AJAZZ AK650

AJAZZ AK650 65% Layout Hot Swappable Gaming Mechanical Keyboard User Manual

Model: AK650

1. INTRODUCTION

This manual provides detailed instructions for the setup, operation, and maintenance of your AJAZZ AK650 65% Layout Hot Swappable Gaming Mechanical Keyboard. Designed for versatility and performance, the AK650 features a compact layout, multi-mode connectivity, and a customizable TFT color display.

2. KEY FEATURES

- **65% Gasket Mount Design:** The keyboard incorporates a gasket structure with five layers of sound-absorbing material, including Poron cotton, to reduce noise and optimize switch sound for an enhanced typing experience.

- **Hot Swappable & Pre-lubed Cream Switches:** Equipped with pre-lubed cream switches for a smooth and tactile keystroke feel. The high-quality PCB is compatible with both 3-pin and 5-pin switches, allowing for extensive customization.

- **Smart TFT Color Display and Knob:** Features a 0.85-inch TFT color display and a multi-function metal knob. The display provides real-time keyboard status, including connection mode, time, battery level, and lighting effects. The knob allows quick adjustments for connection, system, backlight brightness/speed, RGB mode/color, volume, and language.

- **Tri-mode Connection:** Offers versatile connectivity options including wired (Type-C), Bluetooth 5.1, and 2.4Ghz wireless modes. Compatible with Windows and Mac systems.

- **Long-lasting Battery:** Built-in 5000mAh ultra-large battery capacity for extended wireless use.

- **PBT Double-Shot Keycaps:** Durable PBT keycaps offer resistance to wear, fading, and shine, contributing to the keyboard's unique sound and feel.

Figure 1: Overview of the AJAZZ AK650 keyboard highlighting its compact 65% layout and key features.

3. SETUP

3.1. Connecting the Keyboard

The AJAZZ AK650 supports three connection modes: wired, 2.4G wireless, and Bluetooth. Select the mode that best suits your device and preference.

Wired Connection (USB-C)

1. Locate the USB-C port on the back of the keyboard.
2. Connect the provided USB-C to USB-A cable to the keyboard and your computer.
3. Ensure the mode switch on the back of the keyboard is set to the USB position (middle).
4. The keyboard is now ready for use.

2.4G Wireless Connection

1. Remove the 2.4G wireless receiver (dongle) from its storage slot on the back of the keyboard.
2. Plug the receiver into an available USB port on your computer.
3. Set the mode switch on the back of the keyboard to the 2.4G position (left).
4. The keyboard should automatically connect. If not, press **FN + Q** to initiate pairing. The Q key will flash white and then return to backlight mode upon successful connection.

Bluetooth Connection

1. Set the mode switch on the back of the keyboard to the BT position (right).
2. Press and hold **FN + W**, **FN + E**, or **FN + R** for 3-5 seconds to enter pairing mode for BT1, BT2, or BT3 respectively. The corresponding key (W, E, or R) will flash white.
3. On your device (computer, tablet, etc.), search for Bluetooth devices and select "AK650 BT1/BT2/BT3".
4. Once connected, the key will stop flashing and return to backlight mode. You can pair up to three Bluetooth devices and switch between them using **FN + W/E/R**.

Figure 2: Illustration of the three connection modes: Wired (USB-C), 2.4G Wireless, and Bluetooth.

3.2. System Compatibility

The keyboard is compatible with both Windows and Mac systems. Use the dedicated switch on the back of the keyboard to select the appropriate operating system mode (Win or Mac) for optimal functionality.

4. OPERATING INSTRUCTIONS

4.1. RGB Lighting Control

The AK650 features full RGB backlighting with various effects. All lighting controls are accessed via the **FN** key in combination with other keys or through the TFT display knob.

- **Change Lighting Effect:** Press **FN + ** (backslash) to cycle through different RGB lighting effects.
- **Adjust Brightness:** Press **FN + ↑** to increase brightness and **FN + ↓** to decrease brightness.
- **Adjust Speed:** Press **FN + ←** to slow down the effect speed and **FN + →** to speed up the effect.
- **Toggle RGB On/Off:** Press **FN + X** to turn RGB lighting on or off.

4.2. TFT Display and Knob Functions

The 0.85-inch TFT color display provides real-time information and allows for quick adjustments using the adjacent metal knob.

- **Display Information:** The screen shows time, connection mode (wired, 2.4G, BT), battery level, and active key indicators (e.g., Caps Lock).
- **Knob Rotation:** Rotate the knob to adjust volume (default) or navigate through settings menus.
- **Knob Press:** Press the knob to mute/unmute volume (default) or to select options within the settings menu.
- **Access Settings:** Press **FN + Knob Press** to enter the display settings menu. From here, you can rotate the knob to navigate options like RGB effects, brightness, speed, volume, and language. Press the knob again to select an option.
- **Custom GIF/Image:** The display supports custom GIF images, which can be uploaded via the keyboard's driver software.

Figure 3: Close-up of the 0.85-inch TFT color display and multi-function knob, showing various display options.

4.3. Function Key Combinations

The keyboard utilizes FN key combinations for various functions:

Key Combination	Windows Function	Mac Function
FN + F1	Media Player	Media Player
FN + F2	Volume -	Volume -
FN + F3	Volume +	Volume +
FN + F4	Mute	Mute
FN + F5	Stop / Playing	Stop / Playing
FN + F6	Previous Song	Previous Song
FN + F7	Play / Pause	Play / Pause
FN + F8	Next Track	Next Track
FN + F9	E-mail	E-mail
FN + F10	Browser	Browser
FN + F11	My Computer	My Computer
FN + F12	Calculator	Calculator
FN + S	Switch Win system mode (factory default)	Switch Mac system mode
FN + DEL	SCRLK	SCRLK
FN + PGDN	PAUSE	PAUSE

5. Maintenance

5.1. Hot-Swapping Switches

The AK650 features hot-swappable sockets, allowing you to easily change switches without soldering. This enables customization of your typing feel and sound.

1. Use the provided keycap puller to gently remove the keycap from the switch.
2. Use the provided switch puller to carefully grip the switch on its upper and lower sides. Gently pull the switch straight up and out of the PCB.
3. Align the pins of the new switch with the holes on the PCB. Ensure the pins are straight to avoid bending.
4. Gently push the new switch vertically into the socket until it clicks into place. Ensure it is seated firmly and evenly.
5. Replace the keycap.

Figure 4: Diagram illustrating the steps for hot-swapping mechanical switches.

5.2. Cleaning

To maintain optimal performance and appearance, regularly clean your keyboard:

- Use a soft brush or compressed air to remove dust and debris from between the keycaps.
- For stubborn dirt, gently wipe keycaps with a damp cloth (water only) or a mild keyboard cleaning solution. Avoid excessive moisture.
- The keyboard comes with a clear molded dust cover. Use it when the keyboard is not in use to keep it clean and dust-free.

6. TROUBLESHOOTING

6.1. Connectivity Issues

- **Keyboard not responding:** Ensure the correct connection mode (wired, 2.4G, or BT) is selected via the switch on the back. For wireless modes, check battery level.
- **2.4G Wireless Lag:** Ensure the 2.4G dongle is securely plugged into a USB port on your computer. Try a different USB port if issues persist.
- **Bluetooth Pairing Failure:** Ensure the keyboard is in pairing mode (FN + W/E/R held for 3-5 seconds) and your device's Bluetooth is enabled and searching. Try restarting both the keyboard and your device.

6.2. RGB Lighting Problems

- **Lights not working:** Ensure RGB is not turned off (FN + X). Check brightness levels (FN + ↑).
- **Incorrect colors/effects:** Cycle through effects (FN + \) or adjust via the TFT display settings.

6.3. TFT Display Customization Issues

Some users have reported difficulties with the driver software for full display customization (e.g., uploading custom GIFs). If you encounter issues:

- Ensure the keyboard is connected via wired USB when attempting software-based customization.
- Verify you have the correct and latest version of the driver software from the official AJAZZ website.
- If the display starts in an unfamiliar language (e.g., Chinese), press**FN + V** to switch to English.

7. SPECIFICATIONS

Feature	Detail
Model Name	AK650
Layout	65%
Connectivity	Bluetooth, USB-C, 2.4Ghz Wi-Fi
Switches	Hot-Swappable, Pre-lubed Cream Switches (compatible with 3-pin/5-pin)
Keycaps	PBT Double-Shot
Display	0.85-inch TFT Color Display
Battery Capacity	5000mAh
Product Dimensions	13 x 4 x 1.9 inches (13"L x 4"W x 1.9"H)
Item Weight	1.76 pounds
Manufacturer	AJAZZ
Compatible Devices	Gaming Console, Laptop, PC, Tablet
Special Features	Backlit (RGB), Ergonomic, Hot-Swappable

8. WARRANTY AND SUPPORT

For warranty information, technical support, or further inquiries, please refer to the documentation included with your product or visit the official AJAZZ website. Keep your proof of purchase for any warranty claims.

Related Documents - AK650

	[Ajazz AK650 Keyboard User Manual and Features](#) Comprehensive guide to the Ajazz AK650 keyboard, detailing its features, connectivity modes, lighting effects, and operational instructions. Includes FCC compliance information.
	[AJAZZ AK650 Triple Mode Mechanical Keyboard User Manual](#) This manual provides instructions for the AJAZZ AK650 mechanical keyboard, covering its triple mode connectivity (Bluetooth and wired), indicator lights, system switching, lighting effects, key combinations, hot-swappable features, and screen display settings.
	[AJAZZ AK992 Wired Mechanical Keyboard User Manual and Specifications](#) Comprehensive user manual for the AJAZZ AK992 wired mechanical keyboard, detailing specifications, features, indicator lights, knob functions, lighting modes, hot-swappable operation, and warranty information. Visit http://www.a-jazz.com/ for driver downloads.
	[AJAZZ AK351 V3 Single Mode Mechanical Keyboard User Manual](#) Comprehensive user manual for the AJAZZ AK351 V3 Single Mode Mechanical Keyboard, detailing basic parameters, indicator lights, lighting effects, multimedia functions, and hot-swappable switch replacement instructions. Learn about its 104-key layout, Gasket structure, and Windows/Mac compatibility.
	[AJAZZ AK980 Mechanical Keyboard User Manual with TFT Screen](#) Comprehensive user manual for the AJAZZ AK980 mechanical keyboard, covering features like 2.4GHz wireless, Bluetooth 5.0, USB-C, hot-swappable switches, 1.14-inch TFT screen, RGB lighting, and software customization for Windows/macOS.
	[AJAZZ AK980 Triple Mode Mechanical Keyboard User Manual and Specifications](#) Comprehensive guide to the AJAZZ AK980 triple-mode mechanical keyboard, covering features, connectivity, lighting effects, hot-swapping, screen functions, and warranty information.