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› nuphy Air96 V2 Wireless Mechanical Keyboard Instruction Manual

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MODEL: AIR96 V2

1. Introduction and Overview

The nuphy Air96 V2 is an ultra-slim, portable wireless mechanical keyboard designed for efficiency and comfort. It features a durable aluminum alloy frame, high-quality ABS base, and two-tone PBT keycaps. With its versatile connectivity options and QMK/VIA support, it offers a seamless experience for both office and gaming use across multiple operating systems.



Figure 1.1: nuphy Air96 V2 Wireless Mechanical Keyboard (White Gateron Aloe Switch variant)

2. Setup

2.1. What's in the Box

- nuphy Air96 V2 Wireless Mechanical Keyboard
- USB Cable
- Keycap/Switch Puller Tool
- Extra Keycaps (e.g., Enter, Esc, Alt, Ins)
- Additional Switches (for testing/replacement)

2.2. Connectivity Options

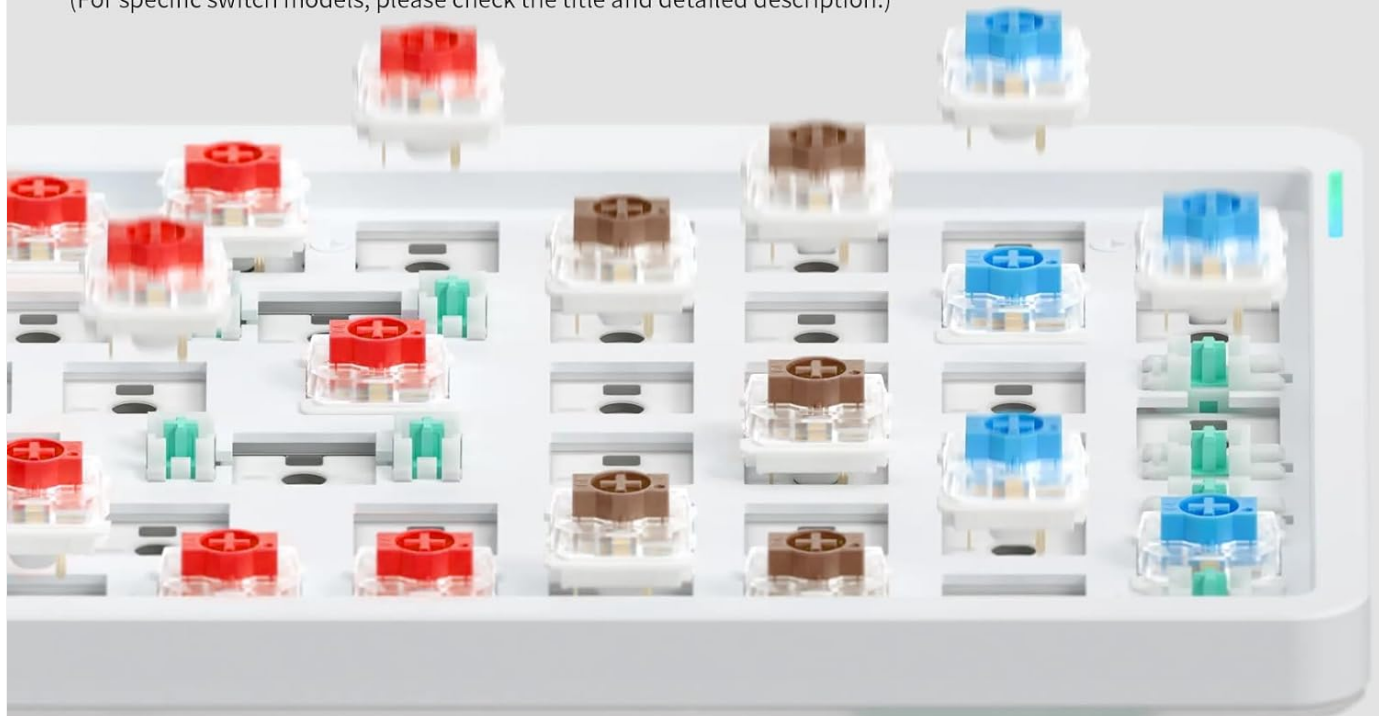
The Air96 V2 supports three primary connection methods:

- **Bluetooth 5.1:** For wireless connection to compatible devices.
- **2.4GHz Wireless:** Utilizes a dedicated USB receiver for low-latency wireless performance.
- **Wired (USB-C):** Connect directly via the included USB-C cable for a stable, wired connection and charging.

Hot swappable

Mechanical switches can be replaced with different models

(For specific switch models, please check the title and detailed description.)



Three types of connections



USB-C



2.4GHz



Bluetooth

Figure 2.1: Hot-swappable switches and connection methods

2.3. System Compatibility

The keyboard is designed to be compatible with a wide range of operating systems, including Windows, macOS, and Linux. It also supports simultaneous connection to up to 4 devices, allowing for easy switching between them.



Figure 2.2: System compatibility overview

2.4. Adjusting Keyboard Angle

The Air96 V2 features two-level adjustable feet on the underside, allowing you to customize the typing angle for optimal comfort.



Figure 2.3: Adjustable feet on the keyboard underside

3. Operating Instructions

3.1. QMK/VIA Support

The Air96 V2 supports QMK/VIA, allowing for extensive customization of key assignments, macros, and lighting effects. You can define your keyboard layout and adjust RGB backlighting to your preference using the VIA console software.

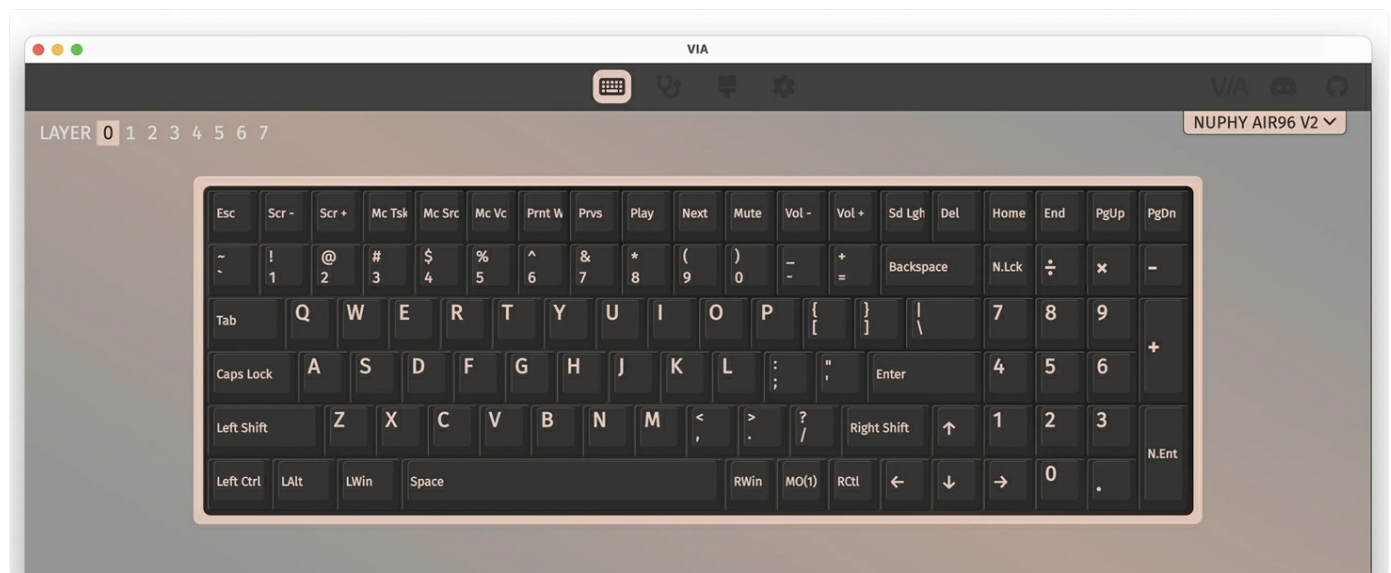


Figure 3.1: VIA software interface for keyboard customization

3.2. Polling Rate

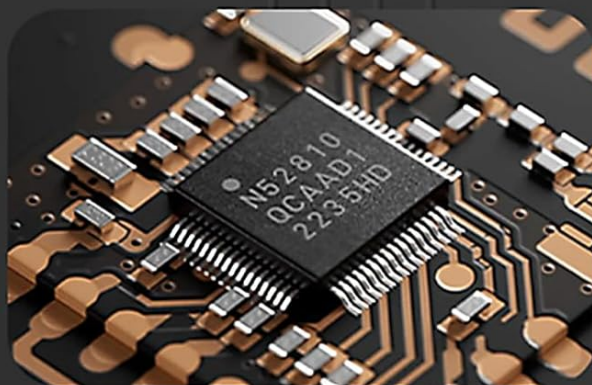
Equipped with Nordic's NRF52810 SoC and STM32F072 MCU, the Air96 V2 achieves a polling rate of up to 1000Hz in wireless mode. This significantly reduces latency, providing a responsive experience for both gaming and office tasks.

Professional-grade wireless performance

Equipped with ST+Nordic platform, the high rate of return reaches 1000Hz, which helps you to enjoy the carefree experience of game competition while meeting the needs of efficient office work.



STM32F072 MCU



Nordic NRF52810 SoC



Figure 3.2: Professional-grade wireless performance components

3.3. Battery Life

The Air96 V2 is powered by a 4000mAh battery. With the keyboard backlight on, you can expect 35-120 hours of usage. Turning off the backlight extends usage time to approximately 220 hours. The LED light bar on the side of the keyboard indicates the current power level.

4. Maintenance

4.1. Cleaning Your Keyboard

To maintain optimal performance and appearance, regularly clean your keyboard. Use a soft brush or compressed air to remove dust and debris from between the keycaps. For surface cleaning, a slightly damp, lint-free cloth can be used. Ensure the keyboard is disconnected and powered off before cleaning.

4.2. Replacing Keycaps and Switches

The Air96 V2 features hot-swappable mechanical switches, allowing you to easily replace them without soldering. Use the provided keycap and switch puller tool for safe removal and installation.



Figure 4.1: Included extra keycaps and keycap/switch puller tool

The current product variant uses Gateron Aloe switches. Other compatible Gateron low-profile switches include Brown 2.0 (Tactile, 55gf), Red 2.0 (Linear, 45gf), Blue 2.0 (Clicky, 65gf), Moss, and Wisteria.



Figure 4.2: Gateron Aloe Switches

Brown 2.0 (Tactile, 55gf)

Pre-travel: $1.7 \pm 0.4\text{mm}$ / Total travel: $3.2 \pm 0.2\text{mm}$
Operating force: $55 \pm 15\text{gf}$ / End force: $60 \pm 5\text{gf}$
Stem: POM / Top: PC / Bottom: PA66
Spring: 13.5mm Double-stage
Factory lubed



Figure 4.3: Gateron Brown 2.0 Switches

Red 2.0 (Linear, 45gf)

Pre-travel: $1.7 \pm 0.4\text{mm}$ / Total travel: $3.2 \pm 0.2\text{mm}$
Operating force: $50 \pm 15\text{gf}$ / End force: $60 \pm 5\text{gf}$
Stem: POM / Top: PC / Bottom: PA66
Spring: 13.5mm Double-stage
Factory lubed



Figure 4.4: Gateron Red 2.0 Switches

Blue 2.0 (Clicky, 65gf)

Pre-travel: $1.7 \pm 0.4\text{mm}$ / Total travel: $3.2 \pm 0.2\text{mm}$
Operating force: $65 \pm 15\text{gf}$ / End force: $60 \pm 5\text{gf}$
Stem: POM / Top: PC / Bottom: PA66
Spring: 13.5mm Double-stage
Factory lubed



Figure 4.5: Gateron Blue 2.0 Switches

5. Troubleshooting

5.1. Connectivity Issues

- **No Connection:** Ensure the keyboard is powered on and the correct connection mode (Bluetooth, 2.4GHz, or Wired) is selected. For 2.4GHz, ensure the USB receiver is properly inserted. For Bluetooth, ensure your device's Bluetooth is enabled and the keyboard is in pairing mode.
- **Intermittent Connection:** Try moving the keyboard closer to your device or USB receiver. Avoid sources of interference (e.g., other wireless devices, large metal objects).

5.2. Unresponsive Keys

- **Specific Keys Not Working:** If individual keys are unresponsive, they might be dirty or the switch might be faulty. Try removing the keycap and switch (using the provided tool) and cleaning the area. If the issue persists, consider replacing the switch.
- **Entire Keyboard Unresponsive:** Check the battery level. If using wireless, try connecting via USB-C cable. Restart the keyboard and your connected device.

5.3. Charging and Battery Indicators

The LED light bar on the side of the keyboard indicates the battery status. If you are unsure of the charge level while plugged in, you may need to briefly power cycle the keyboard to refresh the indicator, as some users have noted the indicator may not always update dynamically during charging.

6. Specifications

Feature	Detail
Product Dimensions	14.69 x 5.2 x 0.53 inches (373.4 x 132.5 x 13.5 mm)
Item Weight	1.46 pounds (663 grams)
Manufacturer	nuphy
Item Model Number	Air96 v2
Batteries	1 9V battery required (included)
Compatible Devices	Laptop, PC, Tablet
Connectivity Technology	Bluetooth, USB-C, 2.4GHz
Keyboard Description	Supports Windows/macOS/Linux system
Special Feature	Ergonomic, Backlit
Color	White (Gateron Aloe Switch variant)
Number of Keys	100
Keyboard Backlighting	RGB
Style	Mechanical Keyboard
Battery Capacity	4000mAh
Frame Material	Aluminum

Feature	Detail
Bottom Case Material	ABS
Keycap Type	Double-shot PBT

7. Warranty and Support

For warranty information and technical support, please refer to the official nuphy website or contact their customer service. Protection plans may also be available for purchase, offering extended coverage for your device.

- **4-Year Protection Plan:** Available for purchase.
- **Complete Protect:** Monthly plan covering eligible purchases.

For further assistance, visit the [nuphy Store on Amazon](#).

ASK A QUESTION ABOUT THIS MANUAL

Ask about setup, troubleshooting, compatibility, parts, safety, or missing instructions. Manuals+ will review the question and use this page’s manual context to help answer it.

Name

Anonymous

Email

you@example.com

After a successful submission, we securely hash the supplied account or form email before sending it to Microsoft Advertising for conversion attribution. [Privacy details](#).

Question

Example: How do I reset this device or fix this error?

Details

Model number, symptoms, what you tried, or the section of the manual you are using.

Submit question