

P.Wheel Bicycle Power Assist Device

User Manual

Please read this instruction manual carefully before using the product.

Safety Instructions

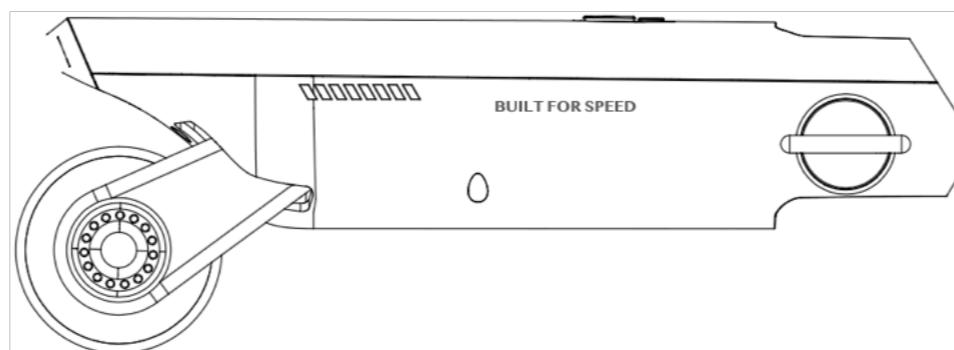
Warning!

Carefully read all safety warnings, instructions, illustrations, and regulations in the manual.

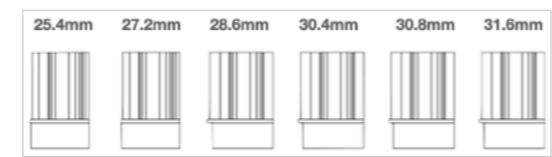
This product is not waterproof, do not use it in rainy weather. Children should use it under adult supervision, and adults should assist in the installation and disassembly.

Product List

The product package includes the P.Wheel bicycle power assist, seat post adapter, seat post clamp, charger, and hex wrench.



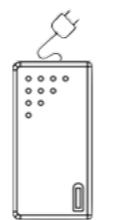
Bicycle Power Assist



Seat Post Adapter



Seat Post Clamp

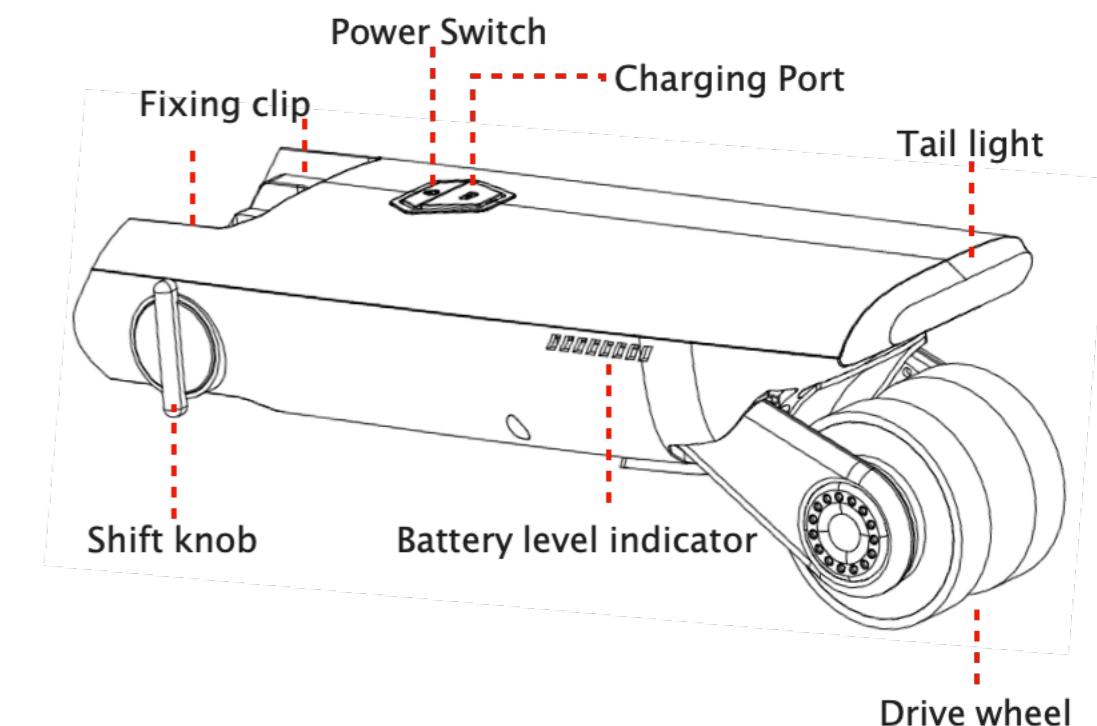


Charger



Hex Wrench

P.Wheel

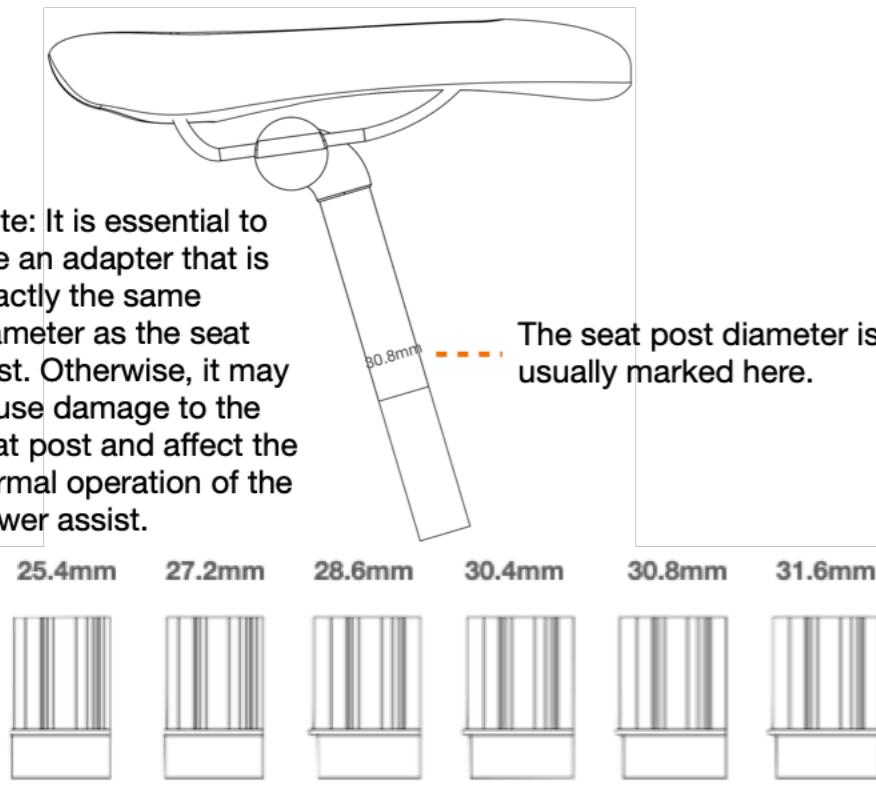


Product Specifications

Gross Weight/Net Weight	2.8kg / 2.0kg
Product Dimensions:	305mm x 100mm x 117mm
Outer Packaging Dimensions	370mm x 180mm x 128mm
Battery	18 V / 10 AH
Motor	200W
Maximum Speed	25km/h
Range	50km (full charge, medium assistance) Actual range may vary based on terrain and load
Charging Time	5 hours
Charger	Input: 100-230V, Output: 21V/2A
Suitable Road Surfaces	City paved roads, gravel roads
Suitable Tire Widths	Mountain Bike: 1.5 /1.75 /1.95 /2.15 inch Road Bike: 25C/ 28C/ 35C /38C
Suitable Seat Post Sizes	25.4 / 27.2 / 28.6 / 30.4 / 30.8 / 31.6 mm

Installation Steps

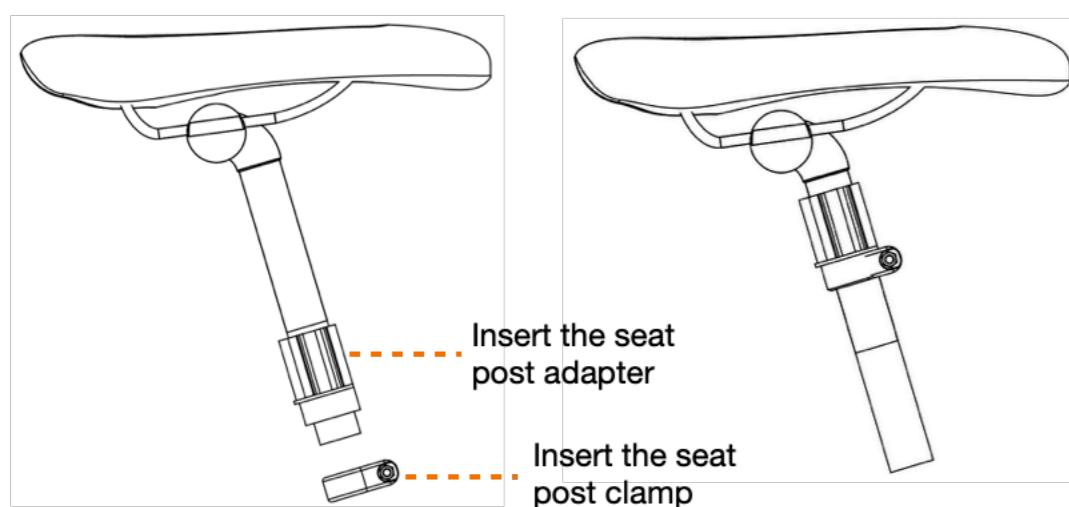
1. Choose the Adapter



Remove the bicycle seat post and find the seat post adapter that matches the diameter of the seat post precisely.

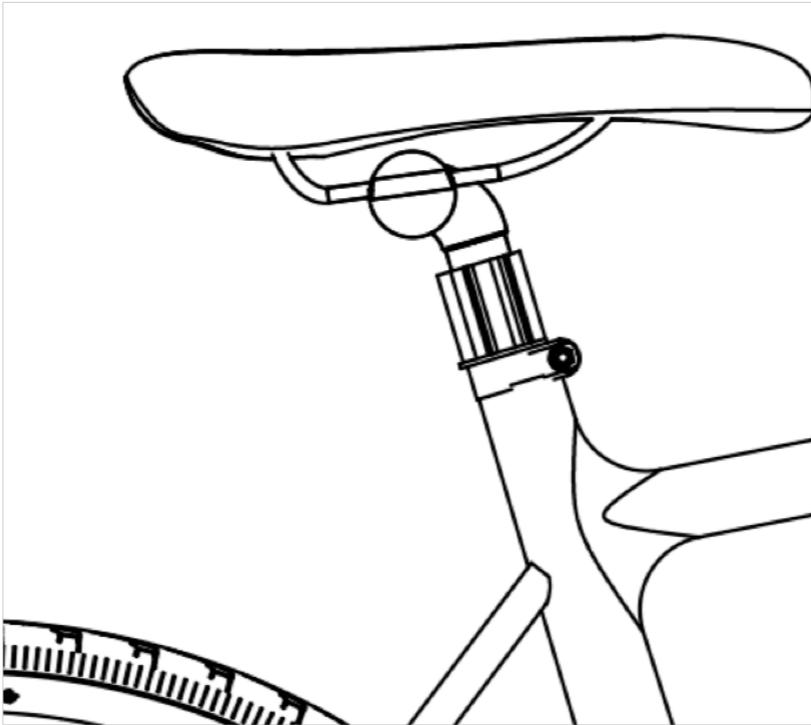
Note: If the diameter of your bicycle seat post exceeds 31.6mm, please replace the seat post with a 31.6mm one (You can add a seat post shim to facilitate the change in diameter of the bicycle seat post.).

2. Insert the Adapter and Seat Post Clamp



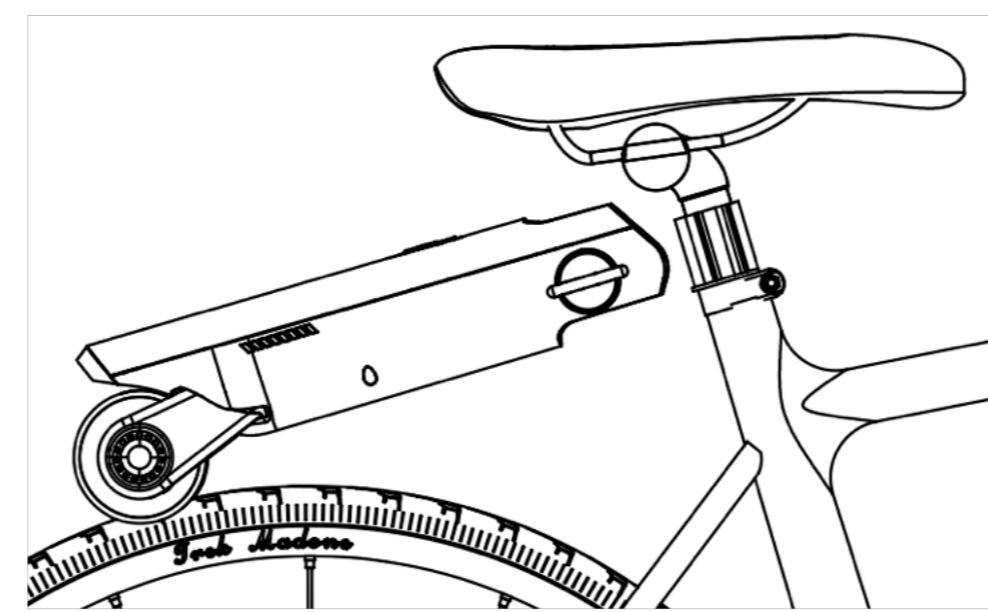
Insert the seat post adapter into the bicycle seat post and then insert the seat post clamp.

3. Reinsert the Seat Post into the Bicycle



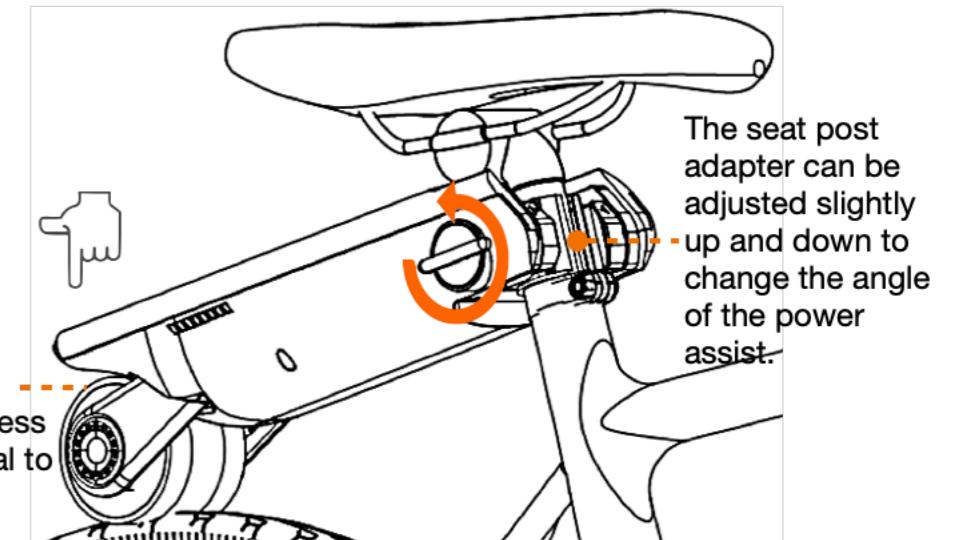
Reinsert the bicycle seat post into the bicycle seat tube and adjust it to the appropriate riding height.

4. Install the Power Assist



Align the drive wheel of the power assist with the rear wheel of the bicycle, and fix the clamp into the seat post adapter.

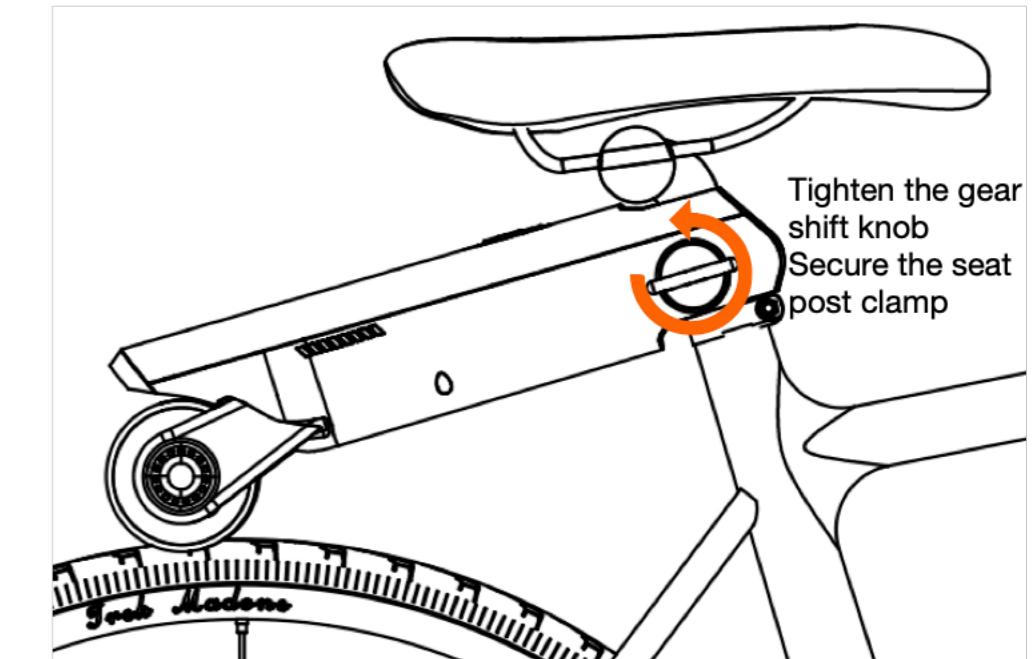
5. Adjust the Angle



Rotate the gear shift knob towards the "Lock" direction to secure the clamp onto the seat post adapter. Press down on the rear end of the power assist, allowing slight up and down movement of the seat post adapter until the downward movement space is less than 5mm for the optimal power assist position.

Note: When tightening (or loosening), please grip both sides of the knobs with both hands and rotate simultaneously.

6. Secure

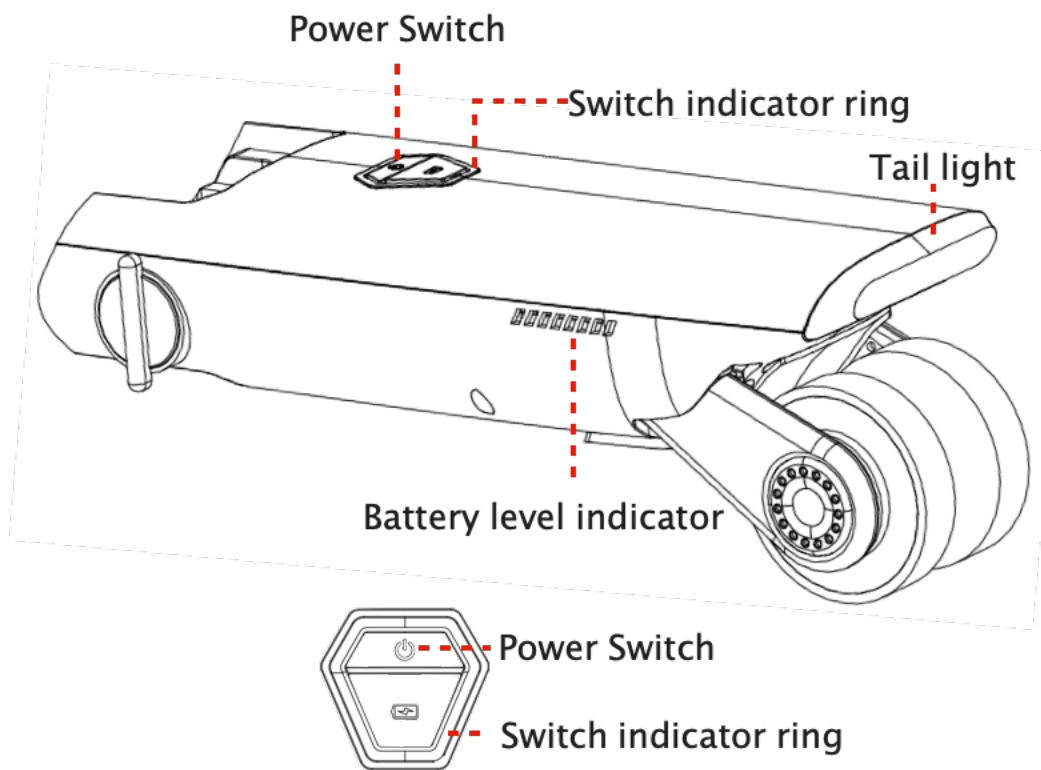


Keep the seat post adapter in the optimal power assist position, tighten the gear shift knob, and use the hex wrench to secure the seat post clamp.

User Instructions

Power On/Off

1. Power On



Press and hold the power button until all the lights in the power indicator ring illuminate, then release your hand. The device will turn on, and the power assist enters standby mode.

Light Indicators:

- Power Indicator Ring (Top): Constantly lit in a breathing pattern after turning on.
- Battery Indicator Light (Side): Constantly lit after turning on, displaying battery level. During cycling, it flows in a water-like pattern, and the flow frequency is positively correlated with cycling speed.
- Tail Light (Rear): After turning on, it blinks, and the blinking frequency is positively correlated with cycling speed.

2. Power Off

Press and hold the power button until all the lights in the power indicator ring are extinguished, then release your hand. The device will turn off.

Note: If the power assist is not used within 5 minutes after turning on, it will automatically power off.

Battery Level Display and Charging



1. Battery Level Display

Battery Level \geq 75%:
A horizontal row of seven segments, with the first six being solid black and the seventh being white.

75% $>$ Battery Level $>$ 50%:
A horizontal row of seven segments, with the first five being solid black and the last two being white.

50% \geq Battery Level $>$ 25%:
A horizontal row of seven segments, with the first three being solid black and the last four being white.

Battery Level \leq 25%:
A horizontal row of seven segments, with the first two being solid black and the last five being white.

Note: When the battery level is below 25%, the battery indicator light displays red as a low battery warning. Please charge promptly.

2. Charging

The battery is not fully charged when it leaves the factory, so please fully charge it before the first use. Use the original charger provided by the manufacturer.



Insert the charging plug into the top charging port, and the indicator lights on both sides will display the current battery level and dynamically show the charging effect. When fully charged, all the indicator lights will be on.

Note: Please charge in the power-off state, and do not turn on the device during the charging process.

Charging Status

Battery Level \leq 25%:
A horizontal row of seven segments, with the first two being solid black and the last five being white.

50% \geq Battery Level $>$ 25%:
A horizontal row of seven segments, with the first three being solid black and the last four being white.

75% $>$ Battery Level $>$ 50%:
A horizontal row of seven segments, with the first five being solid black and the last two being white.

75% \geq Battery Level $>$ 90%:
A horizontal row of seven segments, with the first six being solid black and the last one being white.

Battery Level = 100%:
A horizontal row of seven segments, with all seven being solid black.

Note: If the power assist is not used for an extended period, the battery should be charged every three months to prevent it from becoming ineffective due to long-term self-discharge.

Cycling

After the power assist is turned on, it automatically enters the automatic power assist mode. When the bicycle speed exceeds 5 km/h, the power assist automatically engages.

- To accelerate, increase the pedaling frequency, and the power assist will increase accordingly until the speed exceeds 25 km/h. With the assistance of P.Wheel, lightly pedal, and the bicycle can maintain a maximum speed of 25 km/h.

- To decelerate, there are two ways:

1. Reduce pedaling frequency.
2. Squeeze the brakes.

The power assist adjusts its power based on the decreased riding speed. At this point, lightly pedal, and P.Wheel can help you maintain the reduced riding speed.

Note: When passing through water sections during cycling, the reduced friction between the wheels and the power assist wheel may lead to a decrease or loss of assistance. This is a normal phenomenon.

Safety Information

- This product is not a toy and should not be used by children. It is recommended for users aged 16 and above.
- Keep the device dry. Do not use the product in dusty, damp, or dirty environments to avoid internal circuit malfunctions.
- Do not use this product during thunderstorms, as it may lead to equipment malfunctions or motor hazards.
- The product contains non-removable batteries. Do not throw the product into fire or discard it randomly. Lithium batteries pose risks of overheating, impact, water damage, leading to fire, explosion, or other dangers. Avoid external shocks, pressure, or severe impacts on the device. Keep the device away from heat sources, high temperatures, and direct sunlight.
- Use the product within a charging temperature range of 0-40°C and a discharge temperature range of -10°C to 40°C. Store the device and its accessories within a temperature range of -10°C to 40°C. Environmental temperatures that are too high or too low may cause equipment malfunctions.
- Use the original charging adapter for charging. Malfunctions caused by failure to comply with the above requirements are not covered by the warranty. Disconnect the charger from the device and unplug it from the power outlet when charging is complete or not needed.
- Prolonged inactivity may damage the battery. It is recommended to charge the device at least once every three months.
- Prohibit disassembly, dropping, squeezing, or modification of the device. Do not insert foreign objects or pierce the device. Do not immerse the device in water or other liquids.
- Dispose of this device, batteries, and other accessories according to local regulations. Do not treat them as household waste. Improper disposal of batteries may lead to explosions.
- The product and its accessories may contain small parts. Keep the device and its accessories out of the reach of children. Children may accidentally damage the device and its accessories or swallow small parts, leading to choking or other hazards.

FCC Warning Statement

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

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.

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

Maintenance Regulations

- In the event of a product malfunction, please contact the local authorized dealer directly.
- The product is covered by a one-year warranty period from the date of purchase.
- Products that have undergone repairs continue to enjoy warranty services within the warranty period.
- Malfunctions and damages caused by human factors such as incorrect installation, operation, or use in environments not specified by the product are not covered by free warranty services and may be subject to paid repairs.

Note: The illustrations of products, accessories, user interfaces, etc., in the manual are for reference only and are intended to serve as schematic diagrams. Due to product updates and upgrades, there may be slight differences between the physical product and the schematic diagrams. Please refer to the actual product for accurate information.