



iRocks K103R Rechargeable Wireless Mechanical Keyboard Installation Guide

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K103R

Rechargeable Wireless

Mechanical Keyboard

Model No. IRK103R

Quick Installation Guide



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PACKAGE CONTENTS

- Keyboard x 1
- USB Dongle
- USB-C Cable x 1
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SYSTEMS REQUIREMENTS

- Microsoft Windows® 10. Windows® 11 and above
- macOS 10.14 and above
- Available USB Port

FEATURES

- Gasket structure and multi-layer sound-dampening structure providing a soft and unified typing experience
- I Rocks pre-lubed switches and hot-swappable switch sockets
- Compatible with Windows and macOS operating systems
- Wheel with switchable modes, customizable in Windows 10 and 11 for volume control, scrolling, zooming, and more
- Supports Bluetooth, 2.4GHz wireless and USB-C wired connectivity
- Vibrant RGB backlighting with static or dynamic effects

KEYBOARD SPECIFICATIONS

- Interface : Wired (USB Full Speed) Wireless (2.4GHz & Bluetooth 5.2)
- Key number : 81 Keys
- Switch type : Mechanical switch with hotswap sockets

- N-Key rollover (NKRO)
- Multimedia keys : 12keys
- Backlight effective keys : 4 keys
- Voltage : DC 5V ,500mA
- Charging interface : USB C
- Rechargeable li-ion battery : 3750 mAh
- Cable length : approx. 180 cm
- Weight : approx. 810 g
- Dimension : 331 (L) X 144(W) X 44(H) mm

RECEIVER SPECIFICATIONS

- Interface: USB
- Dimension: 18.6(L) X 14.5(W) X 6.1 (H) mm

HARDWARE INSTALLATION

- First-time Use and Charging Instructions

When the red light flashes, the battery is low and needs charging. The light will stay solid red while charging and turn off when fully charged.

For the initial use or if the keyboard has been unused for an extended period, it is important to charge the battery to ensure proper keyboard and battery functionality. Prolonged periods of non-use can gradually reduce battery voltage. Therefore, it is recommended to fully charge the battery every few months (approximately 4-5 months) before use to extend battery lifespan.

Charging Method

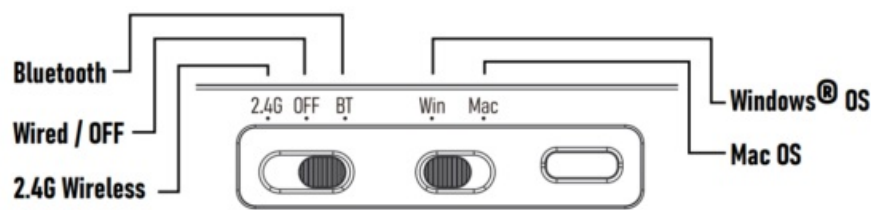
Please do not use a fast charger to charge this product to avoid potential damage.

1. Connect the USB cable to your computer or a USB DC5V charger.
2. Plug the other end into the keyboard for charging.
3. Charging is completed when the screen on your keyboard indicates 99% ~ 100% battery level.

Note: It is advisable to turn off the backlight function during charging to shorten charging time.

Keyboard linking

This keyboard has three connection modes wired wireless and Bluetooth. Follow the steps below to set up your keyboard.



Wired Connection

1. Flip the connection switch to “ OFF “ for wired mode

2. Turn on your computer and plug USB cable into an available USB port on your computer and keyboard.
3. Your computer will automatically detect the keyboard
4. You may use the keyboard after detection
5. When your keyboard is not in use, switching to Off/wired mode (connection switch OFF) is recommended.
6. Switch the keyboard to specific mode depending on your system (Windows® or macOS)

RF2.4G Wireless Connection

The device is pre-paired at the factory, so users do not need to pair it. The connection method is as follows :

1. Power on the computer and plug USB receiver into a USB port on your computer.
2. Flip the connection switch to 2.4G for 2.4 Ghz wireless mode
3. Your computer will automatically detect the receiver and connect with the keyboard
4. Switch the keyboard to specific mode depending on your system (Windows® or macOS)

Bluetooth Connection

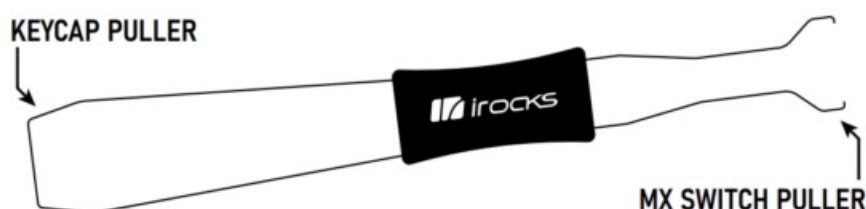
Before using keyboard via Bluetooth connection for the first time, you need to pair it with your PC and use FN + Q (W/E) to connect and switch between 3 different Bluetooth devices.

1. Flip the connection switch to BT for Bluetooth mode
2. Press and hold Fn+Q (W/E) for 3 seconds to enter pairing mode and the key will blink rapidly and is discoverable by your PC
3. Navigate to Bluetooth settings on your PC and add Bluetooth device. Look for device labeled “K103R Keyboard” and pair it with your PC.
4. Switch the keyboard to specific mode depending on your system (Windows® or macOS)

Keyboard sleep mode settings

1. Under wireless mode, the backlight of your keyboard will be automatically turned off after 1.5 minute of keyboard inactivity. To turn backlight back on, press any key.
To set idle timeout for keyboard's Energy Saving Mode under wireless mode
FN + CTRL + 0 : Fully disable Energy Saving Mode
FN + CTRL + 1 : 1.5 minutes (default, key 1 will blink 3 times when enabled)
FN + CTRL + 2 : 5 minutes (key 2 will blink 3 times when enabled)
FN + CTRL + 3 : 10 minutes (key 3 will blink 3 times when enabled)
2. Under wired mode, Press FN+Ctrl+S to enable or disable Energy Saving Mode. When the mode is enabled, backlight of your keyboard will automatically be turned off after 5 minutes of keyboard inactivity and turned back on after pressing any key. Energy Saving Mode in wired mode is disabled by default.

•Hot-swappable Switch Replacement



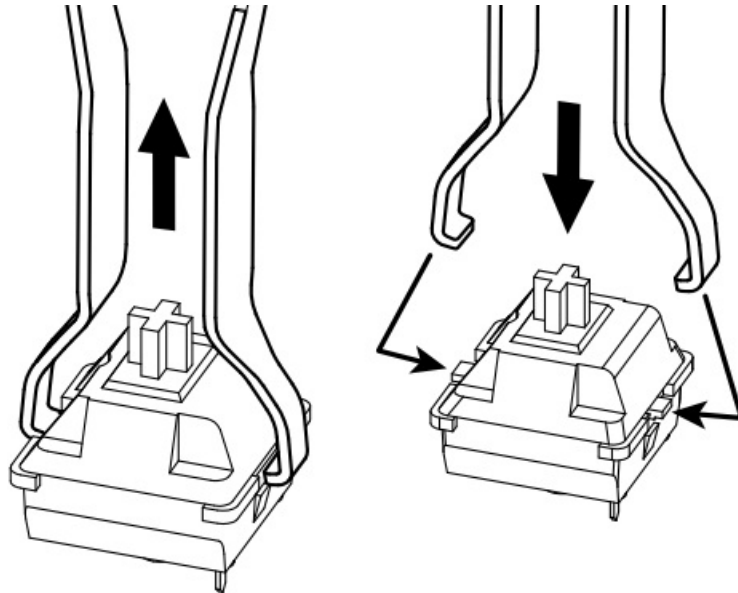
Step 01

Remove the keycap with key puller side of 2-in-1 tool coming with your keyboard.



Step 02

Remove the switch with switch puller side of the tool.



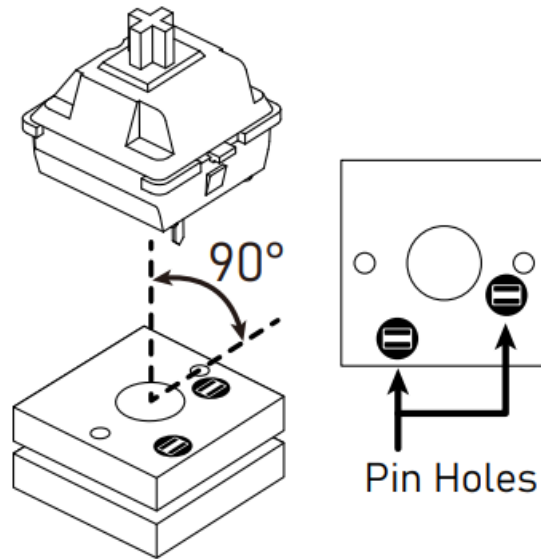
Step 03

Gently push in replacement switch

- make sure the pins of the switch are aligned with the pin holes before pushing it in.

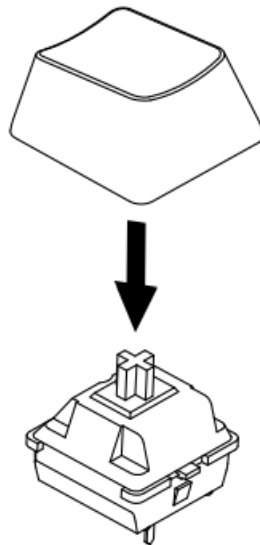
Push from the top of the switch

- to avoid pin damage, do not push on the side of the switch.



Step 04

Push back the keycap.



Still can't use

Visit iRocks official website for tutorial video.

PRODUCT INFORMATION

·LED Indicator

A: Caps Lock Indicator

W: Power low Indicator



: Windows lock

Backlight with only Esc key on: The keyboard is full key locked. Press Fn + Esc to lock or unlock.

•Function Keys

Press and hold 'Fn' key, then press desired function key to use hotkeys.

1. Setting Hotkeys

FN + **CTRL** + **G** : N-Key Rollover anti-ghosting function (default)

FN + **CTRL** + **N** : 6-Key Rollover anti-ghosting & standard USB settings

FN + **CTRL** + **P** : Factory reset (Press and hold for 5 seconds)

2. Multimedia & Function Hotkeys



FN + **Esc** : Lock entire keyboard



(Only the ESC key is red backlit when keyboard is locked.)


Windows®	KEY	PRESS	FN + PRESS
	F1	F1	Show Desktop
	F2	F2	Lock PC
	F3	F3	Search for files or folder
	F4	F4	Launch Calculator
	F5	F5	Open my Computer
	F6	F6	Open E-Mail
	F7	F7	Open the internet browser
	F8	F8	Media player
	F9	F9	Play/pause
	F10	F10	Backward
	F11	F11	Stop play
	F12	F12	Forward
	Win	Win	Turn Windows lock on or off

	KEY	PRESS	FN + PRESS
mac OS	F1	Decrease Screen Brightness	F1
	F2	Increase Screen Brightness	F2
	F3	Mission Control	F3
	F4	Spotlight	F4
	F5	Search	F5
	F6	No function	F6
	F7	Previous Track	F7
	F8	Play / Pause	F8
	F9	Next Track	F9
	F10	Mute	F10
	F11	Volume Down	F11
	F12	Volume Up	F12

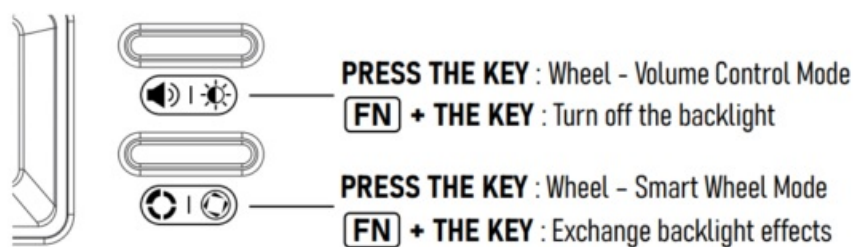
3. Keyboard Backlight

FN +  or  : Adjust brightness backlight (4 levels)

FN +  or  : Adjust backlight effect speed (depending on backlight effects)

FN + **CTRL** +  : Adjust backlight color (depending on backlight effects)

FN + **CTRL** +  : Show the custom backlighting for software lighting effects mode



4. Smart wheel function


Use the scroll wheel and the two buttons next to it to switch between two scroll wheel functions (volume control/smart scroll). The introduction is as follows :

 : Wheel – Volume Control Mode

Wheel clockwise : Increase volume

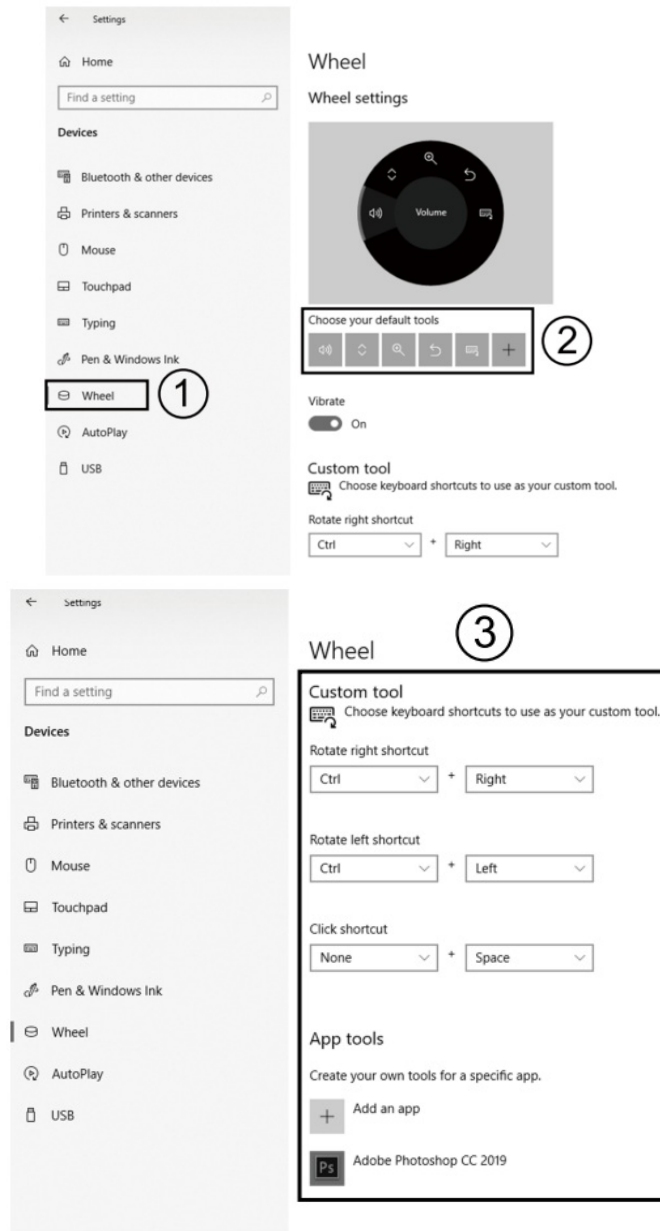
Wheel counterclockwise : Decrease volume

Wheel button : Mute / Unmute

 : Wheel – Smart Wheel Mode

Only works on PC with Windows®10/11

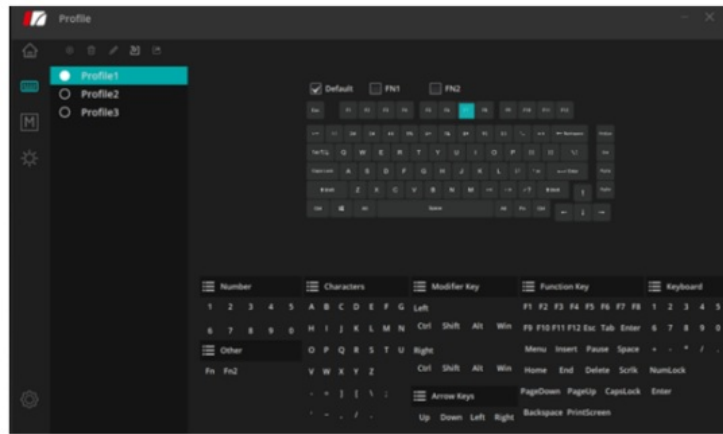
Go to Windows®10/11 Settings -> Devices -> Wheel for customization



SOFTWARE

The keyboard software requires the keyboard to be in wired mode, as it directly saves most of settings to the keyboard's onboard memory. Saved keyboard settings will be applied under both wired and wireless mode. Please visit iRocks official website to download and install latest software for backlight, macro, multimedia keys configuration and more.

1. Double click the installation software downloaded from iRocks, and follow the instructions.
2. Plug in the keyboard after installation, the software will start to identify your keyboard.
3. Launch the software. It will take some time to synchronize the memory parameter and setting of the **keyboard**.



Attention : The keyboard has to be switched to wired mode for software configuration.

TROUBLESHOOTING & CAUTIONS

If your wireless keyboard does not work normally :

- Ensure the keyboard is switched to the correct mode – wired BT or 2.4GHz wireless mode.
- Check the USB receiver is connected to your computer's USB port correctly – unplug and plug it back.
- Check if the keyboard has sufficient battery power.
- Metal objects close to or in between the keyboard may reduce wireless performance.
Try moving metal objects away from the keyboard
- This keyboard has 2.4GHz wireless connection, using USB 3.x and 2.4GHz wireless devices at the same time may cause radio frequency interference and affect normal functionality of the wireless device. Try to reduce radio interference of the USB 3.x device to your wireless keyboard, Plug the receiver into the USB 2.0 port or other locations as far away as possible from the USB 3.x port or use USB hub / USB extension cable to re-position your wireless receiver to a location away from the USB 3.x port.
- For saving power, the keyboard goes into sleep mode when it's not in use for a while. Press any key and wait for 1 to 3 seconds to bring the keyboard out of sleep mode.
- When not using the keyboard for an extended period, please switch off the keyboard and charge it periodically. Avoid letting the battery remain at low voltage for too long to ensure the battery's proper operation and extend its lifespan.
- Avoid putting your keyboard under high moisture condition or direct sun.
- Do not expose your keyboard to extreme temperatures, heat, fire or liquid.

WIRELESS ID PAIRING

The 2.4G wireless keyboard is pre-paired with included receiver before shipment. It saves the need to pair and is ready to use out of the box. When you need to re-pair your keyboard and receiver manually to prevent signal interference or other issues, Please follow the steps below :

1. Make sure the keyboard is in wireless mode.
2. Press and hold Fn + P for 3 seconds to enter pairing mode (P key will flash).
3. Unplug and plug the USB receiver back into your computer's USB port.
4. Move the keyboard to close the USB receiver within 15cm, the ID setting process will start automatically. (It will

take about 4~8 seconds)

5. Your keyboard should be ready to use
6. The above steps need to be completed within 1 minute, If the keyboard doesn't work properly, please remove the USB receiver from computer's USB port, then proceed to step 2~4 again.

FCC Warning 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.

The device has been evaluated to meet general RF exposure requirement.

The device can be used in portable exposure condition without restriction.



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IRK103R

Documents / Resources

 K103R Rechargeable Wireless Mechanical Keyboard 無線機械鍵盤 <small>Model No. : IRK103R 產品名稱: 無線機械鍵盤</small>	i-rocks K103R Rechargeable Wireless Mechanical Keyboard [pdf] Installation Guide IRK103R, DG103R, K103R Rechargeable Wireless Mechanical Keyboard, K103R, Rechargeable Wireless Mechanical Keyboard, Wireless Mechanical Keyboard, Mechanical Key board, Keyboard
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References

- [Rocks World - RRR](#)
- [i-rocks.com](#)
- [i-rocks.com.tw/uploads/root/IRK103R.JPG](#)
- [User Manual](#)

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