

PLEGBLE PL-516

PLEGBLE PL-516 Drone User Manual

Model: PL-516
Brand: PLEGBLE

1. INTRODUCTION

Welcome to the user manual for your new PLEGBLE PL-516 Drone. This drone is designed for both beginners and experienced pilots, offering a blend of advanced features, ease of use, and robust performance. With its 4K camera, brushless motor, and intelligent flight modes, the PL-516 provides an immersive and stable flying experience. Please read this manual thoroughly before operating your drone to ensure safe and optimal performance.



The PLEGBLE PL-516 drone in flight, showcasing its sleek design and capabilities.

2. PRODUCT OVERVIEW

2.1 Key Features

- **4K HD Camera:** Features a 130° wide-angle lens and 90° adjustable view for high-definition capture and smooth FPV transmission.

- **Brushless Motor:** Provides enhanced stability, efficiency, and wind resistance compared to brushed motors, ensuring a longer lifespan and consistent performance.
- **Enhanced Safety:** Includes a child lock, propeller guards for safe indoor flying, an Anti-Lost Alarm (activates after 10 minutes of inactivity), low battery alerts, and an emergency stop function.
- **Extended Flight Time:** Dual enhanced batteries offer up to 28 minutes of flight time.
- **Rapid Charging:** USB 3.0 technology allows for quick battery charging.
- **Portable Design:** Foldable structure and included storage box make it highly portable.
- **Ultra-lightweight:** Weighs under 250 grams, exempting it from FAA or remote ID registration in the U.S.
- **Multifunctional Control:** Supports remote control, app control, and voice control. Features gesture photo capture, optical flow positioning, one-key takeoff/landing, and altitude hold.
- **Versatile Flight Modes:** Offers low, medium, and high-speed modes to adapt to different skill levels and flying conditions.

2.2 What's in the Box

- PLEGBLE PL-516 Drone
- Remote Control
- Carrying Case
- Batteries (2 included)
- Propellers (spare set included)
- Propeller Guards
- User Manual



The PLEGBLE PL-516 Drone with all its components.



Brushless Motor



Brushed Motor

Overheated motor caused gear slip, leading to loss of control.

Comparison of Brushless vs. Brushed Motors.



4K UHD 130° Camera, 90° Adjustable

Enhanced visuals, stabilized imagery

4K UHD 130° Camera with 90° Adjustable View.

Ultra Lightweight, Under 249g

No Remote ID or FAA Registration Required



The PL-516 drone is ultra-lightweight, weighing under 250g.

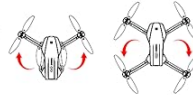
1

After assembling the drone battery, press and hold for 3 seconds to power on.



2

Rotate the drone arms outward and place the drone flat on the ground, ensuring that the drone camera aligns with the user's line of sight.



3

Power on the remote control after assembling the battery. The drone and remote control will automatically synchronize frequencies. The LED light on the drone will flash on the right side and then turn solid, indicating successful frequency synchronization.



4

Simultaneously push the left and right control sticks on the remote down to a 45° angle. The LED light on the drone will transition from solid to flashing and back to solid, and a beep will sound from the buzzer, indicating successful gyroscope calibration.



5

Press the one-key takeoff button on the remote control for successful takeoff.



QUICK START

The drone's compact, foldable design.

After



sale



2 year



24 Months

If your PLEGBLE drone experiences a breakdown within 2 year of delivery due to normal usage, we'll replace it at no cost to you.



The drone's portability for travel and outdoor activities.

3. SETUP

3.1 Battery Installation and Charging

Insert the fully charged battery into the drone's battery compartment until it clicks into place. Ensure the battery is securely seated. To charge, connect the battery to the provided USB 3.0 charging cable and plug it into a compatible USB power source. The charging indicator will show the charging status.

Rapid Parallel Charging

Save Time by **3x**

Charge 1 batteries in 1 hour, while others need 3 hours



Rapid parallel charging for quick turnaround.

3.2 Propeller Guard Installation

For stable flight and safety, especially indoors or for beginners, attach the propeller guards to each motor arm. Align the guard with the designated slots and gently push until it snaps into place.

3.3 Drone Unfolding

Carefully unfold the drone's arms until they are fully extended and locked into position. Ensure all arms are securely in place before powering on.

3.4 Controller Setup and App Connection

Install batteries into the remote control. Download the 'PL FPV' app on your smartphone. Connect your phone to the drone's Wi-Fi network (found in your phone's Wi-Fi settings). Open the app to establish a connection with the drone.

3.5 Quick Start Guide

1. After assembling the drone battery, press and hold for 3 seconds to power on.
2. Rotate the drone arms outward and place the drone flat on the ground, ensuring that the drone camera aligns with the user's line of sight.
3. Power on the remote control after assembling the battery. The drone and remote control will automatically synchronize frequencies. The LED light on the drone will flash on the right side and then turn solid, indicating successful frequency synchronization.
4. Simultaneously push the left and right control sticks on the remote down to a 45° angle. The LED light on the drone will transition from solid to flashing and back to solid, and a beep will sound from the buzzer, indicating successful gyroscope calibration.
5. Press the one-key takeoff button on the remote control for successful takeoff.



Visual Quick Start Guide.

4. OPERATING INSTRUCTIONS

4.1 Basic Flight Controls

Familiarize yourself with the remote control layout. The left joystick typically controls altitude (up/down) and rotation (left/right), while the right joystick controls forward/backward and left/right movement. Use the one-key takeoff/landing button for easy initiation and termination of flight. The altitude hold feature maintains the drone's height automatically.

Transmitter Control at Your Fingertips



Three-Speed Adjustment



360° Flip

Transmitter Control at Your Fingertips.

4.2 Advanced Features

- **FPV (First-Person View):** View real-time footage from the drone's camera on your connected smartphone via the 'PL FPV' app.
- **4K Camera Usage:** Short press the designated button on the remote for photos, long press for video recording. Adjust the camera angle by 90° for optimal shots.
- **Voice Control:** Enable voice control in the 'PL FPV' app to pilot the drone using spoken commands like "Forward," "Backward," "Fly," and "Land."
- **Gesture Control:** Perform specific hand gestures in front of the camera to trigger photo capture.
- **Speed Modes:** Switch between 3 flight speeds (low, medium, high) to match your flying skill and environmental conditions. Use speed mode 1 for indoor flight and speed mode 3 for outdoor flight.
- **360° Flip:** Execute impressive aerial stunts with the dedicated 360° flip function.
- **Optical Flow Positioning:** Ensures stable flight, even in environments with weak GPS signals.

Versatile Flight Modes

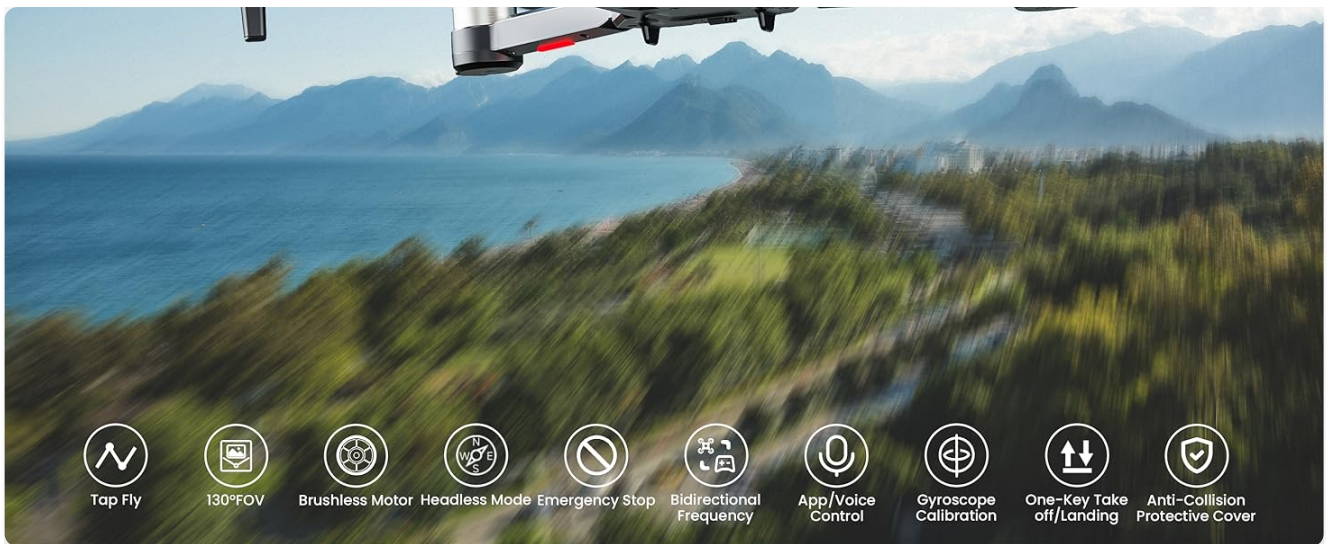
3 Flight Modes: low speed, medium speed and high speed (enhanced flight modes for outdoor fly), whether you're a beginner or an advanced pilot, these flexible modes adapt to your skill level.



Experience FPV flight with your smartphone.



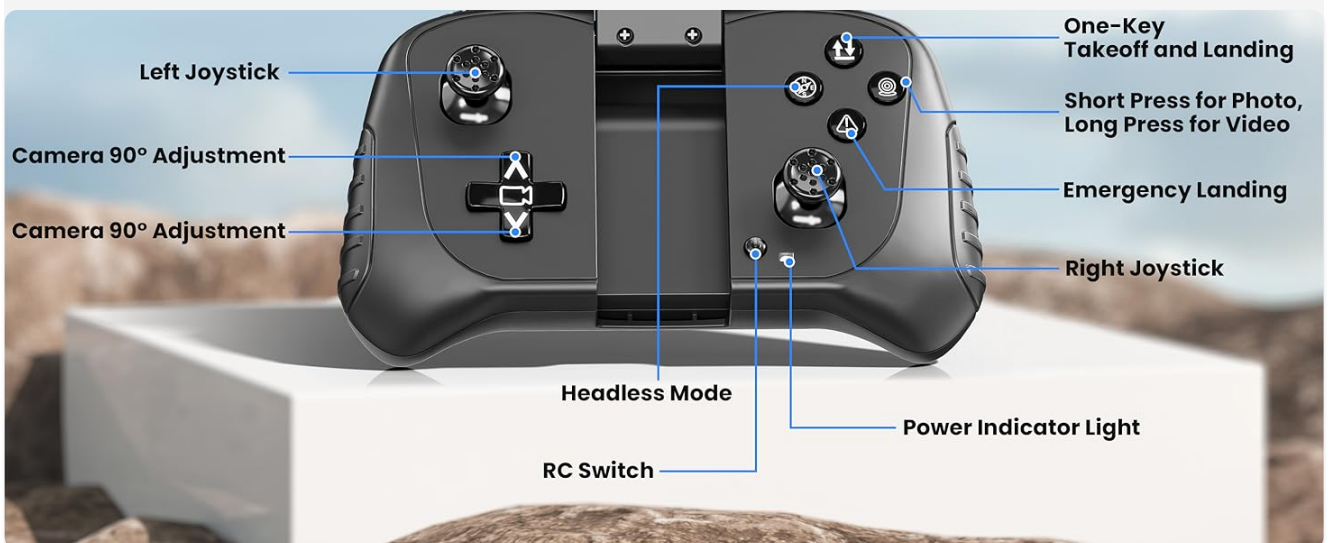
Control your drone with voice commands.



Choose from three versatile flight modes.

4.3 Flight Environment Considerations

- Avoid flying in strong winds, as the drone's lightweight design can be affected.
- Ensure the drone's orientation is aligned with yours during outdoor flights for accurate control.
- Maintain a clear line of sight with the drone at all times.
- Do not operate near crowds, buildings, or obstacles.



Enjoy flying your drone in open spaces.

5. MAINTENANCE

- **Propeller Inspection:** Regularly check propellers for any damage (cracks, bends). Replace damaged propellers immediately using the spare set provided.
- **Battery Care:** Store batteries in a cool, dry place. Do not overcharge or completely drain batteries. Follow safety guidelines for Lithium Polymer batteries.
- **Cleaning:** Use a soft, dry cloth to clean the drone body and camera lens. Avoid using harsh chemicals or liquids.
- **Storage:** When not in use, fold the drone and store it in its carrying case to protect it from dust and damage.

6. TROUBLESHOOTING

- **Drone not responding to remote:** Ensure both the drone and remote are powered on and properly synchronized. Re-calibrate the gyroscope if necessary (refer to Quick Start Guide).
- **Unstable flight:** Check that propeller guards are installed correctly. Ensure propellers are not damaged and are securely attached. Re-calibrate the gyroscope. Avoid flying in windy conditions.
- **No FPV feed:** Verify your smartphone is connected to the drone's Wi-Fi network and the 'PL FPV' app is open.
- **Short flight time:** Ensure batteries are fully charged. Flight time can vary based on flight style (aggressive maneuvers consume more power).
- **Anti-Lost Alarm:** If the drone is inactive for 10 minutes, the Anti-Lost Alarm will activate. Retrieve the drone promptly.

For further assistance, please refer to the comprehensive video tutorials and instructions available through PLEGBLE customer support.

7. SPECIFICATIONS

Feature	Specification
Brand	PLEGBLE
Model Name	PL-516
Item Weight	0.14 Kilograms (4.9 ounces)
Product Dimensions	11.29"L x 9.84"W x 1.96"H
Video Capture Resolution	4K
Camera View	130° Wide-Angle, 90° Adjustable
Connectivity Technology	Wi-Fi
Battery Capacity	1500 Milliamp Hours
Battery Type	Lithium-Cobalt (2 included)
Control Type	Remote Control, App Control, Voice Control
Maximum Range	0.09 Miles
Optical Sensor Technology	Optical Flow, Infrared
Age Range	Kid, Adult

8. WARRANTY AND SUPPORT

8.1 Warranty Information

If your PLEGBLE drone experiences a breakdown within **2 years** of delivery due to normal usage, PLEGBLE will replace it at no cost to you. Please retain your proof of purchase for warranty claims.



Let Your Voice Lead the Way

Simply enable the voice control feature in the "PL FPV" App, and you're ready to pilot the PL516 drone using spoken commands.

PLEGBLE 2-Year Warranty.

8.2 Customer Support

For any questions, technical support, or assistance with your PLEGBLE PL-516 drone, please feel free to contact customer support. Comprehensive video tutorials and instructions are also available to help you maximize your drone's potential.

You can find additional resources and contact information at: linktr.ee/plegble_drone

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