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- › [DAIDAI](#) /
- › [AJAZZ AK980 Mechanical Keyboard User Manual](#)

DAIDAI AK980

AJAZZ AK980 Mechanical Keyboard User Manual

Model: AK980

Brand: DAIDAI

INTRODUCTION

The AJAZZ AK980 is a versatile mechanical gaming keyboard designed for an enhanced typing and gaming experience. It features a 98-key layout, a smart TFT display, multi-mode connectivity, and a unique noise-reducing gasket structure. This manual provides detailed instructions for setup, operation, maintenance, and troubleshooting to help you get the most out of your keyboard.



Image: Top-down view of the AJAZZ AK980 mechanical keyboard in black, gray, and yellow, showcasing its full layout and integrated display.

KEY FEATURES

- **Smart TFT Display and Buttons:** Features a 1.14-inch color display and metal buttons for quick customization of settings like connectivity, backlight, RGB modes, and volume. The display shows connection mode, time, lighting effects, and battery level.

- **Unique Noise Reducing Installation Design:** Incorporates five sound-absorbing layers (FR4 localization plate, IXPE switch pads, PET pads, sponge pads, silicone pads) to minimize hollow typing noise and enhance typing feel.
- **Tri-mode Connectivity:** Supports wired (USB-C), Bluetooth 5.1, and 2.4Ghz wireless modes, compatible with Windows and Mac systems.
- **Programmable RGB Hot-Swap Keyboard:** Allows for easy replacement of 3-pin/5-pin switches without soldering. Customizable RGB lighting effects.
- **8000mAh Ultra-Large Capacity Battery:** Provides extended wireless usage.
- **Durable Keycaps and Switches:** Oil-resistant OEM-style PBT keycaps and pre-lubricated linear switches for smooth and quiet operation.
- **Ergonomic Design:** Two-stage adjustable bracket for comfortable typing angles.



 96% Layout	 1.14" Color Screen	 Tri-Mode Connection	 8000mAh Battery
 South-Facing RGB	 Gasket Structure	 Hot Swappable	 FR4 Position Plate

98
KEYS

Image: Overview of the AJAZZ AK980 keyboard highlighting its 96% layout, 1.14" color screen, tri-mode connection, 8000mAh battery, south-facing RGB, gasket structure, hot-swappable switches, and FR4 position plate.

SETUP AND CONNECTIVITY

The AK980 keyboard offers three connection modes: wired USB-C, 2.4GHz wireless, and Bluetooth 5.1. You can easily switch between modes using the toggle switch located on the keyboard.

1. Wired Connection (USB-C)

- Connect the provided USB-C cable to the keyboard's USB-C port and the other end to your computer's USB port.
- Ensure the mode switch on the keyboard is set to the "USB-C" position.
- The keyboard will be automatically recognized by your system.

2. 2.4GHz Wireless Connection

- Locate the 2.4GHz USB receiver, typically stored in a compartment on the keyboard.
- Plug the USB receiver into an available USB port on your computer.
- Set the mode switch on the keyboard to the "2.4G" position.
- The keyboard should connect automatically.

3. Bluetooth 5.1 Connection

- Set the mode switch on the keyboard to the "BT" position.
- On your device (computer, tablet, etc.), enable Bluetooth and search for new devices.
- Select "AJAZZ AK980" from the list of available devices to pair.
- Follow any on-screen prompts to complete the pairing process.

Three Connection Modes Plug and Play, No Driver Required



Image: Diagram illustrating the three connection modes: Bluetooth, 2.4GHz wireless with USB dongle, and Type-C wired connection, showing how to connect the keyboard to various devices.



Image: Visual representation of the keyboard connected via Bluetooth, USB-C, and 2.4GHz wireless to different devices like a tablet, monitor, and smartphone, emphasizing its multi-device compatibility.

OPERATING INSTRUCTIONS

Smart TFT Display and Control Knob

The 1.14-inch TFT color display provides real-time information and allows for quick adjustments using the integrated metal control knob.

- **Default Function (Volume Control):** Rotate the knob to adjust the system volume. Press the knob to mute/unmute.
- **Entering the Menu:** Press the **Fn** key simultaneously with the control knob to enter the display menu.
- **Navigating the Menu:** Rotate the knob to scroll through menu options (e.g., Connectivity, System, Backlight Brightness/Speed, RGB Modes/Colors, Volume, Voice).
- **Confirming Selection:** Press the knob to confirm your selection.
- **Display Information:** The screen can show custom GIF images (via driver), connection mode, current time, lighting effects, and battery level.



Image: Detailed view of the metal volume knob and its functions, including volume adjustment and how to enter and navigate the display menu using the Fn key and knob.

1.14-Inch TFT Color Screen

GIF Image Display (Support for Custom GIF or Images by Driver)



Image: Examples of the 1.14-inch TFT color screen display, showing home screen with time, GIF image display, connection & system status, RGB hotkey function, language selection, and LED effect function.

RGB Lighting Customization

The AK980 features customizable RGB backlighting. Use the control knob menu or dedicated hotkeys (refer to the keyboard's function layer diagram if available) to change lighting modes, colors, brightness, and speed.

- Access RGB settings via the TFT display menu.
- Cycle through various pre-set lighting effects.
- Adjust brightness levels to suit your preference.

Hot-Swap Functionality

The hot-swappable PCB allows you to change switches without soldering, offering flexibility for customization.

- To remove a switch, use the provided switch puller tool. Gently grip the switch and pull upwards.
- To install a new switch, align its pins with the holes on the PCB. Press down firmly until the switch clicks into place. Ensure pins are straight to avoid bending.
- The keyboard supports most 3-pin and 5-pin mechanical switches.

FR4 Single Slot Locator Plate Hot-Swappable RGB PCB

Supports 3-pin/5-pin, 98% Switches on the Market



Image: Close-up view demonstrating the hot-swappable feature, showing a switch being removed from the FR4 position plate using a switch puller tool.



Image: A detailed view of a switch being removed from the keyboard, illustrating the hot-swap capability.

DESIGN AND CONSTRUCTION

The AK980 features a unique gasket-mounted structure with multiple sound-dampening layers to provide a superior typing experience by reducing resonance and improving acoustics.

- **FR4 Position Plate:** Provides a stable base for switches.
- **IXPE Switch Pads:** Reduces switch wobble and improves sound.
- **PET Pads, Sponge Pads, Silicone Pads:** Multiple layers work together to absorb sound and vibrations, resulting in a quieter and more satisfying keystroke.

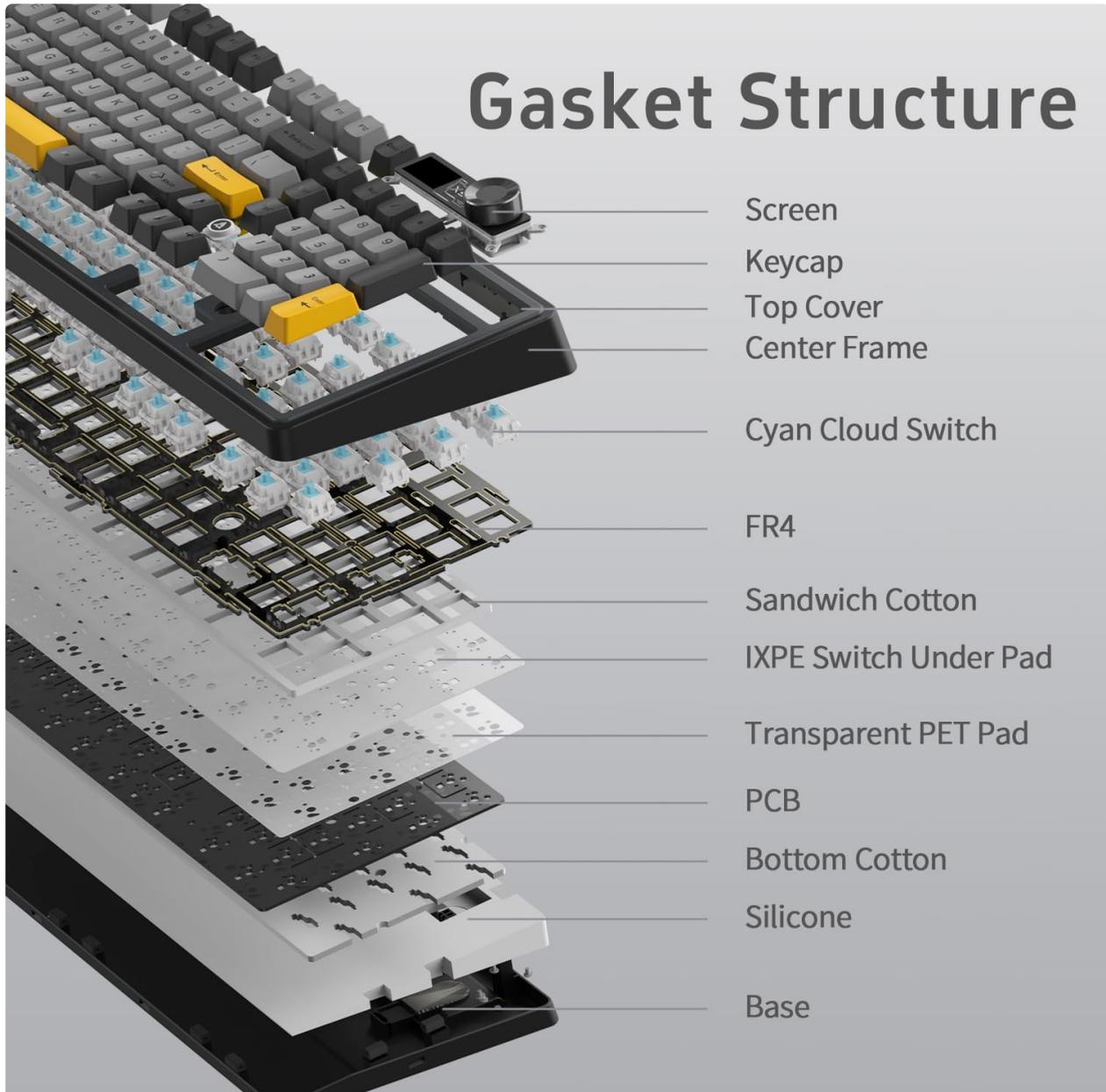


Image: Exploded diagram showing the internal layers of the keyboard's gasket structure, including the screen, keycap, top cover, center frame, Cyan Cloud Switch, FR4 plate, sandwich cotton, IXPE switch under pad, transparent PET pad, PCB, bottom cotton, silicone, and base.

Adjustable Feet

The keyboard is equipped with two-stage adjustable feet, allowing you to set the typing angle for optimal comfort and ergonomics.

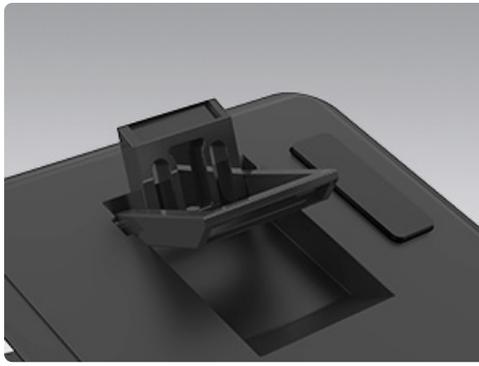


Image: Close-up of the keyboard's adjustable foot, showing its two-stage design for ergonomic angle adjustment.

BATTERY MANAGEMENT

The AK980 is equipped with an 8000mAh battery for extended wireless use.

- **Charging:** Connect the keyboard via the USB-C cable to a power source (computer USB port or wall adapter). The display will indicate charging status.
- **Battery Life:** Approximately 28 hours of wireless battery life with backlight on, and approximately 110 hours with backlight off.
- **Battery Indicator:** The TFT display shows the current battery level.

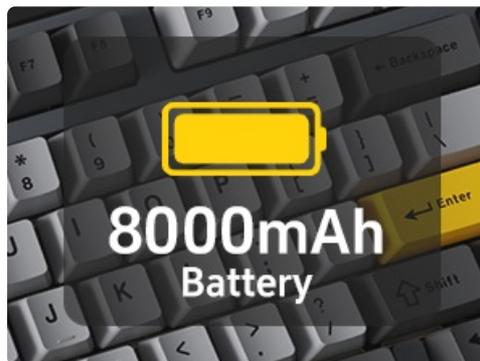


Image: Icon representing the 8000mAh battery capacity of the keyboard.

Endurance Test

- 💡 Approx. 28 hours of wireless battery life
- 💡 Approx. 110 hours of battery life with backlight off

Durability

8000mAh

A composite graphic illustrating battery endurance. It features a black keyboard with colorful backlighting, a large yellow battery icon, and a yellow alarm clock. The text "Endurance Test" is prominently displayed at the top. Two callout boxes provide battery life statistics: "Approx. 28 hours of wireless battery life" and "Approx. 110 hours of battery life with backlight off". A "Durability" badge with a battery icon and "8000mAh" is also present.

Image: Graphic illustrating the battery endurance, showing approximately 28 hours of wireless battery life and 110 hours with the backlight off, emphasizing the 8000mAh durability.

MAINTENANCE

- **Cleaning:** Use a soft, dry cloth to wipe down the keyboard. For deeper cleaning, you can use a can of compressed air to remove dust and debris from between the keycaps.
- **Keycap Cleaning:** Keycaps can be removed for thorough cleaning. Use a keycap puller to gently lift them off. Clean with mild soap and water, then ensure they are completely dry before reattaching.
- **Storage:** When not in use, store the keyboard in a cool, dry place. Use the provided dust cover to protect it from dust accumulation.
- **Avoid Liquids:** Do not expose the keyboard to liquids. In case of spills, immediately disconnect the keyboard and allow it to dry completely before reconnecting.

TROUBLESHOOTING

Problem	Possible Cause	Solution
Keyboard not responding (wired)	Loose cable connection; incorrect mode selected.	Ensure USB-C cable is securely connected. Verify mode switch is set to "USB-C". Try a different USB port or cable.
Keyboard not responding (wireless/Bluetooth)	Low battery; incorrect mode; pairing issue; receiver not connected (2.4G).	Charge the keyboard. Ensure mode switch is set to "2.4G" or "BT". For 2.4G, ensure receiver is plugged in. For Bluetooth, re-pair the device.
Keys not registering or double-typing	Dust/debris under keycap/switch; faulty switch.	Remove keycap and clean around the switch. If hot-swappable, try replacing the switch.
RGB lighting not working	Lighting turned off; incorrect setting.	Check RGB settings via the TFT display or hotkeys. Ensure brightness is not set to zero.
TFT display not showing correct time/information	Settings not configured; driver issue.	Access the display menu via Fn+Knob to adjust settings. Ensure the latest driver/software is installed if applicable for advanced features like custom GIFs.

SPECIFICATIONS

Feature	Detail
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Feature	Detail
Model	AK980
Layout	98 Keys (96% Layout)
Connectivity	Wired (USB-C), 2.4GHz Wireless, Bluetooth 5.1
Battery Capacity	8000mAh
Display	1.14-inch TFT Color Screen
Switches	Pre-lubricated Linear Switches (Cyan Cloud Switch details below)
Hot-Swappable	Yes, supports 3-pin/5-pin switches
Backlighting	RGB, South-Facing
Keycaps	OEM-style PBT
Noise Reduction	5-Layer Padding (FR4 plate, IXPE pads, PET pads, sponge pads, silicone pads)
Product Dimensions	14 x 5.02 x 2 inches
Item Weight	2.43 pounds
Compatible Devices	Laptop, PC, Gaming Console, Tablet
Manufacturer	AJAZZ
Country of Origin	China

Cyan Cloud Switch Specifications

- **Total Travel:** 3.2mm \pm 0.4mm
- **Actuation Travel:** 2.0mm \pm 0.4mm
- **Actuation Force:** 48gf \pm 10gf
- **Release Force:** 55gf \pm 10gf



Image: Diagram detailing the specifications of the Cyan Cloud Switch, including total travel, actuation travel, actuation force, and release force.

WARRANTY AND SUPPORT

This product comes with a standard manufacturer's warranty. For specific warranty terms and conditions, please refer to the documentation included with your purchase or contact the retailer/manufacturer directly. For technical support, troubleshooting assistance beyond this manual, or warranty claims, please contact the DAIDAI customer support team through their official channels. You may find contact information on the product packaging or the brand's official website.

Please retain your proof of purchase for any warranty-related inquiries.