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BOYI 66PRO

BOYI 66Pro Magnetic Mechanical Gaming Keyboard User Manual

Introduction

This manual provides detailed instructions for the setup, operation, maintenance, and troubleshooting of your BOYI 66Pro Magnetic Mechanical Gaming Keyboard. Please read this manual carefully to ensure optimal performance and longevity of your device.
The BOYI 66Pro is a 60% compact mechanical keyboard featuring advanced magnetic switches with rapid trigger technology, adjustable actuation points, and an 8K Hz polling rate, designed for competitive gaming and efficient daily use.

Setup

Package Contents

- BOYI 66Pro Magnetic Mechanical Gaming Keyboard
- USB Type-C Cable
- Keycap and Switch Puller
- 2 Additional Keycaps
- Keyboard Dust Cover

Connecting the Keyboard

1. Locate the USB Type-C port on the back of the keyboard.
2. Connect one end of the provided USB Type-C cable to the keyboard.
3. Connect the other end of the USB Type-A connector to an available USB port on your computer.
4. The keyboard will automatically be recognized by your operating system (Windows or macOS).



Image: The BOYI 66Pro keyboard features a universal Type-C interface for stable connection and high compatibility with both Windows and Mac operating systems.

Operating Instructions

Magnetic Mechanical Switches

The BOYI 66Pro utilizes magnetic mechanical switches, offering hyper-fast response times and adjustable actuation points. These switches operate based on the Hall effect, providing durability and precision without physical contact points.

- **Adjustable Actuation:** The actuation point can be adjusted from 0.1mm to 4.0mm with a precision of 0.1mm. This allows users to customize the key sensitivity to their preference for gaming or typing.
- **Rapid Trigger:** This technology enables keys to reset instantly upon release, allowing for extremely fast repeated inputs, crucial for competitive gaming.
- **Dual Action Keypress:** Through the BOYI 66Pro software, you can assign two different actions to a single key based on the depth of the keypress. This allows for complex skill combos with a single key.



Image: Detail of the magnetic mechanical switches, highlighting the adjustable actuation range from 0.1mm to 4mm and the rapid trigger feature.



Image: The BOYI 66Pro keyboard supports two actions per single keypress, allowing for advanced in-game maneuvers.

8K Hz Polling Rate

The keyboard features an 8000 Hz polling rate, meaning it reports key presses to your computer up to 8000 times per second. This significantly reduces input latency, providing a competitive edge in fast-paced games.

RGB Backlighting

The BOYI 66Pro features 16.8 million color RGB backlighting with south-facing LEDs for superior brightness and compatibility with various keycap profiles. You can customize lighting effects and colors using the dedicated software.

- **Switching Lighting Modes:** Press **Fn + Page Down** to cycle through different lighting modes.



Image: The BOYI 66Pro keyboard with customizable RGB backlighting, controlled via software or the Fn + Page Down key combination.

Programmable Keys and Software

The keyboard is fully programmable. You can remap keys, create macros, and adjust actuation points using the professional BOYI 66Pro software. This allows for extensive customization to suit your workflow or gaming style.

Multimedia Knob

The integrated multi-function knob allows for easy control of multimedia functions:

- **Rotate:** Adjust volume.
- **Press:** Play or pause media.

Hot-Swappable Switches

The BOYI 66Pro features a hot-swappable design, allowing you to easily replace the magnetic switches without soldering. It supports 3-pin or 5-pin magnetic mechanical switches.

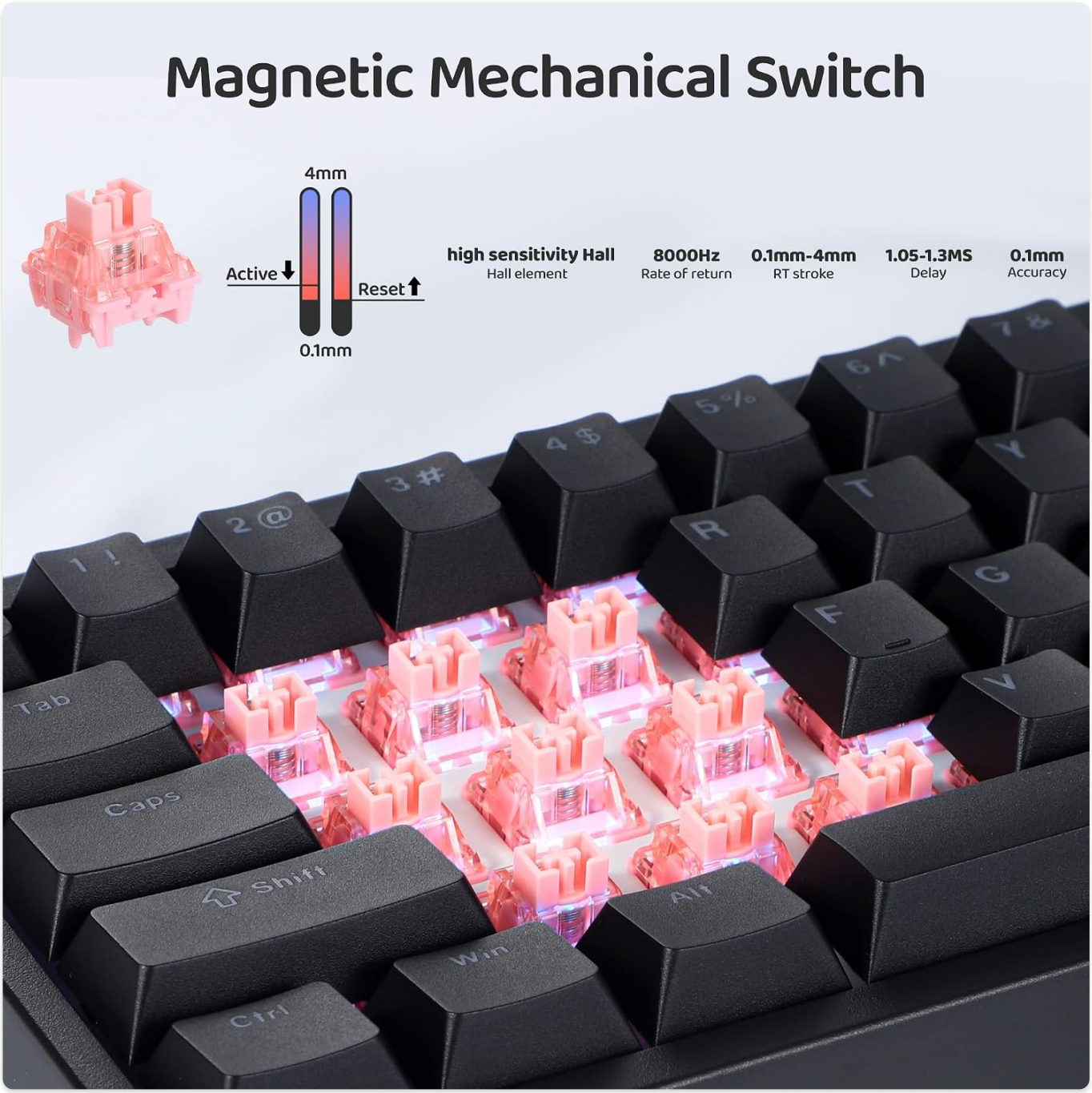

Image: The BOYI 66Pro keyboard features hot-swappable magnetic switches, allowing for easy replacement without soldering.

Maintenance

Cleaning

- Use the provided dust cover when the keyboard is not in use to prevent dust accumulation.
- To clean the keycaps, gently remove them using the keycap puller. Wipe them with a soft, damp cloth.
- Use a can of compressed air to remove dust and debris from between the switches.
- Wipe the keyboard surface with a soft, dry, or slightly damp cloth. Avoid using harsh chemicals or abrasive materials.

Switch Replacement

If a switch needs replacement, use the switch puller to carefully remove the old switch. Align the pins of the new 3-pin or 5-pin magnetic switch with the sockets on the PCB and press down gently until it clicks into place.

Troubleshooting

Keyboard Not Responding

- Ensure the USB Type-C cable is securely connected to both the keyboard and the computer.
- Try connecting the keyboard to a different USB port on your computer.
- Test the keyboard on another computer to rule out a system-specific issue.
- Restart your computer.

RGB Lighting Not Working or Incorrect

- Ensure the keyboard is properly connected.
- Press **Fn + Page Down** to cycle through lighting modes.
- Check the BOYI 66Pro software for lighting settings and ensure they are configured correctly.
- Update the keyboard firmware if available.

Keys Not Registering or Double-Typing

- This could indicate an issue with the magnetic switch. Try replacing the affected switch with a spare one or a switch from a less-used key.
- Ensure the switch is fully seated in its socket.
- Check the actuation point settings in the software; an extremely low actuation point might cause unintended triggers.

If you encounter persistent issues not covered here, please refer to the official BOYI support channels.

Specifications

Brand	BOYI
Model	66PRO
Connectivity	Wired (USB Type-C)
Switch Type	Magnetic Mechanical Switches (Rapid Trigger Adjustable Dedicated)
Polling Rate	8000 Hz
Actuation Range	0.1mm - 4.0mm (0.1mm adjustable precision)
Key Count	66 Keys
Keyboard Layout	QWERTY
Backlighting	RGB (16.8 million colors, South-facing LEDs)
Hot-Swappable	Yes (Supports 3-pin or 5-pin magnetic switches)
Compatibility	Windows, macOS, Gaming Consoles
Dimensions (L x W x H)	32.5 cm x 10.9 cm x 2 cm
Weight	1.76 lbs (approx. 0.8 kg)

Water Resistance	Water-resistant

Warranty and Support

For warranty information and technical support, please refer to the documentation included with your purchase or visit the official BOYI website. Keep your proof of purchase for warranty claims.

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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.

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

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