

AJAZZ AK820PRO Red-Green

AJAZZ AK820PRO 75% Gasket Mechanical Keyboard User Manual

Model: AK820PRO Red-Green

1. INTRODUCTION

The AJAZZ AK820PRO is a compact 75% layout mechanical keyboard designed for versatility and performance. It features a unique TFT screen, a multi-function knob, five-layer noise reduction padding, hot-swappable switches, and triple-mode connectivity (Bluetooth, 2.4GHz wireless, and wired USB-C). This manual provides detailed instructions for setting up, operating, and maintaining your keyboard.

2. PACKAGE CONTENTS

Please verify that all items are present in your package:

- AJAZZ AK820PRO Mechanical Keyboard
- USB-C to USB-A Cable
- 2.4GHz Wireless Receiver
- Keycap Puller
- User Manual (this document)

3. PRODUCT OVERVIEW

The AK820PRO combines a compact 75% layout with advanced features for an enhanced typing and gaming experience. Key features include:

- **75% Layout with Knob & TFT Screen:** Efficient design retaining essential keys, complemented by a 0.85-inch TFT color screen for quick access to settings and information.
- **Five-Layer Noise-Reducing Pad:** Premium internal padding (Poron foam, IXPE switch pads, PET sound enhancement pads, and 2 layer bottom pads) to minimize typing noise and resonance.
- **Fine Calibrated Stabilizer and PCB:** Features a 1.2mm single-key slotted PCB and precisely tuned stabilizers for enhanced keystroke stability and a quieter typing experience.
- **Triple Mode Connectivity:** Supports Bluetooth 5.0, 2.4GHz wireless, and wired USB-C connections for broad compatibility.
- **4000mAh Rechargeable Battery:** Provides extended usage time in wireless modes.
- **South-Facing RGB Backlight:** Offers 16.8 million colors with customizable patterns and music rhythm synchronization.
- **Hot-Swappable PCB:** Compatible with 3/5-pin mechanical switches, allowing for easy switch replacement and customization.



Image: The AJAZZ AK820PRO keyboard in its MOA Green-Red color scheme, showcasing its compact 75% layout, round keycaps, and integrated TFT screen.

AJAZZ AK820PRO Custom Keyboard

Hot Swap | Gasket Mount | TFT Screen



Hot Swap



Knob Design



1.2mm Single-key
Slotted PCB



3 Modes



Five-Layer Padding



4000mAh Battery



RGB Backlit



Image: An infographic highlighting key features of the AK820PRO, including Hot Swap, Gasket Mount, TFT Screen, Knob Design, 1.2mm Single-key Slotted PCB, 3 Modes, Five-Layer Padding, 4000mAh Battery, and RGB Backlit.

4. SETUP AND INITIAL CONNECTION

Before first use, it is recommended to fully charge the keyboard using the provided USB-C cable.

4.1 Charging the Keyboard

Connect the USB-C end of the cable to the keyboard's port and the USB-A end to a power source (e.g., computer USB port, wall adapter). The TFT screen will indicate charging status.

4.2 Connecting via Wired Mode

Simply connect the USB-C cable from the keyboard to your computer. The keyboard will be recognized automatically.

4.3 Connecting via 2.4GHz Wireless Mode

1. Locate the 2.4GHz wireless receiver in the package.
2. Plug the receiver into an available USB port on your computer.
3. On the keyboard, switch the mode selector to 2.4G mode. The keyboard should automatically connect.

4.4 Connecting via Bluetooth Mode

1. On the keyboard, switch the mode selector to Bluetooth mode.
2. Press and hold **Fn + Q/W/E/R/T** to enter pairing mode for one of the five Bluetooth channels. The TFT screen will show the selected channel.
3. On your device (PC, laptop, tablet, smartphone), go to Bluetooth settings and search for new devices.
4. Select "AJAZZ AK820PRO" from the list of available devices to pair.

5. Once paired, the TFT screen will confirm the connection. You can switch between paired devices by pressing **Fn + Q/W/E/R/T**.



Image: An illustration showing the 4000mAh rechargeable battery and the three connectivity modes: Bluetooth 5.0, Wireless 2.4GHz, and Wired Type-C, compatible with various devices like laptops, PCs, tablets, and smartphones.

5. OPERATING THE TFT SCREEN AND KNOB

The 0.85-inch TFT color screen provides real-time information and allows for quick adjustments. The multi-function knob controls various settings.

5.1 TFT Screen Functions

The screen displays information such as connection mode, battery level, time, and current backlight or screen patterns. You can navigate through different display modes and settings directly on the screen.

Hot Swap Gasket Keyboard

- ❶ 1.2mm single key slotted PCB
- ❷ Hot-swappable & south-facing RGB LEDs
- ❸ PORON sandwich cotton, bottom cotton and IXPE shaft underpad



Image: A close-up of the 0.85-inch TFT screen on the AK820PRO keyboard, illustrating its ability to display battery level, connection method, date/time, language switch, Win/MAC switch, volume adjustment, and light effect adjustment.

5.2 Multi-Function Knob

The knob provides intuitive control over several features:

- **Volume Control:** Rotate the knob to adjust system volume. Press the knob to mute/unmute.
- **LED Effect Function:** Access and change LED lighting effects.
- **RGB Hotkey Function:** Customize RGB settings.
- **Check Function Mode:** View current operating mode.
- **Language Switching:** Change the display language on the TFT screen (e.g., Chinese/English).



Image: A close-up of the multi-function knob on the AK820PRO keyboard, detailing its various functions including LED Effect, RGB Hotkey, Volume +/-Mute, Check Function Mode, and Language Switching.

6. RGB BACKLIGHT CUSTOMIZATION

The AK820PRO features a vibrant 16.8 million-color RGB backlight with south-facing LEDs for soft, consistent illumination. You can customize lighting patterns and effects.

- **Switch Backlight Effects:** Press **Fn + |** to cycle through 20 different backlight effects.
- **Music Rhythm Mode:** The backlight can synchronize with music, creating dynamic lighting effects.
- **Software Customization:** For advanced customization, download the official AJAZZ software from the manufacturer's website. This software allows for detailed control over RGB patterns, key remapping, and macro creation.



Image: The AK820PRO keyboard displaying its programmable RGB lighting with a music rhythm visualization, indicating the ability to switch between 20 backlight effects using $\text{Fn} + \backslash$ and adjust to any lighting preference.

7. Hot-Swappable Switches

The AK820PRO features a hot-swappable PCB, allowing you to easily change mechanical switches without soldering. This provides flexibility for customizing your typing feel.

- **Compatibility:** Supports most 3-pin and 5-pin mechanical switches.
- **How to Swap:** Use the included keycap puller to remove the keycap, then use a switch puller (not included, but often comes with switch sets) to gently remove the switch. Align the new switch's pins with the PCB sockets and press firmly until it clicks into place.

Knob with Multiple Functions



Image: An illustration of the AK820PRO's internal structure, highlighting its hot-swappable and south-facing RGB LEDs, 1.2mm single key slotted PCB, and sound-dampening layers including PORON sandwich cotton, bottom cotton, and IXPE shaft underpad.

8. MAINTENANCE

To ensure the longevity and optimal performance of your AK820PRO keyboard, follow these maintenance guidelines:

- **Cleaning Keycaps:** Use the provided keycap puller to remove keycaps. Clean them with a soft cloth dampened with mild soap and water. Ensure they are completely dry before reattaching.
- **Cleaning the Case:** Wipe the keyboard case with a soft, dry, lint-free cloth. Avoid abrasive cleaners or solvents.
- **Dust Removal:** Use compressed air to remove dust and debris from between the keycaps and switches.
- **Storage:** When not in use for extended periods, store the keyboard in a dry, cool place away from direct sunlight.

9. TROUBLESHOOTING

If you encounter issues with your AK820PRO keyboard, refer to the following common solutions:

Problem	Possible Solution
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Problem	Possible Solution
Keyboard not responding in wireless mode.	Ensure the keyboard is charged. Check if the mode switch is set correctly (2.4G or BT). For 2.4G, ensure the receiver is properly plugged in. For Bluetooth, re-pair the device.
TFT screen displays incorrect time or information.	Ensure the keyboard is connected to your device. Some settings, like time, may require synchronization via the keyboard's software or a firmware update. Check the language setting on the screen using the knob.
RGB backlight not working or stuck.	Try cycling through backlight effects using Fn + \ . Ensure the keyboard is not in a low-power state. If using software, check its settings.
Keys are not registering or double-typing.	This could indicate a faulty switch. Since the keyboard is hot-swappable, try replacing the problematic switch. Ensure switches are fully seated.
Bluetooth connection is unstable.	Ensure no strong interference sources are nearby. Try re-pairing the keyboard. Update Bluetooth drivers on your device.

10. SPECIFICATIONS

Feature	Detail
Model	AK820PRO Red-Green
Layout	75% (81 keys + 1 knob)
Connectivity	Bluetooth 5.0, 2.4GHz Wireless, USB-C Wired
Battery Capacity	4000mAh Lithium Ion
TFT Screen Size	0.85 inches
Backlight	RGB (South-Facing LEDs)
Hot-Swappable	Yes (3/5-pin switches)
Noise Reduction	Five-layer padding
Product Dimensions	11.87 x 5.35 x 1.57 inches
Item Weight	1.79 pounds
Manufacturer	AJAZZ
Compatible Devices	Laptop, PC, Tablet, Smartphone

11. OFFICIAL PRODUCT VIDEO

Your browser does not support the video tag.

Video: An official product video from AJAZZ Flagship Store showcasing the AK820PRO 75% keyboard with its screen and MOA keycaps, including unboxing and demonstration of features.

12. WARRANTY AND SUPPORT

AJAZZ provides a standard warranty for the AK820PRO keyboard. For specific warranty terms, technical support, or service inquiries, please refer to the warranty card included in your package or visit the official AJAZZ website. You can also contact the seller directly through the platform where you purchased the product.