

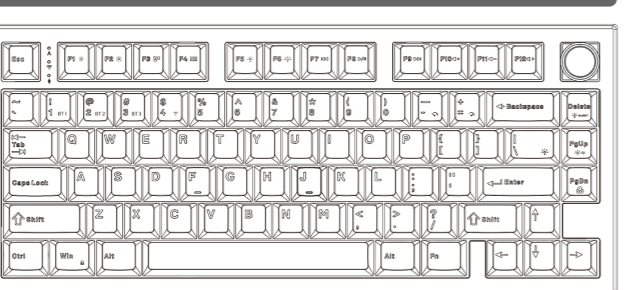


# HANAN HE

79 KEYS HALL EFFECT WIRELESS GAMING KEYBOARD

<https://rakk.ph>

## RAKK HANAN HE (Hall Effect)



- Indicator LED
  - Caps Lock
  - Connectivity
    - BT - FN+1 (blue) / FN+2 (purple) / FN+3 (cyan)
    - 2.4G - FN+4 (green)
    - Wired - FN+5 (white)
  - Battery
    - Red = low voltage
    - Flashing green = charging
    - Steady green = full
- FN Key Combination Functions.
  - Power-on white light marquee. After the marquee completes, the backlight returns to the previous lighting mode. The button backlight defaults to left-right wave pattern.

### 2.2 FN Combination Function:

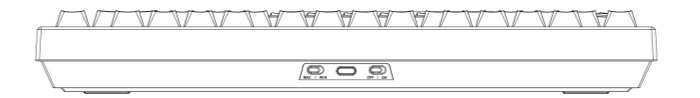
Trigger Method	Button Functions	
	Win	Mac
F1	F1	Lower the screen brightness
F2	F2	Increase screen brightness
F3	F3	Mission Control
F4	F4	LaunchPad
F5	F5	Reduce backlight brightness
F6	F6	Increase backlight brightness
F7	F7	Previous track
F8	F8	Pause/Play
F9	F9	The next song
F10	F10	Mute
F11	F11	Volume -
F12	F12	Volume +

Multifunctional 2	FN+FN	Function	FN
	FN+F1	Lower the screen brightness	F1
	FN+F2	Increase screen brightness	F2
	FN+F3	Show multiple task windows (Win+tab)	F3
	FN+F4	File Explorer (Win+E)	F4
	FN+F5	Reduce backlight brightness	F5
	FN+F6	Increase backlight brightness	F6
	FN+F7	Previous track	F7
	FN+F8	Pause/Play	F8
	FN+F9	the next song	F9
	FN+F10	Mute	F10
	FN+F11	Volume -	F11
	FN+F12	Volume+	F12

Combination key	WIN Function	IOS Function	Description
ESC	Reset 3S	Reset 3S (OS)	The keyboard's white light flashes three times
DEL	ON/OFF backlight	ON/OFF backlight	
PgUp	Light direction switching	Light direction switching	
PgDn	Adjust the light color	Adjust the light color	
F6	Increase the light brightness	Increase the light brightness	When the 5th level is adjusted to the extreme position, the CAPS flashes
F5	Dim the light brightness	Dim the light brightness	When the 5th level is adjusted to the extreme position, the CAPS flashes
1!	BT1	BT1	Blue light flashing
2@	BT2	BT2	Purple light flashing
3#	BT3	BT3	Cyan light flashing
4\$	2.4G	2.4G	Green light flashing
5%	USB	USB	Plugging in the USB cable defaults to wired mode
=+	Increase light effect speed	Increase light effect speed	When the 5th level is adjusted to the extreme position, the CAPS flashes
=-	Decrease light effect speed	Decrease light effect speed	When the 5th level is adjusted to the extreme position, the CAPS flashes
\	Backlight effect switching	Backlight effect switching	Change this key to switch light effects
WIN-L	Lock WIN	No lock WIN	The key indicator LED emits white light

### 3. Pattern Setting and Pairing

3.1. Two toggle switches on both ends. The left one is the power switch: slide it to the left to ON (power on) for wireless mode, and to the right to OFF (power off). The right one is the system switching switch: slide it to the left for MAC, and to the right for WIN.



#### 3.3.2 Mode switching:

- FN+1 BT1;
- FN+2 BT2 ;
- FN+3 BT3 ;
- FN+4 RF2.4G ;
- FN+5 Wired mode

3.3 When switching to wired mode by toggling the switch: Bluetooth and 2.4G connections cannot be established in any situation; additionally, the backlight and functions will shut down immediately if no USB cable is connected to the computer.

3.4 After 3 minutes of no keyboard activity in wireless mode, the keyboard automatically enters Level 1 sleep. At this point, the lights turn off, and Bluetooth or 2.4G remains connected. Pressing a key wakes it up with key output. If the keyboard remains inactive for 10 minutes, it enters Level 2 sleep. In this state, the keyboard's wireless connection is disconnected. The first key press does not produce output; the keyboard automatically reconnects. Only after a successful reconnection will key output be available.

3.5 The operating current is less than 250mA. In the first-level sleep mode, the current is less than 500µA. In the second-level sleep state, the current is less than 30µA.

- 3.6 Supports wireless mode switching, pairing, and coding in wireless mode:
- Bluetooth: Fn+1 or 2 or 3 (Short press to switch, long press to pair). It blinks rapidly during pairing, slowly during reconnection, and the independent Bluetooth indicator light stays on for 2 seconds after a successful connection before returning to the overall backlight effect. If pairing is not successful within 1 minute, it enters sleep mode; if reconnection is not successful within 20 seconds, it enters sleep mode
  - 2.4G: Fn+4 (short press to switch, long press to pair) The second indicator light is green. It blinks rapidly during pairing and slowly during reconnection. After successful connection, the Bluetooth independent indicator light stays on for a moment before returning to the overall backlight effect. If pairing is not successful within 1 minute, it enters sleep mode; if reconnection is not successful within 20 seconds, it enters sleep mode.
  - Wired Mode: FN+5 (short press to switch), white indicator light

#### 4. Power Indicator Light: Lithium-ion Battery (3.7V)

- In Charging Mode:
- The third indicator light flashing green indicates charging in progress; a solid green light indicates the battery is fully charged.
  - Battery Power Check Mode:
    - FN + Right ALT - Displays power level as follows:
      - When FN + Right ALT is pressed, numbers 1-0 indicate power level; the indicator light turns off when released.
      - 100%-51% Power: Green light on
      - 50%-31% Power: Blue light on
      - Below 30%: Red light on

4.3 Low Power Mode: Below 10%, the third indicator light flashes red at 1Hz directly, indicating low battery and requiring charging.

5. Polling Rate
  - Wired polling rate: 8K hz
  - 2.4G polling rate: 1K hz
  - Bluetooth polling rate: 125 hz
6. Scan Rate: 16K Full-Range Scan Rate, 128K Scan Sampling Rate
7. Rapid Trigger: adjustable from 0.01mm to 2.5mm
8. Travel: adjustable from 0.1mm to 3.0mm
9. Dead Zone: 0 Dead Zone
10. Latency: 0.125ms

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