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> IDEA36 GPS Drone User Manual

le-idea IDEA36

IDEA36 GPS Drone User Manual

Model: IDEA36 | Brand: le-idea

1. INTRODUCTION

This manual provides comprehensive instructions for the safe operation, setup, and maintenance of your le-idea IDEA36 GPS Drone. The IDEA36 is a sophisticated quadcopter equipped with a 4K camera, GPS positioning, brushless motors, and 5GHz WiFi FPV capabilities, designed for both beginners and experienced users. Please read this manual thoroughly before operating the drone to ensure proper function and safety.

2. SAFETY PRECAUTIONS

Operating a drone requires attention to safety. Adhere to the following guidelines to prevent injury or damage.

- Always ensure the aircraft is fully charged before flight.
- Do not touch the aircraft while its flying.
- Do not fly near obstacles, people, or pets.
- Do not use if the aircraft is damaged or low on battery.
- Adult supervision is always recommended for users under 14 years of age.
- Please fly responsibly and adhere to local regulations.

IDEA 36

FPV DRONE

⚠️ AVERTISSEMENT:
RISQUE D'ÉTOUFFEMENT
PETITES PIÈCES. PAS POUR LES
ENFANTS DE MOINS DE 3 ANS.

⚠️ WARNING:
ERSTICKUNGSGEFAHR
KLEINE TEILE. NICHT FÜR KINDER
UNTER 3 JAHREN.

⚠️ WARNING:
CHOKING HAZARD
SMALL PARTS. NOT FOR CHILDREN
UNDER 3 YEARS.

⚠️ PRECAUCIONES:
PELIGRO DE AHOGARSE
CONTIENE PARTES PEQUEÑAS.
NO RECOMENDADO PARA NIÑOS
MENORES DE 3 AÑOS.

⚠️ AVVERTIMENTO:
RISCHIO DI SOFFOCAMENTO
PICCOLE PARTI. NON ADATTO A
BAMBINI DI ETÀ INFERIORE A 3
ANNI.

⚠️ WAARSCHUWING:
STIKKINGSGEVAAR
KLEINE DEELTJES. NIET VOOR
KINDEREN ONDER DE 3 JAAR.

IDEA 36, FPV DRONE

Rated power: 5W
Working voltage: 5V
Input voltage: 5V

If the drone is not used for a long time (one month), please take out the body's battery and full charge it before store. Warnings: If meet any issues, please consult le-idea support.

le-idea

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EMAIL: SUPPORT@LE-IDEA.CN (24HR/7D)

CAUTIONS:

1. Make sure you always use new or fully charged batteries in the controller.
2. Do not touch the aircraft while it is flying; do not fly near obstacles, people or park.
3. Do not fly the aircraft that is damaged or low on battery.
4. Adult supervision is always recommended.
5. Please do not fly in winds above level 3.

WARNING!

RC model aircraft is not suitable for children under 14 year keep it away from children.
Carefully read the instruction before operation.
If you are beginner, it's advisable to be assisted by an experienced aircraft pilot.

EU	REP
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UK	REP
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High Wycombe HP14 3FE UK
EMAIL: info.cetservice@gmail.com

















MADE IN CHINA

Image: Back of the IDEA36 drone packaging, detailing safety warnings and product specifications.

3. PACKAGE CONTENTS

Verify that all items are present in the package before first use.

- IDEA36 GPS Drone (x1)
- Remote Controller (x1)
- Intelligent Flight Battery (x2)
- Spare Propellers (x4)
- USB Charging Cable (x1)
- Screwdriver (x1)
- Storage Case (x1)
- User Manual (this document)



Image: Overview of the IDEA36 drone and its included accessories, neatly arranged.

4. PRODUCT OVERVIEW

The IDEA36 drone incorporates several advanced features for an enhanced flight experience.

4.1. 4K HD Camera with Adjustable Angle

The drone is equipped with a 4K HD camera, providing high-resolution images and videos. The camera features a 120° Field of View (FOV) lens and can be adjusted by 90° to capture a wider range of perspectives.



Image: Visual representation of the drone's 4K camera capabilities, highlighting image clarity compared to 1080P.

4.2. GPS Global Positioning System

Integrated GPS technology ensures stable flight and enables intelligent functions such as Auto Return Home. This feature allows the drone to automatically return to its take-off point in cases of low battery, signal loss, or manual activation.



GPS RETURN TO HOME



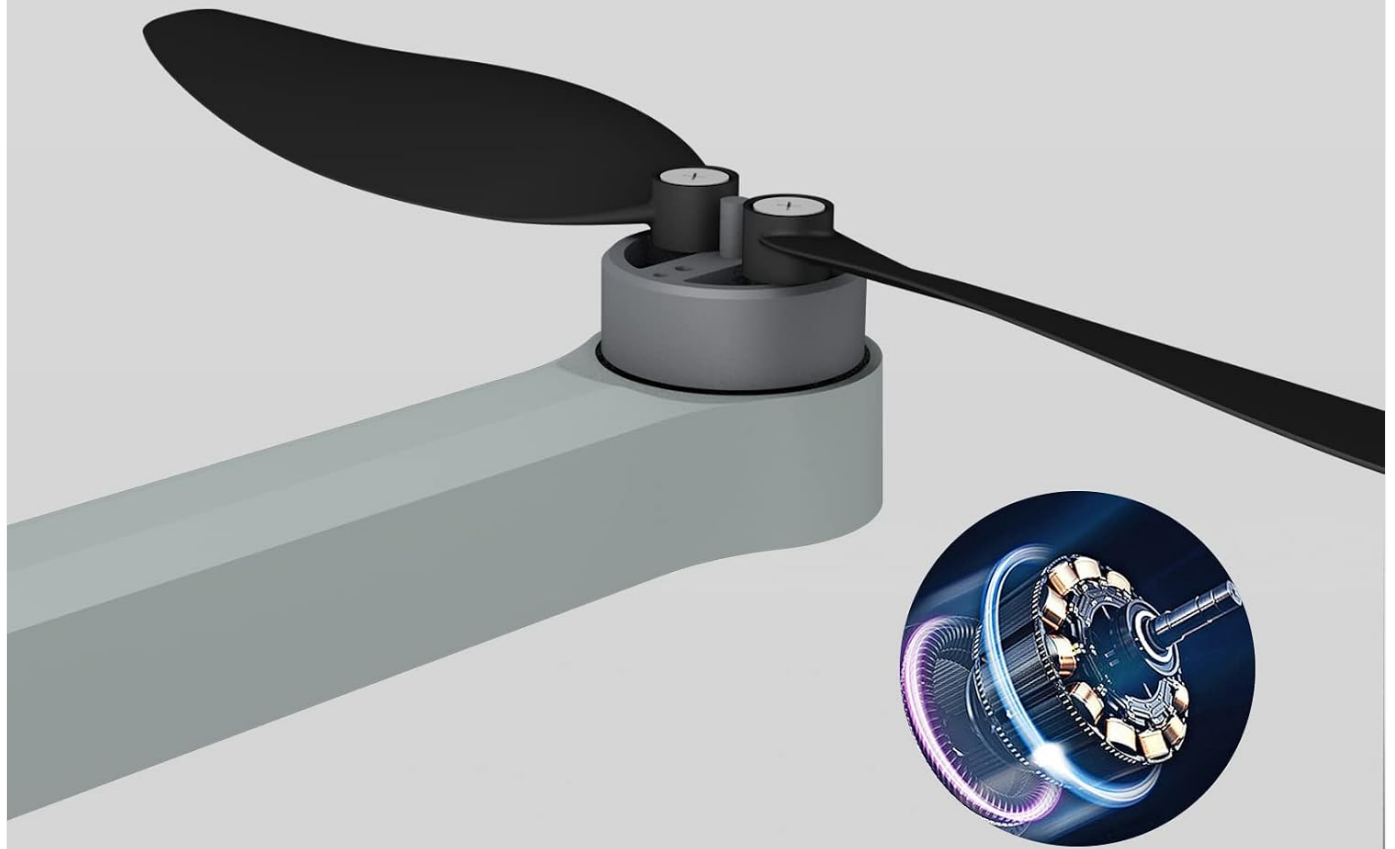
Image: Depiction of the GPS Return to Home feature, showing the drone's flight path back to the user.

4.3. Brushless Motors

The IDEA36 is equipped with brushless motors, which provide greater power, stability, and efficiency compared to traditional brushed motors. They also offer a longer lifespan and quieter operation.

BRUSHLESS MOTOR

Powerful and stable



Higher
Rotate Speed



Greater
Thrust Power



Higher
Efficiency



Longer
working life

Image: Detailed view of the brushless motor, illustrating its benefits for drone performance.

4.4. Optical Flow Positioning

The optical flow positioning system, utilizing a second camera on the drone's underside, allows for precise hovering indoors and outdoors. This feature enhances stability and makes the drone easier to control, especially for beginners.

Optical flow fixed altitude

Whether flying indoors or outdoors, the drone can hover stably in the air.



Image: Visual explanation of optical flow positioning, showing the drone maintaining a stable altitude.

4.5. 5GHz WiFi FPV Transmission

Experience real-time video transmission from the drone's camera to your smartphone via 5GHz WiFi. This provides a smooth and clear First Person View (FPV) for immersive flight.



5G FPV Transmission



Image: Diagram showing the 5GHz FPV transmission setup, connecting the drone to the remote and smartphone.

5. SETUP

5.1. Unfolding the Drone

1. Gently unfold the front arms of the drone until they lock into place.
2. Unfold the rear arms.
3. Ensure all arms are fully extended and stable before flight.

5.2. Battery Installation and Charging

1. **Drone Battery:** Insert the intelligent flight battery into the battery compartment on the drone until it clicks securely. To remove, press the release button and pull the battery out.
2. **Remote Controller Battery:** Open the battery cover on the back of the remote controller and insert the required batteries (check specifications for type, usually AA). Close the cover.
3. **Charging:** Connect the drone's intelligent flight battery to the USB charging cable. Connect the USB cable to a

suitable USB power adapter (e.g., 5V/2A). The indicator light on the battery will show charging status. Ensure batteries are fully charged before each flight.

5.3. Propeller Installation (if required)

If propellers are not pre-installed or need replacement:

1. Identify the 'A' and 'B' markings on the propellers and the corresponding motor arms.
2. Attach propeller 'A' to motor 'A' and propeller 'B' to motor 'B'. Ensure they are securely fastened. Incorrect installation will prevent proper flight.

6. OPERATING INSTRUCTIONS

6.1. Powering On and Pairing

1. Place the drone on a flat, open surface.
2. Press and hold the power button on the drone until the indicator lights turn on.
3. Turn on the remote controller. The controller will automatically attempt to pair with the drone.
4. Once paired, the drone's indicator lights will become solid.

6.2. GPS Signal Acquisition

For optimal performance and access to GPS features, ensure the drone acquires a sufficient number of GPS satellites before take-off.

- Place the drone outdoors in an open area, away from tall buildings or interference.
- Wait for the GPS indicator on the remote or app to show a strong signal (usually 7+ satellites).

6.3. Take-off and Landing

- **One-Key Take-off:** Press the One-Key Take-off button on the remote controller. The drone will automatically ascend to a safe altitude and hover.
- **Manual Take-off:** Push both joysticks down and outwards to arm the motors. Slowly push the left joystick up to ascend.
- **One-Key Landing:** Press the One-Key Landing button. The drone will automatically descend and land gently.
- **Manual Landing:** Slowly pull the left joystick down to descend. Once landed, push both joysticks down and inwards to disarm the motors.

6.4. Flight Controls

Familiarize yourself with the remote controller's functions:

- **Left Joystick:** Controls altitude (up/down) and rotation (left/right).
- **Right Joystick:** Controls forward/backward and left/right movement.
- Refer to the remote controller diagram in the full manual for specific button layouts.

6.5. Camera Operation

To capture photos and videos:

- Ensure your smartphone is connected to the drone's 5GHz WiFi network and the le-idea app is open.
- Use the dedicated buttons on the remote controller or the app interface to take photos or start/stop video recording.
- Adjust the camera angle using the designated control on the remote or app.

6.6. Intelligent Flight Modes

- **Auto Return Home (RTH):** Press the RTH button on the remote. The drone will return to its recorded take-off point. This function also activates automatically on low battery or signal loss.
- **Follow Mode:** (If available via app) The drone will follow the remote controller or a designated subject. Refer to the app instructions for activation.
- **Optical Flow Positioning:** This system automatically maintains the drone's position and altitude, especially useful in areas with weak GPS signals or indoors.

7. MAINTENANCE

- **Cleaning:** Use a soft, dry cloth to clean the drone and remote controller. Avoid using liquids or solvents.
- **Propeller Inspection:** Regularly check propellers for damage (cracks, bends). Replace damaged propellers immediately using the provided spare parts.
- **Battery Care:** Store batteries in a cool, dry place. Do not overcharge or over-discharge. If storing for extended periods, charge to approximately 50-60%.
- **Storage:** When not in use, store the drone and its accessories in the provided storage case to protect them from dust and physical damage.

8. TROUBLESHOOTING

Problem	Possible Cause	Solution
Drone does not power on.	Battery not charged or not inserted correctly.	Ensure battery is fully charged and securely inserted.
Drone cannot pair with remote.	Drone or remote not powered on; too far apart; interference.	Ensure both are on and close to each other. Restart both devices. Avoid areas with strong interference.
Poor FPV video feed or no image.	Weak WiFi signal; incorrect app settings; phone not connected to drone's WiFi.	Ensure phone is connected to the drone's 5GHz WiFi. Fly within range. Restart app and drone.
Drone drifts during flight.	Not calibrated; strong wind; weak GPS signal.	Perform gyroscope calibration. Fly in calm conditions. Ensure strong GPS signal outdoors.
Auto Return Home not working.	Insufficient GPS signal; RTH point not recorded.	Ensure strong GPS signal (7+ satellites) before take-off.

9. SPECIFICATIONS

Feature	Detail
Model	IDEA36
Brand	le-idea
Dimensions	28.6 x 22 x 7.9 cm

Feature	Detail
Weight	249 g
Camera Resolution	4K (Video Capture)
Camera Adjustment	90° Adjustable, 120° FOV
Motor Type	Brushless
FPV Frequency	5GHz WiFi
Positioning System	GPS, Optical Flow Positioning
Batteries	2 Lithium Ion batteries (included)
Special Features	Adjustable Camera, Auto Return, Integrated GPS, Optical Flow, Headless Mode, One-Key Lift/Land, Altitude Hold, Modular Battery, 3 Speed Modes, Photo/Video

10. WARRANTY AND SUPPORT

le-idea offers dedicated customer service to assist with any inquiries or issues you may encounter with your IDEA36 drone.

- **Manufacturer:** le-idea
- **Customer Service:** For support, please refer to the contact information provided on the product packaging or the official le-idea website.
- **Warranty:** Specific warranty terms and conditions may vary by region. Please retain your proof of purchase for warranty claims.

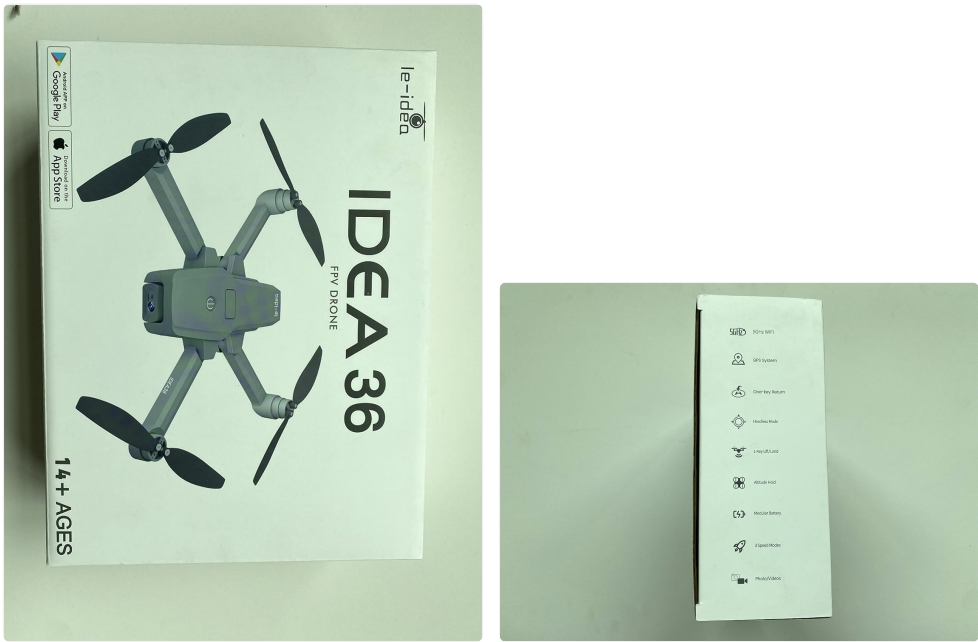


Image: Product packaging displaying brand and key features, useful for support information.

Ask about setup, troubleshooting, compatibility, parts, safety, or missing instructions. Manuals+ will review the question and use this page's manual context to help answer it.

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After a successful submission, we securely hash the supplied account or form email before sending it to Microsoft Advertising for conversion attribution. [Privacy details](#).

Question

Example: How do I reset this device or fix this error?

Details

Model number, symptoms, what you tried, or the section of the manual you are using.

Submit question

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