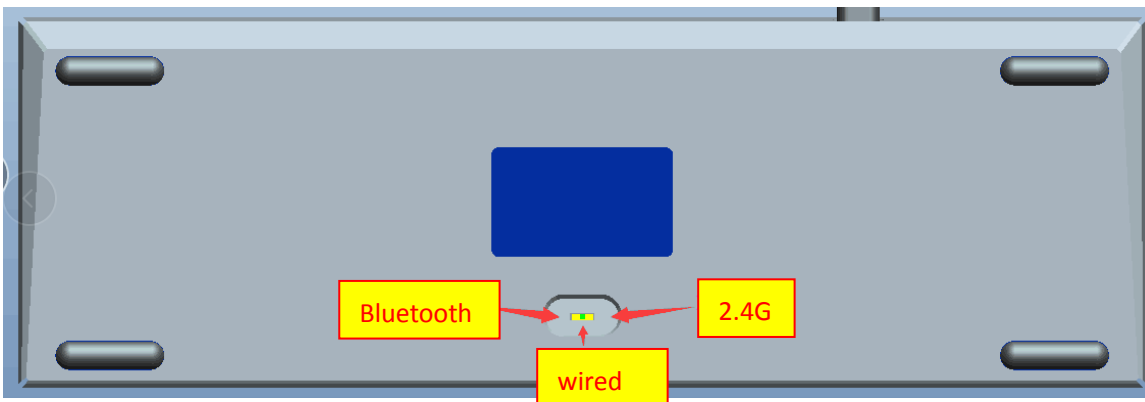# F12(68keys) 2.4G\Wired\Bluetooth

(3-in-1 solutions RGB mechanical keyboard function description)

68 keys keyboard, all keys an-ghosting in wired \ 2.4g \ Bluetooth mode，RGB backlight，5.0 and

3.0 double Bluetooth (can connect 3 Bluetooth devices), Lithium battery 2000mAh,
2.4g special USB receiver (factory 1 to 1 match), USB cable using type-c interface, switch
button (wired \ 2.4g \ Bluetooth) at the bottom.

- Switch button(wired \ 2.4g \ Bluetooth) ：

1. **Wireless code connection and indication：**

A. Bluetooth connection：

- 1）. Press and hold FN+Q for 3 seconds, and the ESC key with blue light will be flashing (3 times

  /S) to search the device. When the connection is successful, the light effect will be restored. If
  the connection is not successful, the keyboard will automatically exit in 90 seconds and go to
  sleep.
- 2).Press and hold FN+W for 3 seconds, same as above

- 3). Press and hold FN+E for 3 seconds, same as above

B. 2.4G Connection：

- 1).Press and hold FN+R for 3 seconds, and the ESC key with Green light will be flashing (3 times /S) to search the device. When the connection is successful, the light effect will be restored. If the connection is not successful, the keyboard will automatically exit in 90 seconds and go to sleep.

2）Device switch after Bluetooth matching is successful.

FN+W ，FN+E , Bluetooth connection can be with 3 devices at the same time, and you can switch to the latest connection by press FN+Q, and switch to other connection device by press FN+W & FN+E.

C. Re-connection：

The keyboard can be reconnected with device automatically which have been connected before if it backs to wireless bluetooth /2.4G mode from other mode, e.g. wired or off mode, and ESC key backlight(bluetooth in blue light and 2.4G in green light) will be flashing 1 time per second if re-connect successfully. (This state lasts for 90 seconds). If re-connection is failed, it will be back to previous backlight.

D. Charging indicator

The backspace key light in blue color will be flashed 1 time per second while the keyboard is charging , andit will be back to previous backlight.

E. Low voltage indicator：

1)The backspace key light in red color will be flashed 3 times per second while the battery voltage lower than 3.3V, then no button trigger within 10S and the low voltage indicator will be light out, Press any key to start the low pressure indicator.

F. Sleep mode ：

- When the keyboard is disconnected from the device, or the device fails to reconnect, it will go into sleep mode after 90 seconds.

- The keyboard is normally connected with the device, and it will go to sleep when there is no keyboard action for 120 seconds. You can press any key to trigger to end sleep mode.

G. Caps lock、Win Lock（Wired mode）

It will be in static backlight with red color when open "Caps lock, Win Lock" in Wired mode, and will go back to previous backlight when they be closed.

2. Backlight and effect

FN + Right CTRL : change the backlight mode

FN+ Right SHIFT : change the backlight color
FN+PGDN: go to the static backlight mode

Backlight brightness change （**FN+↑↓**）**：**

FN+↓brightness down, FN+↑brightness up, total 5 stages（100%—75%—50%—25%—OFF）. Default is 100%. The 4 arrow keys will be flashed 3 times when it at the lowest brightness or the highest brightness.

Backlight speed change： （**FN+←→**）

FN + ← low seed, FN + → fast speed, total 5 stages, the 3rd stage is default. The 4 arrow keys will be flashed 3 times when it at the lowest speed or the fastest speed.

3：The Cap Lock key can be changed into an FN key function, Rules are as follows：

● The "Cap Lock" key is the FN key. When you are pressing one of any other keys and pressing the "Cap Lock" key at the same time .
● It is the CAPLOCK key, When the " CAPLOCK " key is pressed alone.

Remark: This function can be turned on/off by pressing the key combination "FN+ Left Alt" 1 time (by default).

4.Combination key：

1)FN+ESC ：Press for 3 seconds to resume factory mode.

2)FN+Q\W\E: long time press 3 seconds to start the broadcast device, and short time press to enter the device switch.

3)FN+R: Long press for 3 seconds to search for receiver pairing (the factory has matched 1 to 1, no need to re-pair, only used in emergencies).

4)FN+Win : Win lock or unlock with memory function.

5) FN+BACK: check the battery, the keys from"0~1"10keys LED will be in green light (only these 10 lights are on, other lights are off), pls find the followings:

100%(4.2V) - from 1 to 0 total 10keys will be in green light；

75%(3.9V) - from 1 to 8 total 8keys will be in green light；

50%((3.6V) - from 1 to 5 total 5keys will be in green light；

25%((3.3V)- from 1 to 3 total 3keys will be in green light；

P``S: When you press the combination key, the power will be displayed. When you release the combination key, it will return to the backlight effect. Note that the power can only be checked when it is in wireless mode.

5. Other combination key

FN+1! : F1

FN+2@ : F2

FN+3# : F3

FN+4$: F4

FN+5% ： F5

FN+6^ : F6

FN+7& : F7

FN+8*: F8

FN+9（: F9

FN+0)：F10

FN+-_: F11

FN+=+: F12

FN+I:PRT

FN+O:SCR

FN+P:PAUSE

FN+J:INS

FN+K:HOME

FN+L:END

FN+ Right ALT: APP

FN+{[= Volume-

FN+}]= Volume+

FN+\|= Mute

6. Working current on Bluetooth or 2.4G mode.

● Connected device and all LED backlight on (in single white color) ≈230MA , default mode

≈165MA：
- Connected device and all LED backlight off   ≈23MA
- sleep mode ≈0.69MA (when no operation in 120 seconds)

7.Matters need attention：

1) When Bluetooth is broadcast, two Bluetooth names "BT5.0KB" and "BT3.0KB" will be displayed at the same time if the receiver is Bluetooth version 4.0 or above. In this case, "BT5.0KB" will be preferred for connection.When the receiver version of the device is below Bluetooth 4.0, only one Bluetooth name "BT3.0KB" will be displayed. Only "BT3.0KB" can be selected to connect.

2)Connection device, to observe the indicator light, must be in the case of light flash, equipment to search the bluetooth keyboard, if it is a slow flash state, representing the keyboard in the back to the state (this device will not be able to search the keyboard), will often click on code key combination (FN + 1 or 2 or 3), see the light flash to loosen, the equipment can normal search to the bluetooth keyboard

FCC ID: 2A4V8-F12

NOTE: 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

Changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

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.