Shenzhen Rongyuan Technology Co., Ltd. Address: Room 2901, 29th Floor, West Building, Building 6, Phase II, Tianan Yungu Industrial Park, Bantian Street, Longgang District, Shenzhen Tel: 0755-27209160	RY-1.0 Version	Rev： 1.0
	Dual-mode keyboard solution specification	

Customer name: Taiyi	ID : 140

Project name :	Taiyi RTK61BP Wired Bluetooth Dual Mode Optical Axis Gaming Keyboard
Chip :	YC3121+BK3632+ RY2621

Specifications :

Our engineering confirmation :

client confirmation

Chip/Driver	Check Sum	Version Number	Client Confirmation
YC3121	005a5491	V209	Client signature :
BK3632	D594BD	V0.0.1	
RY2621			

instruction manual :

Change records

Date	Chip	Check sum	Version Number	Reason
20211225	YC3121	005a5491	V209	Function optimization

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20211008	BK3632	D594BD	V0.0.1	Initial version
20211008	RY2621			Initial version

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	Three-mode keyboard solution specification	

Combination keys	Function
FN+ESC	~
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+Backspace	Query power
FN+Tab	Lock device channel
FN+Q	Bluetooth device one
FN+W	Bluetooth device two
FN+E	Bluetooth device three
FN+R	wired mode
FN+U	PRT SCR
FN+I	Scrlk
FN+O	Pause

FN+J	INS
FN+K	Home
FN+L	Pg Up
FN+M	Del
FN+,	END
FN+.	Pg Dn
FN+A	Pause/Play
FN+S	Previous Piece
FN+D	Next Track
FN+F	Mute
FN+G	Volume-
FN+H	Volume+
FN+Enter	Turn the backlight on or off
FN+P	Brightness-
FN+[	Brightness+
FN+]	Switch light effect color
FN+\	Switch light effect mode
FN+;	Speed-
FN+↑	?
FN+←	ALT_R
FN+↓	Menu
FN+→	CTRL_R
FN+'	Speed+

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FN+Space	Locking FN
FN+Win	Locking Win key
Ctrl+Alt+Q	Restore default settings

1.1.1 Battery indicator：

lithium battery(3.7V)：When the battery voltage is lower than 3.3V, the second indicator light on the keyboard flashes red quickly，the second indicator light is always on red when charging, and the indicator light is off when fully charged；press and hold FN+Backspace in wireless mode，the 1-0 key lights up to indicate how much power is left，the 1-0 keys are all on, indicating that the remaining power is 100%, and each indicator light represents 10% of the power (only valid in wireless mode)。

1.1.2 Bluetooth pairing：

After the keyboard is turned on, press the FN+Q/W/E key combination for 3S to enter the Bluetooth mode, and then long press the FN+Q/W/E key combination for 3S, the keyboard enters the pairing state, the indicator light flashes quickly, and the indicator light is connected to the device always on for 10S, if no device is connected, the indicator goes off and the keyboard goes to sleep.

1.1.3 Link back instruction：

After the keyboard is powered on or wakes up from sleep, it will only reconnect to the current device; if the reconnection fails, it will go to sleep, and after the keypress wakes up, it will continue to reconnect.

The indicator light flashes slowly during the Bluetooth reconnection process, and the indicator light is always on for 10S after connecting. During the reconnection process, press the button to extend the reconnection time, and it will be counted within 10S from releasing the button. If the reconnection fails, the indicator light goes out and the keyboard goes to sleep. , if the pairing is successful and then enter the pairing mode again, after the pairing fails, the keyboard will go to sleep but the last successful pairing data will be retained.

1.1.4 Backlight mode：

Press the FN+\ key combination to switch the light mode sequence: light wave (default), constant light, breathing, ripple, raindrop, serpentine, follow, convergence, neon, laser, sine wave, flowers blooming, colorful spring surging, peak circuit , slanting wind and drizzle.

The backlight speed cannot be adjusted in the always-on mode; the backlight color cannot be adjusted in neon and blooming flowers, and the other backlight modes can adjust the speed, brightness, color, and brightness in a total of five levels, with the default maximum brightness; a total of 5 levels in speed, and the default speed in the third level , the color order is: colorful, ice blue, red, green, blue, orange, purple, yellow.

1.1.5 Device name:

      Displayed after wired connection：**Gaming Keyboard**
      Displayed after BT3.0 connection：**RTK61BP 3.0**
      Displayed after BT5.0 connection：**RTK61BP 5.0**

1.1.6 use distance：＞10m 360° (Straight line without occlusion)

1.1.7 Bluetooth connection time：Less than or equal to 5S

1.1.8 compatibility：

Bluetooth: Compatible with all Bluetooth Dongles on the market, the notebook has a built-in Bluetooth module, and Bluetooth 5.0 needs to support WIN8 or above systems, tablets and mobile phones, etc.

2.4G：Compatible with Windows 2000 and above and MAC operating systems according to the usb standard protocol;

1.1.9 Electrical Specifications(for reference only)

recharging current	524.1mA
Wired Always-On Mode Current	131.3mA
Bluetooth 3.0 always-on mode current	186.4mA
Bluetooth 3.0 sleep current	3.9-4.5mA
Bluetooth 5.0 always-on mode current	193.4mA
Bluetooth 5.0 sleep current	3.9-4.5mA
Turn off the backlight current	44.6mA

1.1.10 Multi-key no-overrun: All modes and devices support full-key overrun

1.1.11 Operating Voltage：3.7V

1.1.12 Working Mode: Wired, Bluetooth 3.0, Bluetooth 5.0

1.1.13 RF power: When the keyboard end is working, the RF power is EDR: 3.692dbm,BLE: 2.272dbm;Crystal is 16MHz.

1.1.14 Working frequency：2402MHz~2480MHz

1.1.15 system requirement

interface	USB
operating system:	Compatible with Windows 2000 and above and MAC operating systems, BLE supports WIN8 or above systems

FCC WARNING

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.

Any changes or modifications not expressly approved by the party responsible for compliance

could void the user's authority to operate the equipment.

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.

The device has been evaluated to meet general RF exposure requirement. The device can be used in por table exposure condition without restriction

FCC ID: **2A5E3-RTK61BP**