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ZORNHER ZH980

ZORNHER ZH980 Wireless Mechanical Keyboard User Manual

Model: ZH980

1. INTRODUCTION

Thank you for choosing the ZORNHER ZH980 Wireless Mechanical Keyboard. This manual provides essential information for setting up, operating, and maintaining your new keyboard. Please read it thoroughly to ensure optimal performance and longevity of your device.



Figure 1: ZORNHER ZH980 Wireless Mechanical Keyboard

2. PRODUCT FEATURES

- **IMD PBT Keycaps with Shine-Through Legends:** Durable keycaps resistant to shine and fading, featuring side-printed legends for enhanced durability and clear RGB illumination.
- **95% Layout for Full Function with Compact Size:** Retains full number pad, F-row, arrows, and navigation keys in a space-saving design.

- **Crisp Typing Sound with Linear Creamy Switches:** Equipped with factory-lubed creamy linear switches and a gasket-mounted structure for a soft yet audible typing experience.
- **RGB Lighting with 22 Preset Modes:** Features vibrant RGB lighting with 22 preset modes, south-facing LEDs, and edge glow, enhanced by a transparent case and high-transparency keycaps.
- **Hot-Swappable & Full Customization Support:** Allows easy customization of typing feel without soldering, supporting 3-pin and 5-pin mechanical switches. Driver software enables key remapping, macro creation, and RGB effect tailoring.
- **Triple-Mode Connection with 6000mAh Battery:** Connects via Bluetooth 5.0, 2.4GHz wireless, or USB-C, supporting seamless switching between up to 5 devices. A 6000mAh battery provides long-lasting performance.
- **Comfortable Ergonomic Typing Design:** Designed with a dual-angle kickstand, OEM-profile keycaps, and side-printed legends for reduced visual clutter and comfortable extended use.
- **Premium Build:** Constructed with high-density materials, anti-slip weight (40.5 oz), and a sleek IMD surface for durability and a quality feel.

ZH980

95% Layout Custom Mechanical keyboard

Triple Model/ Gasket Structure/ IMD PBT Key





Battery Capacity:
6000mah



IMD PBT Key



Hot Swappable



Gasket Structure



Triple Models



22 Lighting Modes



95% Layout



Creamy Sound Switch

Figure 2: Overview of ZH980 features including 95% layout and gasket structure.

3. SETUP

3.1 Unboxing

The ZORNHER ZH980 package includes the following items:

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



Figure 3: Contents of the ZH980 product package.

3.2 Connectivity

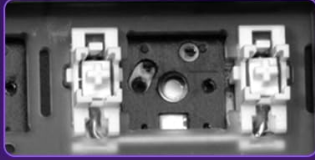
The ZH980 keyboard supports three connection modes:

- **2.4GHz Wireless:** Insert the 2.4GHz USB receiver into your device's USB port. The keyboard will automatically connect.
- **Bluetooth 5.0:** Activate Bluetooth on your device and search for 'ZORNHER ZH980'. Select to pair. The keyboard can store up to 3 Bluetooth devices (BT1, BT2, BT3).
- **USB-C Wired:** Connect the provided USB-C cable from the keyboard to your device. This mode also charges the keyboard.

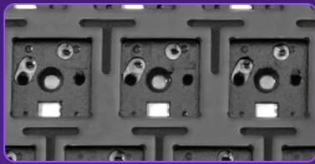
Seamlessly switch between up to 5 devices (3 Bluetooth, 1 2.4GHz, 1 Wired) using the multi-function knob or designated key combinations.

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 4: Triple-mode connection options for the ZH980 keyboard.

3.3 Physical Setup

The keyboard features a dual-angle kickstand for ergonomic adjustment. Flip out the kickstands on the underside of the keyboard to adjust the typing angle to your preference.



Figure 5: Dual-angle kickstand for ergonomic adjustment.

4. OPERATING INSTRUCTIONS

4.1 RGB Lighting Control

The keyboard offers 22 preset RGB lighting modes. Use the following key combinations to control the backlight:

- **Fn + ↑ / ↓**: Adjust Backlight Brightness.
- **Fn + ← / →**: Adjust Backlight Speed.
- **Fn + ↶ (Page Up)**: Switch Backlight Color.
- **Fn + ↷ (Page Down)**: Switch Backlight Mode.
- **Fn + Space**: Restore to Factory Settings.
- **Fn + Win**: Window Lock.

Transparent Base



Two-stage tripod



Side Printed PBT Keycaps



Heavy Materials

Figure 6: RGB Backlight Control functions.

4.2 Customization Software

For full customization, including key remapping, macro creation, and advanced RGB effects, download the dedicated driver software from the ZORNIER official website. This software allows you to tailor the keyboard to your personal preferences.

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: Customization software interface for RGB and macros.

4.3 Multi-function Knob

The multi-function knob on the keyboard allows for quick adjustments and settings changes. Rotate the knob to cycle through options and press it to confirm selections or enter menus. This knob can control various settings including connection modes, system settings, and potentially RGB effects depending on the current mode.

Your browser does not support the video tag.

Video 1: Demonstrates the multi-function knob and its display for changing settings and RGB effects on the ZORNHER ZH980 keyboard.

5. MAINTENANCE

5.1 Cleaning

To maintain your keyboard's appearance and functionality, regularly clean it using the provided brush and

cloth. Use the brush to remove dust and debris from between the keycaps, and the cloth to wipe down the surface.

5.2 Switch and Keycap Replacement

The ZORNHER ZH980 is hot-swappable, allowing for easy replacement of switches and keycaps without soldering. Use the included keycap puller to remove keycaps and the switch puller to remove switches. Align the new switch pins carefully before pressing it into place. Replace keycaps by gently pressing them onto the switch stem.



Figure 8: Hot-swappable PCB and tools for switch/keycap replacement.

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Video 2: Demonstrates the sound of the ZORNHER ZH980 keyboard and the process of removing and replacing keycaps and switches.

6. TROUBLESHOOTING

If you encounter any issues with your ZORNHER ZH980 keyboard, please refer to the following common troubleshooting steps:

- **Connection Issues:** Ensure the keyboard is charged. For 2.4GHz, verify the receiver is properly inserted. For Bluetooth, ensure the keyboard is in pairing mode and within range. Try re-pairing or switching to wired mode.
- **Keys Not Responding:** Check if the keyboard is powered on and connected. If in wireless mode, ensure the battery is not depleted. Try cleaning around the affected key or replacing the switch if it's hot-swappable.
- **RGB Lighting Problems:** Use the Fn key combinations to cycle through modes, adjust brightness, or reset to factory settings. Ensure the customization software is up-to-date if custom profiles are not working.
- **Software Issues:** Reinstall the customization software from the official ZORNHER website. Ensure your operating system is compatible.
- **Battery Life:** If battery life is shorter than expected, ensure RGB lighting is not set to maximum brightness constantly. Turn off the keyboard when not in use.

For further assistance, please contact ZORNHER customer support.

7. SPECIFICATIONS

Feature	Detail
Product Dimensions	14.96 x 7.99 x 2.75 inches
Item Weight	4.18 pounds
Manufacturer	ZORNHER
ASIN	B0F3XGD765
Batteries	1 Lithium Ion batteries required (included)
Date First Available	April 7, 2025
Compatible Devices	Laptop, Mac, PC, Smartphone, Tablet
Connectivity Technology	Bluetooth, USB-C, Wi-Fi (2.4GHz)
Keyboard Description	Mechanical
Recommended Uses For Product	Everyday Use, Gaming, Personal
Special Feature	Backlit, Hot-Swappable, Integrated Stand, Rechargeable, Transparent Base
Color	Lightning (RGB)
Keyboard Backlighting Color Support	RGB
Style	Contemporary

8. WARRANTY AND SUPPORT

The ZORNHER ZH980 Mechanical Keyboard is covered by a 2-year warranty from the date of purchase. This warranty covers manufacturing defects and ensures the product meets its specified performance standards. For warranty claims, technical support, or any inquiries regarding your keyboard, please contact ZORNHER customer service through their official website or the contact information provided with your purchase documentation.