



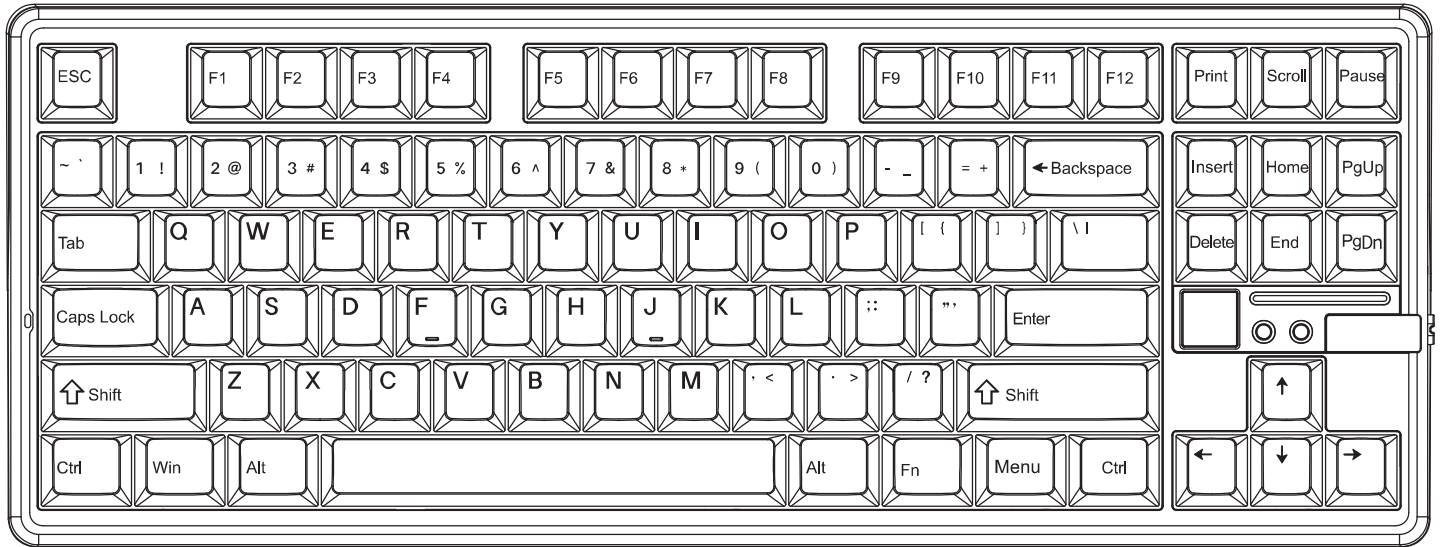
# ***F87*** ***PRO V2***

## Mechanical Keyboard

Product Manual

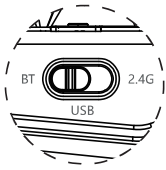
# Keyboard Function Description

01

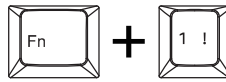


- Fashionable exterior design, Gasket structure, delicate and soft touch.
- Humanized keyboard design, combined with Fn to add a series of commonly used shortcut function keys.
- Keycaps (optional) and mechanical switches (optional) can be plugged in and unplugged, and users can also purchase various brands of switches and personalized keycaps on the market for free DIY.
- The keyboard is made of solid materials and has sensitive key response.
- The right side of the keyboard is equipped with a 7 \* 7 Matrix LED , which has various functions and can /be used with DIY drivers.
- Independent storage receiver.
- Keyboard polling rate: wired mode 8000Hz, 2.4G mode 1000Hz (8+8version: 8000Hz) , BT mode 125Hz.
- Built in 2 5000mAh large capacity lithium batteries for cyclic charging, with power switch, environmentally friendly and energy-saving, worry free and cost-effective, effectively extending battery life.
- Type C connectivity is more reliable, performance is more stable, and charging is faster.

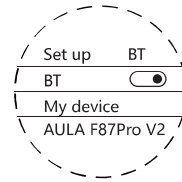
## BT Connection Instructions



Turn the right toggle switch to BT mode



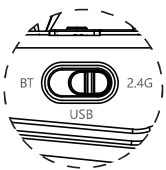
Long press FN+1, the blue light will flash.



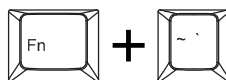
Search for "AULA-F87Pro V2D" on the device, click connect, and the blue light will light up for 2s if the connection is successful.

- Long press FN+1 to switch AULA-F87Pro V2D-1. When the blue indicator channel broadcasts, the blue light will flash and the blue light will light up for 2s when reconnecting/connecting.
- Long press FN+2 to switch AULA-F87Pro V2D-2. When the blue indicator channel broadcasts, the blue light will flash and the blue light will light up for 2s when reconnecting/connecting.
- Long press FN+3 to switch AULA-F87Pro V2D-3. When the blue indicator channel broadcasts, the blue light will flash and the blue light will light up for 2s when reconnecting/connecting.
- 8+1 version BT name: AULA-F87Pro V2D
- 8+8 version BT name: AULA-F87Pro V2C
- After holding down FN, it will prompt that the current 3 mode, Bluetooth 3 channel, and 4 system corresponding buttons are all lit with white lights. Release to restore the light effect.
- After restoring the default settings, the previously connected Bluetooth device will not be cleared.

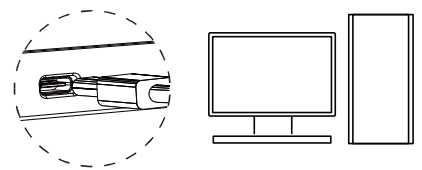
## 2.4G Connection Instructions



Turn the right toggle switch to 2.4G mode, and the blue light on the `~key will flash slowly



Press and hold the FN+`~key for 3s, and the green light will flash rapidly to enter the pairing state



At this point, the receiver is inserted to complete the code matching. The blue light on the `~key lights up for 2s, indicating a successful 2.4G connection.

Attention: When connecting to 2.4G, search first and then plug in the receiver.  
The factory default code has been matched.

Wired Connection Instructions

04

- Turn the right toggle switch to wired mode, and the white light on key 4 will light up for 2s.

Backlight effect adjustment

05

| FN+\   key combination to switch 22 RGB lighting effects |                    |                                 |                    |                  |
|----------------------------------------------------------|--------------------|---------------------------------|--------------------|------------------|
| Wave Follow<br>(Default)                                 | Winding Path       | Flicker Strike                  | One Key, Two Goals | Ripple Pulse     |
| Continuous Flow                                          | Stacked Peaks      | Drizzle Glow                    | Shuttle Light      | Rainbow Pinwheel |
| Colorful Convergence                                     | Layered Neon Glow  | Static Constant Light           | Mono Light         | Single Off       |
| Twinkling Stars                                          | Whirling Snow      | Flowers Contending<br>in Beauty | Dynamic Breath     | Spectrum Loop    |
| Colorful Spring Surge                                    | Colorful Crosswise |                                 |                    |                  |

- Cooperate with driving with music rhythm RGB lighting effects.
- The wired mode and 2.4G are combined to drive each key with custom functions and macro definitions. The driver can customize over 16 million colors.

Light Adjustment

|      |       |                                   |      |   |             |
|------|-------|-----------------------------------|------|---|-------------|
| Fn + | \     | Switch lighting effects           | Fn + | ↓ | brightness- |
|      | TAB   | Switch the lighting effect colors |      | ↑ | brightness+ |
|      | Z     | Switch GIF effects                |      | ← | Speed-      |
|      | Enter | Turn on/off all lights            |      | → | Speed+      |

- Fn+Tab key cycle switches the light effect colors to RGB, red, orange, yellow, green, cyan, blue, purple, and white.

## Light adjustment

|    |   |         |                               |
|----|---|---------|-------------------------------|
| Fn | + | R-Shift | Switch side-light mode        |
|    |   | >.      | Switch side-light color block |
|    |   | /?      | Switch side-light colors      |

|    |   |        |                                    |
|----|---|--------|------------------------------------|
| Fn | + | R-Alt  | Cycle Switch side-light brightness |
|    |   | R-Ctrl | Cycle Switch side-light speed      |

- Side light strip light effect: Flowing light, Neon light, Breathing, Constant brightness, Agility (default), Chain reaction, and Shutdown.
- Switch side light colors: Red, Orange, Yellow, Green, Cyan, Blue, Purple, White, Default Red.

Note: The adjustment function of the side light strip is limited to the Grandmaster version and the Super God version only

## Atmosphere lighting Adjustment

Fn + <sup>L</sup> Shift Switch atmosphere lighting effects[Always on, off, flowing light (default), neon, breathing]

Fn + <sup>L</sup> Ctrl Switch atmosphere lights speed, There are a total of six levels, with the default being the fifth level.

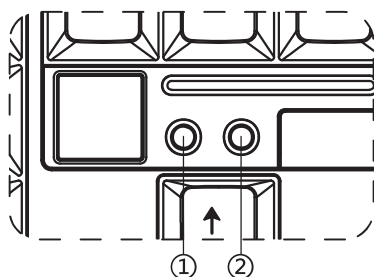
Fn + <sup>L</sup> Alt Switch atmosphere lights brightness, There are a total of five levels, with the default being the fifth level.

Fn + X Switch atmosphere lights color, (Red, Orange, Yellow, Green, Blue, Purple, White), default red.

## Matrix LED

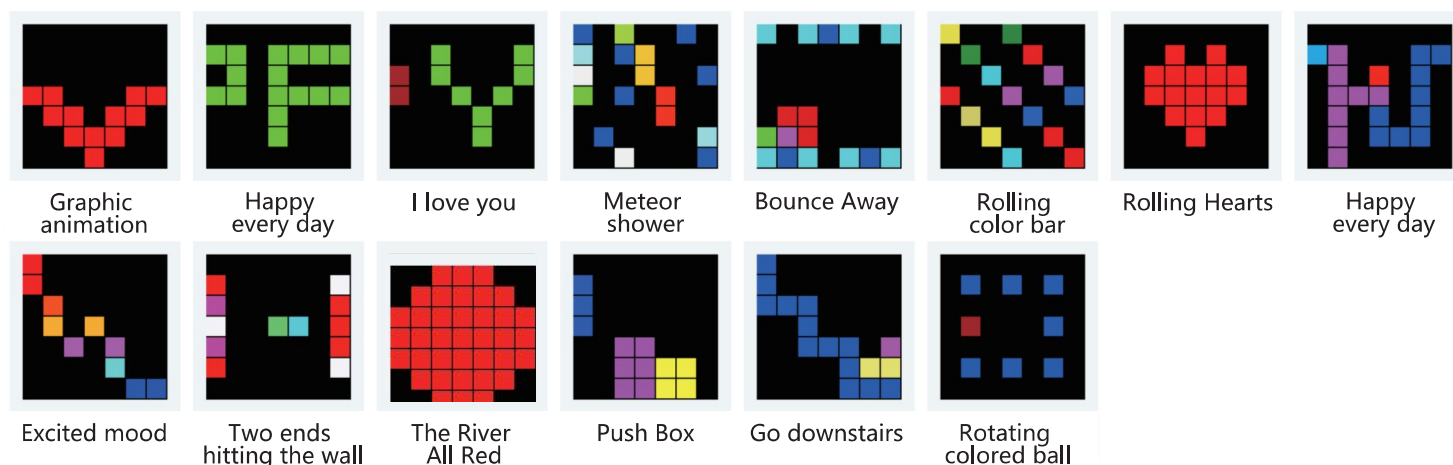
|    |   |      |                                    |
|----|---|------|------------------------------------|
| Fn | + | Ins  | Open/Exit Dot Matrix LED Test Mode |
|    |   | Del  | Change Matrix LED Test Color       |
|    |   | PgUp | Matrix LED speed+                  |

|    |   |           |                        |
|----|---|-----------|------------------------|
| Fn | + | Home      | Matrix LED brightness+ |
|    |   | End       | Matrix LED brightness- |
|    |   | Backspace | Turn on/off Matrix LED |
|    |   | PgDn      | Matrix LED speed-      |



- Press and hold button ① for 3s to enter multimedia mode. At this point, the volume icon will be displayed on the screen. Press button ① to increase the volume, then press button ② to increase the volume. After pressing, the corresponding animation response will appear.

- Press and hold the ② key for 3s to enter the light brightness adjustment mode. Press and hold the ① key for brightness - or the ② key for brightness+, but there will be no animation response.
- ① + ② Simultaneously press to restore to default mode (key mode), and press the ① key to switch between key mode, animation mode, and pickup light mode on the dot matrix screen. Press the ② key to switch between 5 ambient lighting effects: constant light, off, flowing light (default), neon light, and breathing light (in button mode and pickup light mode), and switch animation in animation mode.
- There are 15 preset animations in the dot matrix screen animation mode at the factory.



- Enter the driver to customize the animation application to the keyboard dot matrix screen.
- Character mode: optional display of character colors, with the base color replaceable for editing,  
Pick up light mode: Three modes to choose from  
Pattern mode: Customizable programming screen displays pattern animations,  
This function is not available under 2.4G driver.



One click access to the driver If you can't get in, you can switch to the English input method.

Driver address: <https://hev.aulacn.com/>

## Lamp effect setting:

- The main backlight can be DIY programmed to set its own lighting effect.
- **Main interface lighting effect:** keyboard main backlight effect switching
- **Custom lighting effect:** Any key can customize the color lighting effect

Effect

Music

GIF light Effect

GIF built-in lighting effect

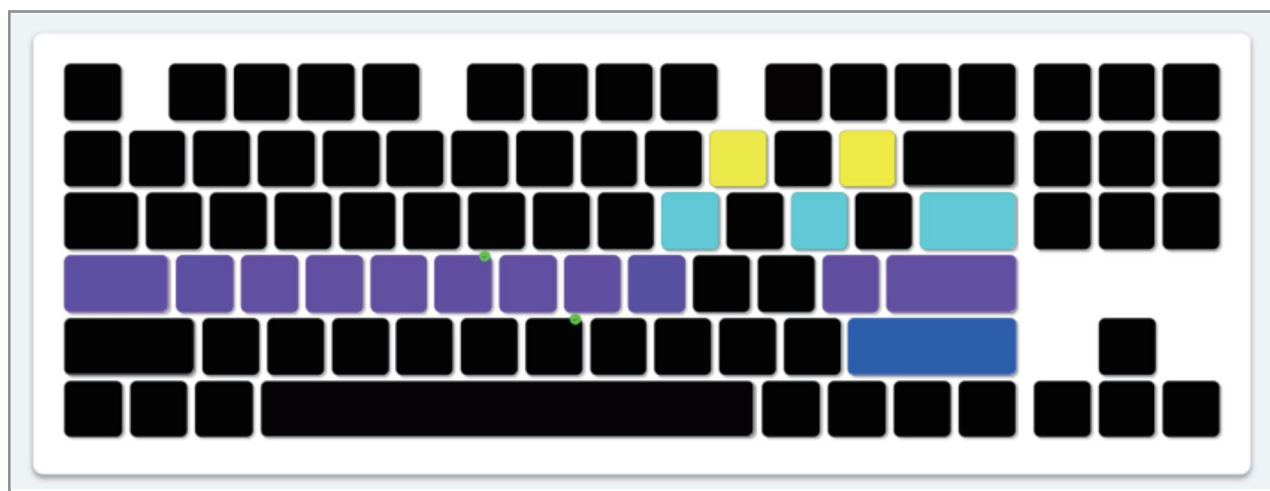
+ Add

+ APP

Heart rate curve

Copy

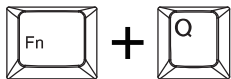
GIF Customize



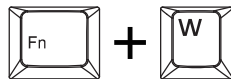
- Driver customizable keys: Normal layer keys can be replaced with any key, while FN layer keys can be edited with specified key combinations.
- Drive music rhythm: Play music under the drive, the keyboard light effect jumps with the music, various modes can be selected, the main backlight background color setting, and three modes can be selected.
- Driver macro settings: Edit various combinations of long and short keys to achieve multifunctional key combinations with just one click
- Advanced key settings: various advanced key settings, COCD\MT\TGL\CB

- Interface language settings: Multiple interface language settings, including English, Simplified Chinese, Traditional Chinese, Japanese, Korean

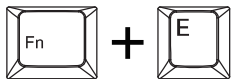
## System mode switching



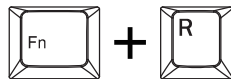
Android system



Windows system

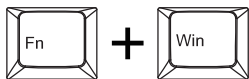


Mac system



iOS system

- After switching to Mac/iOS system, WIN and ALT positions are swapped, and WIN is not locked on Android Q, Mac, and iOS.

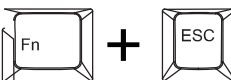


Windows system

- Switch to Mac/iOS system key remapping (without locking WIN keys as shown in the table below):

| WIN/Android | L-WIN    | L-ALT     | R-ALT     | R-CTRL   |
|-------------|----------|-----------|-----------|----------|
| Mac/iOS     | L-Option | L-Command | R-Command | R-Option |

## Other Shortcut Key Description



Long press for 3s to restore default settings

- FN+Q=Android system (Q key red light flashes for 3s), F-zone single press function and F-zone FN combination function.

|  |   |    |                       |
|--|---|----|-----------------------|
|  | + | F1 | Screen Brightness-    |
|  |   | F2 | Screen Brightness+    |
|  |   | F3 | Convert Window        |
|  |   | F4 | Return to desktop     |
|  |   | F5 | Backlight brightness- |

|  |   |     |                       |
|--|---|-----|-----------------------|
|  | + | F6  | Backlight brightness+ |
|  |   | F7  | Previous song         |
|  |   | F8  | Play/Pause            |
|  |   | F9  | Next song             |
|  |   | F10 | Mute                  |

- FN+W=Windows system (Q key red light flashes for 3s), F-zone single press function and F-zone FN combination function.

|      |    |                            |      |     |               |
|------|----|----------------------------|------|-----|---------------|
| Fn + | F1 | Homepage                   | Fn + | F7  | Previous song |
|      | F2 | Mail                       |      | F8  | Play/Pause    |
|      | F3 | Convert Window             |      | F9  | Next song     |
|      | F4 | Explorer                   |      | F10 | Mute          |
|      | F5 | Main backlight brightness- |      | F11 | Volume-       |
|      | F6 | Main backlight brightness+ |      | F12 | Volume+       |

- FN+E=Mac system (E key red light flashes for 3), F-zone single press function and F-zone FN combination function.

|      |    |                       |      |     |               |
|------|----|-----------------------|------|-----|---------------|
| Fn + | F1 | Screen Brightness-    | Fn + | F7  | Previous song |
|      | F2 | Screen Brightness+    |      | F8  | Play/Pause    |
|      | F3 | Convert Window        |      | F9  | Next song     |
|      | F4 | Return to desktop     |      | F10 | Mute          |
|      | F5 | Backlight brightness- |      | F11 | Volume+       |
|      | F6 | Backlight brightness+ |      | F12 | Volume+       |

- FN+E=IOS system (R key red light flashes for 3), F-zone single press function and F-zone FN combination function.

|      |    |                    |      |    |                    |
|------|----|--------------------|------|----|--------------------|
| Fn + | F1 | Screen Brightness- | Fn + | F2 | Screen Brightness+ |
|------|----|--------------------|------|----|--------------------|

|      |    |                       |      |     |            |
|------|----|-----------------------|------|-----|------------|
| Fn + | F3 | Convert Window        | Fn + | F8  | Play/Pause |
|      | F4 | Return to desktop     |      | F9  | Next song  |
|      | F5 | Backlight brightness- |      | F10 | Mute       |
|      | F6 | Backlight brightness+ |      | F11 | Volume+    |
|      | F7 | Previous song         |      | F12 | Volume+    |

Sleep mode description

10

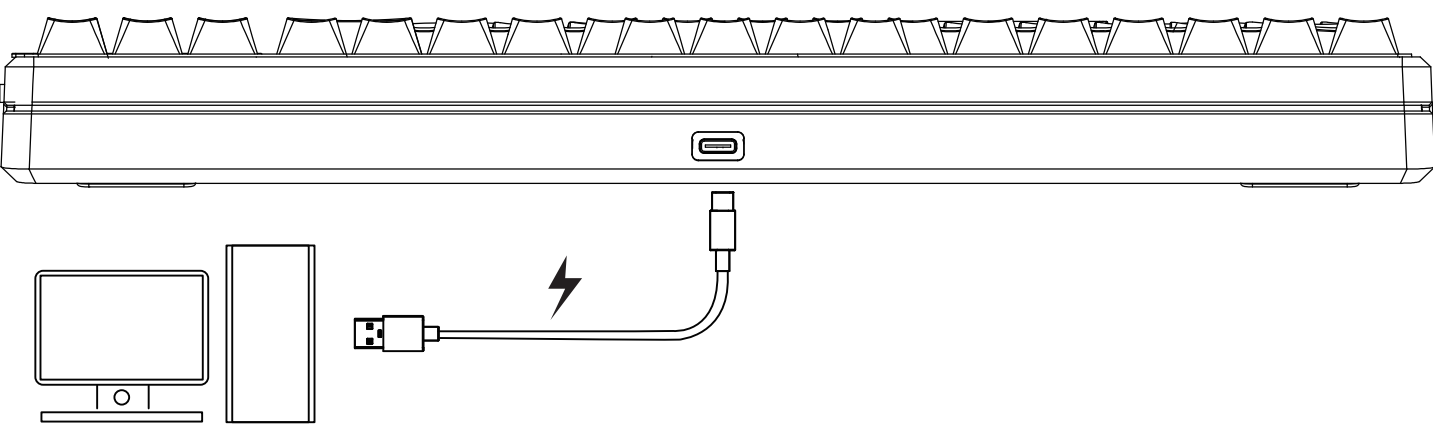
- In BT/2.4G mode, if there is no operation for 1 minute, it will automatically enter power-saving mode. Click the key to wake up the keyboard.

Note: The driver can set the sleep time.

- Standby time: Approximately ≥9300h

Charging Instructions

11



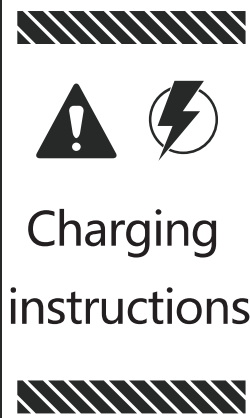


+



Check battery level (When disconnecting the USB cable)

- Fn+B: Check the atmosphere light bar to see the remaining battery level. The five green atmosphere lights from left to right represent 20%, 40%, 60%, 80%, and 100% battery level respectively (with 20% in red).
- When the keyboard battery is too low, the red ambient light flashes.  
(After connecting Bluetooth on the computer, you can also check the battery level.)
- When the keyboard is charged, the ambient light flashes green from left to right, and enters the current setting light effect after being fully charged.



1. It is recommended to use only the computer USB port to charge the keyboard.
2. Do not use fast-charging cell phone chargers to charge the keyboard.
3. Do not use inferior non-standard power adapter to charge the keyboard.
4. Do not use over-voltage and over-current power adapter to charge the keyboard.
5. Please keep away from high temperature equipment when charging
6. Please turn off the power switch if it is not used for a long time.

**The above charging instructions also apply to other devices with charging function (keyboard/mouse/headphones/speakers, etc.)**

# Product Parameters



- Number of keys: 87
- FN key: Multifunctional
- Product size: 362.47(L) × 137.96(W) × 41.72(H) ±0.5 mm
- Product weight: Approx. 1089 g (excluding cable/receiver) / Approx. 1136 g (including cable/receiver)
- Rated voltage: DC 3.7 V (4.2 V when fully charged)
- Rated current: ≤160 mA @ 3.7 V (default light effect) / ≤17 mA (with lights off)
- Charging voltage/current: DC 5 V  1500 mA
- Battery capacity: 10000 mAh rechargeable lithium battery
- Battery life: ≥75 h (default light effect) / ≥700 h (with lights off)

- Computer system requirements:

Wired/2.4G mode: Windows ALL operating systems including WIN XP, WIN7, WIN8, WIN10 (Drivers may be required for WIN95 and WIN98)

Wired mode/2.4G receiver: Requires USB 1.1 port or above

BT mode: MAC computers, Android phones/tablets, iOS phones/tablets with BT3.0, BLE4.0, BLE5.0 and above hardware

- Hardware connection:

Wired USB/2.4G receiver supports hot plugging (plug and play)

Switch to the corresponding BT channel and pair with the BT device to use

- 키 수: 87
- FN 키: 다기능
- 제품 크기: 362.47(L) × 137.96(W) × 41.72(H) ±0.5 mm
- 제품 무게: 약 1089 g (케이블/리시버 제외) / 약 1136 g (케이블/리시버 포함)
- 정격 전압: DC 3.7 V (완전 충전 시 4.2 V)
- 정격 전류: ≤160 mA @ 3.7 V (기본 조명 효과) / ≤17 mA (조명 끄)
- 충전 전압/전류: DC 5 V  1500 mA
- 배터리 용량: 10000 mAh 충전식 리튬 배터리
- 배터리 수명: ≥75 h (기본 조명 효과) / ≥700 h (조명 끄)

### • 컴퓨터 시스템 요구 사항:

유선/2.4G 모드: 모든 Windows 운영 체제 (WIN XP, WIN7, WIN8, WIN10 포함)  
(WIN95 및 WIN98은 드라이버가 필요할 수 있음)

유선 모드/2.4G 리시버: USB 1.1 이상 포트 필요

BT 모드: MAC 컴퓨터, Android 휴대폰/태블릿, iOS 휴대폰/태블릿 (BT3.0, BLE4.0, BLE5.0 이상 하드웨어 지원)

### • 하드웨어 연결:

유선 USB/2.4G 리시버 핫플러그 지원 (플러그 앤 플레이)

해당 BT 채널로 전환 후 BT 기기와 페어링하여 사용

# Parâmetros do produto



- Número de teclas: 87
  - Tecla FN: Multifuncional
  - Tamanho do produto: 362.47(L) × 137.96(W) × 41.72(H) ±0.5 mm
  - Peso do produto: Aprox. 1089 g (sem cabo/receptor) / Aprox. 1136 g (com cabo/receptor)
  - Tensão nominal: DC 3.7 V (4.2 V totalmente carregado)
  - Corrente nominal: ≤160 mA @ 3.7 V (efeito de luz padrão) / ≤17 mA (com luzes desligadas)
  - Tensão/corrente de carregamento: DC 5 V **===** 1500 mA
  - Capacidade da bateria: 10000 mAh bateria de lítio recarregável
  - Duração da bateria: ≥75 h (efeito de luz padrão) / ≥700 h (com luzes desligadas)
- Requisitos do sistema do computador:

Modo com fio/2.4G: Todos os sistemas operacionais Windows, incluindo WIN XP, WIN7, WIN8, WIN10

(Drivers podem ser necessários para WIN95 e WIN98)

Modo com fio/receptor 2.4G: Requer porta USB 1.1 ou superior

Modo BT: Computadores MAC, celulares/tablets Android, celulares/tablets iOS com BT3.0, BLE4.0, BLE5.0 ou superior

- Conexão de hardware:

USB com fio/receptor 2.4G suporta hot plugging (plug and play)

Troque para o canal BT correspondente e emparelhe com o dispositivo BT para usar

# Parámetros del producto



- Número de teclas: 87
- Tecla FN: Multifuncional
- Tamaño del producto: 362.47(L) × 137.96(W) × 41.72(H) ±0.5 mm
- Peso del producto: Aprox. 1089 g (sin cable/receptor) / Aprox. 1136 g (con cable/receptor)
- Voltaje nominal: DC 3.7 V (4.2 V completamente cargado)
- Corriente nominal: ≤160 mA @ 3.7 V (efecto de luz predeterminado) / ≤17 mA (con luces apagadas)
- Voltaje/corriente de carga: DC 5 V  $\Rightarrow$  1500 mA
- Capacidad de la batería: 10000 mAh batería de litio recargable
- Duración de la batería: ≥75 h (efecto de luz predeterminado) / ≥700 h (con luces apagadas)

- Requisitos del sistema informático:

Modo con cable/2.4G: Todos los sistemas operativos Windows, incluyendo WIN XP, WIN7, WIN8, WIN10

(Los controladores pueden ser necesarios para WIN95 y WIN98)

Modo con cable/receptor 2.4G: Requiere puerto USB 1.1 o superior

Modo BT: Computadoras MAC, teléfonos/tabletas Android, teléfonos/tabletas iOS con BT3.0, BLE4.0, BLE5.0 o superior

- Conexión de hardware:

USB con cable/receptor 2.4G admite conexión en caliente (plug and play)

Cambie al canal BT correspondiente y empareje con el dispositivo BT para usar

- Anzahl der Tasten: 87
- FN-Taste: Multifunktional
- Produktgröße: 362.47(L) × 137.96(B) × 41.72(H) ±0.5 mm
- Produktgewicht: Ca. 1089 g (ohne Kabel/Empfänger) / Ca. 1136 g (mit Kabel/Empfänger)
- Nennspannung: DC 3.7 V (4.2 V bei voller Ladung)
- Nennstrom: ≤160 mA @ 3.7 V (Standardlichteffekt) / ≤17 mA (bei ausgeschaltetem Licht)
- Lade-spannung/-strom: DC 5 V  $\overline{=}$  1500 mA
- Batteriekapazität: 10000 mAh wiederaufladbare Lithium-Batterie
- Akkulaufzeit: ≥75 h (Standardlichteffekt) / ≥700 h (bei ausgeschaltetem Licht)

- Systemanforderungen:

Kabelgebundener/2.4G-Modus: Alle Windows-Betriebssysteme, einschließlich WIN XP, WIN7, WIN8, WIN10

(Treiber können für WIN95 und WIN98 erforderlich sein)

Kabelgebundener Modus/2.4G-Empfänger: Erfordert USB 1.1 oder höher

BT-Modus: MAC-Computer, Android-Smartphones/-Tablets, iOS-Smartphones/-Tablets mit BT3.0, BLE4.0, BLE5.0 oder höherer Hardware

- Hardwareverbindung:

Kabelgebundener USB/2.4G-Empfänger unterstützt Hot-Plugging (Plug and Play)

Zum entsprechenden BT-Kanal wechseln und mit dem BT-Gerät koppeln, um es zu verwenden

# Parametri del prodotto



- Numero di tasti: 87
  - Tasto FN: Multifunzione
  - Dimensioni prodotto: 362.47(L) × 137.96(W) × 41.72(H) ±0.5 mm
  - Peso del prodotto: Ca. 1089 g (escluso cavo/ricevitore) / Ca. 1136 g (incluso cavo/ricevitore)
  - Tensione nominale: DC 3.7 V (4.2 V a carica completa)
  - Corrente nominale: ≤160 mA @ 3.7 V (effetto luce predefinito) / ≤17 mA (con luci spente)
  - Tensione/corrente di ricarica: DC 5 V ~~==~~1500 mA
  - Capacità della batteria: 10000 mAh batteria ricaricabile al litio
  - Durata della batteria: ≥75 h (effetto luce predefinito) / ≥700 h (con luci spente)
- 
- Requisiti di sistema:

Modalità cablata/2.4G: Tutti i sistemi operativi Windows, inclusi WIN XP, WIN7, WIN8, WIN10

(I driver possono essere richiesti per WIN95 e WIN98)

Modalità cablata/ricevitore 2.4G: Richiede porta USB 1.1 o superiore

Modalità BT: Computer MAC, telefoni/tablet Android, telefoni/tablet iOS con BT3.0, BLE4.0, BLE5.0 o hardware successivo

- Connessione hardware:

USB cablato/ricevitore 2.4G supporta hot plugging (plug and play)

Passare al canale BT corrispondente e associare al dispositivo BT per l'uso

- Tuş sayısı: 87
  - FN tuşu: Çok fonksiyonlu
  - Ürün boyutu: 362.47(U) × 137.96(G) × 41.72(Y) ±0.5 mm
  - Ürün ağırlığı: Yaklaşık 1089 g (kablo/alıcı hariç) / Yaklaşık 1136 g (kablo/alıcı dahil)
  - Nominal voltaj: DC 3.7 V (tam şarjda 4.2 V)
  - Nominal akım: ≤160 mA @ 3.7 V (varsayılan ışık efekti) / ≤17 mA (ışıklar kapalıyken)
  - Şarj voltajı/akımı: DC 5 V **==** 1500 mA
  - Batarya kapasitesi: 10000 mAh şarj edilebilir lityum pil
  - Batarya ömrü: ≥75 h (varsayılan ışık efekti) / ≥700 h (ışıklar kapalıyken)
- 
- Bilgisayar sistem gereksinimleri:

Kablolu/2.4G mod: Tüm Windows işletim sistemleri (WIN XP, WIN7, WIN8, WIN10 dahil) (WIN95 ve WIN98 için sürücü gerekebilir)

Kablolu mod/2.4G alıcı: USB 1.1 veya üstü port gerektirir

BT modu: MAC bilgisayarlar, Android telefonlar/tabletler, iOS telefonlar/tabletler (BT3.0, BLE4.0, BLE5.0 ve üstü donanım desteklenir)

- Donanım bağlantısı:

Kablolu USB/2.4G alıcı sıcak takmayı destekler (tak ve çalıştır)

İlgili BT kanalına geçin ve kullanmak için BT cihazı ile eşleştirin

- Количество клавиш: 87
- Клавиша FN: Многофункциональная
- Размер продукта: 362.47(Д) × 137.96(Ш) × 41.72(В) ±0.5 мм
- Вес продукта: Примерно 1089 г (без кабеля/приёмника) / Примерно 1136 г (с кабелем/приёмником)
- Номинальное напряжение: DC 3.7 В (4.2 В при полной зарядке)
- Номинальный ток: ≤160 мА @ 3.7 В (эффект подсветки по умолчанию) / ≤17 мА (при выключенной подсветке)
- Напряжение/ток зарядки: DC 5 В ===1500 мА
- Ёмкость батареи: 10000 мАч, перезаряжаемая литиевая батарея
- Время работы батареи: ≥75 ч (эффект подсветки по умолчанию) / ≥700 ч (при выключенной подсветке)

- Системные требования:

Проводной/2.4G режим: Все операционные системы Windows, включая WIN XP, WIN7, WIN8, WIN10

(Для WIN95 и WIN98 могут потребоваться драйверы)

Проводной режим/2.4G приёмник: Требуется порт USB 1.1 или выше

BT режим: Компьютеры MAC, телефоны/планшеты Android, телефоны/планшеты iOS с BT3.0, BLE4.0, BLE5.0 и выше

- Подключение оборудования:

Проводной USB/2.4G приёмник поддерживает горячее подключение (plug and play)

Переключитесь на соответствующий BT-канал и подключите BT-устройство для использования

- จำนวนปุ่ม: 87
- ปุ่ม FN: มัลติฟังก์ชัน
- ขนาดสินค้า: 362.47(ย) × 137.96(ก) × 41.72(ส) ±0.5 มม.
- น้ำหนักสินค้า: ประมาณ 1089 กรัม (ไม่รวมสาย/ตัวรับสัญญาณ) / ประมาณ 1136 กรัม (รวมสาย/ตัวรับสัญญาณ)
- แรงดันไฟฟ้าที่กำหนด: DC 3.7 V (4.2 V เมื่อชาร์จเต็ม)
- กระแสไฟฟ้าที่กำหนด: ≤160 mA @ 3.7 V (เอฟเฟกต์ไฟมาตรฐาน) / ≤17 mA (เมื่อปิดไฟ)
- แรงดัน/กระแสการชาร์จ: DC 5 V === 1500 mA
- ความจุแบตเตอรี่: 10000 mAh แบตเตอรี่ลิเธียมแบบชาร์จซ้ำได้
- อายุการใช้งานแบตเตอรี่: ≥75 ชม. (เอฟเฟกต์ไฟมาตรฐาน) / ≥700 ชม. (เมื่อปิดไฟ)
- ความต้องการของระบบคอมพิวเตอร์:

โหมดแบบใช้สาย/2.4G: ระบบปฏิบัติการ Windows ทั้งหมด รวมถึง WIN XP, WIN7, WIN8, WIN10 (อาจต้องการไดรเวอร์สำหรับ WIN95 และ WIN98)

โหมดแบบใช้สาย/ตัวรับ 2.4G: ต้องใช้พอร์ต USB 1.1 หรือสูงกว่า

โหมด BT: คอมพิวเตอร์ MAC, โทรศัพท์/แท็บเล็ต Android, โทรศัพท์/แท็บเล็ต iOS ที่รองรับ BT3.0, BLE4.0, BLE5.0 ขึ้นไป

- การเชื่อมต่อฮาร์ดแวร์:

USB แบบใช้สาย/ตัวรับ 2.4G รองรับการทำงานทันที (plug and play)

สลับไปยังช่องสัญญาณ BT ที่สอดคล้องและจับคู่กับอุปกรณ์ BT เพื่อใช้งาน

# Paramètres du produit



- Nombre de touches: 87
- Touche FN: Multifonctionnelle
- Taille du produit: 362.47(L) × 137.96(l) × 41.72(H) ±0.5 mm
- Poids du produit: Env. 1089 g (sans câble/récepteur) / Env. 1136 g (avec câble/récepteur)
- Tension nominale: DC 3.7 V (4.2 V lorsqu' il est complètement chargé)
- Courant nominal: ≤160 mA @ 3.7 V (effet lumineux par défaut) / ≤17 mA (lumières éteintes)
- Tension/courant de charge: DC 5 V **==** 1500 mA
- Capacité de la batterie: Batterie lithium rechargeable 10000 mAh
- Autonomie de la batterie: ≥75 h (effet lumineux par défaut) / ≥700 h (lumières éteintes)
- Configuration système requise:

Mode filaire/2.4G: Tous les systèmes d' exploitation Windows, y compris WIN XP, WIN7, WIN8, WIN10

(Les pilotes peuvent être requis pour WIN95 et WIN98)

Mode filaire/récepteur 2.4G: Nécessite un port USB 1.1 ou supérieur

Mode BT: Ordinateurs MAC, téléphones/tablettes Android, téléphones/tablettes iOS avec BT3.0, BLE4.0, BLE5.0 ou supérieur

- Connexion matérielle:

Le récepteur USB filaire/2.4G prend en charge le branchement à chaud (plug and play)

Passez au canal BT correspondant et associez-le à l' appareil BT pour l' utiliser

- Кількість клавіш: 87
- Клавіша FN: Багатофункціональна
- Розмір продукту: 362.47(Д) × 137.96(Ш) × 41.72(В) ±0.5 мм
- Вага продукту: Прибл. 1089 г (без кабелю/приймача) / Прибл. 1136 г (з кабелем/приймачем)
- Номінальна напруга: DC 3.7 В (4.2 В при повній зарядці)
- Номінальний струм: ≤160 мА @ 3.7 В (стандартний світловий ефект) / ≤17 мА (при вимкненому підсвічуванні)
- Напруга/струм зарядки: DC 5 В **==** 1500 мА
- Ємність батареї: 10000 мА·год, літієва акумуляторна батарея
- Час роботи батареї: ≥75 год (стандартний світловий ефект) / ≥700 год (при вимкненому підсвічуванні)

- Системні вимоги:

Провідний/2.4G режим: Усі операційні системи Windows, включаючи WIN XP, WIN7, WIN8, WIN10(Можливо, потрібні драйвери для WIN95 та WIN98)

Провідний режим/2.4G приймач: Потрібен порт USB 1.1 або вище

BT режим: MAC комп'ютери, Android телефони/планшети, iOS телефони/планшети з BT3.0, BLE4.0, BLE5.0 і вище

- Підключення обладнання:

Провідний USB/2.4G приймач підтримує гаряче підключення (plug and play)

Перемкніться на відповідний BT-канал та підключіть BT-пристрій для використання

- Jumlah tombol: 87
  - Tombol FN: Multifungsi
  - Ukuran produk: 362.47(P) × 137.96(L) × 41.72(T) ±0.5 mm
  - Berat produk: ±1089 g (tanpa kabel/penerima) / ±1136 g (dengan kabel/penerima)
  - Tegangan nominal: DC 3.7 V (4.2 V saat terisi penuh)
  - Arus nominal: ≤160 mA @ 3.7 V (efek cahaya default) / ≤17 mA (saat lampu mati)
  - Tegangan/arus pengisian: DC 5 V  $\overline{=}$  1500 mA
  - Kapasitas baterai: 10000 mAh baterai lithium isi ulang
  - Masa pakai baterai: ≥75 jam (efek cahaya default) / ≥700 jam (lampu mati)
- 
- Persyaratan sistem komputer:

Mode kabel/2.4G: Semua sistem operasi Windows, termasuk WIN XP, WIN7, WIN8, WIN10 (Driver mungkin diperlukan untuk WIN95 dan WIN98)

Mode kabel/penerima 2.4G: Membutuhkan port USB 1.1 atau lebih tinggi

Mode BT: Komputer MAC, ponsel/tablet Android, ponsel/tablet iOS dengan BT3.0, BLE4.0, BLE5.0 atau lebih tinggi

- Koneksi perangkat keras:

USB kabel/penerima 2.4G mendukung hot plugging (plug and play)

Beralih ke saluran BT yang sesuai dan pasang dengan perangkat BT untuk digunakan

- キー数: 87
  - FNキー: 多機能
  - 製品サイズ: 362.47(L) × 137.96(W) × 41.72(H) ±0.5 mm
  - 製品重量: 約1089 g (ケーブル/レシーバー除く) / 約1136 g (ケーブル/レシーバー含む)
  - 定格電圧: DC 3.7 V (満充電時 4.2 V)
  - 定格電流: ≤160 mA @ 3.7 V (デフォルト照明効果) / ≤17 mA (照明オフ時)
  - 充電電圧/電流: DC 5 V  $\Rightarrow$  1500 mA
  - バッテリー容量: 10000 mAh 充電式リチウムバッテリー
  - バッテリー寿命: ≥75 h (デフォルト照明効果) / ≥700 h (照明オフ時)
- 
- コンピュータシステム要件:

有線/2.4Gモード: すべてのWindows OSに対応 (WIN XP, WIN7, WIN8, WIN10)  
(WIN95およびWIN98ではドライバーが必要な場合があります)

有線モード/2.4Gレシーバー: USB 1.1以上のポートが必要

BTモード: MACコンピュータ、Androidスマホ/タブレット、iOSスマホ/タブレット (BT3.0, BLE4.0, BLE5.0以上のハードウェア)

- ハードウェア接続:

有線USB/2.4Gレシーバーはホットプラグ対応 (プラグアンドプレイ)

対応するBTチャンネルに切り替えて、BTデバイスとペアリングして使用

- Số phím: 87
- Phím FN: Đa chức năng
- Kích thước sản phẩm: 362.47(D) × 137.96(R) × 41.72(C) ±0.5 mm
- Trọng lượng sản phẩm: Khoảng 1089 g (không gồm cáp/bộ thu) / Khoảng 1136 g (gồm cáp/bộ thu)
- Điện áp định mức: DC 3.7 V (4.2 V khi sạc đầy)
- Dòng điện định mức: ≤160 mA @ 3.7 V (hiệu ứng đèn mặc định) / ≤17 mA (khi tắt đèn)
- Điện áp/dòng sạc: DC 5 V  $\equiv$  1500 mA
- Dung lượng pin: Pin lithium sạc lại 10000 mAh
- Thời lượng pin: ≥75 h (hiệu ứng đèn mặc định) / ≥700 h (khi tắt đèn)

- Yêu cầu hệ thống máy tính:

Chế độ có dây/2.4G: Tất cả các hệ điều hành Windows, bao gồm WIN XP, WIN7, WIN8, WIN10 (Có thể cần trình điều khiển cho WIN95 và WIN98)

Chế độ có dây/bộ thu 2.4G: Yêu cầu cổng USB 1.1 trở lên

Chế độ BT: Máy tính MAC, điện thoại/máy tính bảng Android, điện thoại/máy tính bảng iOS với BT3.0, BLE4.0, BLE5.0 trở lên

- Kết nối phần cứng:

USB có dây/bộ thu 2.4G hỗ trợ hot plugging (cắm và chạy)

Chuyển sang kênh BT tương ứng và ghép nối với thiết bị BT để sử dụng



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