
PLEGIBLE

Foldable Drone User Manual



Model: PL-516

If there is any issue with your order,
please contact below email to ask for warranty

E-mail: customerservice_uk@plegble.store



24 Months Coverage

Congratulations

Thank you for purchasing our new PL-516 Foldable Drone.

This user manual will provide you with all of the information you need to get started with your Drone.

If you have any problems setting up or using our Foldable Drone, please contact us by email at: support_us@pleble.store
Please read this manual carefully before using the product and keep it properly.

Alternatively, solutions to common problems can be found in the FAQs section at the end of this manual.

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Part 1 Disclaimer & Safety Guidelines

Please read the disclaimer carefully before using this product. By using it, you hereby agree to this disclaimer and signify that you have read them fully.

1. FLIGHT ENVIRONMENT



Fly in open areas

Maintain line of sight

Fly below 164 feet (50m)

2. **DO NOT** fly above or near obstacles, crowds, cars, open water, public road, high voltage power lines, trees or airport.

3. **DO NOT** fly the drone in the magnetic interference area, radio interference area, and government regulated no-fly zones.



4. **DO NOT** use this product in severe environments such as rain, snow, fog and wind, etc.



5. Please always stay away from the rotating propellers and motors.

6. Always keep small and electrical parts out of the reach of children.

7. The charging cable is not a toy, only use the original charging cable provided.

8. Battery charging should be done in a location out of reach of children. When charging it must be kept away from flammable materials such as bed, carpet, wood floors etc.

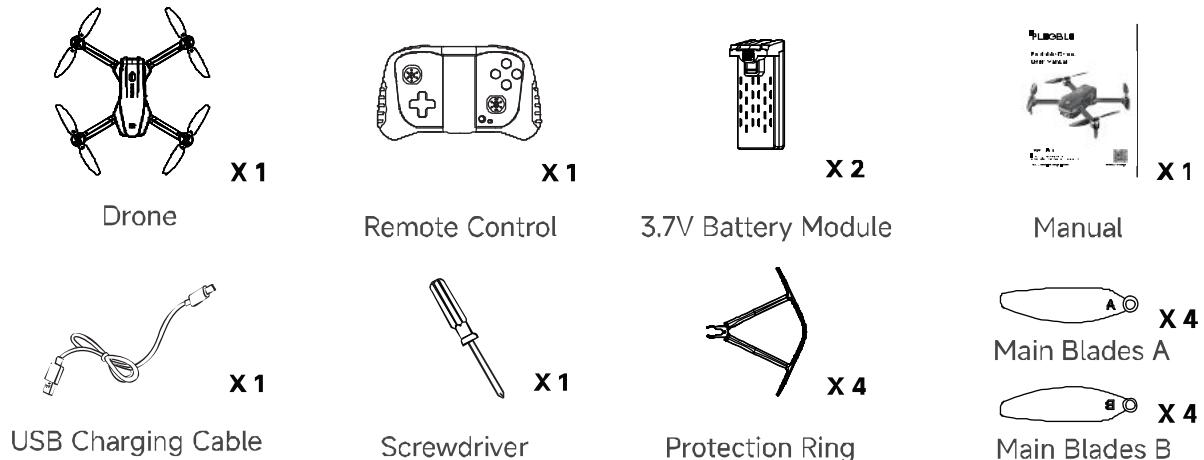
9. **DO NOT** reverse polarity or puncture batteries. **DO NOT** store the batteries near any heat source.

10. Dispose of the drone and batteries in accordance with local regulations. **DO NOT** treat it as household waste.

PLEGBLE accepts no liability for damage, injury, or any legal responsibility incurred directly or indirectly from the use of this product. The user shall observe safe and lawful practices, including but not limited to those set forth in these Safety Guidelines. **PLEGBLE** reserves the right to update this user manual.

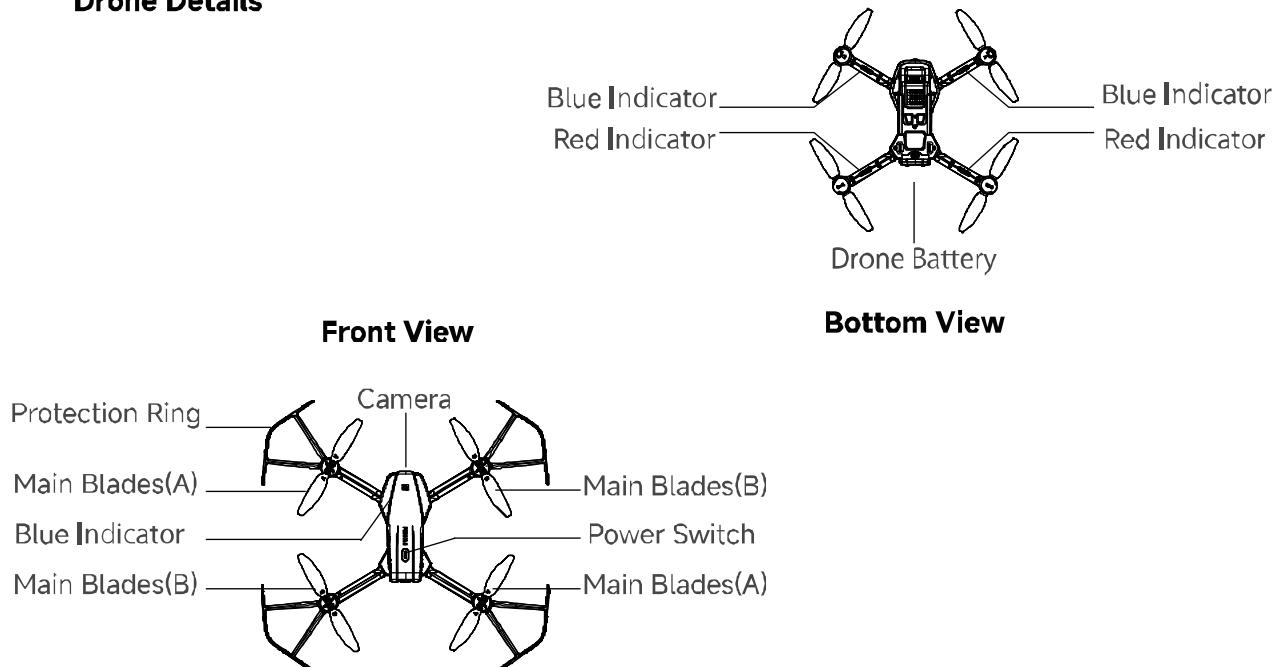
Part 2 General Information

2.1 Packing List

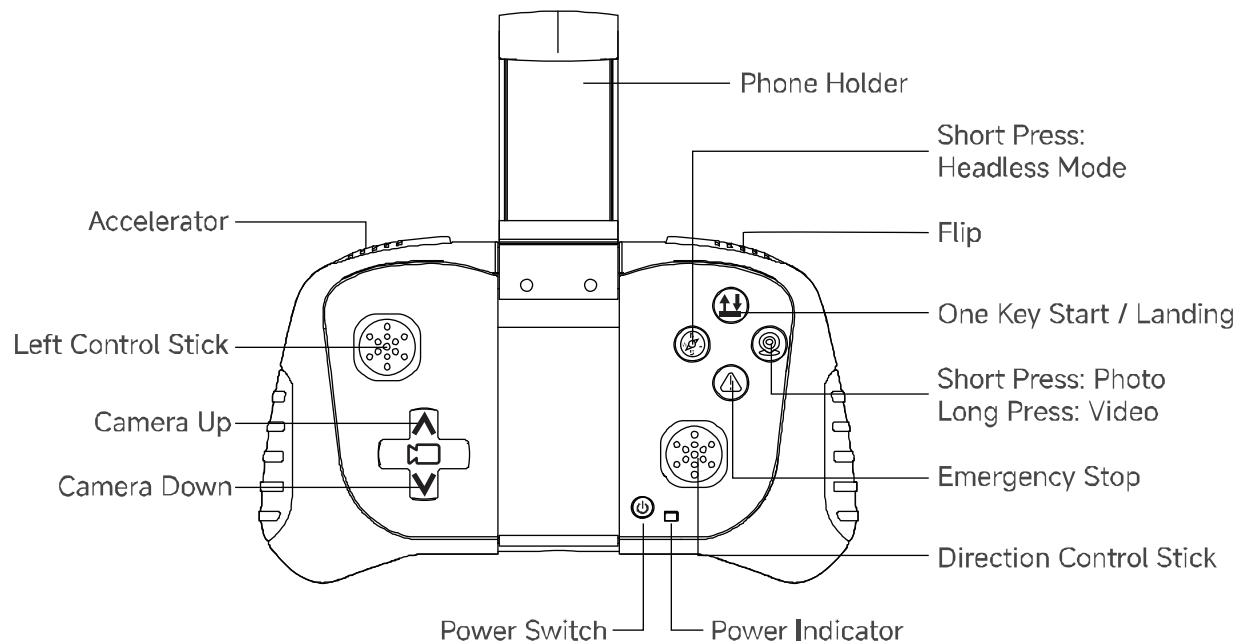


2.2 Product Overview

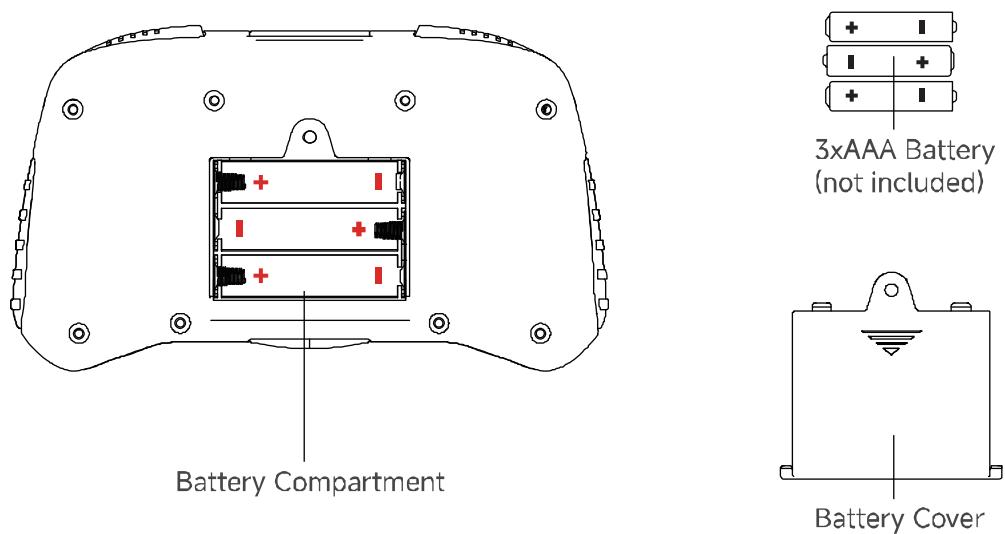
Drone Details



Controller Details



Front View



Bottom View

2.3 Button Functions

| Button | Function | Operation Instruction |
|--------|---------------------------|--|
| | Power Switch | Long press to enter Power On/Off |
| | ▲ Camera Up | Adjust the camera angle up |
| | ▼ Camera Down | Adjust the camera angle down |
| | ↔ Auto Take Off / Landing | Press enter auto Take Off / Landing mode. |
| | ⟳ Headless Mode | Press to Enter/Exit Headless Mode |
| | ⚠ Emergency Landing | Press enter Emergency stop |
| | ◎ Camera | Short press to enter Photo; long press to enter Video |
| | 360° Flips | Press the flip button while simultaneously manipulating the control sticks for upward and downward, as well as left and right rolling actions. |
| | Speed Switch Key | The drone is initially set to low speed. Press the "Speed" button once to reach medium speed, and the remote controller will emit two beeps. Press it again to achieve high speed, and the remote controller will emit three beeps. Pressing it a third time will revert to low speed, accompanied by one beep from the remote controller. |

Part 3 Product Specifications

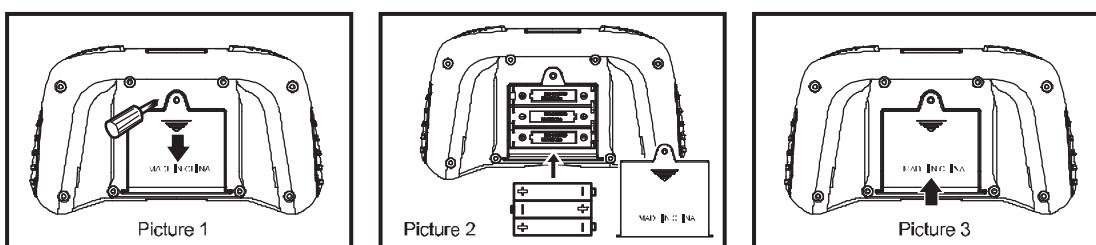
| | |
|---------------------------|---------------------------|
| Max Flight Distance | About 328 feet / 100m |
| FPV Transmission Distance | About 198 feet / 60m |
| Flight Time | About 28 Mins (2 Battery) |
| Photo Resolution | 4K WiFi Camera |
| Battery Capacity | 1500mAh/3.7V |
| Charging Time | About 60 Mins |
| Product Size | 120mm*81mm*52mm |
| Product Weight | 135g |

Part 4 Installation

4.1 Remote Controller Battery Installation

1. Click the button on the battery cover with a screwdriver to take out the battery cover. (Picture 1)
2. Install 3x AAA batteries into the battery compartment according to their polarity (Picture 2)
3. Put on the battery cover (Picture 3)

Note: Batteries should be inserted with the correct polarity



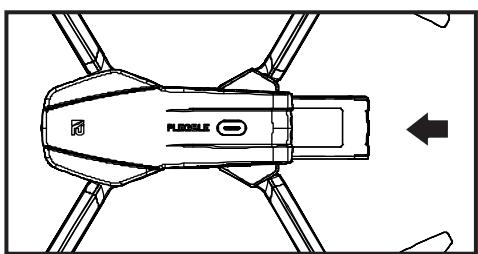
WARNING

1. Do not mix different types of batteries.
2. Do not mix old and new batteries.
3. Install batteries with correct polarity.

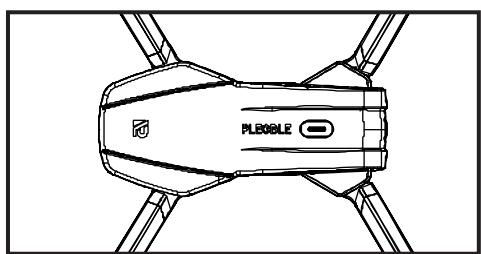
4.2 Drone Battery Installation

1. Install the battery module to the battery base of the fuselage in the direction shown in the figure. (Picture 1)
2. It has been installed. (Picture 2)

Picture 1



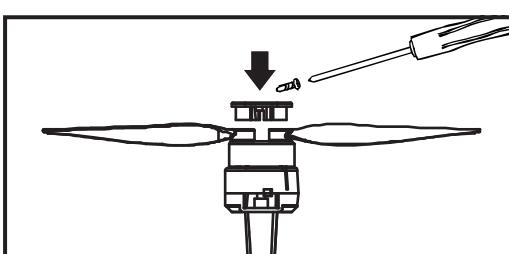
Picture 2



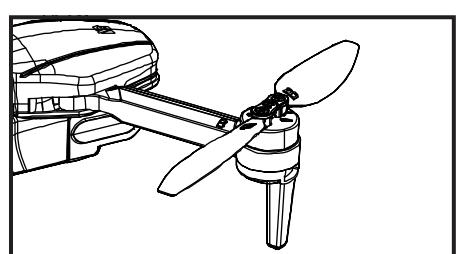
4.3 Propeller Replacement

1. Please make sure all propellers are install in the correct orientation. If the installation is wrong, fly aircraft will not be able to fly normally. (Picture 1)
2. It has been installed. (Picture 2)

Picture 1



Picture 2



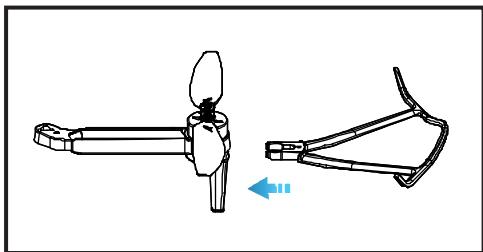
Important Notes:

Every propeller has indicated alphabet A and B. Please install the propellers in correspondence with blade A and blade B as shown above. Otherwise the drone will fail to take off.

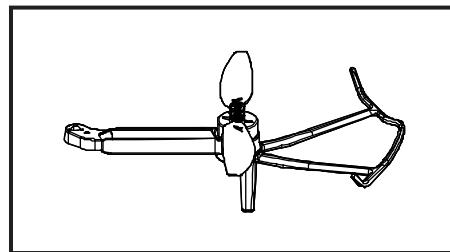
4.4 Protection Ring Installation Method

1. Install the protective frame at the bottom of the motor frame. (Picture 1)
2. It has been installed. (Picture 2)

Picture 1



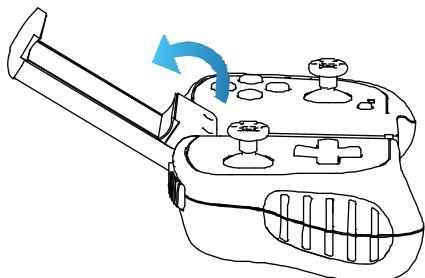
Picture 2



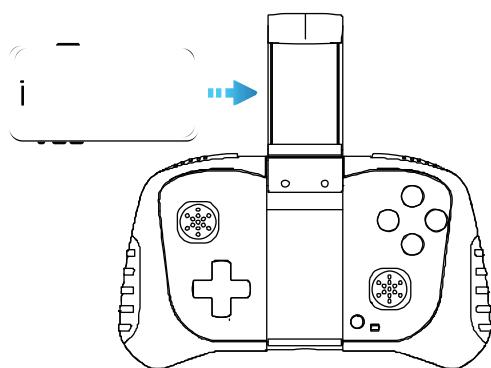
4.5 Phone Holder

1. Open the phone holder completely. (Picture 1)
2. Adjust the Phone holder upward and downward according to the size of your phone. (Picture 2)

Picture 1

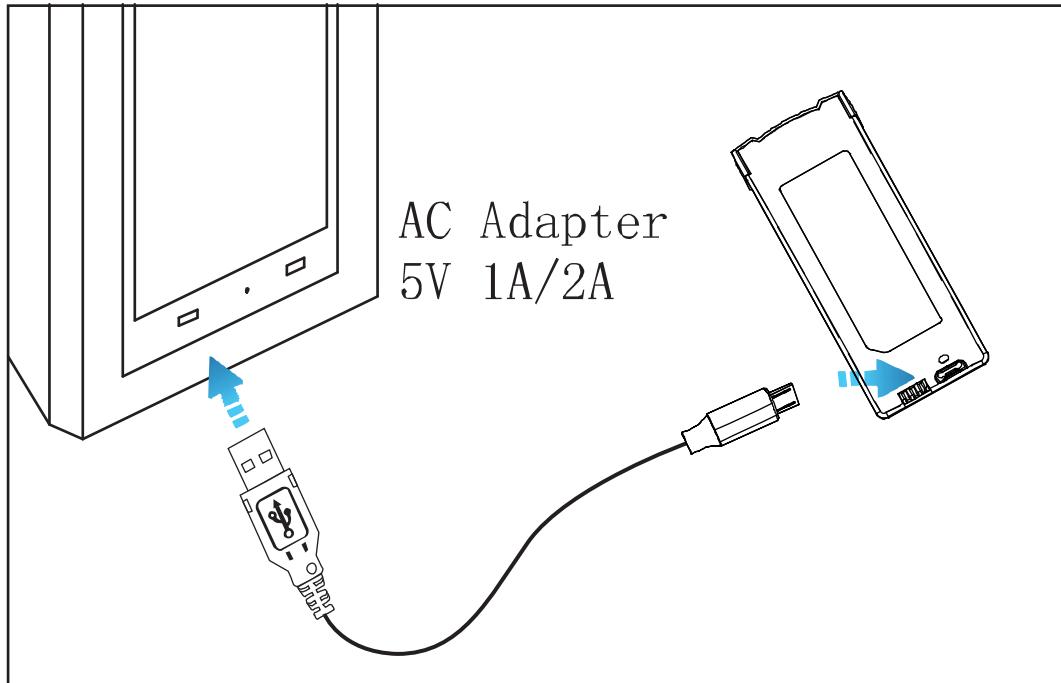


Picture 2



Part 5 Charging the Battery of Drone

1. Connect one end of the USB charging cable to the power port of the adapter and the other end to the battery charging port. When charging, the battery indicator light will remain red and remain unchanged. When the battery is fully charged, the red indicator light will turn off.
2. Charging time is approximately 60 minutes.

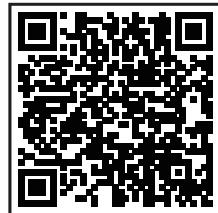


Tips:

- Keep the charger current minimum 5V/1-2A.
- Do not charge or store the battery in high-temperature, high-humidity, or flammable environments, as it may lead to battery damage or explosion.
- Avoid impacting the battery with hard objects.
- Non-professionals should not attempt to disassemble the battery.
- Please use the original USB charging cable for battery charging.

Part 6 Using the App

6.1 PL FPV App Installation instructions



IOS(App Store)/Android(Google Play)

Please scan the QR code below and download PL FPV from the App Store (you can also search "PL FPV" in the app store for download)

6.2 Connect to WIFI

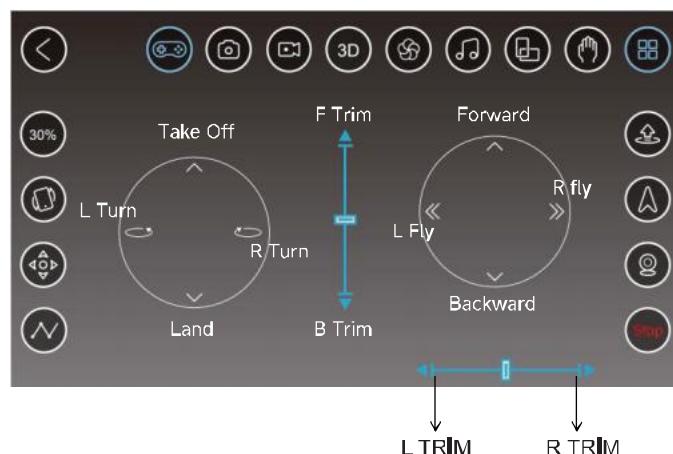
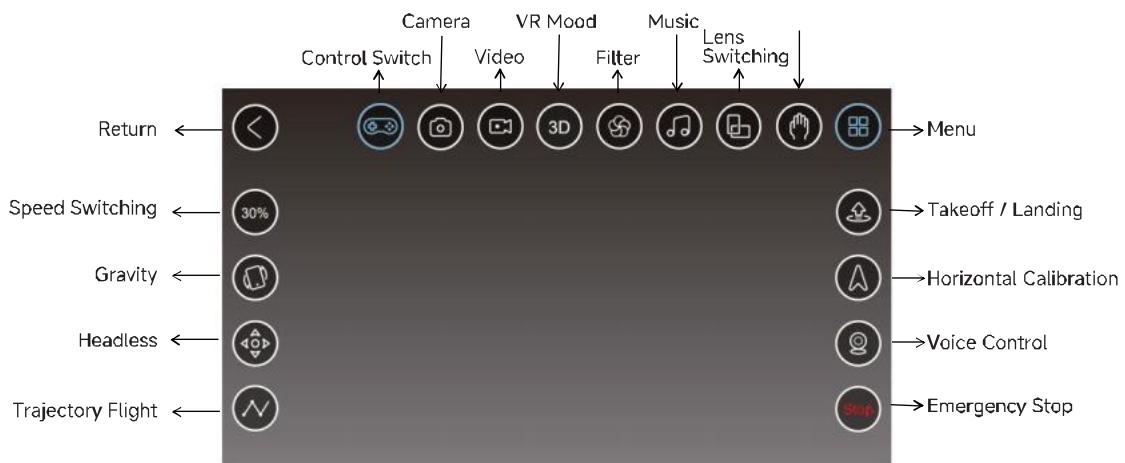
- Turn on the drone power.
- Click the "setting"menu of the mobile phone to enter the WiFi setting page and turn on the WiFi switch.
- Find the specified WiFi name "PL-516 Drone xxxxxx" in the WiFi list, click Connect and wait for the connection to succeed and then exit the setting interface.
- Open "PL FPV" enter the interface as shown in the figure, click the screen to enter the control interface, and then you can see the camera return screen.



6.3 Main Interface Function



6.4 Control Interface Function



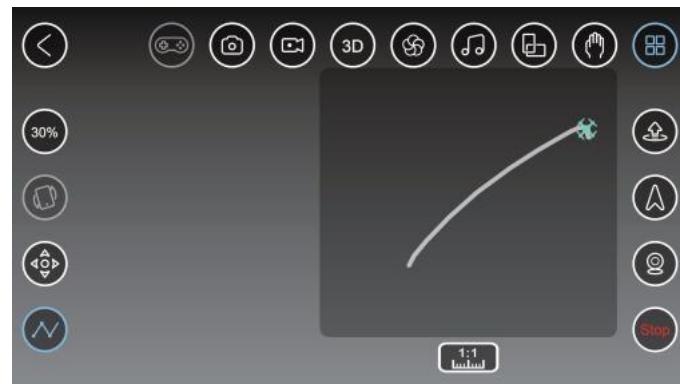
6.5 Functions

6.5.1 Trajectory flight

1. Turn on the "control switch", click the "track flight" button, and the interface shown in Figure 1 pops up, Trace the route on this interface, and the aircraft will fly according to the trace.

2. After the dialog box depicts the trajectory, the aircraft flies according to the depicted trajectory.

Remark: the flight trajectory is used when the drone hovers.

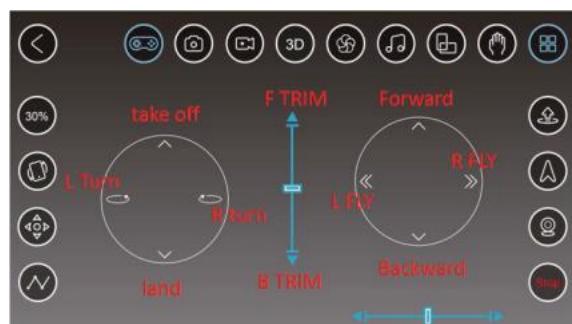


6.5.2 Voice Control

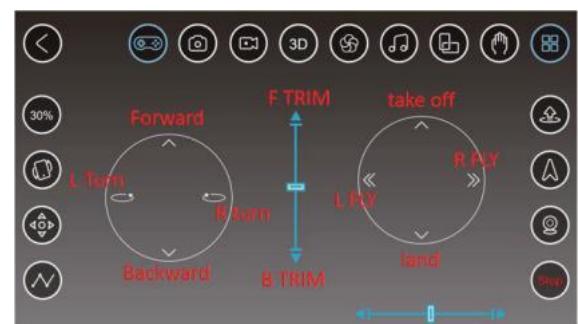
Turn on the "control switch" and click the "voice control" button; Voice command: Fly Land Forward Backward Left Right PhotoRecord.

Remark: use in noisy environment will lead to low recognition rate.

6.5.3 Left Throttle / Right Throttle



Left Throttle



Right Throttle

6.6 Gesture Photography /Video Recording



Yeah Gesture Photography

Stand approximately 2 meters in front of the aircraft's camera, then hold one hand flat and make the peace gesture. Once the aircraft successfully identifies the gesture, it will commence a countdown and automatically take photos after 3 seconds.



Palm Gesture Video

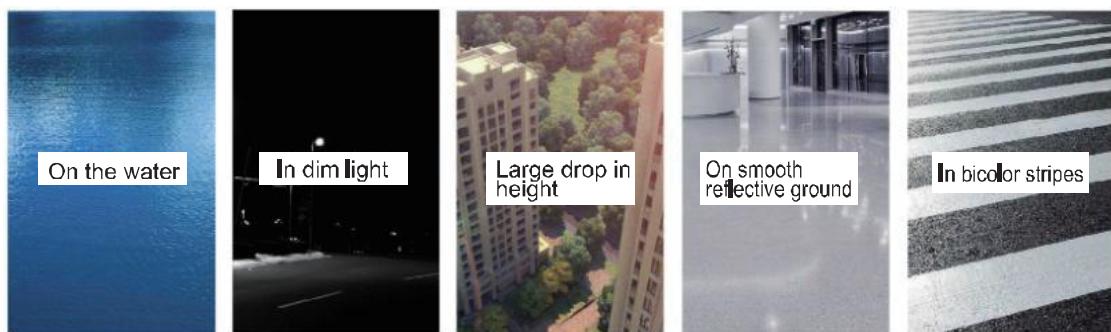
Stand approximately 2 meters in front of the aircraft lens and close your fingers while holding one hand flat. After the aircraft successfully identifies the gesture, it will initiate a 3-second countdown and automatically start video recording. Repeat the gesture recognition process until the recording is complete. Please ensure that the time interval between two recognitions is greater than 3 seconds.

Remarks:

To enhance the recognition rate, please aim directly at the lens as much as possible and ensure you're flying in a well-lit environment. Additionally, be aware that a weak or interfered WiFi signal can also decrease the recognition rate.

Warning:

1: Fixed-point hovering may be poor in the following environments.



2. Picture transmission fluency may be easily disturbed in areas with dense WiFi signals.

6.7 APP Usage Precautions and Common Problem Solutions

| Requirement |
|--|
| 1. Software requirements: Android 6.0 or above, iOS 10.0 or above, with a minimum of 1GB of RAM. |
| 2. Hardware requirement: iPhone 6 or newer models. |
| 3. Requirement: Allow network access during usage. |
| No drawing exception handling |
| 1. Ensure Wi-Fi is enabled in the mobile application settings. |
| 2. Restart the app and proceed. |
| Reconnection failed |
| 1. Attempt Wi-Fi reconnection, ensuring other networks are forgotten. |
| App flash back (crash) |
| 1. Please contact us or update the app. |

Part 7: Operation Guide

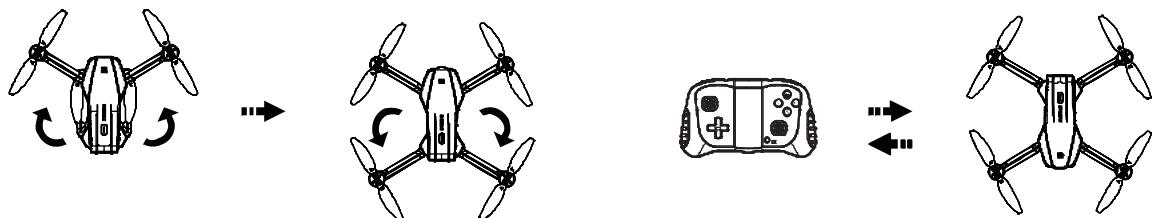
7.1: Pair the Controller with the Drone

1. Begin by opening the wings, unfolding the front arms, and then the rear arms (as shown in figure 1).
2. Turn on the drone again and place it on a flat surface with the head facing forward (the LEDs on the drone will flash).
3. Next, turn on the controller. Upon powering on, the controller will emit a "D D" sound.

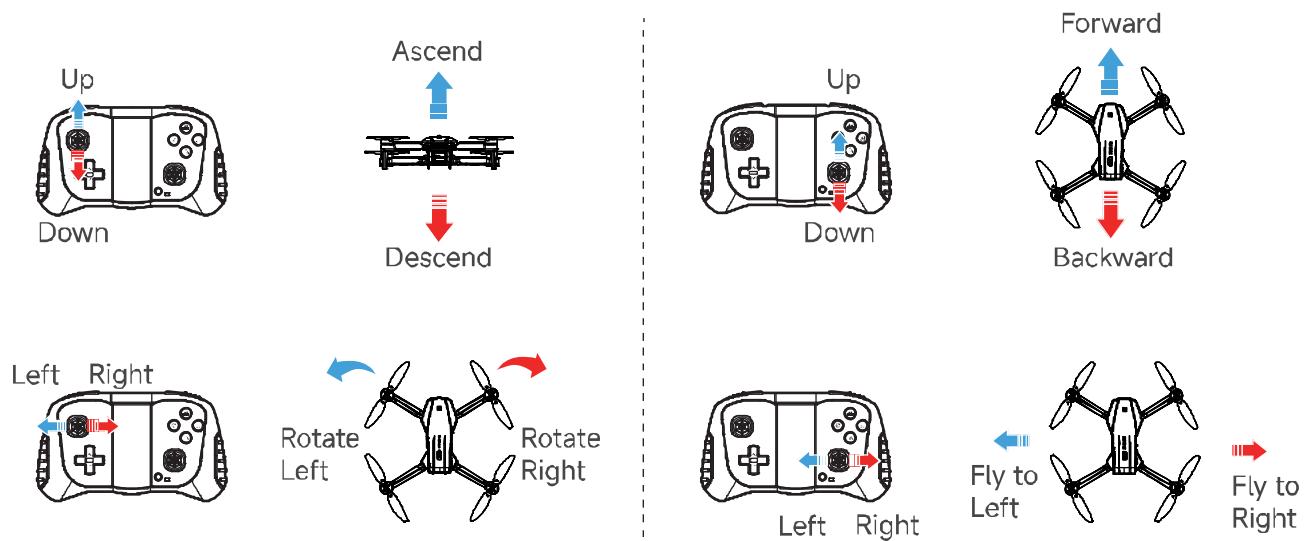
Important Note:

1. Ensure the drone is placed on a level surface to facilitate pairing with the controller.
2. Verify that the power indicator of the drone is illuminated before turning on the controller to ensure successful pairing.

3. If the drone continues blinking and fails to take off after powering on the controller, it indicates low battery. Please charge the drone.
4. If pairing fails, turn off both the drone and the controller, then repeat the steps.



7.2: Joystick Operation



7.3 Calibrating the Drone

Simultaneously push the left and right control levers on the remote control to the bottom right or bottom left corner at a 45 ° angle. The remote control will emit a beep sound, and the drone's lights will transition from stable to flashing, and then return to stable, indicating that the horizontal calibration is complete.



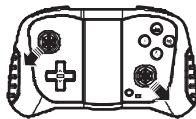
Note:

1. If the drone is not flying stably, land it on a level surface and perform a calibration.
2. For an optimal flying experience, calibrate the drone before each flight.

7.4 Take-Off / Landing & Emergency Landing

7.4.1 Take Off

Method 1



1: Push the left control stick on the remote control to the bottom left at a 45° angle or the right control stick to the bottom right at a 45° angle. The remote control will emit a "beep" sound, and the propeller blades will rotate slowly, indicating that the drone is unlocked.



2: After unlocking the drone, push the left control stick on the remote control upward to lift the drone off the ground.

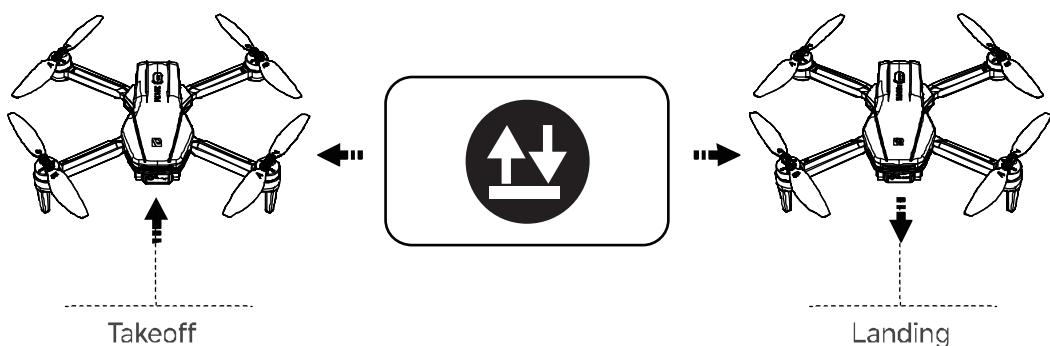
Method 2



When the drone is in a stationary state after frequency matching, press the "One-Key Takeoff" button on the remote control. The drone will automatically ascend to a height of approximately 1.2 meters and hover.

Note:

Press the One Key Take-off button, the drone will fly up and hover at about 1.5 meters height. Please place the drone on the **flat surface** with enough climbing space before taking off.



7.4.2 Landing

Method 1



Push the left control stick (throttle) down to the lowest position and hold it for 2 to 3 seconds. The drone's rotors will stop, and it will descend to the ground, shutting down the propellers.

Method 2



While the drone is in flight, briefly press the " One-Key Down" button, and the drone will descend slowly to the ground, shutting down the propellers.

Note:

While the drone is flying at high altitude, press the " One-Key Landing" button on the remote control. The drone will descend gradually. During the descent, you can use the right oystick to control the drone's landing to a specific location, and the propellers will stop rotating.

7.4.3 Emergency Landing

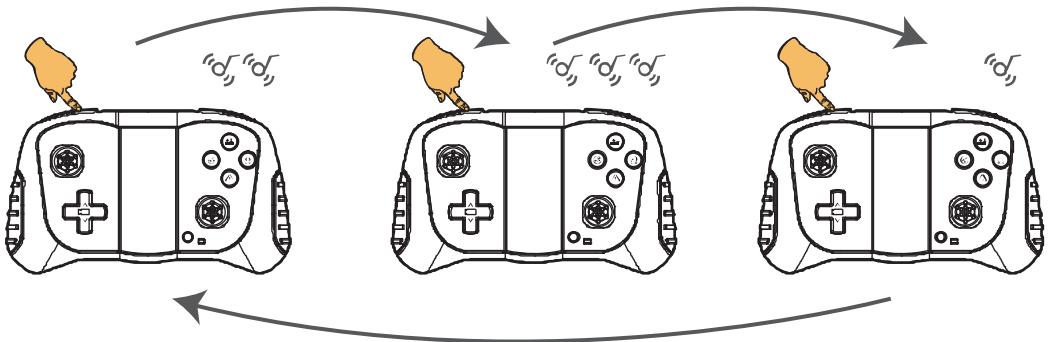
-  When an emergency occurs during drone flight, please hold down the "Emergency Stop" button on the remote control. The drone will immediately stop and land to prevent potential harm.

Part 8: Function Details

8.1 Mode of High / Medium / Low Speed

-  By default , the drone is set at a low-speed level. To increase the speed , press the 'Speed Switch' button on the controller : it will emit a'di di 'sound , indicating it is now at medium speed level . Press it again , and it will emit a ' di di di' , indicating high-speed level .

| Speed | Flying for the environment | Gear Adjustment Sound |
|--------------|---|-----------------------|
| Low Speed | Flight speed 4m/s, suitable for indoor and outdoor use in windless conditions | di |
| Medium Speed | Flight speed 5.0m/s, suitable for outdoor use in light wind conditions | di,di |
| High speed | Flight speed 6m/s, suitable for high speed flights | di,di,di |

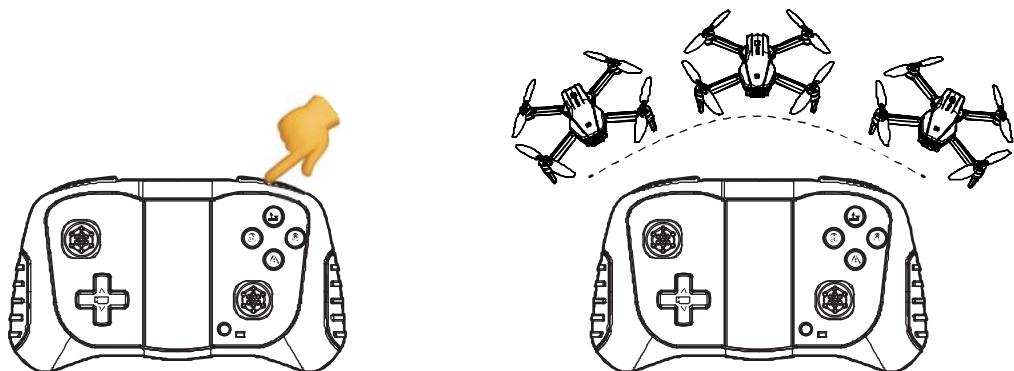


8.2 360° Flips

 After flying the drone to a height of over 2 meters , press down the ring joystick to activate the 360° flips function . Then move the right control stick forward , backward , leftward , or rightward to flip the drone accordingly.

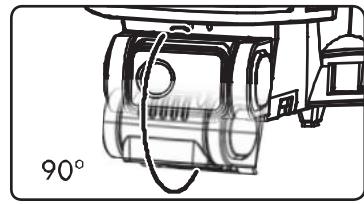
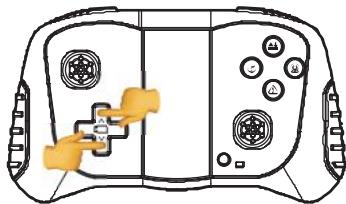
Note:

1. This function can't be activated when the battery of the drone is low.



8.3 Camera Angle Adjustment

During the flight,you can press the camera button to adjust the camera title up/down
(The camera has 90°tilt angle).

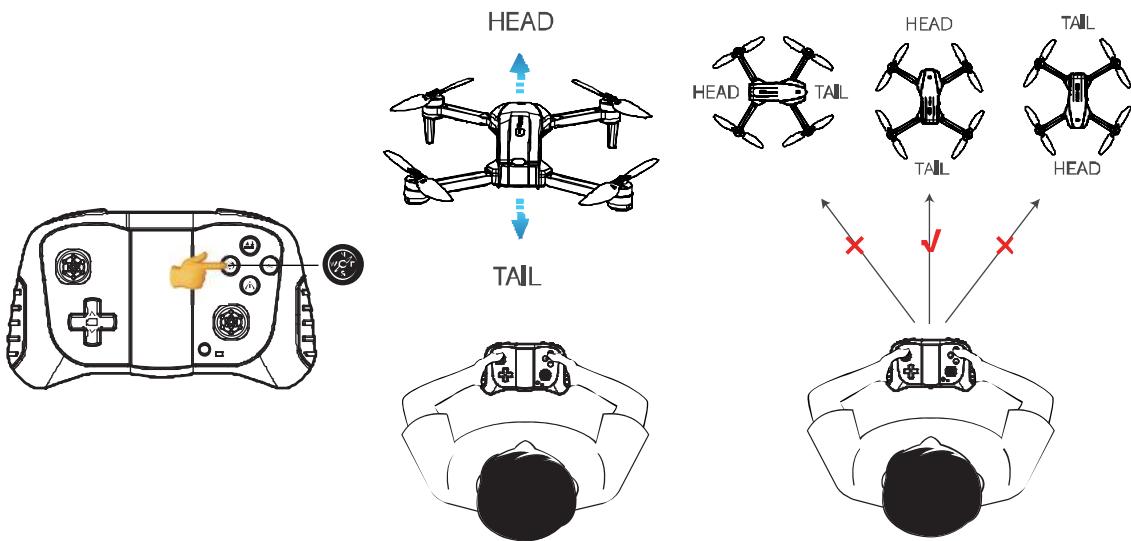


8.4 Headless Mode

Important Note:

Please familiarize yourself with the Headless Mode function first before using it.Otherwise, there is a risk of losing the drone an incurring Unnecessary loss.

1. After pairing or calibration,short press the Headless Mode button On the remote controller. In Headless Mode,the indicator light of theDrone will keep flashing, and The remote controller will make a didi sound.
- 2.Short press the headless mode button again, the indicator light on the drone will remain on, indicating that the drone has exited headless mode.



Ensure that the pilot remains facing the same direction as the drone's head at takeoff.

While in Headless Mode, pushing the right joystick forward will make the drone fly in the direction its head faced during takeoff. To maintain awareness of the drone's direction, we recommend the pilot stays facing the same direction as the drone's head during takeoff. This ensures that when the pilot pushes the right joystick forward or backward, the drone moves in the corresponding direction relative to the pilot. Similarly, if the pilot right joystick left or right, the drone will move left or right relative to the pilot.

8.5 Remote control Photo / Video

1. Short press the remote control camera button  , the drone's top LED light flashes once, indicating successful photo capture.
2. Long press the remote control camera button  , the drone's top LED light flashes rapidly, entering video recording mode;
3. Press the remote control camera button  again for a long time, the drone's top LED light changes from flashing to steady, exiting video recording mode.

8.6 Optical Flow Positioning

The drone is equipped with Optical Flow Positioning function. When not operated, the Optical Flow Positioning function is automatically activated within 2 seconds and the drone will hover steadily within a fixed range.

Tips:

1. When controlling the drone to left/right, the Optical Flow Positioning function will be automatically disabled. When not operating, the Optical Flow Positioning function will automatically activate within 2 seconds.
2. keep sensor clean at all times.
3. The vision system is only effective when the drone is within the altitude range of 10 meters.
4. Make sure that the light is bright enough and the surfaces are with clear textures so that the vision system can acquire the movement information through recognizing the ground textures.
5. The vision system may not function properly when the drone is flying over water, low light ground and surfaces without clear patterns or textures.

Part 9 Troubles Shooting

| Problems | Reasons | Solutions |
|---|--|--|
| The light on the drone are flashing and the drone is not responding | Insufficient battery power | Fully charge the battery |
| | Controller is NOT connected to the drone | Turn off the drone and controller. Reconnect them by turning on the drone first then the controller. |
| | Unbalanced position | Place the drone on a horizontal flat surface and reconnect them |
| | Cannot pair due to the drone being powered on for a long time. | Turn off the drone and controller. Reconnect them by turning on the drone first |
| The propellers spin but doesn't take off | Insufficient battery power | Fully charge the battery |
| | Propellers NOT installed correctly | Check the propellers installation (A to A, B to B). |
| | Damage propellers | Replace new propellers |
| | Something being caught in the propellers or gears. | Clear gears and propellers |
| The drone doesn't fly properly after a crash | Propellers NOT installed correctly; | Check the propellers (A to A, B to B). |
| | Damaged propellers | Replace new propellers |
| | The balance of gyro is confused; | Calibrate the drone or press trim button to fine tune the direction |
| | Propellers have hit the Blade Guard | Make sure blades work well |
| | Motor burnt out | Replace motors |
| Drone shaking during flight / noisy propeller | Damaged propeller | Check the propellers (A to A, B to B). |
| | | Replace new propellers |
| | Jibs not fully open | Open the propeller arm completely. |

Part 10 Maintenance and Care

1. Check thoroughly, including the propellers, every time after a crash or violent impact.
2. Before the first flight, learn how to apply the "Emergency Land" function, which is on page 16 of this manual.
3. Do not charge the battery if it is hot. Let it cool down first.
4. If you do not plan to use your drone for an extended period, remove the batteries from the controller to avoid battery leakage, which may damage the controller.
5. Keep the drone and the controller in a location where is cool and dry, and avoid longtime exposure to direct sunlight.

Part 11 FAQs

Q: Why won't my drone take off?

A: To troubleshoot the issue, please follow these steps:

1. Ensure that the propellers are undamaged, and the batteries are fully charged.
2. Connect both the drone and the remote control to the same frequency. Turn on both devices, and after a few seconds, you should hear a 'drop' sound, indicating successful frequency pairing. Once paired, the blinking on the drone and remote control should cease.
3. Push the left joystick of the remote control upward, or utilize the one-touch takeoff function on the remote. If you still encounter difficulties taking off, feel free to reach out to our online customer service. We are committed to providing you with detailed after-sales assistance.

Q: How can I tell when the battery is low, and will the RC drone suddenly drop from a height?

A: When the battery is nearly depleted, the drone signals low battery with rapid flashing lights, accompanied by the remote control emitting a "di, di, di" sound to warn you. Additionally, the app will provide a notification urging you to either return the RC drone to its takeoff point or fly at a lower altitude. Simultaneously, the drone will gradually descend when the battery is low.

Q: My drone takes off and drifts, what should I do?

A: If your drone tends to drift after takeoff, follow these steps to address the issue:

1. Place the drone on a flat, horizontal surface to ensure stability.
2. Before flying, perform a gyroscope calibration. This helps the drone sense its own attitude, providing enhanced stability during flight."

Q: What are the three speeds of drone regulation?

A: The drone regulation includes three speeds: 3.6m/s, 5.0m/s, and 6.6m/s. For an optimal flight experience, it is advised to use the first speed for indoor flying and the second or third speed for outdoor flights.

Q: Can I control two drones simultaneously with one remote control?

A: Unfortunately, this is not possible. Our remote control and drone operate on a one-to-one frequency pairing system. Once successfully paired, the remote control cannot be matched with another drone, and vice versa.

Q: I can't view the drone screen when I open the app what's wrong?

A: If the drone's battery is too low, successful connection may not be possible. If you encounter any further issues or have additional questions, please reach out to our online customer service for detailed assistance.

Part 12 Limited 18-Month Warranty

**What this warranty covers?**

PLEGBLE warrants to the original purchaser of the product that the product shall be free of defects in design, assembly, material, or workmanship.

What the period of coverage is?

PLEGBLE warrants the product for 18 Months.

What will we do to correct problems?

PLEGBLE will repair or replace, at its option, any defective product free of charge(except for shipping charges for the product).

What is not covered by this warranty?

All above warranties are null and void if the PLEGIBLE product is not provided to PLEGIBLE for inspection upon PLEGIBLE's request at the sole expense of the purchaser, or if PLEGIBLE determines that the PLEGIBLE product has been improperly installed, altered in any way, or tampered with. The PLEGIBLE Product Warranty does not protect against acts of God such as flood, earthquake, lightning, war, vandalism, theft, normal use wear and tear, erosion, depletion, obsolescence, abuse, damage due to low voltage disturbances(e.g.brownouts or sags), non-authorized program, or system equipment modification or alteration.

How to claim the warranty?

Please contact retailers or visit support_us@plegble.store for more information. To extend the warranty period, please visit our website and register as our member within 1 month of purchasing the product.

Disclaimer

While every effort has been made to ensure that the information and procedures in this guide are accurate and complete, no liability can be accepted for any errors or omissions. We reserve the right to make changes without further notice to any products mentioned herein.

Part 13 FCC Statement

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.

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.
- (2) this device must accept any interference received, including interference that may cause undesired operation.

Caution!

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

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

 customerservice_uk@plegle.store

 **Walker Boundless Limited**

 **FLAT A516, 5/F, EFFICIENCY HOUSE, 35 TAI YAU STREET,
SAN PO KONG, KOWLOON, HONG KONG**



Made in China



Made in China

✉ support_us@plegble.store

🏢 Walker Boundless Limited

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