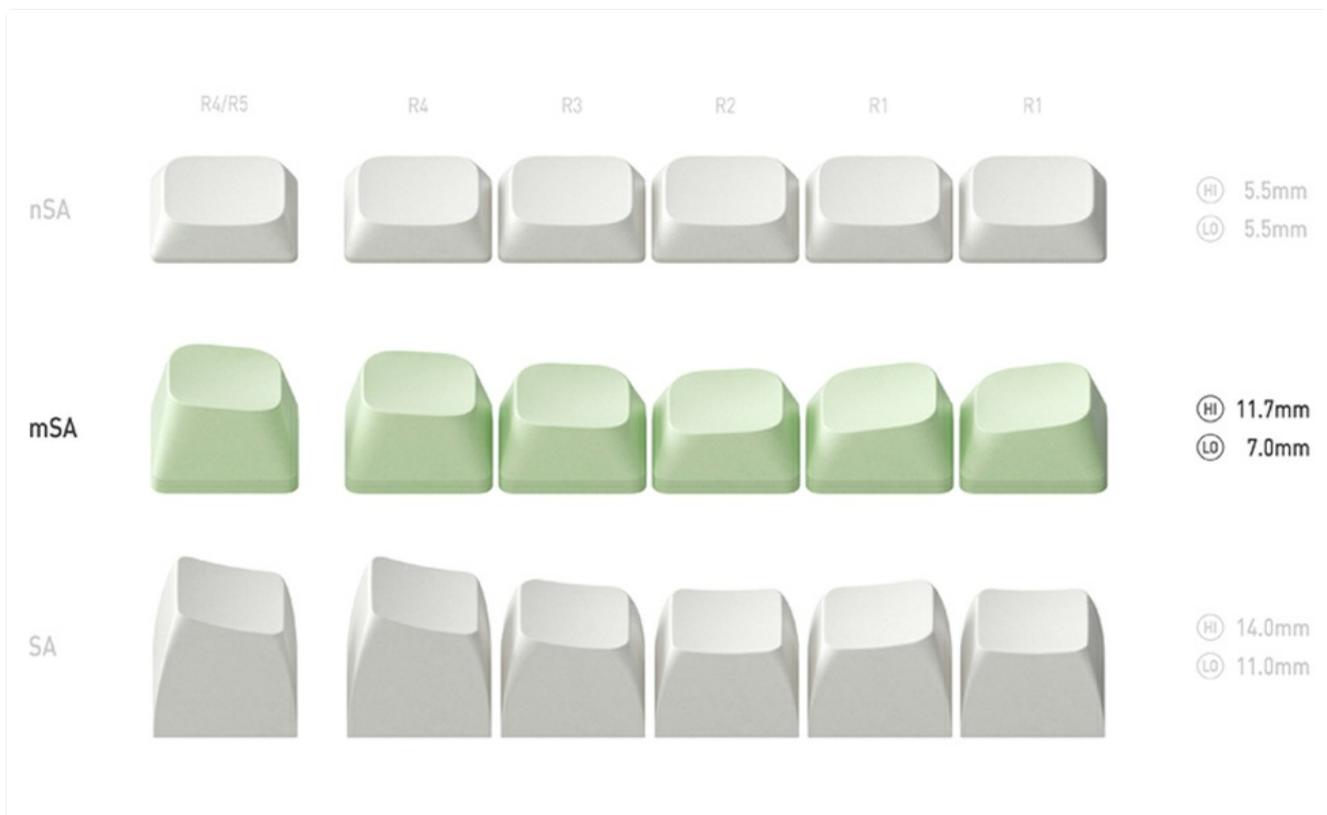
Figure 5: Exploded view showing the built-in six layers of padding designed to enhance sound acoustics.

4. SETUP

4.1. Connectivity

The Halo75 V2 supports three primary connection modes:

- **USB-C Wired Connection:** For a direct and stable connection.
- **2.4GHz Wireless Connection:** Utilizes a dedicated 2.4G receiver for low-latency performance.
- **Bluetooth Connection:** Allows connection to up to four devices simultaneously, with easy switching between them.

Figure 6: Visual representation of the three connectivity options: USB-C, 2.4GHz, and Bluetooth.

To switch between devices in wireless mode, use the designated function keys (refer to the Quick Guide for specific key combinations).

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Video 2: Demonstrates the wireless connectivity features of the Halo75 V2 keyboard, including switching between devices.

4.2. System Compatibility

The Halo75 V2 is compatible with a wide range of operating systems, including macOS, Windows, Linux, Android, and iOS. Ensure the keyboard's system switch (located on the side) is set to the correct operating system for optimal functionality.

4.3. QMK/VIA Firmware Setup

For advanced customization of key mapping and lighting, the Halo75 V2 supports open-source QMK/VIA firmware.

1. Connect your keyboard to your device using the provided USB-C cable to ensure wired mode.
2. Access VIA's official online configurator via a Chromium-based browser (e.g., Google Chrome).
3. Download the correct JSON file for your keyboard from the NuPhy website.
4. In the VIA configurator, navigate to the 'SETTINGS' tab (gear icon) and toggle 'Show Design Tab' on.
5. Go to the design tab, drag and drop the downloaded JSON file into the upload area, and click 'Authorize Device'.

6. Select your device name in the pop-up window. An on-screen keyboard should appear, confirming successful setup.

5. OPERATING THE KEYBOARD

5.1. Key Functions and Layout

The Halo75 V2 features an 83-key 75% layout. Standard key functions operate as labeled. For secondary functions (e.g., media controls, lighting adjustments), use the **Fn** key in combination with the corresponding key. Refer to the Quick Guide for a detailed map of all key combinations.

5.2. RGB Backlighting and HaloLight

The keyboard features extensive RGB backlighting and the unique HaloLight system. You can customize lighting effects, colors, and brightness directly on the keyboard using Fn key combinations or through the VIA software. The HaloLight system provides ambient lighting around the keyboard's base. The keyboard also supports SignalRGB for synchronized lighting with other compatible hardware.

Figure 7: The Halo75 V2 supports SignalRGB, allowing for synchronized lighting effects with other compatible hardware.

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Video 3: A demonstration of the RGB backlighting and various lighting effects available on the Halo75 V2 Mechanical Keyboard.
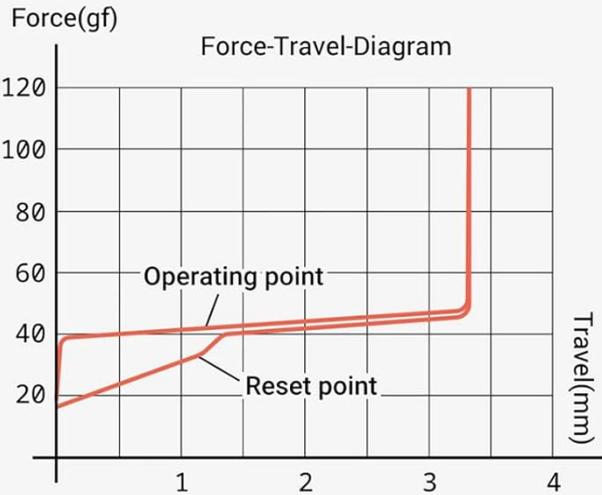
5.3. Keycap Profile and Switches

The Halo75 V2 utilizes mSA profile keycaps, designed for ergonomic comfort and improved typing performance. The keyboard is hot-swappable, allowing you to easily change switches without soldering. It comes with Raspberry (46gf) linear switches, known for their smooth actuation.

Figure 8: Comparison of nSA, mSA, and SA keycap profiles, highlighting the ergonomic design of mSA.

Raspberry

46gf Linear Switch

Force-Travel-Diagram

Force(gf)

The diagram shows Operating point and Reset point markings along the force-travel curve, with Travel(mm) on the horizontal axis ranging from 1 to 4, and Force(gf) on the vertical axis from 20 to 120.

Operating force: **46±15gf**   Stem: **Pom**

End force: **50±5gf**   Top housing: **PC**

Pre travel: **1.2±0.3mm**   Bottom housing: **PA66**

Total travel: **3.4mm Max**   Spring: **21mm Single-stage**

Figure 9: Force-travel diagram for the Raspberry 46gf Linear Switch, detailing operating force, end force, pre-travel, total travel, stem, top housing, bottom housing, and spring specifications.

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Video 4: A short preview demonstrating the typing sounds of the Halo75 V2 keyboard with different switch types (Mint, Raspberry, Lemon).

6. MAINTENANCE

To ensure the longevity and optimal performance of your Halo75 V2 keyboard, regular maintenance is recommended.

- **Cleaning:** Use a soft, lint-free cloth to wipe down the keyboard surface. For deeper cleaning, use a can of compressed air to remove dust and debris from between the keycaps.
- **Keycap and Switch Removal:** Use the provided keycap/switch puller to safely remove keycaps and switches for cleaning or replacement. Gently pull keycaps straight up to avoid damaging the switch stem. For switches, ensure the puller grips both clips before pulling.
- **Storage:** When not in use, store the keyboard in a clean, dry environment away from direct sunlight and extreme temperatures.

7. TROUBLESHOOTING

If you encounter any issues with your Halo75 V2 keyboard, refer to the following common solutions:

- **Connectivity Issues:**

  - Ensure the keyboard is fully charged or connected via USB-C.
  - Verify the mode switch (wired/2.4GHz/Bluetooth) is set correctly.
  - For 2.4GHz, ensure the receiver is properly inserted and within range.
  - For Bluetooth, ensure the keyboard is paired correctly and selected on your device. Try re-pairing if issues persist.

- **Keys Not Responding:**

  - Check if the keyboard is powered on and connected.
  - If using wireless mode, check battery level.
  - For specific keys, try removing the keycap and switch to check for debris or damage. Replace the switch if necessary (hot-swappable feature).

- **RGB Lighting Problems:**

  - Ensure lighting is enabled via Fn key combinations.
  - Adjust brightness levels.
  - If using VIA, ensure the correct firmware and settings are loaded.

- **Firmware Update Issues:**

  - Ensure a stable wired connection during firmware updates.
  - Follow the instructions on the NuPhy website or VIA configurator precisely.

For further assistance, consult the included Quick Guide/Poster or the Q&A document.

8. SPECIFICATIONS

Feature	Detail
Brand	nuphy
Model Number	Halo75V2
Product Dimensions	12.6"L x 5.31"W x 1.29"H (320mm L x 135mm W x 32.9mm H)
Item Weight	1.74 pounds (1020 grams)
Material	Aluminum (top case)
Connectivity Technology	Bluetooth, USB-C, 2.4GHz
Compatible Devices	Laptop, PC, Tablet (macOS/Windows/Linux/Android/iOS)
Special Features	Backlit, Ergonomic, Hot-Swappable, Portable, Programmable Keys
Battery Capacity	4000mAh (1 P76 battery required)
Polling Rate	1000Hz (Wired and 2.4GHz modes)

Figure 10: Detailed dimensions and weight of the Halo75 V2 keyboard.

9. BATTERY LIFE

The Halo75 V2 is equipped with a 4000mAh battery, offering extended usage times depending on lighting configurations:

- **Working Time (all lights on):** 9 to 91 hours
- **Working Time (homing bars only):** 140 to 200 hours
- **Working Time (all lights off):** Up to 307 hours

Note: The above times are derived from experimental tests and may vary based on actual usage conditions.

10. WARRANTY AND SUPPORT

For detailed warranty information and customer support, please refer to the official NuPhy website or the specific warranty documentation included with your product. The included Quick Guide/Poster and Q&A document also provide valuable information. You can also visit the nuphy Store on Amazon for additional resources and product information.