

Keyboard 81 Pro

User Manual

Welcome to the Keyboard 81 Pro, the first-ever global product launched by OnePlus Featuring and Keychron. An innovative, co-creation platform for OnePlus and its global community, OnePlus Featuring aspires to deliver innovative and premium technology to empower your digital lifestyle.

Workspace Minimalism

With ever more devices, today's desks have become cluttered workspaces. This significantly inhibits creativity and productivity. The Keyboard 81 Pro addresses this problem with different orientations. Choose from the standard orientation or flip the keyboard upright from the user-facing side. This minimalist design inspires focus so you stay in your creative zone.

Touch Evolved

The mechanical keyboard utilizes Marble-mallow for the keycap material. Compared to ABS/PBT, the softer and more elastic properties ensure a superior tactile experience. Unlike other soft keycaps, such as silicone, Marble-mallow enjoys higher resistance to text fading and color degradation.

Powered by Co-Creation

We strongly believe in the power of community. We invited OnePlus fans to co-create the keyboard switches with our product manager. After multiple rounds of discussion, we decided on two great choices for our switches:

- Summer Breeze (linear switch, Klein Blue) delivers a smooth and consistent keystroke with fast yet near-silent actuation.
- Winter Bonfire (optimized tactile switch, OnePlus Red) features a tactile peak point of 0.5mm. Together with a stronger rebounding force, the larger tactile drop delivers a more solid typing experience.

Materials List

Keyboard

1x Fully Assembled Keyboard

Including

1x Aluminum Case

1x PCB

1x PC Plate

1x Sound Absorbing Foam

1x Case Foam

14x Gaskets (10 Installed and 4 in the Box)

4 sets x Stabilizers

1 set x Keycaps (Double Shot)

1 set x Switches

Cable

1x Type-C to Type-C Cable

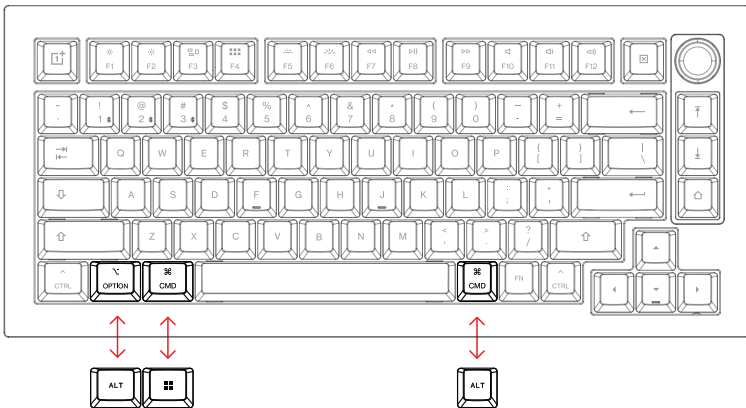
1x Type-A to Type-C Adapter

Tools

1x Switch and Keycap Puller

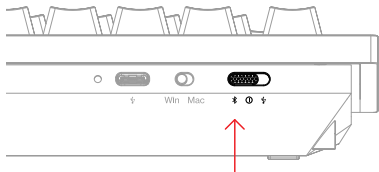
1x Hex Key

Keyboard Guide



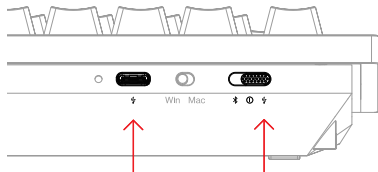
If you are a Windows user, please use the included keycaps to replace the MacOS ones as indicated.

1. Connect Bluetooth



Switch toggle to Bluetooth;
Press fn + 1 (hold for 4 seconds) and pair with the device named 'Keyboard 81 Pro'.

2. Connect Cable



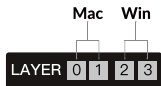
Switch toggle to Cable;
Use the included cable to connect the keyboard to your computer.

3. Remapping the keys

Please visit caniusevia.com to use the latest VIA firmware to remap the keys (If you are using macOS, please use Google Chrome to visit the link). If the VIA firmware does not recognize your keyboard, please contact the Customer Support to resolve the issue. (Note: VIA only works when the keyboard is connected to your computer by cable).



4. The Layers



There are key setting layers on the keyboard. Layers 0 and 1 are for MacOS, layers 2 and 3 are for Windows.



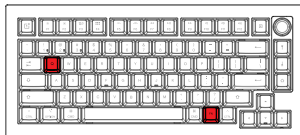
If your system toggle is switched to Mac, then layer 0 will be active.



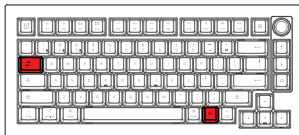
If your system toggle is switched to Windows, layer 2 will be active. Note: If you are using the keyboard in Windows, please ensure layer 2 is active instead of layer 0. This is a common mistake.

5. The Backlight

Press fn + Q to change the lighting effect

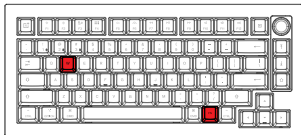


Press fn + Tab to toggle the backlight on/off.

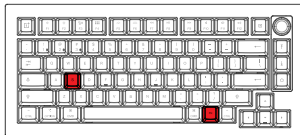


6. Adjusting The Backlight Brightness

Press fn + W to increase the brightness.

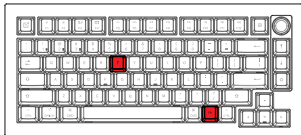


Press fn + S to decrease the brightness.

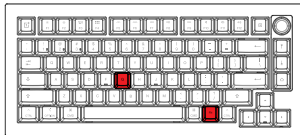


7. Adjusting The Backlight Speed

Press fn + T to increase the speed.



Press fn + G to decrease the speed.



8. Warranty

We will provide comprehensive warranty services according to local laws and regulations.

To protect your legal interests, please read the following notes carefully:

- A valid Proof of Purchase shall be issued by the seller at the time of purchase.
- Please keep your Proof of Purchase for future reference.
- In case of any damage of the product that is not due to human factors, consumers are entitled to enjoy customer service free of charge by providing Proof of Purchase within the warranty period.

The warranty is not applicable in the following cases:

1. The valid warranty period expires.
2. The product is damaged because it is accidentally dropped or immersed in water when in use.
3. Damages are caused by human factors such as unauthorized disassembly, modification, etc.
4. Damages are caused by force majeure (e.g. fires, earthquakes, and lightning).
5. Damages are caused by improper usage that does not conform to the user guide or operation manual.
6. Damages are caused by usage in environments not conforming to product specifications.
7. Information on Proof of Purchase is inconsistent with the product serial number or has been altered.
8. The keyboard is highly customizable and easy to be rebuilt. If anything goes wrong with any of the keyboard components of keyboard during the warranty period, we will only replace the defective parts of the keyboard, not the whole keyboard.



9. Factory Reset

Plug in the power cable and switch the toggle to Cable mode.

- Factory reset the keyboard by pressing fn + J + Z (hold for 4 seconds).
- Download the relevant firmware and QMK Toolbox from our website.
- Switch the keyboard to OFF mode and carefully remove the space bar keycap to find the reset button on the PCB.
- Holding the reset key, switch the toggle to Cable mode. Release the reset key, and the keyboard will now enter DFU (Device Firmware Upgrade) mode.
- Flash the firmware using QMK Toolbox.
- Factory reset the keyboard again by pressing fn + J + Z (hold for 4 seconds).

Troubleshooting? Don't know what's going on with the keyboard? Step by step guide can be found on our website.

Keyboard 81 Pro SPECIFICATIONS

Model: PKKE221

Number of keys: 81

Switch type: Mechanical

Frequency range: 2402~2480MHz

Max. Output power: 0dBm (e.i.r.p)

Battery: 4000mAh

Bluetooth working time (RGB): Up to 100 hours (Lowest brightness)

Charging time: Around 5 hours

Charging port: USB Type-C

Mode: Bluetooth / Wired

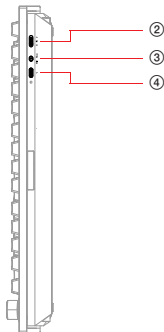
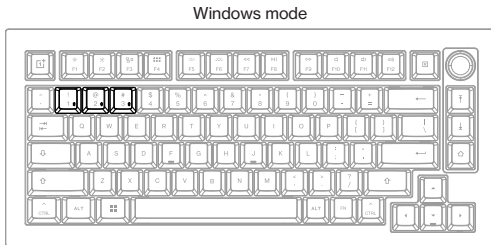
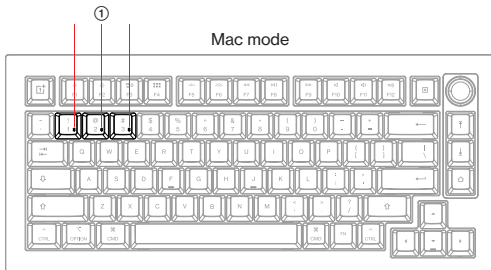
Bluetooth operating distance: Within 10 meters (open space)

Name of Bluetooth device: Keyboard 81 Pro

Operating environment: -10 to 50°C (14 to 122°F)

Technical specifications can be subject to change without notice, we apologize for any inconvenience caused.

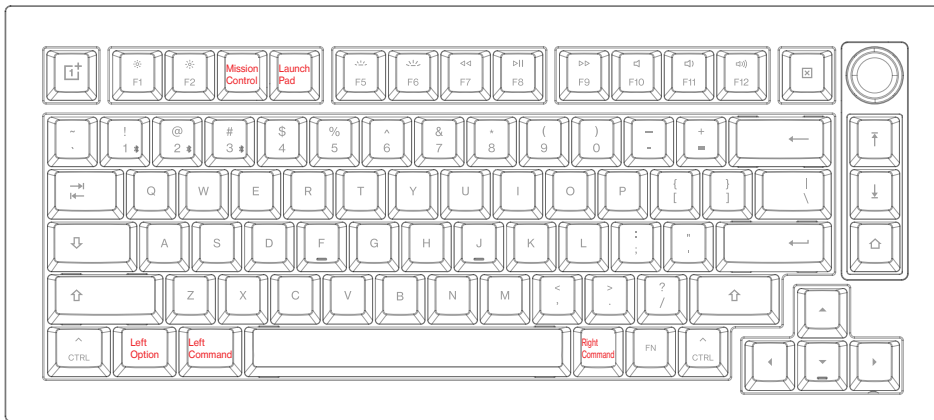
Keyboard 81 Pro OVERVIEW



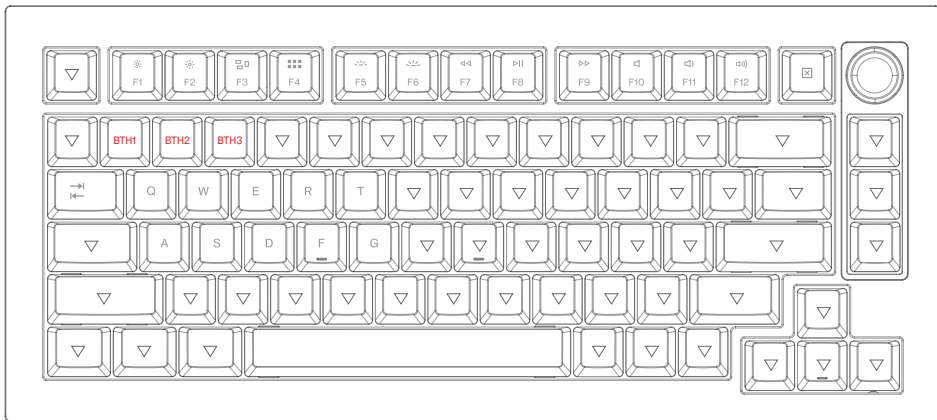
- ① Bluetooth indicator
- ② BT OFF Cable (Mode Toggle Switch)
- ③ Win/Android Mac/iOS (OS Toggle Switch)
- ④ Charging port

DEFAULT KEY LAYOUT

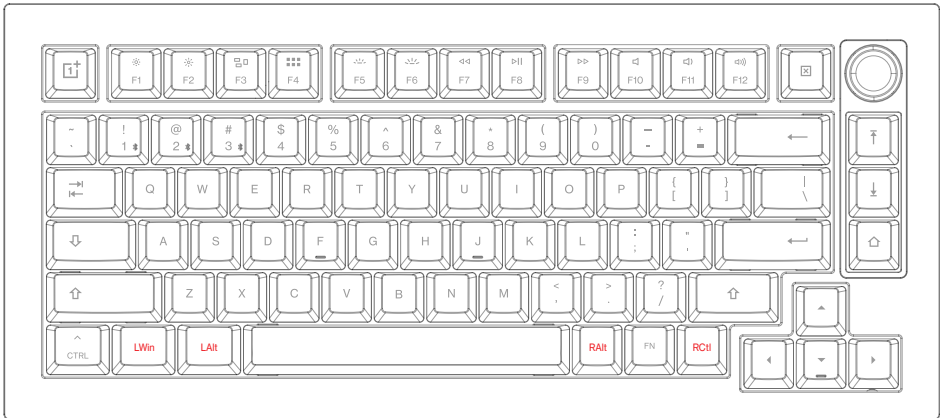
LAYER 0: This layer will be active when the keyboard system toggle is switched to Mac.



LAYER 1: This layer will be active when the keyboard system toggle is switched to Mac, and after you press the fn/MO (1) key.

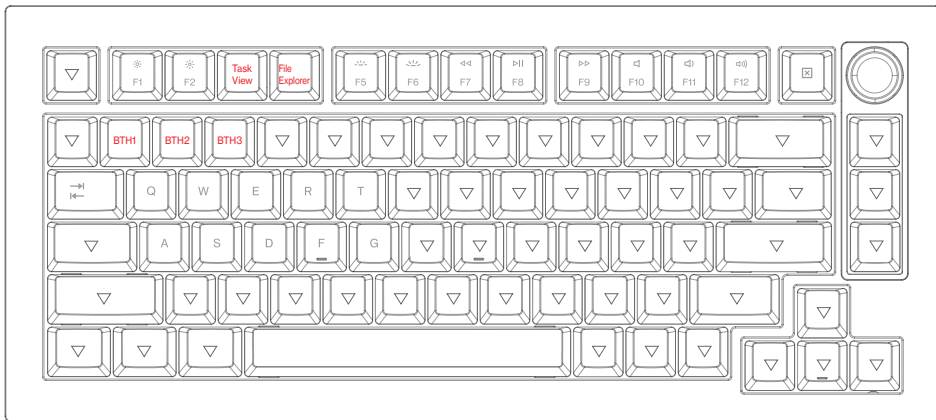


LAYER 2: This layer will be active when the keyboard system toggle is switched to Windows.



LWin = Left Windows • LAlt = Left Alt • RAlt = Right Alt • RCtrl = Right Ctrl

LAYER 3: This layer will be active when the keyboard system toggle is switched to Windows, and after you press the fn/MO (3) key.



KEY DESCRIPTION

| Key Description | |
|-----------------|----------------------------|
| Scr- | Screen Brightness Decrease |
| Scr+ | Screen Brightness Increase |
| Bright- | Backlight Decrease |
| Bright+ | Backlight Increase |
| Prvs | Previous |
| Play | Play/Pause |
| Next | Next |
| Mute | Mute |
| Vol- | Volume Decrease |
| Vol+ | Volume Increase |
| RGB Toggle | Turn Backlight on/off |

| Key Description | |
|-----------------|---|
| RGBMd+ | RGB Mode Next |
| RGBMd- | RGB Mode Previous |
| Hue+ | Hue Increase |
| Hue- | Hue Decrease |
| RGB SPI | RGB Speed Increase |
| RGB SPD | RGB Speed Decrease |
| MO(1) | Layer 1 will be activated when holding this key |
| MO(3) | Layer 3 will be activated when holding this key MO(3) |
| BTH1 | Bluetooth Host 1 |
| BTH2 | Bluetooth Host 2 |
| BTH3 | Bluetooth Host 3 |

LED STATUS OVERVIEW

| LED Location | Function | Status |
|---------------------|-----------|---|
| Battery indicator | Charging | Charging - Static Red Fully charged - Static Green |
| Bluetooth indicator | Bluetooth | Pairing - Slow Blinking Paired - Light Off Reconnecting - Fast Blinking |

FUNCTION DESCRIPTION: CHARGING

Connect the charging cable into a USB port and the keyboard port.

Charging indicator: A red light appears during charging; a full charge takes approximately 5 hours; the battery indicator will turn green.

*Please use a 5V 1A adapter or USB 3.0 for the best performance. The keyboard can be charged in Bluetooth on/off modes.

**When charging, this product supports up to 5V voltage and 1A current. We are not responsible for any issues caused by improper charging.

BLUETOOTH / WIRED MODE (MODE TOGGLE SWITCH)

WIRED MODE

1. Switch toggle to Cable; the mode requires a USB cable to be plugged in.
2. Connect the keyboard to your computer.
3. The keyboard backlighting will be activated.

*During Cable mode, the keyboard will not enter Battery Saver mode.

BLUETOOTH MODE

1. Switch toggle to Bluetooth.
2. The keyboard backlighting will be activated.
3. Hold fn + 1 for 4 seconds to turn on Bluetooth pairing; the Bluetooth indicator will flash for 3 minutes while it detects pairing.
4. Search for the Bluetooth device named "Keyboard 81 Pro" on your device and connect to it; the Bluetooth indicator will change to indicate successful pairing.

Note: This keyboard supports pairing up to 3 devices simultaneously via key combinations: fn + 1 / fn + 2 / fn + 3.

*Slow or failed connections may occur due to different Bluetooth versions, please make sure all the settings are correct.

SWITCH BLUETOOTH DEVICES

To switch between Bluetooth devices, short-press the key combinations: fn + 1 / fn + 2 / fn + 3.

RECONNECT

1. Switch toggle to Bluetooth.
2. The Bluetooth indicator will flash for 4 seconds, automatically pairing with the last paired device.
3. If pairing fails, press any button to begin the connection process again.

*The keyboard must have been previously paired with the device to reconnect.

TURN OFF THE KEYBOARD

Switch the keyboard to the OFF option.

OS TOGGLE SWITCH

1 – MAC/iOS

Switch the toggle to Mac/iOS when the keyboard is connected to a Mac or iOS operating system.

2 – WINDOWS/ANDROID

Switch the toggle to Windows/Android when the keyboard is connected to a Windows or Android operating system.

*When using the Windows/Android mode, keys are used for “Windows” and “Alt” functions.

3 – INPUT METHOD SWITCH

For iOS:

Input method switch: Ctrl+Space

Caps Lock: Caps Enable in General > Keyboards > Hardware Keyboard > Caps Lock Language Switch

For Android:

Input method switch: Shift + Space

Note: Certain multimedia key functions may be disabled due to compatibility issues with versions, brands, and OS drivers. We also recommend that you do not frequently switch between different operating systems, as this may affect keyboard operation.

TROUBLESHOOTING

If pairing with the keyboard is unsuccessful, make sure the device is Bluetooth-capable. If it is, restart the device and try pairing again.

Note: On a Windows computer, a new Bluetooth connection sometimes requires an additional software update; this process may continue after a successful pairing message appears. Please wait at least 20 minutes after pairing to ensure that all updates are complete before restarting your computer.

Make sure your device is configured to accept Bluetooth connections (Windows) and supports an external keyboard (HID profile).

Go to Bluetooth Devices > Open Settings and select the following:

- Allow Bluetooth devices to discover this computer
- Allow Bluetooth devices to connect to this computer
- Notify me when a Bluetooth device tries to connect

My Keyboard isn't working

For the computer/smartphone:

Go to your Bluetooth settings > Select the keyboard and remove/delete/unpair it. Then restart your device.

For the keyboard:

Turn the keyboard off and back on. Then reconnect it to your device.

Bluetooth connection is interrupted even within 10-meter range.

If the keyboard is resting on a metal surface, this can sometimes interfere with the Bluetooth signal.

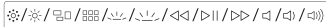
Third-party input tools are not compatible with the keyboard.

This may be due to compatibility issues with versions, brands, and OS drivers. Third-party input tools may be affected while using the keyboard. Please make sure your operating system and drivers are up to date.

Certain multimedia keys or function keys do not work.

This may be due to compatibility issues with versions, brands, and OS drivers.

* Multimedia keys:



Function keys:



Safety & security information

Read all information before using the device to ensure safe and proper use.

1. Please use the device within a temperature range of -10°C – $+50^{\circ}\text{C}$ and store the device and its accessories within a temperature range of -10°C – $+50^{\circ}\text{C}$. Extremely high or low temperatures may cause malfunction of the device. The performance of battery may compromise when temperature is lower than 5°C .
2. When charging, please keep the device in a well-ventilated area. Please charge this device in an environment between 5°C and 35°C . If the product has a flash charging function, it may not be able to enter the flash charging mode when the temperature is below 15°C or over 35°C .
3. The adapter, as the disconnect device from the mains, shall be installed near the device and easily accessible.
4. Use manufacturer-approved chargers, data cables, batteries and other accessories to prevent potential electric shock, fire, explosion or other hazards.
5. Do not replace, disassemble, modify, mechanically crush or cut the battery, as it may cause battery leakage, overheating, explosion or fire.
6. Do not place the device or battery directly in sunlight, near/inside sources of heat or in a low air pressure location, which may lead to an explosion or battery leakage.
7. The battery can be charged and discharged hundreds of times at least, but it will eventually wear out.
8. The battery must be recycled or disposed of separately from household waste. Mishandling the battery may cause fire or explosion.
9. To prevent damage to your device's parts or internal circuits, do not use it in dusty, smoky, damp or dirty environments or near magnetic fields.
10. If any part of the product is cracked or damaged, discontinue use immediately and contact support@keychron.com
11. Power off your device in any area with a potentially explosive atmosphere, in blasting areas/near blasting caps and comply with all signs and instructions.
12. Observe all safety instructions for any places, especially in hospital/health care facilities, service stations, schools, professional garages and in an aircraft.
13. Do not use your device and adhere to all safety warnings/regulations regarding mobile

device usage while driving.

14. Persons with electronic implants (pacemakers, insulin pumps, neurostimulators, etc.) are recommended to place the mobile telephone 15 cm away from the implant or on the opposite side of the implant.

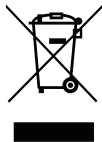
15. Do not leave your device and its accessories within the reach of small children or allow them to play with it. They could hurt themselves or others, or may accidentally damage the device.

16. Your device contains small parts with sharp edges that may cause an injury or which could become detached and create a choking hazard. Children and Minors should use the device under the supervision of a guardian to prevent swallowing.

Waste Electrical and Electronic Equipment (WEEE)

This symbol (with or without a solid bar) means that according to local laws and regulations your product and/or its battery shall be disposed of separately from household waste. When this product reaches its end of life, user has the choice to give his product to a competent recycling organization. Proper recycling of your product will protect human health and the environment.

If you are not sure what to do with e-waste, please contact your local authorities, retailer, or household waste disposal service.



Reduction of hazardous substances

This device and any electrical accessories are compliant with local applicable rules on the restriction of the use of certain hazardous substances in electrical and electronic equipment.

For declarations of conformity about REACH, please visit our web site:

<https://www.keychron.com/pages/reach-regulation>

EU/UK Regulatory Conformance

RF exposure information

RF exposure assessment has been performed below to prove that this unit will not generate the harmful EM emission above the reference level as specified in EC Council Recommendation (1999/519/EC).

EU Declaration of Conformity (DoC)

Hereby, Shenzhen Bipu Technology Co., Ltd. declares that this Mechanical Keyboard (Model: PKKE221) is in compliance with the essential requirements and other relevant provisions of Directive 2014/53/EU and 2011/65/EU. The full text of the EU declaration of conformity is available at the following internet address:

<https://www.keychron.com/pages/user-manual>

UKCA Declaration of Conformity

Hereby, Shenzhen Bipu Technology Co., Ltd. declares that the Mechanical Keyboard (Model: PKKE221) with this declaration and bearing the UKCA Mark is in compliance with UK Regulations 2017(S.I. 2017/1206) and RoHS regulations 2012(S.I. 2012/3032). The full text of the UK declaration of conformity is available at the following internet address:

<https://www.keychron.com/pages/user-manual>



FCC Regulatory Conformance

FCC Statement

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.

NOTE: The manufacturer is not responsible for any radio or TV interference caused by unauthorized modifications or changes to this equipment. Such modifications or changes 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 to part 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.

FCC Caution

- Any changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.
- The antenna(s) used for this transmitter must not be collocated or operate in conjunction with any other antenna or transmitter.

RF Exposure Information

This device meets the government's requirements for exposure to radio waves.

This device is designed and manufactured not to exceed the emission limits for exposure to radio frequency (RF) energy set by the Federal Communications Commission of the U.S. Government.

This device was tested for typical near Body operations kept 0cm away, and this device complies with FCC radiation exposure limits set forth for an uncontrolled environment.

ISED Regulatory Conformance

ISED Statement

This device contains licence-exempt transmitter(s)/receiver(s) that comply with Innovation, Science and Economic Development Canada's licence-exempt RSS(s).

Operation is subject to the following two conditions:

(1) This device may not cause interference.

(2) This device must accept any interference, including interference that may cause undesired operation of the device.

Cet appareil contient un ou plusieurs émetteurs/récepteurs exempts de licence conformes aux normes RSS(s) applicables aux appareils radio exempts de licence d'Innovation, Sciences et Développement Économique Canada. Son fonctionnement est soumis aux deux conditions suivantes:

(1) L'appareil ne doit pas provoquer d'interférences.

(2) L'appareil doit accepter toute interférence, y compris les interférences susceptibles d'en compromettre le fonctionnement.

This device complies with the Canadian ICES-003 Class B specifications.

CAN ICES-003(B)/ NMB-003(B).

Cet appareil numérique de la Canadian ICES-003. Cet appareil numérique de la classe B est conforme à la norme NMB-003 du Canada.

ISED RF Exposure Statement

This device was tested for typical near Body operations kept 0cm away, and this device complies with IC RSS-102 RF exposure limits set forth for an uncontrolled environment.

Cet appareil a été testé pour des opérations typiques à proximité du corps à 0 cm de distance, et cet appareil est conforme aux limites d'exposition RF IC RSS-102 établies pour un environnement non contrôlé.

Importer information

EU Importer

Reflection Investment B.V.

Hofplein 20, 3032AC Rotterdam, the Netherlands

UK Importer

UNUMPLUS LIMITED

7 Albert Buildings, 49 Queen Victoria Street, London, EC4N 4SA, United Kingdom

Shenzhen Bipu Technology Co., Ltd.

Building 2, Floor 2, Wenkeng Industrial Area, Dafa Road No.24,
Bantian, Long Gang District, Shenzhen, Guangdong, China


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