ProtoArc | ROYALAXE

R100

BT 3.0/BT 5.0/2.4G/Wired Three Mode Mechanical Gaming Keyboard

USER MANUAL

Function Overview

1. Fn+ ⟳ : Reset
2. Fn+ ☀ : Screen brightness −
3. Fn+ ☀ : Screen brightness +
4. Fn+ ⊞ : Multi screen display
5. Fn+ ⊠ : Back to the desktop
6. Fn+ ♫ : Media Player
7. Fn+ ⏯ : Play/Pause
8. Fn+ ⏮ : Prev song
9. Fn+ ⏭ : Next song
10. Fn+ 🔇 : Mute
11. Fn+ 🔉 : Volume −
12. Fn+ 🔊 : Volume +
13. Fn+ ⌨ : Input method switching
14. Fn+ → : RGB Light switch
15. Fn+ ☀ : Switch the RGB light mode
16. A : Caps lock indicator
    1 : Num lock indicator
    2 : Low battery indicator
17. Win/Mac System switch
18. OFF switch
    ⊞ Wired mode
    2.4G wireless mode
    BT Bluetooth mode
19. Fn+ ⑩ : Bluetooth mode 1
20. Fn+ ⑩ : Bluetooth mode 2
21. Fn+ ⑩ : Bluetooth mode 3
22. Fn+ --- : Monochromatic light switching
23. Fn+ ☼ : Decrease the RGB light frequency
24. Fn+ ☼ : Increase the RGB light frequency
25. Fn+ ☼ : Decrease the RGB light brightness
26. Fn+ ☼ : Increase the RGB light frequency
27. 2.4G receiver
28. Type-C charging/wired interface

Wired Connection

1. Insert the TYPE-C interface of the charging cable into the keyboard, and connect the USB interface to your computer.
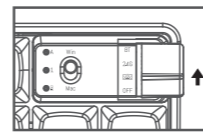
2. Switch to ⊞ Wired mode, 1 indicator will flash once and then go out, indicating a successful connection.

Note:
In TYPE-C wired mode, the "OFF" switch has no function.

2.4G Connection
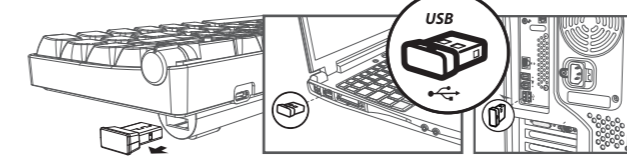
1. Take out the dongle and insert the dongle into the USB port of the computer.
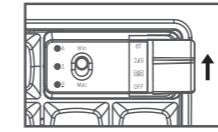
2. Switch to 2.4G mode, the 1 indicator will flash twice and then go off, indicating a successful connection.

Type − C USB connector using method

During the 2.4GHz usage, there may be latency caused by external signal interference, which can be reduced by using a Type−C to USB adapter to minimize the interference.
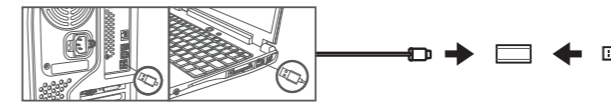
1) Insert the USB end of the cable into the USB port of the computer
2) Insert the Type−C end of the cable into the Type−C port of the adapter
3) Plug the USB receiver into the USB port of the adapter
4) Place the USB receiver close to the keyboard to minimize interference

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Bluetooth Connection
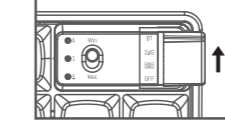
1. Switch to BT mode, the 1 indicator will flash three times and then go out.
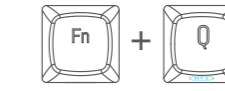
Take the connection to BT1 as an example as follows:

1. Long press the Fn + Q key about 3 to 5 seconds, the corresponding indicator light will flash quickly, and then enter the Bluetooth pairing mode.

2. Turn on the Bluetooth of your computer or other device, search and select "R100 BT3.0" or "R100 BT5.0" and start Bluetooth pairing until the connection is completed.

Notice:
1. Windows 7 and below system versions do not support Bluetooth 5.0;
2. The device number corresponding to Bluetooth 3.0 is R100 BT3.0, and the device number corresponding to Bluetooth 5.0 is R100 BT5.0

Mode Switching
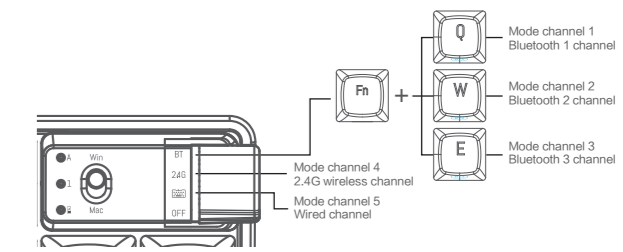
1. Mode channel: The keyboard has 5 channels, BT1, BT2, BT3, 2.4G, wired, and 5 devices can be connected at the same time.

2. Mode rotary knob: Turn the mode rotary knob between OFF/Wired/2.4G/BT. Press Fn+ Q, W or E to switch between different Bluetooth channels of BT1, BT2 and BT3.

iOS/Mac/Win layout switching

Switch to Windows system   Switch to MAC system

Note: the default setting is Windows layout.

Charging Guide

1. Low voltage reminder: 2 The light flashes in red, indicating low voltage.

2. When the charging cable's Type−C interface is plugged into the keyboard and the USB interface is connected to your computer, the charging process begins, and the light 2 stays red continuously.

3. 2 When the charging is complete, the light turns green.

Notice:
During the charging process, all modes are not controlled by the "ON/OFF" switch and are directly powered by the charging cable.

Custom Driver

For custom mode please go to the following URL to download official driver.
https://www.protoarc.com
Find "Support" from the Header Menu > "Driver Domwloads"
Note: The driver can only be used in wired and 2.4G mode.

Technical Specifications

−Connection method: wired / 2.4GHz / Bluetooth 3.0 / Bluetooth 5.0
−Wireless range: 2.4GHz(6.8W/15 meters), Bluetooth(33ft/10 meters)
−Working current and voltage: 5V, 500mA(max)
−Keyboard keys: 98
−Keycap material: PBT
−Mechanical switch lifespan: 100 million times
−Lithium battery capacity: 3000mAh
−Keyboard product size: 14.5" x 4.8" x 1.8"
−Weight: 2.2 lbs

System Requirement

1. 1 x USB port
2. Bluetooth 3.0/Bluetooth 5.0
3. Windows® 7,Windows® 8,Windows® 10 or later,
   Android 3.2 and above; Mac OS 10.5 or later.
Note: Multimedia functions are partially invalid in different OS versions.

Troubleshooting

1. Ensure that the product's USB wireless receiver is properly inserted into the computer's USB port.
2. Ensure that your computer meets the minimum system requirements.
3. If the product and the wireless receiver are beyond the effective connection distance, please reduce the distance between the product and the receiver.
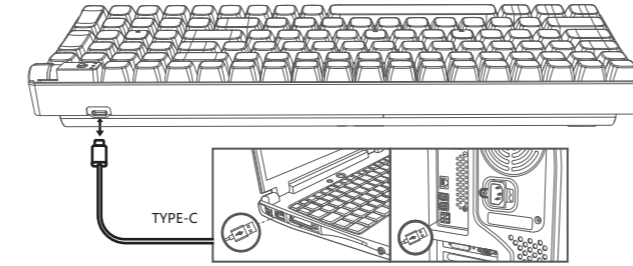
Attention

1. For cleaning, please use dry, soft cotton fabric, etc.
2. Do not fold or bend the product.
3. Do not forcefully disassemble the product.
4. Avoid getting the product wet, exposed to direct sunlight, or near open flames.
5. Do not directly rinse with water.
6. The keyboard is designed to be charged with a rated voltage of 5V based on the USB protocol. Please use the computer's USB interface for charging and avoid using a charger to charge the keyboard.
7. During use, prevent liquids from entering the internal components, as this may cause short circuits and electrical malfunctions.
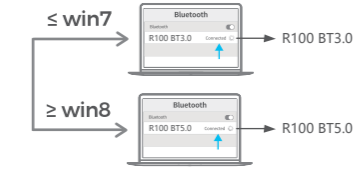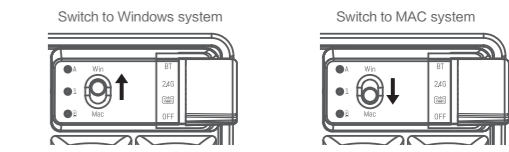

Switch Replacement

1
Use the keycap puller(included) to pull out the keycap.

2
Pull out the switch with the switch puller(included).

3
To install the new switch, align it with the corresponding holes on the keyboard.

4
Place the new switch on the socket.

5
Gently press the new switch into the socket.

6
Once the keycap is installed, it can be used normally.

Important Safety and Compliance Information

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Dear customer,

Thank you for purchasing ROYALAXE x ProtoArc products. To ensure you receive reliable after−sales service, please read the following instructions carefully. The product warranty period is valid for one year from the date of purchase (the date of receipt of the return receipt and the invoice date of the buyer).

The following situations are not covered by the after−sales service:

1. Inability to provide a valid warranty card and invoice (excluding those that can prove the product is within the valid warranty period) or any unauthorized alteration of the warranty.
2. The product model and serial number on the warranty card do not match the physical product or lack the distributor's seal.
3. Alteration, removal, or illegibility of the model number, serial number, or production date code on the product.
4. Defects resulting from excessive use outside the intended purpose, such as non−stop use in a commercial environment.
5. Damage caused by not using the product in accordance with the provided instructions.
6. Damage caused by the use of pirated software or computer viruses during use.
7. Damage caused by accidents, unauthorized repair, or service from unapproved vendors.
8. Damage caused by force majeure.
9. Product malfunction due to accidental disconnection, signal interference, or other influencing factors during use.
10. Normal wear and tear defects or defects in consumable parts by nature.
11. The product not functioning properly because it was not originally designed, manufactured, or approved for use in the country where you use the product, which might occur when you imported the product.
If the product functions you purchased are defective or cannot be used normally, please contact your local retailer.

The serial number filled in the form must match the actual product. This certificate is the primary document for after−sales service, so please keep it safe. If you need technical support, please present this warranty card, and we will provide quality and professional services.

Commodity Information	Name	
	Place of origin	
	Model No.	
	Serial No.	
User info.	Name	
	Address	
	Tel.	
	Postcode	
Sales info.	Retailer	
	Address	
	Tel.	
	Postcode	
	Sale date	
	Invoice No.	
	Stamp & Signature	
Maintenance info.	Maintenance company name	
	Address	
	Tel.	
	Postcode	
	Document No.	
	Date	
	Signature	

Dear customer the above information is to be filled in by the seller. Please cooperate with us. Thank you !
The following information shall be filled in by the maintenance agency and returned to the customer

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Customer Support :

Email: support@protoarc.com

Co−created by ProtoArc x RoyalAxe

Manufacturer: Dongguan Lingjie Electronics & Technology Co., Ltd
Address: No. 23 Zhenxing North Road, Xiegang Town,
Dongguan,Guangdong, China
Web:https://www.protoarc.com

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