FL ESPORTS CMK98

CMK98 Wireless Mechanical Keyboard User Manual

Brand: FL ESPORTS | Model: CMK98

1. INTRODUCTION

The FL ESPORTS CMK98 is a versatile 99-key wireless mechanical keyboard designed for both Mac and Windows operating systems. It features a compact full-size layout, including a number pad, to maximize productivity. This keyboard is equipped with hot-swappable switches, vibrant RGB backlighting, and multiple connectivity options, providing a customizable and efficient typing experience for gaming, work, and study.

Figure 1: FL ESPORTS CMK98 Wireless Mechanical Keyboard (Grey)

2. SETUP

2.1 Package Contents

Before you begin, please ensure all items are present in the package:

- CMK98 Wireless Mechanical Keyboard
- USB-C Cable
- 2.4GHz USB Receiver

- Keycap Puller
- Switch Puller
- User Manual (this document)

2.2 Connection Modes

The CMK98 keyboard supports three connection modes: Bluetooth (BT5.0), 2.4GHz Wireless, and USB Wired. You can easily switch between these modes using the physical switch located on the side of the keyboard.

Figure 2: Multi-Device Connection Options

2.2.1 2.4GHz Wireless Mode

1. Locate the 2.4GHz USB receiver.
2. Plug the 2.4GHz USB receiver into an available USB port on your computer.
3. Slide the connection mode switch on the keyboard to the "2.4G" position.
4. The keyboard will automatically connect to your computer.

2.2.2 Bluetooth Mode

1. Slide the connection mode switch on the keyboard to the "BT" position.

2. On your computer or device, enable Bluetooth and search for new devices.

3. Select "CMK98" from the list of available Bluetooth devices to pair.

4. The keyboard can connect to multiple Bluetooth devices. Use FN + Q/W/E to switch between paired devices.

2.2.3 USB Wired Mode

1. Connect one end of 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. Slide the connection mode switch on the keyboard to the "USB" position.

4. The keyboard will be recognized as a wired device and begin charging simultaneously.

Figure 3: Connection Mode Switch and USB-C Port

2.3 Operating System Switch

The CMK98 keyboard features a dedicated switch to toggle between Mac and Windows layouts, ensuring optimal key functionality for your specific operating system.

Figure 4: Mac/Win OS Switch

3. OPERATING INSTRUCTIONS

3.1 RGB Backlighting

The CMK98 keyboard features 1.68 million RGB backlit keys with various lighting effects. Use the following key combinations to control the backlighting:

- **FN +** \ : Cycle through lighting effects.
- **FN +** ↑ / ↓: Adjust brightness.
- **FN +** ← / →: Adjust lighting speed/direction.
- Refer to the full manual for more advanced lighting customization options via software.

3.2 Hot-Swappable Switches

The CMK98 features a hot-swappable PCB, allowing you to easily replace 3-pin or 5-pin mechanical switches without soldering. This enables customization of your typing feel and sound.

Hot-Swap Keyboard and Pre-lubed Switches
Customize your typing experience with ease with the hot-swappable PCB.These linear switches have a creamy sound and excellent smooth keystroke feel

Kailh Box Red Switches
Switch Type: Linear
Actuation Force: 45±10gf
Pre-travel: 1.8±0.3mm
Total Travel: 3.6±0.3mm

Figure 5: Hot-Swappable Switches

3.2.1 Replacing Switches

1. Gently remove the keycap using the provided keycap puller.
2. Use the switch puller to carefully grip the switch from its top and bottom clips.
3. Pull the switch straight up to remove it from the PCB.
4. Align the pins of the new switch with the holes on the PCB.
5. Press the new switch firmly into place until it clicks. Ensure pins are not bent.

Figure 6: Linear Switch Example

3.3 Macro Programming and Software Support

The CMK98 supports macro customization and key function remapping through its dedicated driver software. This allows for personalized control and enhanced productivity or gaming performance.

- Download the official software from the FL ESPORTS website.
- Install the software and connect your keyboard in wired mode for best results.
- Use the software interface to record macros, assign functions to individual keys, and customize RGB lighting effects.

3.4 Product Demonstration Video

Your browser does not support the video tag.

Video 1: Demonstration of the CMK98 Wireless Mechanical Gaming Keyboard, highlighting its creamy typing feel and wireless capabilities.

4. MAINTENANCE

4.1 Cleaning

- Disconnect the keyboard from all power sources before cleaning.
- Use a soft, lint-free cloth slightly dampened with water or a mild cleaning solution to wipe the keycaps and casing.
- For dust and debris between keys, use compressed air.
- Avoid using harsh chemicals or abrasive materials.

4.2 Battery Care

The CMK98 keyboard is equipped with a 4000mAh rechargeable Lithium Polymer battery.
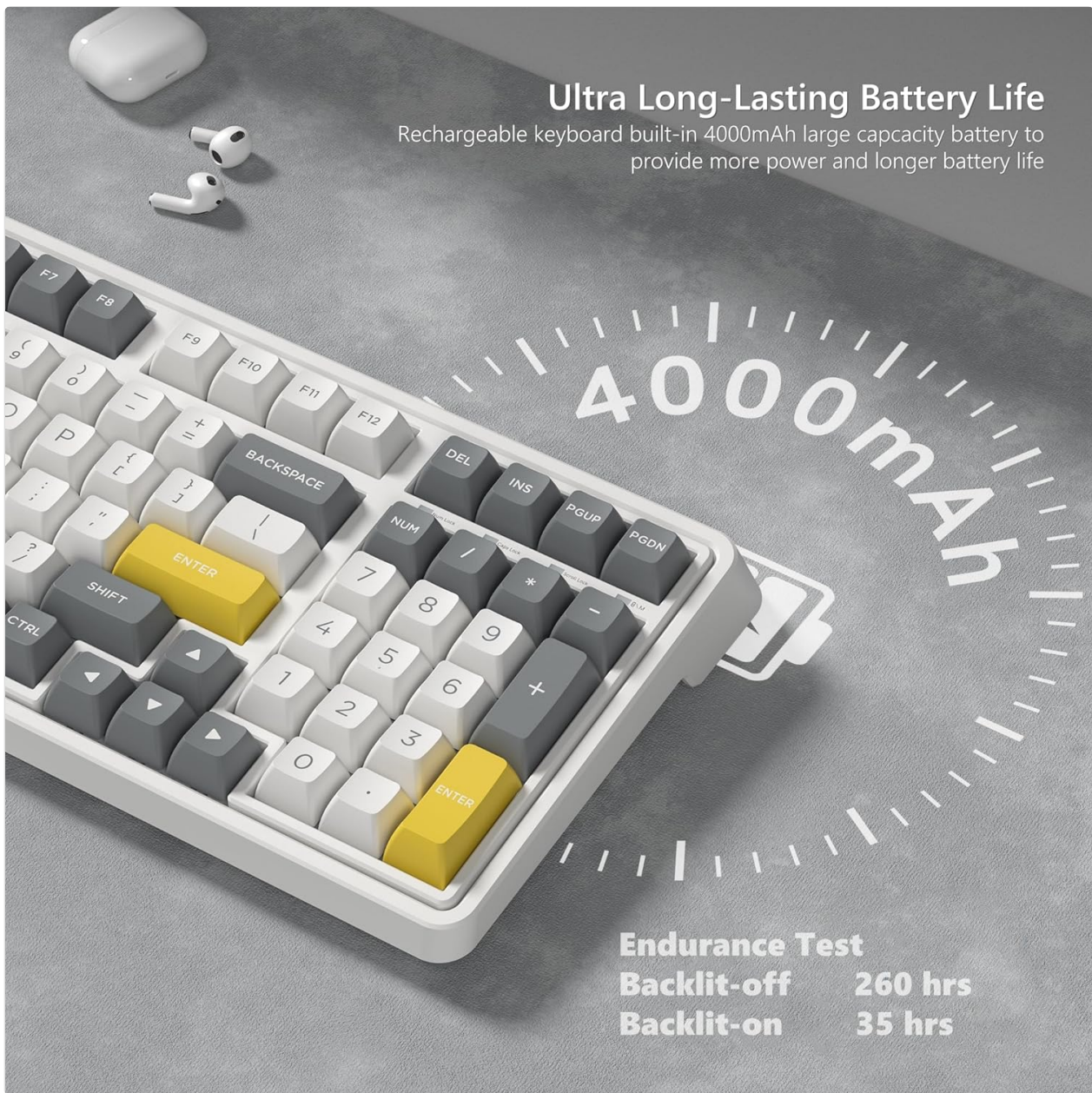
Figure 8: Ultra Long-Lasting Battery Life

- Charge the keyboard fully before first use.
- To check battery level in Bluetooth mode, press FN + Backspace.
- Avoid exposing the battery to extreme temperatures.
- If storing the keyboard for an extended period, charge it to approximately 50% to preserve battery health.

5. TROUBLESHOOTING

Problem	Possible Cause	Solution
Keyboard not responding (Wireless)	Low battery; Out of range; Incorrect connection mode; Receiver not plugged in.	Charge the keyboard; Move closer to the receiver/device; Ensure correct mode (2.4G/BT); Re-insert 2.4GHz receiver.
Bluetooth pairing failure	Keyboard not in pairing mode; Device Bluetooth off; Interference.	Ensure keyboard is in BT mode and discoverable; Turn on device Bluetooth; Try pairing in a different location.

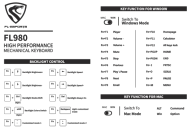| Problem	Possible Cause	Solution
Keys not registering or double-typing	Loose switch; Software issue; Debris under keycap.	Re-seat the switch; Restart computer/keyboard; Clean under keycap.
RGB lighting not working	Lighting turned off; Software settings.	Press FN + \ | to cycle lighting; Check software settings.
Keyboard not recognized in wired mode	Faulty USB-C cable; Incorrect connection mode; USB port issue.	Try a different USB-C cable; Ensure keyboard is in USB mode; Try a different USB port on your computer.

6. SPECIFICATIONS

Feature	Detail
Model	CMK98
Brand	FL ESPORTS
Layout	99-Key (96% Compact Full Size with Number Pad)
Connectivity	Tri-Mode (Bluetooth 5.0, 2.4GHz Wireless, USB-C Wired)
Switch Type	Linear (Pre-lubed)
Hot-Swappable	Yes (3-pin/5-pin switches)
Backlighting	RGB (1.68 million colors)
Keycaps	Double Shot PBT
Battery Capacity	4000mAh Lithium Polymer
Compatible Devices	PC (Windows, Mac)
Item Weight	4.22 pounds (approx. 1.91 kg)
Dimensions	17.13 x 8.27 x 2.32 inches

7. WARRANTY AND SUPPORT

For warranty information, technical support, or to download the latest software and drivers, please visit the official FL ESPORTS website or contact their customer service. Keep your purchase receipt for warranty claims.

FL ESPORTS Store: Visit the FL ESPORTS Store on Amazon

Related Documents - CMK98

[FL980 High Performance Mechanical Keyboard: Key Functions and Backlight Control](#)

Detailed guide to the key functions and backlight controls for the FL ESPORTS FL980 High Performance Mechanical Keyboard, including Windows and Mac modes.

[FL CMMI Keyboard MK870 User Guide](#)

Explore the features and functionalities of the FL CMMI Keyboard MK870 with this comprehensive user guide. Learn about WIN mode, key combinations, and software customization.

[FL ESPORTS GP108 Keyboard: FN Key Combinations & Mode Guide](#)

Comprehensive guide to the FL ESPORTS GP108 mechanical keyboard, detailing FN key combinations for Windows, Android, and iOS/MAC systems, 2.4G/wired/BT mode indicators, charging, and hibernation features.

[FL ESPORTS MK750 Mechanical Keyboard User Manual](#)

User manual for the FL ESPORTS MK750 Mechanical Keyboard, detailing features, functions, and specifications for both Windows/Android and iOS/MAC systems.

[K210_FLCMMK_MK870 User Manual - FCC Version](#)

User manual for the K210_FLCMMK_MK870 mechanical keyboard, detailing its features, functions, connectivity modes (2.4G, Wired, Bluetooth), and software customization. Includes FCC compliance information.

[CMK75 RGB Dual System Three Mode Mechanical Keyboard User Manual](#)

This document provides detailed information and instructions for the CMK75 RGB dual system three mode mechanical keyboard, including setup, function keys, and specifications.