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> [AJAZZ AK820 MAX HE Gaming Keyboard User Manual](#)

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AJAZZ AK820 MAX HE Gaming Keyboard User Manual

Model: AK820 Max HE | Brand: AJAZZ (Manufactured by MechLands)



Overview of the AJAZZ AK820 MAX HE Gaming Keyboard in black, featuring its 75% layout with a knob and screen.

INTRODUCTION

The AJAZZ AK820 MAX HE is an advanced Hall Effect Magnetic Gaming Keyboard designed for rapid response and customizable performance. It features adjustable actuation points, three connectivity modes (wired, 2.4GHz wireless, Bluetooth), a built-in TFT screen, and a durable gasket-mounted design. This manual provides essential information for setting up, operating, and maintaining your keyboard.

WHAT'S IN THE BOX

- AJAZZ AK820 MAX HE Gaming Keyboard
- USB Cable (USB-A to USB-C)
- Keycap Puller
- Switch Puller
- User Manual (PDF available online)

SETUP

Connectivity Modes

The AK820 MAX HE supports three versatile connectivity options:

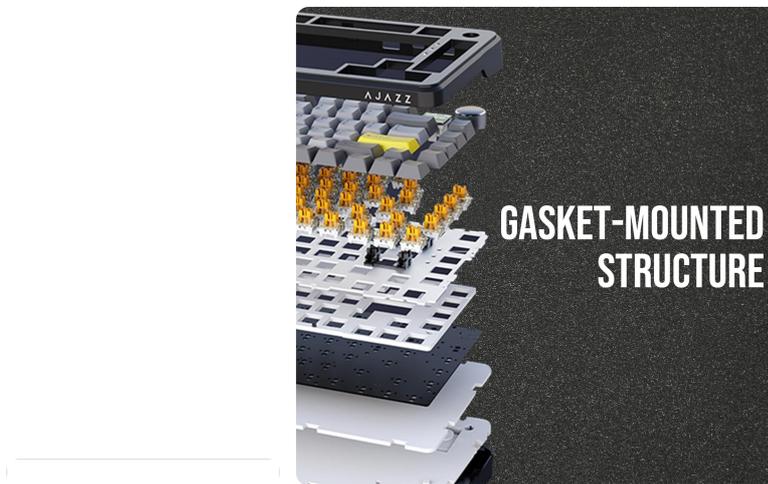
- **Wired Mode (USB-C):** Connect the keyboard directly to your device using the provided USB-C cable. This mode also charges the internal battery.
- **2.4GHz Wireless Mode:** For a stable and fast wireless connection, use the included 2.4GHz USB dongle.
- **Bluetooth Mode:** Connect wirelessly to compatible devices via Bluetooth.



Visual representation of the keyboard's three connectivity modes: Wired, 2.4GHz Wireless, and Bluetooth.

Switching Modes and OS

On the back panel of the keyboard, you will find switches to select your operating system (Windows or Mac) and your preferred connectivity mode (Bluetooth, USB, or 2.4G).



Left: The 2.4GHz USB dongle is conveniently stored underneath the keyboard. Right: Switches on the back panel for selecting Windows/Mac operating system and connectivity mode (Bluetooth, USB, 2.4G).

Initial Pairing (Bluetooth)

To pair via Bluetooth, slide the connectivity switch to 'BT'. The keyboard will enter pairing mode, indicated on the TFT screen. Select 'AJAZZ AK820 MAX' from your device's Bluetooth settings.

OPERATING INSTRUCTIONS

Magnetic Switches & Adjustable Actuation Point

The AK820 MAX HE features Hall Effect magnetic switches, allowing for rapid trigger capabilities and adjustable actuation points from 0.2mm to 2.5mm with 0.1mm precision. This enables ultra-fast response times and customizable key sensitivity for gaming.

- **DKS (Dynamic Key Switching):** Assign two functions to a single key based on press depth.
- **MT (Magnetic Tactile):** Customize tap/hold or release distance for dynamic functionality.
- **TGL (Trigger-Lock):** Adjust the time required to trigger a "hold down" action.



Detailed diagram of the Hall Magnetic Linear Switch and its operational parameters.

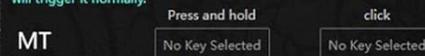
RAPID TRIGGER (RT) GAMING KEYBOARD

Quicker Inputs & Immediate Repetition



Dynamic Keystrokes (DKS)

A single button achieves two functions: holding down the button is one, and clicking the button is the other. Pressing and holding the button will trigger the button continuously, while clicking the button will trigger it normally.



Adjusting the button time

Adjust the time required to trigger the "hold down" button (default is 200ms)

Button time 200ms

Mod-Tap (MT)

Click the button to switch continuous triggering on or off. Pressing and holding the button indicates normal triggering behavior. Click on the button you want to trigger to bind and switch to the key.

There are two ways to play by clicking the button: to enable long pressing, the button will continue to be triggered, and to enable continuous sending, the button will continue to be triggered.



Toggle Key (TGL)

Explanation of Rapid Trigger (RT) features including DKS, MT, and TGL for quicker inputs and immediate repetition.

High Polling Rate

Experience ultra-fast response times with a 1K polling rate in USB-C & 2.4GHz modes, and 125Hz in Bluetooth mode, ensuring instant command execution.

0.85" TFT Display Screen & Multifunctional Knob

The integrated TFT screen displays essential information such as time, battery level, connectivity status, and can even show GIFs. The multifunctional knob allows for easy volume control and can be customized via the AJAZZ Driver software.

- **FN + Knob:** Enter the setting page. (Knob controls left/right direction, press to confirm).
- **FN + B:** Switch between animation and main page on the screen.

0.85" TFT DISPLAY SCREEN



The 0.85" TFT display screen showing time, battery, and customizable GIFs.

RGB Backlight

The keyboard features vibrant RGB backlighting with various customizable effects. Use the following shortcuts to control the backlight:

- **FN + **: Toggle backlight effects.
- **FN + →**: Toggle backlight colors.
- **FN + X**: Turn lights On/Off.

3 MODES CONNECTIVITY

Support for Multiple Devices and Systems



2.4Ghz
Wireless
FN+R



Wired Mode
USB-Type C



Bluetooth
FN + Q/W/E



PC



LAPTOP



TABLET



WIN



MAC



Android

The keyboard illuminated with 16.8 million RGB backlight colors and effects.

Hot-Swappable PCB

The hot-swappable PCB allows for easy customization of your typing experience by switching between different magnetic switches (e.g., Kailh, Gateron). This feature is only compatible with magnetic switches.

SOFTWARE PROGRAMMABLE

Custom Your Gaming Keyboard
(Only Support in Windows System)



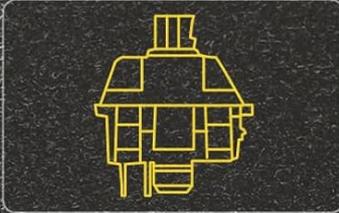
Diagram illustrating the hot-swappable PCB, magnetic switch, 3-pin/5-pin switch socket, plate-mounted stabilizers, and south-facing LEDs.

Gasket-Mounted Structure

The internal structure features a GASKET gasket design and a PC plate, providing stability, sturdy typing feedback, and improved sound. Three layers of sound-enhancing materials (Poron foam, EVA foam, and silicone case pad) further enhance the typing experience.

HOT SWAPPABLE PCB

*ONLY for Magnetic Switch



Magnetic Switch-Linear



3-Pin/5-Pin Switch Socket

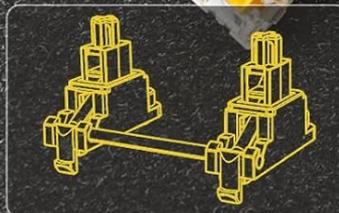


Plate-Mounted Stabilizers



South-Facing LEDs

Exploded view of the keyboard's gasket-mounted structure, highlighting its various layers for enhanced typing feel and sound.

PBT Keycaps

The keyboard comes with durable PBT keycaps, known for their resistance to shine and wear, ensuring a long-lasting premium feel.



Illustration of the PBT keycaps with Cherry Profile dimensions.

Software Programmable

Customize your keyboard's functions, macros, and lighting effects using the AJAZZ Driver software. Please note that software programming is currently only supported on Windows operating systems.



GASKET-MOUNTED STRUCTURE

Screenshot of the AJAZZ Driver software interface for customizing keyboard settings.

MAINTENANCE

To ensure the longevity and optimal performance of your AJAZZ AK820 MAX HE keyboard, follow these maintenance guidelines:

- **Cleaning:** Regularly clean the keycaps and the keyboard body with a soft, dry cloth. For deeper cleaning, use the provided keycap puller to remove keycaps and gently clean underneath with compressed air or a small brush.
- **Switch Care:** As the switches are hot-swappable, you can easily replace them if needed. Avoid excessive force when removing or inserting switches to prevent damage to the PCB sockets.
- **Battery Care:** To prolong battery life, avoid fully discharging the keyboard frequently. Charge it when the battery indicator on the TFT screen shows low power.

TROUBLESHOOTING

If you encounter issues with your keyboard, try the following solutions:

- **Connectivity Issues:**

- Ensure the correct mode (BT, USB, 2.4G) is selected on the back switch.
- For 2.4GHz, ensure the USB dongle is securely plugged into your device.
- For Bluetooth, ensure the keyboard is in pairing mode and your device's Bluetooth is enabled. Try re-pairing if necessary.
- If using wired mode, ensure the USB-C cable is properly connected to both the keyboard and your device.

- **Backlight Not Working:**

- Press FN + X to ensure the backlight is not turned off.
- Check battery level on the TFT screen; low battery can affect backlight performance.

- **Keys Not Responding:**

- Ensure the keyboard is properly connected in your chosen mode.
- If a specific key is not responding, try removing and re-inserting its magnetic switch.
- Check if the correct operating system mode (Win/Mac) is selected.

- **Software Issues:**

- Ensure you have downloaded the correct and latest version of the AJAZZ Driver software from the official website.
- Verify that your operating system is Windows, as the software is currently Windows-only.

For further assistance, refer to the official user manual or contact customer support.

SPECIFICATIONS

Brand	MechLands (AJAZZ)
Model Number	AK820 Max HE
Product Dimensions	13.11 x 5.63 x 0.81 inches
Item Weight	3.52 ounces
Connectivity Technology	Bluetooth, 2.4GHz Wireless, USB-C
Number of Keys	81
Special Features	Magnetic Switch, Volume Roller, Rapid Trigger, Hall Effect, Hot-Swappable, TFT Screen
Keyboard Backlighting	RGB
Battery	1 Lithium Ion battery (included) - 4000mAh
Compatible Devices	Laptop, PC, Gaming Console, Tablet, Smartphone



The keyboard is equipped with a 4000mAh battery for extended wireless use.

WARRANTY AND SUPPORT

For detailed warranty information, please refer to the documentation included with your purchase or visit the official MechLands/AJAZZ website. For additional support, you can refer to the comprehensive [User Manual \(PDF\)](#) provided by the manufacturer.