尺寸：105x148.5mm　　材质：128G双铜纸　单黑/正反面印刷

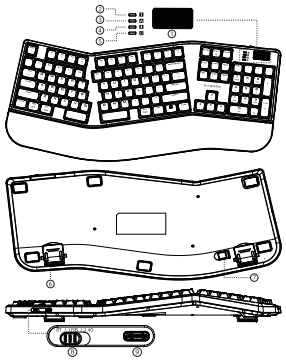
RAGNOK

RK104: Mechanical ergonomic keyboard

User Manual

Dear customer, thank you for purchasing the Ragnok RK104 Ergonomic Tri-mode Mechanical Keyboard. We sincerely appreciate your choice. The following content provides instructions on how to use the product and important precautions. Please read it carefully before use and keep this manual in a safe place for future reference.

Component Descrition



① Multimedia Scroll Wheel
② Numeric Keypad Lock Indicator
③ Caps Lock Indicator Light
④ Scroll Lock Indicator Light
⑤ Charging/Low Battery Indicator
⑥ Adjustable Footrest
⑦ USB Receiver
⑧ Connection Mode Switch
⑨ Type-C Charging Port

Indicator Light Status

Type	Light Location	Description
Num Lock	1	Press the Num Lock key [NUM], blue light stays on.
Caps Lock	A	Press the Caps Lock key [CAPS], blue light stays on.
SCRLK	2	Press the Scroll Lock key [SCRLK], blue light stays on.
Charging/Low Battery Indicator	D	While charging, the red light stays on; once fully charged, the red light turns off. When the battery is low, the red light flashes slowly. The light stays off during normal use.
Battery Check	Backlight of number keys 1-0	Press FN + CTRL (left) + BACKSPACE to check battery level. The backlight of the 1-0 number keys will show green lights to indicate the battery level (10% per key). The backlight turns off when the keys are released.
2.4G	Backlight of the R key	Set the mode switch on the front of the keyboard to the 2.4G position. If the wireless receiver is not connected to the computer, the backlight blinks green. Once connected, it stops blinking.
BT1 Device	Backlight of the W key	Short press FN + Q to switch to BT1 Bluetooth channel. Long press for 3 seconds to re-enter pairing mode. When disconnected, the backlight blinks red. It stops blinking once connected.
BT1 Device	Backlight of the Q key	Short press FN + W to switch to BT2 Bluetooth channel. Long press for 3 seconds to re-enter pairing mode. When disconnected, the backlight blinks blue. It stops blinking once connected.
BT1 Device	Backlight of the key	Short press FN + E to switch to BT3 Bluetooth channel. Long press for 3 seconds to re-enter pairing mode. When disconnected, the backlight blinks orange. It stops blinking once connected.

Specifications

Transmission Mode	2.4G + Bluetooth 5.3 + Type-C
Maximum Transmission Distance	10m
Cable Length	1.8m
Structure	Gasket noise reduction structure

Specifications

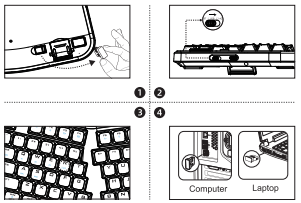
Charging Port	Type-C
Battery Capacity	5000mAh Lithium Battery
Battery Life	33 hours (with lights on); 125 hours (with lights off)
Number of Keys	104 keys
Dimensions	501mm * 215mm * 44mm
Weight	1.19kg
Compatible Systems	Windows 7 and later, Mac
Bluetooth Version	BLE5.3
Wired Report Rate	1000hz
2.4G Report Rate	1000hz
Bluetooth Report Rate	12hz
Bluetooth Display Name	Ragnok RK104
2.4G Display Name	RK104 2.4G
Wired Display Name	RK104
Lighting Effects Cycles	01.Drifting Along with the Current 02.Turning the Tide 03.Ready to Launch 04.Killing Two Birds with One Stone 05.Ripples Spreading 07.Majestic Mountain Ranges 06.Continuous Flow 09.Coming and Going 08.Gentle Breeze and Fine Rain 011.Single Key Lighting 010.Static Constant Brightness 013.Starry Night 012.Single Key Turning Off 015.Blossoms Competing 014.Snowfall 017.Spectrum Cycle 016.Dynamic Breathing 019.Colorful Intersections 018.Colorful Fountain Flow

Note:
The battery life is calculated based on laboratory usage environment, and actual usage time may vary depending on user conditions.

Specifications

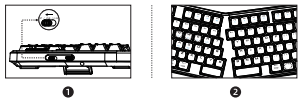
The device supports software updates via the USB interface, allowing the product to be upgraded to the latest software version, facilitating product maintenance and version iteration.

2.4G Wireless Connection



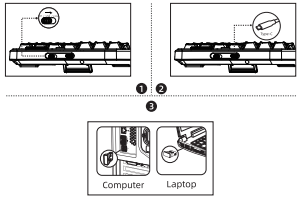
1. Remove the receiver from the back of the keyboard.
2. Adjust the connection mode switch on the front of the keyboard to the 2.4G position.
3. The "R" key will start flashing, entering pairing mode.
4. Connect the receiver to the USB port of the computer. The "R" key will stop flashing, indicating the connection is complete.
5. When connected via 2.4GHz, the device name will appear as: RK104 2.4G.

Bluetooth Wireless Connection



1. Adjust the connection mode switch on the front of the keyboard to the BT position.
2. The "Q" / "W" / "E" keys will start flashing. Select a connection channel and hold the "FN" key and the "Q" / "W" / "E" key for more than 3 seconds until the corresponding key flashes quickly, indicating that Bluetooth pairing mode has been activated.
3. Open the Bluetooth connection settings on your device.
   Follow the pairing instructions on your device to search for available Bluetooth signals.
   Bluetooth Display Name: RAGNOK RK104. Select the corresponding name to complete the connection.

Type-C Wired



1. Adjust the connection mode switch on the front side of the keyboard to the USB position.
2. Take out the power cable and connect it to the Type-C port on the keyboard and the USB port on the computer.
3. When connected via wire, the device name will be: RK104.

Function Key Description

Key	Windows Key Combinations	Mac Combination Key Functions
F1	F1	Screen Brightness Decrease
F2	F2	Screen Brightness Increase
F3	F3	Show Multitasking Window (Mission Control)
F4	F4	Show All Applications (Launchpad)
F5	F5	App Expose Function (Control + Down Arrow)
F6	F6	Search
F7	F7	Previous Song
F8	F8	Play/Pause
F9	F9	Next Song
F10	F10	Mute
F11	F11	Volume -
F12	F12	Volume +
FN+ESC	Restore to Factory Settings	Restore Factory Settings
FN+F1	Screen Brightness -	F1
FN+F2	Screen Brightness +	F2
FN+F3	Show Task View (Alt + Tab)	F3
FN+F4	Show Desktop (Win + D)	F4
FN+F5	Back	F5
FN+F6	Search	F6
FN+F7	Previous Track	F7
FN+F8	Pause	F8
FN+F9	Next Track	F9
FN+F10	Mute	F10
FN+F11	Volume -	F11
FN+F12	Volume +	F12
CTRL	CTRL	control
WIN	WIN	option
ALT	ALT	command
FN+A	Press and hold for more than 3 seconds to switch to WIN system	
FN+S	Press and hold for more than 3 seconds to switch to MAC system	
FN+WIN	Lock WIN	/
FN+ALT (Left)	Lighting Test Key	/
FN+TAB	Color Switch	Color Switch

Function Key Description

Combination Keys	Windows Combination Key Functions	Mac Combination Key Functions
FN+U	Switch Lighting Effect Cycle	Switch Lighting Effect Cycle
FN+J	Decrease Brightness	Decrease Brightness
FN+T	Increase Brightness	Increase Brightness
FN+F	Slow Down Speed	Slow Down Speed
FN+→	Speed Up	Speed Up
FN+Q	Switch to Bluetooth Device 1	Switch to Bluetooth Device 1
FN+W	Switch to Bluetooth Device 2	Switch to Bluetooth Device 2
FN+E	Switch to Bluetooth Device 3	Switch to Bluetooth Device 3
FN+CTRL (Left) +BACKSPACE	Check Battery Level	Check Battery Level

Mac Combination Key Functions

- **Software Name:** Ragnok RK104
- **Download Link:** https://ragnok.com/pages/download
- Languages Available (Default Language): English, Simple Chinese
  Note: Some features are incompatible with macOS.

Scroll Wheel Settings

Scroll Wheel: Metal scroll wheel

- Scroll Up: Volume +
- Scroll Down: Volume –
- Click: Mute

Notes

- Due to the use of 2.4G technology, the connection between the device and the computer may be interfered with by obstacles such as walls, metal, or other electronic devices. Please ensure there is no obstruction between the keyboard and the USB receiver.
- The manufacturer reserves the right to modify specifications according to evolving policies without prior notice.
- The illustrations in this manual are for reference only; please operate according to the actual product.

Cleaning and Maintenance

Before cleaning the product, please turn off the power.
Only use a soft, dry cloth to clean the product. Do not use a damp cloth. Never use industrial polishing wax, benzene, paint thinners, air fresheners, lubricants, cleaning agents, or other chemicals for cleaning. Wipe off moisture, dirt, or dust on the product with a clean, dry cloth.

Troubleshooting

If the wireless keyboard is not working, try the following methods

- Check the battery: Ensure that the keyboard has power. If the battery is low, charge it fully and try again.
- Re-plug the USB receiver: Try unplugging and re-plugging the USB receiver to make sure it is properly connected to the computer's USB port. You can also try plugging the USB receiver into another USB port on the computer.
- Check the driver: Check and update the system's built-in keyboard driver.
- Eliminate environmental interference: Make sure there are no other wireless devices or electromagnetic interference nearby that could affect the connection of the wireless keyboard.
- Check Bluetooth connection: If not properly connected, remove the existing connection and reconnect in Bluetooth mode.
  Restart the keyboard: Turn off the keyboard, then turn it back on to attempt reconnection.

Safety Warning

- Ensure that the product is placed in a well-ventilated area, away from humid and cold environments, to prevent overheating. Avoid direct sunlight and prevent water droplets or liquids from splashing onto it. Keep the product free from excessive dust or grease.
- Do not place the product near heat sources (such as radiators, stoves, electrical equipment, or amplifiers).
- Do not place containers with liquids (such as vases) or small metal objects on top of the product.
- Do not place any open flames (such as lit candles or cigarettes) on the product.
- When disassembling or replacing the battery, make sure to keep the battery out of the reach of infants and young children.

Disposal

Please be sure to dispose of old equipment at a recycling center. Do not dispose of it with household trash.

Customer Service

If you have any product questions, please contact us via email:

support@ragnok.net

FCC Statement
Changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.
This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:
-- Reorient or relocate the receiving antenna.
-- Increase the separation between the equipment and receiver.
-- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
-- Consult the dealer or an experienced radio/TV technician for help
This device complies with part 15 of the FCC rules. Operation is subject to the following two conditions (1)this device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

FCC RF Exposure Warning Statement:
This equipment complies with FCC radiation exposure limits set forth for an uncontrolled environment. This equipment can be used in portable exposure conditions.