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ZORNHER ZH870

ZORNHER ZH870 Wireless Mechanical Gaming Keyboard User Manual

Model: ZH870

1. INTRODUCTION

Welcome to the ZORNHER ZH870 Wireless Mechanical Gaming Keyboard user manual. This document provides detailed instructions for setting up, operating, and maintaining your new keyboard. The ZH870 is designed for both gaming and productivity, featuring a compact 80% layout, triple connectivity options, customizable RGB lighting, and hot-swappable switches.



Figure 1: ZORNHER ZH870 Wireless Mechanical Gaming Keyboard.

2. PACKAGE CONTENTS

Ensure all items are present in the package:

- 1x Fully Assembled Keyboard
- 1x Keycap Puller
- 1x Dust Cover
- 3x Replace Switches
- 1x 2.4GHz Receiver
- 1x USB-C Cable (1.8m nylon)
- 1x Instruction Manual



Figure 2: Package contents for the ZH870 keyboard.

3. PRODUCT OVERVIEW

The ZORNHER ZH870 is an 80% layout mechanical keyboard designed for optimal performance and user experience. Key features include:

- **Dipped PBT Keycaps:** High-purity PBT keycaps with clear, side-printed legends for durability and vibrant RGB diffusion.
- **80% Layout:** Compact design retaining essential keys (F-row, arrows, navigation cluster) for efficiency.
- **Creamy Linear Switches:** Factory-lubed switches with gasket mount for soft keystrokes and audible feedback.
- **22 RGB Modes:** Vivid RGB lighting with south-facing and side LEDs, offering 22 preset effects.
- **Hot-Swappable:** Compatible with 3-pin and 5-pin mechanical switches without soldering.
- **Triple Connection:** Seamless switching between 2.4GHz wireless, Bluetooth 5.0, and USB-C wired modes, supporting up to 5 devices.
- **4000mAh Battery:** High-capacity battery for extended wireless use.
- **Ergonomic Design:** OEM-profile keycaps and stable build for comfort and control.

ZH870

80% Layout Custom Mechanical keyboard

Triple Model/ Gasket Structure/Dipped PBT Key





Battery Capacity:
4000mah



Dipped PBT Key



Hot Swappable



Gasket Structure



Triple Models



22 Lighting Modes



80% Layout



Creamy Sound Switch

Figure 3: Key features of the ZORNHER ZH870 keyboard.

4. SETUP

4.1. Connectivity Modes

The ZH870 supports three connection methods: 2.4GHz wireless, Bluetooth 5.0, and USB-C wired. You can switch between these modes using the dedicated switch on the back of the keyboard.

- **2.4GHz Wireless:** Insert the 2.4GHz receiver into a USB port on your device. Select 2.4GHz mode on the keyboard.
- **Bluetooth 5.0:** Select Bluetooth mode on the keyboard. Pair with your device via Bluetooth settings. The keyboard can connect to up to 5 devices.
- **USB-C Wired:** Connect the provided USB-C cable from the keyboard to your device. Select wired mode on the keyboard.



Figure 4: Triple connection options for the ZH870.

4.2. Charging

The keyboard is powered by a 4000mAh battery. Connect the USB-C cable to the keyboard and a power source (e.g., computer USB port, wall adapter) to charge. The battery status can be monitored via the keyboard's display or software.

4.3. Adjustable Feet

The keyboard features adjustable feet on the underside, allowing you to set the typing angle for ergonomic comfort. There are multiple height settings available.

5. OPERATING INSTRUCTIONS

5.1. RGB Lighting Modes

The ZH870 offers 22 preset RGB lighting effects, including side-glow and south-facing LEDs for clean and immersive illumination. Use the function keys (Fn) in combination with other keys to cycle through effects, adjust brightness, and change colors.

- **Fn + MENU:** Change backlight effect.
- **Fn + SHIFT_R:** Change backlight color.
- **Fn + F13:** Switch side backlight effect.
- **Fn + BACKSPACE:** Toggle lights off/on.
- **Fn + Up Arrow:** Increase backlight brightness.
- **Fn + Down Arrow:** Decrease backlight brightness.
- **Fn + Left Arrow:** Decrease backlight speed.
- **Fn + Right Arrow:** Increase backlight speed.

16 MILLION COLORS

Optional colors and brightness can be adjusted
With the exclusive driver of the Pioneer, play with a variety
of dynamic lights on your colorful desktop



 + 	 Backlight effect	 + 	 Backlight Brightness+
 + 	 Backlight color	 + 	 Backlight Brightness-
 + 	 Switch Side backlight effect	 + 	 Backlight Speed-
 + 	 Lights off/on	 + 	 Backlight Speed+

Figure 5: RGB lighting control functions.

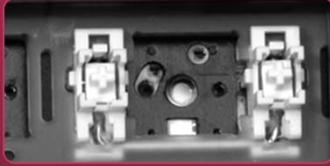
5.2. Customization

The keyboard is fully customizable:

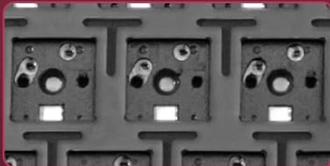
- **Hot-Swappable Switches:** The PCB supports both 3-pin and 5-pin mechanical switches, allowing for easy switch replacement without soldering.
- **Driver Support:** Utilize the dedicated driver software to remap keys, set macros, and personalize lighting modes to suit your preferences.

Hot-Swappable RGB PCB

Supports 3-pin/5-pin,
98% Switches on the Market



Fine adjustment of satellite axis



Supports 3 pins or 5 pins switches.



Figure 6: Hot-swappable switch functionality.

22 RGB Light Effects Macro

Recording & Editing

22 RGB Models

Lighting effects

Macro

Recording & Editing

Music

Audio visualizer effect

Custom Profile

Set up exclusive typing experience



Figure 7: Software interface for advanced customization.

5.3. Multi-Device Connection

The ZH870 can connect to up to 5 devices simultaneously via its triple connection modes, allowing for seamless switching between your computer, tablet, and other compatible devices.

6. MAINTENANCE

To ensure the longevity and optimal performance of your ZORNHER ZH870 keyboard, regular maintenance is recommended:

- **Cleaning:** Use the provided dust cover when not in use. For general cleaning, gently wipe the keycaps and keyboard surface with a soft, lint-free cloth. Use the included brush to remove dust and debris from between the keycaps.
- **Keycap and Switch Removal:** Use the keycap puller and switch puller (if applicable) to carefully remove keycaps and switches for deeper cleaning or replacement.

7. TROUBLESHOOTING

If you encounter issues with your ZORNHER ZH870 keyboard, please refer to the following common solutions:

- **Connectivity Issues:** Ensure the keyboard is in the correct mode (2.4GHz, Bluetooth, or Wired) for your device. For wireless connections, check battery level and ensure the receiver is properly inserted or Bluetooth is paired. Try restarting the keyboard and your device.
- **Keys Not Responding:** Check if the keyboard is properly connected. If using wireless, ensure it's charged. If specific keys are not working, consider replacing the switch using the hot-swappable feature.
- **RGB Lighting Problems:** Verify that the lighting is not turned off (Fn + BACKSPACE). Adjust brightness and effects using the function key combinations. Ensure the driver software is up-to-date for advanced customization.
- **Battery Not Charging:** Ensure the USB-C cable is securely connected to both the keyboard and a working power source. Try a different USB-C cable or port.

For further assistance, please contact ZORNHER customer support.

8. SPECIFICATIONS

Feature	Detail
Product Dimensions	16.65 x 7.99 x 2.75 inches
Item Weight	3.85 pounds
Manufacturer	ZORNHER
Batteries	CR5 batteries required (included)
Compatible Devices	Gaming Console, Laptop, PC, Smart TV, Tablet
Connectivity Technology	Bluetooth, USB-C, Wi-Fi (2.4GHz)
Keyboard Description	Mechanical
Recommended Uses	Everyday Use, Gaming, Personal
Special Features	3 Mode, Backlit, Hot-Swappable, Rechargeable
Keyboard Backlighting	RGB

9. WARRANTY AND SUPPORT

The ZORNHER ZH870 Wireless Mechanical Gaming Keyboard comes with a **2-year warranty** for worry-free ownership. For any product-related inquiries, technical support, or warranty claims, please contact ZORNHER customer service through the official channels provided at the time of purchase.

10. PRODUCT VIDEOS

ZORNHER Mechanical Keyboard Overview

Your browser does not support the video tag.

This video provides a brief overview of the Zornher mechanical keyboard, highlighting its design and features.

ZORNHER ZH870 Mechanical Keyboard Features

Your browser does not support the video tag.

A short video showcasing the ZORNHER ZH870 mechanical keyboard, focusing on its key attributes and aesthetic.