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## nuphy BH65 Magnetic Jade Pro

# NuPhyX BH65 Magnetic Switch Gaming Keyboard User Manual

Model: BH65 Magnetic Jade Pro

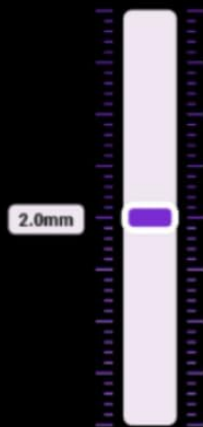
## 1. INTRODUCTION

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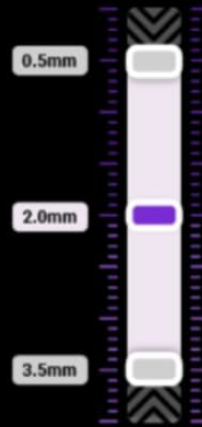
The NuPhyX BH65 is an all-aluminum 65% magnetic switch gaming keyboard designed for high-performance gaming and typing. It features 68 keys, adjustable actuation, rapid trigger functionality, PBT keycaps, and an 8K Hz polling rate for precise and responsive input. This manual provides essential information for setting up, operating, and maintaining your keyboard.

# Zero Dead Zone For Continuous Touch

Unopened Dead Zone



Opened Dead Zone



The NuPhyX BH65 keyboard, showcasing its compact 65% layout and all-aluminum body.

## 2. PACKAGE CONTENTS

Before proceeding with setup, please ensure all items listed below are present in your package:

- 1 x BH65 HE Keyboard
- 1 x 1.5m (59 inches) USB-C Cable
- 1 x Keycap/Switch Puller
- 4 x Additional Screws

- 1 x Quick Guide

An unboxing video for the NuPhyX BH65 keyboard, showing the contents of the package and initial presentation.

### 3. SETUP

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1. **Connect the Keyboard:** Use the provided USB-C cable to connect the BH65 keyboard to your computer (Laptop, PC). The keyboard is wired-only.
2. **Initial Power On:** Once connected, the keyboard will power on and the RGB lighting will activate.
3. **Driver Installation (NuPhyIO):** For full customization, download and install the NuPhyIO driver from the official NuPhy website. This software allows for key remapping, macro creation, actuation point adjustments, and rapid triggering setup.

# FLOATING SHOCK ABSORPTION STRUCTURE

Comprehensively reduces resonance, all for the purest typing experience.



The NuPhyX BH65 keyboard connected to a device via its USB-C cable.

## 4. OPERATING INSTRUCTIONS

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### 4.1 NuPhyIO Driver Customization

The NuPhyIO driver provides comprehensive control over your BH65 keyboard. Access it via a web browser to customize:

- **Key Remapping:** Assign custom functions to individual keys.
- **Macro Creation:** Record and assign complex key sequences.

- **Actuation Point Adjustment:** Fine-tune the distance a key needs to travel to register an input (0.1mm to 3.3mm).
- **Rapid Trigger Setup:** Configure the sensitivity and behavior of the rapid trigger function.



### Hot Swapping Support

The BH65 supports hot-swapping, allowing you to change switches and keycaps as often as you like

A screenshot of the NuPhyIO software, demonstrating its interface for key remapping, macro creation, and actuation point adjustments.

## 4.2 Rapid Trigger Function

The Rapid Trigger function allows keys to activate and reset based on real-time key travel, providing instant responses. This feature is crucial for competitive gaming, enabling faster repeated inputs and precise control.



### BH65 All-Aluminum Magnetic Switch Keyboard

A diagram showing the concept of zero dead zone for continuous touch, comparing unopened and opened dead zones for magnetic switches.

Demonstration of the Rapid Trigger function, showing how key activation and reset respond to real-time key travel.

## 4.3 Hyper Tap Function

The Hyper Tap function allows you to trigger an additional key at the reset point of a Rapid Trigger key's travel. This can be used to stop the original key's triggering while simultaneously activating a bound key during key release, aiding in faster character movement stops in games.

## 4.4 Rapid Shift Function

The Rapid Shift function determines which key to trigger by comparing the key travel depth of two designated keys. This enables advanced input combinations based on how deeply keys are pressed.

## 4.5 SOCD Function

The Simultaneous Opposite Cardinal Directions (SOCD) function allows you to set a priority when both bound keys are pressed. You can configure it to trigger only one of the keys or neither, preventing conflicting inputs in specific scenarios.

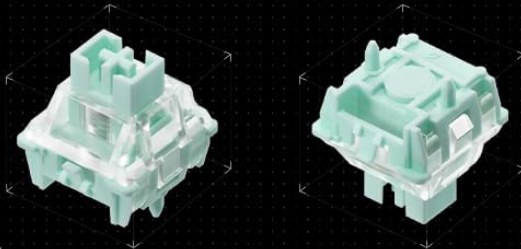
Explanation of the SOCD function, illustrating how key input priorities are handled when multiple directional keys are pressed simultaneously.

## 4.6 RGB Sidelit and Backlit

The BH65 features customizable RGB sidelighting and backlighting. These effects can be configured through the NuPhyIO software to match your preferences or gaming setup.

# Selectable Switch Types

## GATERON Magnetic Jade Gaming Switch

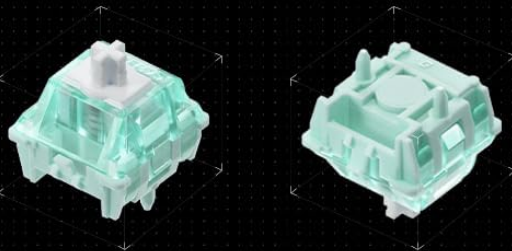


### Super Stable and Responsive

Initial Force:	$36 \pm 5$ gf
Bottoming Force:	$55 \pm 5$ gf
Adjustable Range:	0.1–3.3 mm
Bottoming Magnetic Flux:	$700 \pm 30$ Gs



## GATERON Magnetic Jade Pro Switch



### Super Stable, Super Responsive

Initial Force:	$36 \pm 10$ gf
Bottoming Force:	$50 \pm 10$ gf
Adjustable Range:	0.1–3.3 mm
Bottoming Magnetic Flux:	$700 \pm 30$ Gs



Note: Specifically, it is mainly based on commodity page inventory.

The NuPhyX BH65 keyboard displaying its customizable RGB sidelighting and backlighting.

## 4.7 Hot-Swappable Switches

The BH65 supports hot-swapping, allowing you to easily change the magnetic switches and keycaps without soldering. Use the included keycap/switch puller for this process.

# Compact & Practicality



**8K Hz**  
Polling rate

**USB-C**  
Connection

**PBT**  
Keycaps

**NuPhyIO**  
Driver

**DIY Shell**  
Components



A switch puller being used on the NuPhyX BH65 keyboard, illustrating its hot-swappable switch feature.

## 5. MAINTENANCE

- **Cleaning:** Regularly clean the keyboard with a soft, dry cloth. For deeper cleaning, remove keycaps using the provided puller and use compressed air to clear debris.
- **Switch Care:** Avoid exposing switches to excessive dust or liquids. If a switch feels inconsistent, it can be hot-swapped for a new one.
- **Cable Management:** Ensure the USB-C cable is not kinked or strained to prevent damage.

## 6. TROUBLESHOOTING

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- **Keyboard Not Responding:** Ensure the USB-C cable is securely connected to both the keyboard and the computer. Try a different USB port or cable.
- **Keys Not Registering:** Check the actuation point settings in the NuPhyIO software. If a specific key is faulty, consider hot-swapping the switch.
- **RGB Lighting Issues:** Verify RGB settings in NuPhyIO. Ensure the keyboard firmware is up to date.
- **Software Not Detecting Keyboard:** Reinstall the NuPhyIO driver. Ensure your operating system is up to date.

## 7. SPECIFICATIONS

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### General

**Layout:** ANSI 65%

**Number of Keys:** 68

**Switch Type:** High-Profile Magnetic Switches

**Stabilizer Type:** Plate Mounted

**Mount Type:** Tray mount

**Hot-swappable Support:** Yes (If power is off)

**N-key Rollover Support:** Yes

**Backlight:** Top-emitting LED

**Backlight Modes:** 20

**Compatible System:** macOS/Windows/Linux/Android/iOS

**Operating Environment:** -10 to 50°C

### Connectivity & Performance

**Connectivity Technology:** USB-C

**Wired Polling Rate:** 8000Hz

**PCB Scan Rate:** 16000Hz

### Physical

**Product Dimensions:** 12.66"L x 4.52"W x 1.18"H (321.5 mm x 114.8 mm x 29.9 mm)

**Item Weight:** 1.99 pounds (903 grams)

**Material:** All-aluminum body

**Keycap Material:** PBT

**Type Angle:** 6.0°



A detailed table outlining the technical specifications of the NuPhyX BH65 keyboard.

## 8. WARRANTY AND SUPPORT

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The NuPhyX BH65 keyboard comes with a manufacturer's warranty. For detailed warranty information, product support, or technical assistance, please visit the official NuPhy website or contact their customer service directly. Keep your purchase receipt for warranty claims.