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MIKIBY AK650

MIKIBY AK650 Wireless Mechanical Keyboard User Manual

Comprehensive instructions for setup, operation, and maintenance.

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1. OVERVIEW

The MIKIBY AK650 is a versatile 65% layout mechanical keyboard designed for enhanced productivity and gaming. It features tri-mode connectivity, a smart TFT display, a multi-function knob, hot-swappable switches, and customizable RGB backlighting. This manual provides detailed instructions to help you get the most out of your keyboard.



Figure 1: Top view of the MIKIBY AK650 Wireless Mechanical Keyboard.

AK650

Mechanical Keyboard

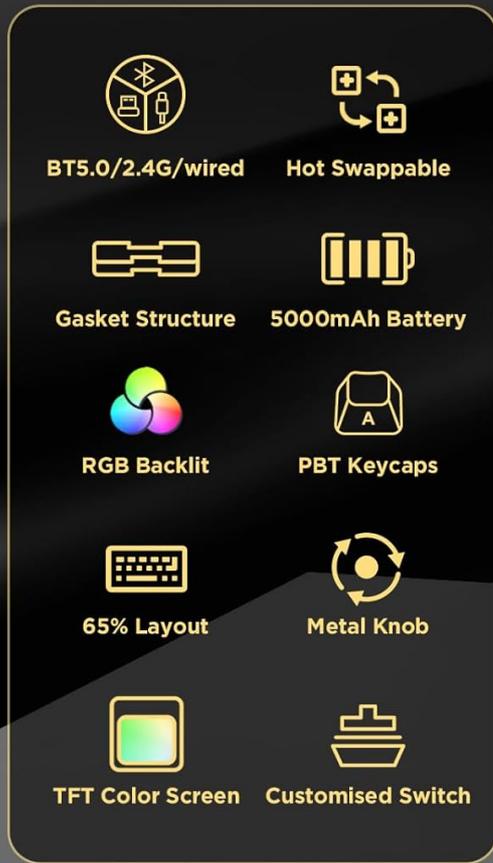


Figure 2: Key features of the AK650 keyboard including BT5.0/2.4G/wired connectivity, hot-swappable switches, gasket structure, 5000mAh battery, RGB backlight, PBT keycaps, 65% layout, metal knob, TFT color screen, and customized switches.

2. PACKAGE CONTENTS

Ensure all items are present in the box:

- 1 x MIKIBY AK650 Keyboard
- 1 x USB Type-C Cable
- 1 x Keycap Puller
- 1 x User Manual



Figure 3: The AK650 keyboard, Type-C cable, keycap puller, and user manual are included in the package.

3. CONNECTIVITY

The AK650 keyboard supports three connection modes: wired USB-C, 2.4GHz wireless, and Bluetooth 5.0. This allows for seamless switching between up to 5 devices, making it ideal for multi-device environments.

3.1. Wired Connection (USB-C)

- Connect the provided USB Type-C cable to the keyboard's Type-C port and the other end to your computer's USB port.
- The keyboard will automatically switch to wired mode.

3.2. 2.4GHz Wireless Connection

- Locate the 2.4G USB dongle stored in the keyboard's chassis.
- Plug the USB dongle into an available USB port on your computer.
- Switch the mode selector on the keyboard to 2.4G.
- The keyboard will automatically connect.

3.3. Bluetooth 5.0 Connection

- Switch the mode selector on the keyboard to BT (Bluetooth).
- On your device (PC, laptop, tablet, smartphone), go to Bluetooth settings and search for available devices.
- Select 'AK650' from the list to pair. The keyboard can store up to 3 Bluetooth connections (FN+Q, FN+W, FN+E).

Tri-mode Connectivity

Supports a wide range of devices and systems Quickly switches between connected devices



5000mAh



Bluetooth 5.0

FN + Q / W / E



2.4GHz Wireless

FN + R



Type-C Wired

Plug and Play

Figure 4: The AK650 supports Bluetooth 5.0, 2.4GHz wireless, and Type-C wired connections, compatible with various devices.

Video 1: Demonstrates the AK650 Mechanical Gaming Keyboard's features and design.

4. SMART TFT DISPLAY & KNOB CONTROL

The keyboard features an intelligent LCD screen that displays essential information such as date, time, battery level, system (WIN/MAC layout), connection mode, and backlight effects. The multi-function knob allows for quick adjustments.

4.1. Display Information

- **Date & Time:** Current date and time.
- **Battery Level:** Indicates remaining battery charge.
- **System Layout:** Shows whether the keyboard is set to WIN or MAC layout.
- **Connection Mode:** Displays current connectivity (Wired, 2.4G, BT).

- **Backlight Effects:** Visual representation of current RGB mode.
- **Custom GIF Image:** Supports custom GIF uploads for personalization.

4.2. Knob Functions

The knob provides tactile control over various settings:

- **Volume Control:** Rotate to adjust system volume (default).
- **Menu Navigation:** Press the knob to enter the display menu. Rotate to select sections (e.g., RGB modes, brightness, speed, language, GIF image). Press again to confirm selection.



Figure 5: The TFT smart display shows various keyboard statuses, and the knob allows for easy adjustment of volume, RGB settings, and other functions.

5. RGB BACKLIGHTING

The AK650 features vibrant RGB backlighting with 20 pre-programmed lighting effects. These can be adjusted directly on the keyboard or customized further using the dedicated driver software.

5.1. Adjusting RGB Effects

- **Change Effects:** Press **FN** + **|** (backslash) to cycle through different lighting effects.
- **Adjust Brightness:** Press **FN** + **↑** (Up Arrow) to increase brightness, and **FN** + **↓** (Down Arrow) to decrease brightness.
- **Adjust Speed:** Press **FN** + **←** (Left Arrow) to decrease speed, and **FN** + **→** (Right Arrow) to increase speed.
- **Toggle RGB On/Off:** Press **FN** + **X** to turn the RGB backlighting on or off.



Figure 6: Key combination instructions for various functions, including RGB control.

6. HOT-SWAPPABLE SWITCHES

The AK650 features hot-swappable sockets, allowing you to easily change mechanical switches (3-pin or 5-pin) without soldering. This enables customization of typing feel and sound.

6.1. Replacing Switches

1. Use the provided keycap puller to remove the desired keycap.
2. Use a switch puller to gently clamp the buckles on the upper and lower sides of the switch body, then pull the switch straight up and out.
3. Align the pins of the new switch with the holes on the PCB.
4. Gently press the new switch vertically until it clicks into place. Ensure it is seated correctly to avoid bent pins.

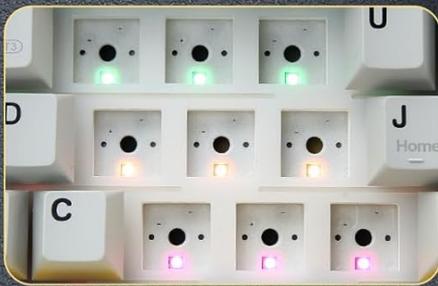
Hot Swappable PCB

Support 3PIN/5PIN mechanical switches



Flying Fish Switch

Full Travel: $3.5\text{mm}\pm 0.5\text{mm}$
Actuation Point: $2.0\text{mm}\pm 0.5\text{mm}$
Actuation Force: $40\text{gf}\pm 10\text{gf}$
Bottom-out Force: $48\text{gf}\pm 10\text{gf}$



South-Facing LED



Figure 7: The hot-swappable PCB supports 3-pin and 5-pin mechanical switches, allowing for easy customization.

7. GASKET MOUNT STRUCTURE

The AK650 utilizes a 5-layer noise cancellation gasket mount structure. This design reduces cavity sound and resonance, providing a more solid and stable typing feel. The cushioning effect of the noise cancellation cotton also helps reduce finger fatigue during extended use.

- **PBT Keycaps:** Durable keycaps for a premium feel.
- **Upper Cover:** Top housing of the keyboard.
- **Flying Fish Switch:** Pre-lubed linear switches for smooth operation.
- **PC Positioning Plate:** Provides structural support for switches.
- **Gasket:** Absorbs impact and reduces vibration.
- **Sandwich Cotton:** Further dampens sound.
- **Sound-Dampening Pad:** Minimizes acoustic noise.

- **Switch Pad:** Enhances typing feel.
- **PCB:** Printed Circuit Board.
- **Bottom Cotton:** Additional sound absorption.
- **Silicone Pad:** Provides cushioning and stability.
- **Battery:** 5000mAh for extended wireless use.
- **TFT Color Screen:** Smart display.
- **Metal Volume Knob:** Durable control knob.
- **Bottom Keyboard Case:** Base housing.

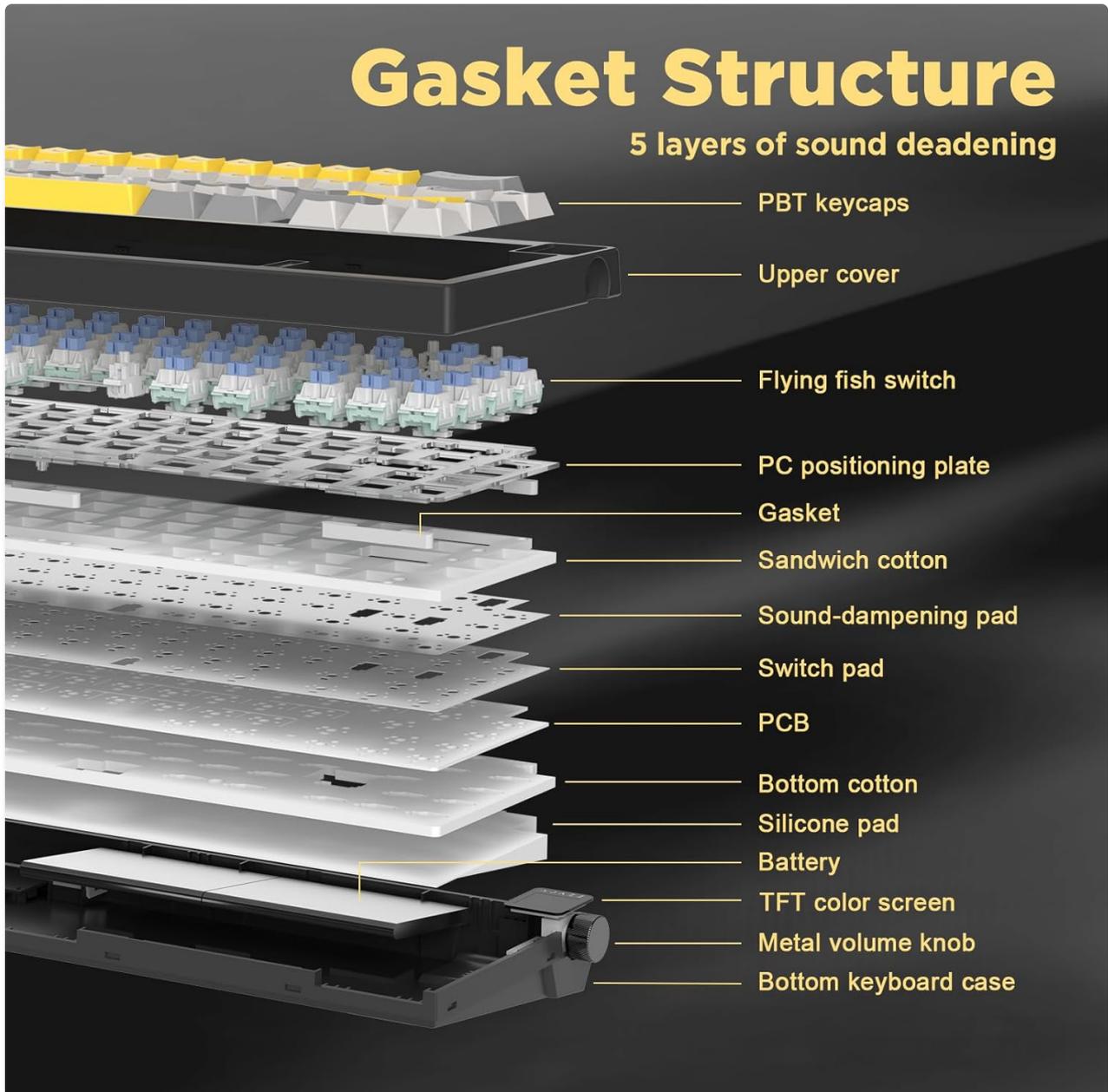


Figure 8: Exploded view of the AK650's 5-layer gasket structure for enhanced typing feel and sound dampening.

8. KEY COMBINATION FUNCTIONS

The AK650 keyboard offers various key combinations for quick access to functions in both Windows and Mac operating systems.

Key Combination	WIN System	MAC System	Key Combination	WIN System	MAC System
FN+!	F1	Screen Brightness -	FN+7&	F7	Previous Track
FN+2@	F2	Screen Brightness +	FN+8*	F8	Play/Pause
FN+3#	F3	Mission Control	FN+9(F9	Next Track
FN+4\$	F4	Console	FN+0)	F10	Mute
FN+5%	F5	/	FN+_-	F11	Volume -
FN+6^	F6	/	FN+=+	F12	Volume +
FN+Esc	~	/	FN+O	Scroll Lock	/
FN+I	PrtSc	/	FN+J	Home	/
FN+P	Pause	/	FN+K	End	/
FN+Left CTRL	Toggles numeric key area ("1!" to "=+") between F1-F12 and default numeric input (factory default: numeric input)				

Figure 9: Detailed key combination functions for Windows and Mac systems.

9. PROGRAMMABLE SOFTWARE

The MIKIBY AK650 offers programmable software for advanced customization of RGB lighting, key assignments, and macro functions. This software is compatible with Windows operating systems.

9.1. Software Features

- **Custom RGB Lighting:** Create and save personalized RGB lighting modes, including game linkage and music rhythms.
- **Macro Programming:** Assign complex operations to a single key, enhancing efficiency in gaming or office tasks.
- **Key Reassignment:** Customize key functions to suit your workflow.
- **TFT Screen Customization:** Upload custom GIF images or adjust display settings.

Refer to the official MIKIBY website for the latest driver software download and installation instructions.

Programmable Software

(This custom software can only be used in WINDOWS system)



Figure 10: The programmable software allows for extensive customization of lighting, macros, and the TFT screen (Windows only).

10. SPECIFICATIONS

Feature	Detail
Brand	MIKIBY
Model Number	AK650
Layout	65% (66 keys)
Connectivity Technology	Bluetooth 5.0, 2.4GHz Wireless, USB-C Wired
Switch Type	Mechanical (Hot-Swappable 3/5-pin)

Feature	Detail
Keycaps	PBT Keycaps
Backlighting	RGB (20 effects)
Display	TFT Smart Display
Battery	5000mAh (1 Nonstandard Battery included)
Material	Plastic
Item Weight	2.12 pounds
Package Dimensions	14.65 x 6.1 x 2.32 inches
Compatible Devices	Gaming Console, Laptop, PC, Smartphone, Tablet

11. TROUBLESHOOTING

11.1. Keyboard Not Responding in Wireless Mode

If the keyboard is not responding when connected wirelessly (2.4GHz or Bluetooth), try the following:

- **Check Battery:** Ensure the keyboard has sufficient battery charge. Connect via USB-C to charge if needed.
- **Re-pair Device:** For Bluetooth, unpair and re-pair the keyboard with your device. For 2.4GHz, unplug and re-plug the USB dongle.
- **Driver Software:** Ensure the latest driver software is installed on your computer (if applicable for advanced features). Some users have reported issues with software functionality when not connected via cable.
- **Switch Mode:** Verify the physical switch on the keyboard is set to the correct wireless mode (2.4G or BT).

11.2. RGB Lights Not Working/Customizing

- **Check Brightness:** Increase brightness using **FN** + **↑**.
- **Toggle RGB:** Ensure RGB is not turned off by pressing **FN** + **X**.
- **Software:** For advanced customization, ensure the programmable software is running and correctly configured.

12. WARRANTY AND SUPPORT

For any product inquiries, technical support, or warranty claims, please contact MIKIBY customer service through the following steps:

1. Visit the MIKIBY product page on Amazon.

2. Select the seller's name (e.g., "Mikiby Direct").
3. Click "Ask a question" to send a message directly to customer support.

If you have already placed an order, you can also go to your orders, select "Problem with order," and send a message.

Key Combination Function Instructions

Key Combination	WIN System	MAC System	Key Combination	WIN System	MAC System
FN+1!	F1	Screen brightness -	FN+7&	F7	Previous track
FN+2@	F2	Screen brightness +	FN+8*	F8	Play/Pause
FN+3#	F3	Mission control	FN+9 (F9	Next track
FN+4\$	F4	console	FN+0)	F10	Mute
FN+5%	F5	/	FN+ -_	F11	Volume -
FN+6^	F6	/ V B N	FN+ +=	F12	Volume +
FN+Esc	~	/	FN+O	Scroll Lock	
FN+I	PrtSc	/	FN+J	Home	
FN+P	Pause	/	FN+K	End	
FN+Left CTRL	Toggles numeric key area ("1!" to "=+") between F1-F12 and default numeric input (factory default: numeric input)				

Figure 11: Instructions for contacting MIKIBY customer support.