

Fantech MAXFIT81 FROST WIRELESS (PBT)

Fantech MAXFIT81 Wireless Mechanical Keyboard User Manual

Model: MAXFIT81 FROST WIRELESS (PBT)

1. PRODUCT OVERVIEW

The Fantech MAXFIT81 is a 75% form factor wireless mechanical keyboard designed for gaming and productivity. It features PBT Dye-Sub keycaps, a customizable OLED display, a programmable rotary encoder knob, and hot-swappable switches. The keyboard supports multiple connectivity options including wired, Bluetooth 5.0, and Fantech's STRIKESPEED wireless technology, ensuring a versatile and responsive user experience. Its transparent retro case and sound-proofing design contribute to both aesthetics and typing comfort.



MAXFIT81 FROST WIRELESS

MODULAR MECHANICAL KEYBOARD



Interactive
OLED



3 Connection
Modes



South-Facing
RGB



Figure 1: Fantech MAXFIT81 Frost Wireless Keyboard highlighting its 75% form factor, interactive OLED, 3 connection modes, and south-facing RGB.

2. SETUP AND CONNECTIVITY

2.1 Wired Connection

To use the keyboard in wired mode, connect the provided USB-C cable from the keyboard's port to an available USB port on your computer. The keyboard will automatically be recognized and ready for use. This mode provides the most stable connection and charges the keyboard's internal battery.

2.2 Wireless Connection (Bluetooth & STRIKESPEED)

The MAXFIT81 supports both Bluetooth 5.0 and Fantech's 2.4GHz STRIKESPEED wireless technology, allowing connection to up to 5 devices. Use the switch on the keyboard to select your desired wireless mode.

- **Bluetooth Pairing:**

1. Switch the keyboard to Bluetooth mode.
2. On your device (PC, laptop, tablet), enable Bluetooth and search for new devices.
3. Select 'Fantech MAXFIT81' from the list of available devices to pair.

- **STRIKESPEED Wireless (2.4GHz):**

1. Insert the 2.4GHz USB receiver into an available USB port on your computer.
2. Switch the keyboard to 2.4GHz wireless mode.
3. The keyboard should automatically connect to the receiver.

**NO DELAY, NO LAG,
NO CONNECTION LOSS,
STRIKESPEED WIRELESS AND BT.**



Figure 2: The Fantech MAXFIT81 supports both STRIKESPEED wireless and wired connectivity for versatile use.

3. KEY FEATURES AND OPERATION

3.1 Customizable OLED Display

The 1-inch OLED display on the MAXFIT81 provides real-time information and customization options. Users can display custom GIFs, PNGs, and artwork. It also shows essential keyboard status, PC information, time, and battery status.



CUSTOMIZE YOUR KEEB!

Apply custom GIFs, PNGs, artwork and more! MAXFIT81 can also display PC information, keyboard status, time, battery status and more, all on the crystal clear 1 inch OLED screen.

Figure 3: The customizable OLED display allows for personalized visuals and real-time information.

3.2 Programmable Encoder Knob

Beyond standard volume control, the rotary encoder knob is fully programmable. It can be assigned various macros, including scrolling, changing songs, adjusting productivity settings, or even acting as a weapon wheel in games.



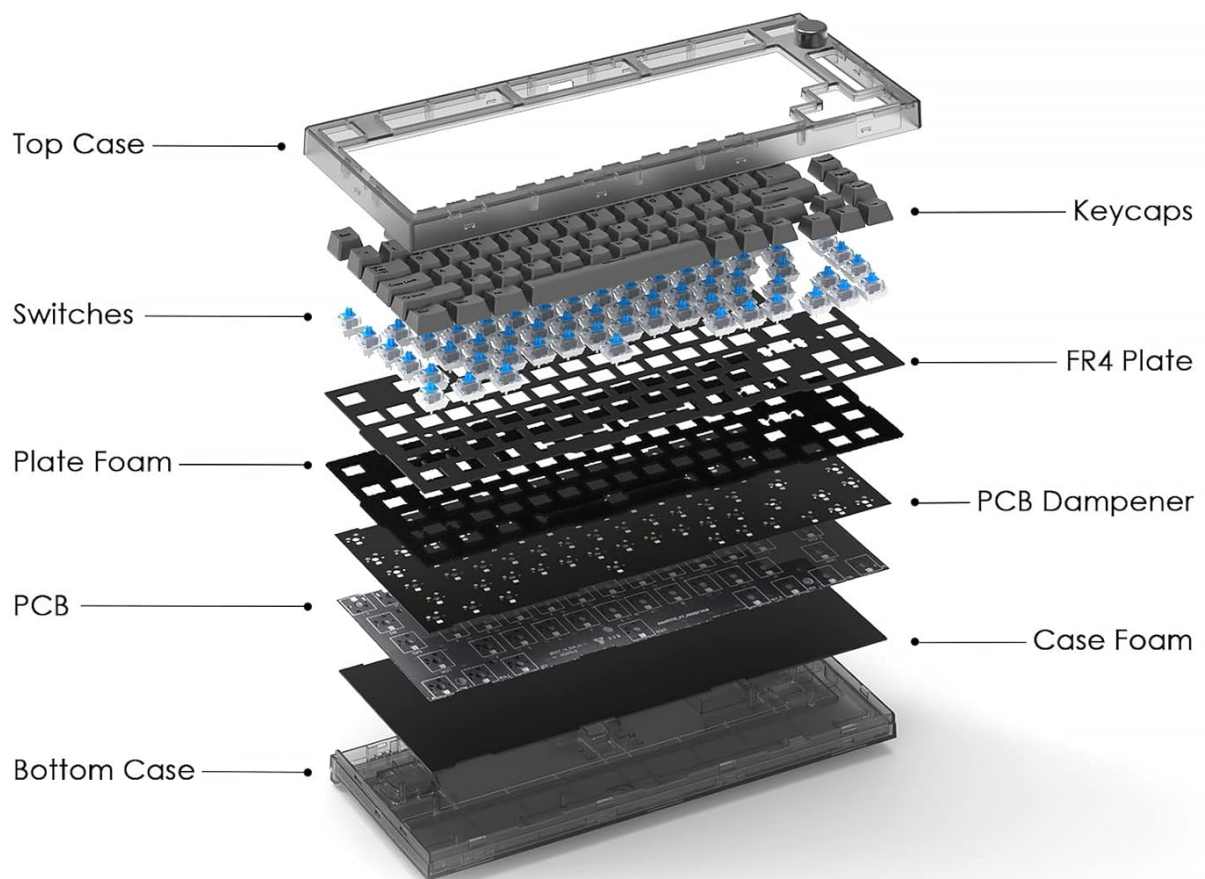
PROGRAMMABLE ENCODER KNOB

More than just a standard volume knob! MAXFIT81's Programmable Encoder allows you to assign any macro to it! Scrolling, changing songs, productivity settings, weapon wheel and more!

Figure 4: The programmable encoder knob offers versatile control beyond simple volume adjustments.

3.3 Hot-Swappable Switches

The MAXFIT81 features hot-swappable south-facing sockets, allowing users to easily change mechanical switches without soldering. This enables customization of typing feel and sound to personal preference.



DENSE-GASKET & FOAM DESIGN

For a stable and durable typing experience, we have adopted our signature Dense-Gasket design, which is capable of providing a long-lasting typing feeling without the need for replacement unlike traditional gasket keyboards. Apart from eliminating the traditional drawbacks, MAXFIT81's plate foam design, allows for a smooth and satisfying typing experience, while absorbing shock from keystrokes. This keyboard also contains foam in the bottom layer of the case to reduce hallow sounds, and to enhance overall usability.

Figure 5: Exploded view illustrating the layers of the keyboard, including keycaps, switches, plate, PCB, and foam for sound dampening.

3.4 Dense-Gasket & Foam Design

The keyboard incorporates a Dense-Gasket design and multiple layers of foam (plate foam, PCB dampener, case foam). This construction provides a stable and durable typing experience, reduces hollow sounds, and enhances overall usability by absorbing shock from keystrokes.

3.5 Personalization Software

For advanced customization, the MAXFIT81 FROST WIRELESS software allows for adjustable spectrum modes, button assignments, and easy-macro scripts. This software is available for download from the official Fantech website.

4. MAINTENANCE

4.1 Cleaning

Regular cleaning helps maintain the keyboard's performance and appearance.

- **Keycaps:** Use a soft brush or compressed air to remove dust and debris between keycaps. For deeper cleaning, keycaps can be carefully removed using a keycap puller and washed with mild soap and water. Ensure they are completely dry before reattaching.
- **Case:** Wipe the keyboard case with a soft, damp cloth. Avoid using harsh chemicals or abrasive materials.

4.2 Switch Replacement

Due to the hot-swappable design, switches can be replaced without soldering. Use a switch puller tool to gently remove the existing switch. Align the pins of the new switch with the sockets on the PCB and press down firmly until it clicks into place. Ensure pins are not bent during insertion.

5. TROUBLESHOOTING

If you encounter issues with your Fantech MAXFIT81 keyboard, refer to the following common solutions:

Problem	Possible Cause	Solution
Keyboard not responding (wired)	Loose cable connection, faulty USB port.	Ensure USB-C cable is securely connected. Try a different USB port on your computer.
Keyboard not responding (wireless)	Low battery, incorrect mode selected, pairing issue, receiver not connected.	Charge the keyboard. Ensure correct wireless mode (BT/2.4GHz) is selected. Re-pair Bluetooth or re-insert 2.4GHz receiver.
Specific keys not working	Loose or faulty switch, debris under keycap.	Remove keycap and check for debris. If hot-swappable, remove and re-insert the switch, or try a different switch.
OLED display not working	Software issue, power saving mode.	Check keyboard settings via the Fantech software. Ensure keyboard is powered on.
RGB lighting not functioning	RGB mode off, software settings.	Check keyboard's RGB controls (usually Fn + keys) or adjust settings in the Fantech software.

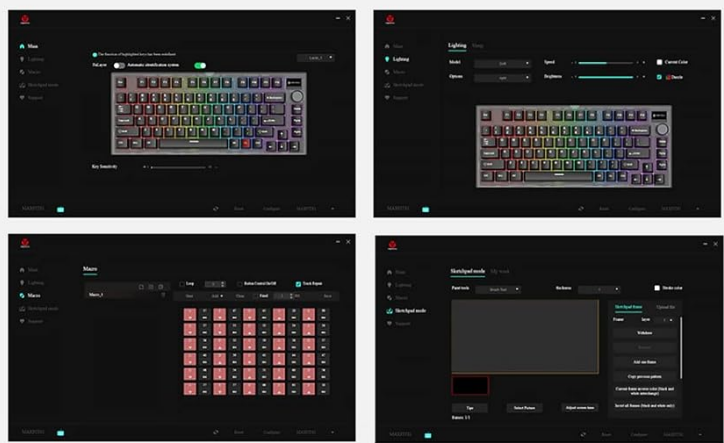
6. TECHNICAL SPECIFICATIONS

Feature	Specification
Product Name	MAXFIT81 MK910
Number of Keys	80 keys + 1 Encoder
Switch Type	Mechanical (Hot-Swappable)

Feature	Specification
Anti-Ghosting	All Keys
Connection	Wired (USB-C), StrikeSpeed Wireless (2.4GHz), Bluetooth (BT5.0)
Connectable Devices	Up to 5 Devices
Battery Capacity	4000mAh
Wireless Distance	Up to 10m
Dimensions (L x W x H)	303.2 x 104.3 x 45 mm
Weight	1018g
Battery Life (RGB OFF)	Up to 70 hours
Battery Life (RGB ON)	Up to 15 hours
Operating System Compatibility	Windows (7 or Newer), PC
Special Features	Customizable OLED Display, Rotary Encoder Knob, Retro Frosted Transparent Case, Hot-Swappable
Screen Display Size	1 Inch
Power Source	Battery Powered
Material	Plastic

TECHNICAL SPECIFICATION

Product Name: MAXFIT81 MK910	Battery Capacity: 4000mAh
Number of Keys: 80keys + 1 Encoder	Wireless Distance: Up to 10m
Switch Type: Mechanical	Size: 303.2(L)x104.3(W)x45(H)mm
Anti-Ghosting: All Keys	Weight: 1018gr
Connection: Wired, StrikeSpeed Wireless & BT (Connect Up to 5 Devices)	Battery Life: Up to 70hr with RGB OFF Up to 15hr with RGB ON


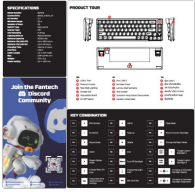

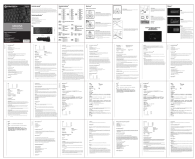




PERSONALIZATION+
Adjustable spectrum modes, button assignments and easy-macro scripts through MAXFIT81 FROST WIRELESS software. Available on www.fantechworld.com

Figure 6: Detailed technical specifications and a preview of the personalization software interface.

7. WARRANTY AND SUPPORT

Fantech products are manufactured to high-quality standards. For information regarding warranty coverage, terms, and conditions, please refer to the warranty card included with your product or visit the official Fantech website. For technical support, driver downloads, and frequently asked questions, please visit www.fantechworld.com.

	<p>Fantech MAXFIT81 MK910 Mechanical Keyboard User Manual</p> <p>User manual for the Fantech MAXFIT81 MK910 Mechanical Keyboard, detailing its features, specifications, and how to use it.</p>
	<p>Fantech MK919 ATOM PR066 Wireless Mechanical Keyboard Quick Start Guide</p> <p>This guide provides essential information for setting up and using the Fantech MK919 ATOM PR066 Wireless Mechanical Keyboard. It covers specifications, product features, key combinations, connection methods (Wired, 2.4GHz, Bluetooth), and rotary encoder functions.</p>
	<p>Fantech MAXFIT67 MK858 Mechanical Keyboard User Manual</p> <p>Comprehensive guide for the Fantech MAXFIT67 MK858 Mechanical Keyboard, covering setup, features, software customization, and troubleshooting. Supports wired, 2.4GHz, and Bluetooth 5.0 connectivity.</p>
	<p>FANTECH MAXFIT67 MK858 Mechanical Keyboard User Manual</p> <p>A comprehensive guide to the FANTECH MAXFIT67 MK858 Mechanical Keyboard, detailing its features, setup, connectivity options (Wired, 2.4GHz, Bluetooth), switch and keycap customization, secondary functions, lighting controls, and software customization for macros and lighting effects. Includes FCC compliance information.</p>
	<p>Fantech MAXFIT61 MK857 Mechanical Keyboard User Manual</p> <p>User manual for the Fantech MAXFIT61 MK857 mechanical keyboard, detailing its features, specifications, and operation.</p>
	<p>Fantech MK611 Wired Mechanical Keyboard - Specifications and Quick Start Guide</p> <p>Comprehensive guide to the Fantech MK611 Wired Mechanical Keyboard, including detailed specifications, product tour, key functions, multimedia controls, LED effects, and setup instructions.</p>