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› [ZORNHER](#) /

› [ZORNHER ZH870 Wireless Gaming Mechanical Keyboard User Manual](#)

## ZORNHER ZH870

# ZORNHER ZH870 Wireless Gaming Mechanical Keyboard User Manual

Model: ZH870

## INTRODUCTION

This manual provides detailed instructions for the ZORNHER ZH870 Wireless Gaming Mechanical Keyboard. Please read this guide thoroughly to ensure proper setup, operation, and maintenance of your device. The ZH870 features an 80% layout, IMD PC keycaps, creamy linear switches, hot-swappable design, RGB backlighting, and triple connectivity options.



Image: ZORNHER ZH870 Wireless Gaming Mechanical Keyboard with its distinctive spider web pattern and purple RGB

## PACKAGE CONTENTS

Verify that all items are present in your ZORNHER ZH870 package:

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

# Package List ZH870



1x Fully Assembled Keyboard



3x Replace Switch



1x Keycap Puller



1x Type-C Cable



1x 2.4GHz Receiver



1x Instruction

Image: A visual representation of the ZORNHER ZH870 package contents, including the keyboard, USB-C cable, 2.4GHz receiver, replacement switches, keycap puller, and instruction manual.

# SETUP

## Initial Charging

Before first use, it is recommended to fully charge the keyboard. Connect the provided USB-C cable to the keyboard's USB-C port and the other end to a powered USB port (e.g., computer, wall adapter). The keyboard features a 4000mAh battery.

## Connectivity Options

The ZORNHER ZH870 supports three connection modes: 2.4GHz wireless, Bluetooth 5.0, and USB-C wired. You can connect up to 5 devices simultaneously.

# Triple Model Connection

Support 5 Devices at the same time

**2.4Ghz wireless**

**BT5.0 Bluetooth**

**Type-C Wired**

SWITCH XBOX PLAYSTATION PC LAPTOP TABLET PHONE

Image: An illustration detailing the keyboard's triple connection capabilities, including 2.4GHz wireless, Bluetooth 5.0, and USB-C wired, along with examples of compatible devices such as Switch, Xbox, PlayStation, PC, Laptop, Tablet, and Phone.

## 2.4GHz Wireless Connection

1. Locate the 2.4GHz USB receiver in the package.

2. Plug the receiver into an available USB port on your computer.
3. On the keyboard, switch the mode selector to 2.4GHz. The keyboard should automatically connect.

## Bluetooth 5.0 Connection

1. On the keyboard, switch the mode selector to Bluetooth.
2. Press and hold the Fn key + a designated Bluetooth channel key (e.g., Fn + 1, Fn + 2, Fn + 3) for 3-5 seconds until the indicator light flashes, indicating pairing mode.
3. On your device (PC, Mac, tablet, phone), go to Bluetooth settings and select "ZORNHER ZH870" to pair.
4. Once paired, the indicator light will become solid.

## USB-C Wired Connection

1. Connect the provided USB-C cable to the keyboard's USB-C port.
2. Connect the other end of the USB-C cable to an available USB port on your computer.
3. The keyboard will automatically switch to wired mode and begin charging.

# OPERATING INSTRUCTIONS

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## Switching Between Modes

Use the physical switch located on the keyboard to select between 2.4GHz, Bluetooth, and Wired (USB-C) modes.

## RGB Lighting Controls

The ZH870 features 22 preset RGB lighting effects, including side-glow and south-facing LEDs. Use the following key combinations to control the lighting:

- **Fn + Shift:** Change Backlight Color
- **Fn + Code:** Change Backlight Effect (Cycle through 22 modes)
- **Fn + Backspace:** Turn Lights On/Off
- **Fn + ↑:** Increase Brightness
- **Fn + ↓:** Decrease Brightness
- **Fn + ←:** Speed Up Light Change Rate
- **Fn + →:** Speed Down Light Change Rate

# 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



<b>Fn</b> + <b>Shift</b>	 Backlight color	<b>Fn</b> +   Brightness +
<b>Fn</b> + <b>Code</b>	 Backlight effect	<b>Fn</b> +   Brightness -
<b>Fn</b> + <b>Backspace</b>	 Lights off/on	<b>Fn</b> +   Speed up light change rate
		<b>Fn</b> +   Speed down light change rate

Image: A visual guide illustrating the function key combinations for adjusting RGB backlight color, effects, brightness, and speed on the ZORNHER ZH870 keyboard.

Your browser does not support the video tag.

Video: A short demonstration showcasing various RGB lighting effects and color changes on the ZORNHER ZH870 mechanical keyboard.

## Customization and Software

The ZORNHER ZH870 is fully customizable with driver support. You can remap keys, set macros, and personalize lighting modes to fit your gaming or workflow style. Refer to the official ZORNHER website for driver downloads and detailed software instructions.

# 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



Image: A screenshot of the ZORNHER software interface, demonstrating options for RGB lighting effects, macro recording, and profile customization for the ZH870 keyboard.

## MAINTENANCE

### Cleaning

To clean your keyboard, disconnect it from power. Use a soft, dry cloth to wipe the keycaps and chassis. For deeper cleaning, use the provided keycap puller to remove keycaps and a soft brush or compressed air to remove dust and debris from beneath them.

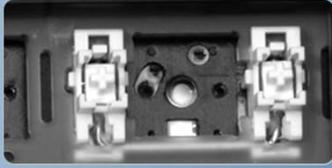
### Switch Replacement (Hot-Swappable)

The ZH870 features a hot-swappable PCB, compatible with both 3-pin and 5-pin mechanical switches. No soldering is required for switch replacement.

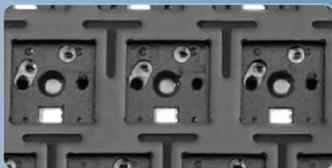
1. Using a switch puller (not included, but often comes with replacement switches), carefully grip the switch and pull it straight up to remove it.
2. Align the pins of the new switch with the holes on the PCB.
3. Gently press the new switch into place until it clicks securely. Ensure the pins are not bent.
4. Test the new switch to confirm functionality.

# 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

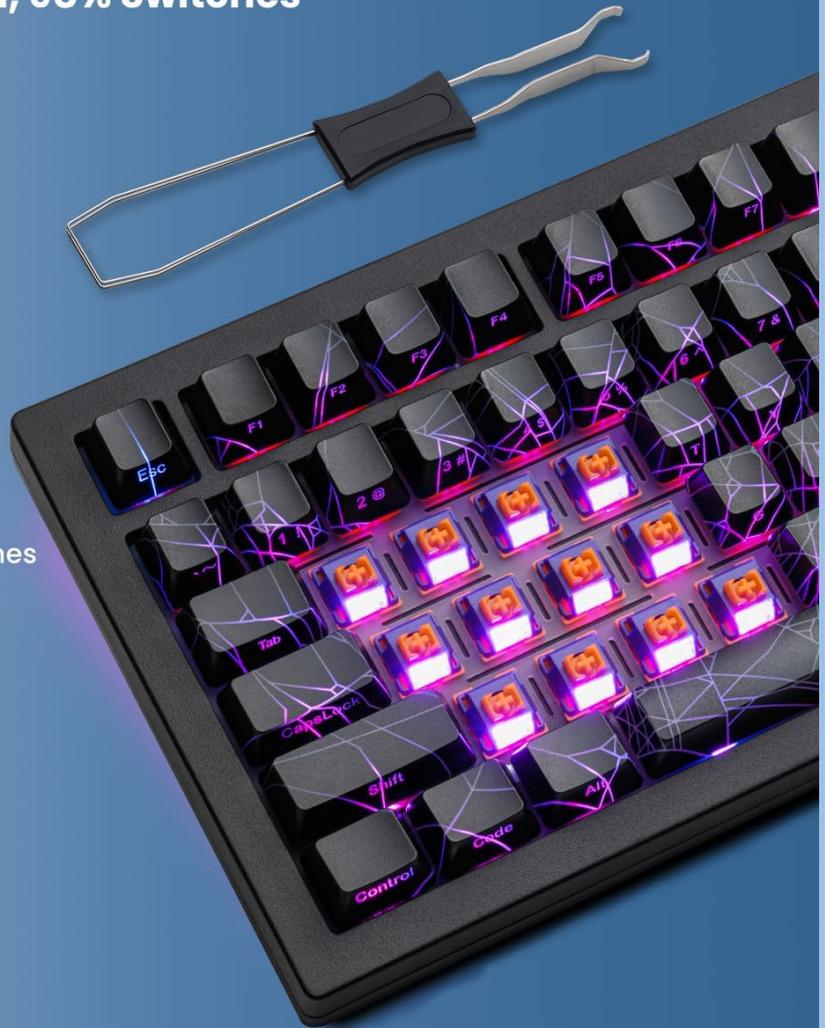


Image: A detailed view of the ZORNHER ZH870's hot-swappable PCB, showing the switch sockets and a switch puller tool, highlighting compatibility with 3-pin and 5-pin switches.

## TROUBLESHOOTING

- **Keyboard Not Responding:** Ensure the keyboard is charged. Check the connection mode (2.4GHz, Bluetooth, or USB-C) and ensure it matches your device's connection. For wireless modes, verify the receiver is properly plugged in or Bluetooth is paired. Try restarting the keyboard or your device.
- **RGB Lights Not Working:** Ensure the lights are not turned off (Fn + Backspace). Check brightness levels (Fn + ↑/↓). If using software, verify settings.
- **Connectivity Issues:** For 2.4GHz, try a different USB port for the receiver. For Bluetooth, unpair and re-pair the device. Ensure no other wireless devices are causing interference. For wired, try a different USB-C cable or port.
- **Keys Not Registering:** If a specific key is not working, it might be a faulty switch. Utilize the hot-swappable feature to replace the switch with one of the provided spares.
- **Battery Drains Quickly:** Reduce RGB brightness or turn off lighting when not needed. Ensure the keyboard is

fully charged. If the issue persists, contact support.

## SPECIFICATIONS

Feature	Detail
Model	ZH870
Layout	80% (88 Keys Compact)
Keycaps	IMD PC Keycaps with Shine-Through Legends
Switches	Creamy Linear Switches (Factory-Lubed, Hot-Swappable 3-pin/5-pin)
Mounting Style	Gasket Mount
Connectivity	2.4GHz Wireless, Bluetooth 5.0, USB-C Wired (Supports up to 5 devices)
Battery Capacity	4000mAh Lithium Ion
Backlighting	RGB (22 Modes, South-Facing & Side Lighting)
Compatible Devices	Laptop, Mac, PC, Tablet
Operating System Support	Windows & macOS
Product Dimensions	16.65"L x 7.99"W x 2.75"H
Item Weight	3.8 pounds

## WARRANTY AND SUPPORT

The ZORNHER ZH870 Wireless Gaming Mechanical Keyboard comes with a **2-year warranty** from the date of purchase, covering manufacturing defects. For warranty claims, technical assistance, or any product-related inquiries, please contact ZORNHER customer support through the official website or your retailer's support channels.

Please retain your proof of purchase for warranty validation.

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### Related Documents - ZH870

	<a href="#">Zornher ZH980 Mechanical Keyboard User Manual</a> Comprehensive user manual for the Zornher ZH980 Mechanical Keyboard, covering wired, Bluetooth, and 2.4G wireless connections, lighting modes, system switching, and specifications.
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	<p><a href="#">Zuohe ZH870 Mechanical Keyboard User Manual</a></p> <p>Comprehensive user manual for the Zuohe ZH870 Mechanical Keyboard, covering its triple-mode connectivity (Bluetooth, Wired, 2.4G), lighting effects, battery status, multi-system compatibility, and driver software features. Includes FCC compliance information.</p>
	<p><a href="#">Zornher ZH980 Mechanical Keyboard User Manual</a></p> <p>Comprehensive user manual for the Zornher ZH980 Mechanical Keyboard, covering wired, Bluetooth, and 2.4G wireless connections, lighting modes, system switching, and specifications.</p>

Documents - ZORNHER – ZH870



[\[pdf\]](#) Specifications Test Report

Test Report BLE 1M Dongguan Zuohe Electronics Co Ltd ZH870 Mechanical keyboard 2BMMG 2BMMGZH870 zh870

Shenzhen CTA Testing Technology Co., Ltd. Room 106, Building 1, Yibaolai Industrial Park, Qiaotou Co ... o.....: CTA24112700201 FCC

ID..... : 2BMMG-**ZH870** Compiled by position printed name signature ..: File administrators Xudong Zhang Supervised ...

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