le-idea IDEA12 PRO

le-idea IDEA12Pro Brushless Motor Drone User Manual

Model: IDEA12 PRO | Brand: le-idea

1. Important Safety Information

Please read this manual carefully before operating the drone. Failure to follow instructions may result in damage to the product or personal injury.

- Always ensure batteries are new or fully charged before flight.
- Do not operate the drone near people, obstacles, or in restricted areas (e.g., airports, buildings).
- Adult supervision is recommended for users under 14 years of age.
- Avoid flying in winds above Level 3 (approx. 12 mph) to maintain stable control.
- Regularly inspect the drone for any damage before each flight.
- If the drone is not used for a long period (more than one month), remove the battery and fully charge it before storage.

For detailed safety guidelines and local regulations, consult relevant aviation authorities.

2. Product Overview and Components

The le-idea IDEA12Pro drone is a compact and powerful quadcopter designed for both beginners and experienced pilots. It features a brushless motor for enhanced performance and dual 4K cameras for versatile aerial photography.

2.1 Package Contents

- Drone x1
- Handbag x1
- Remote control x1

- Charging cable x1
- Propeller protection cover x4
- Instruction manual x1 (This document)
- Propeller x8 (4 installed, 4 spare)
- Screwdriver x1



Figure 2.1: Complete package contents of the Ie-idea IDEA12Pro drone.

2.2 Drone Features

- **Brushless Motor:** Provides less noise, more power, higher efficiency, and longer lifespan.
- **Dual 4K HD Cameras:** Front 4K camera with 135° electrically adjustable angle and a bottom optical flow camera for diverse shooting perspectives.
- **5GHz FPV Real-Time Transmission:** Ensures clear and smooth video feed even over long distances.
- **Level 3 Wind Resistance:** Enhances flight stability in moderate wind conditions.
- **Lightweight Design:** Weighs less than 249g, making it portable and easy to carry.
- **Modular Batteries:** Two 3.7V 1600mAh Lithium Polymer batteries provide a total flight time of up to 30 minutes.



Figure 2.2: Key features of the IDEA12Pro drone, highlighting brushless motors, motorized camera adjustment, and optical flow stabilization.



Figure 2.3: Illustration of 5GHz FPV real-time image transmission, allowing for clear video feed up to 200 meters.



Figure 2.4: The drone's Level 3 wind resistance and brushless motor provide stable flight even in breezy conditions.



Figure 2.5: The drone features dual 4K cameras for both FPV and bottom views, with optical flow for stable hovering.



Figure 2.6: Two modular batteries are included, offering a combined flight time of 30 minutes.

3. Setup Guide

3.1 Charging the Batteries

Before first use, fully charge both modular batteries using the provided charging cable. Connect the cable to a USB power source (e.g., computer, USB wall adapter). The indicator light on the battery will change when fully charged.

3.2 Installing Batteries and Unfolding Drone

1. Insert a charged modular battery into the drone's battery compartment until it clicks securely into place.
2. Gently unfold the drone's arms until they are fully extended and locked. Ensure all propellers are clear of obstructions.
3. Open the remote control's battery compartment and insert 3x AAA batteries (not included).

3.3 Connecting to the App (FPV Functionality)

1. Download the official "Fly App" by scanning the QR code provided in the physical manual or searching in your device's app store.
2. Power on the drone by pressing and holding the power button. The drone's indicator lights will flash.
3. Power on the remote control.
4. On your smartphone, go to Wi-Fi settings and connect to the drone's Wi-Fi network (usually named "IDEA12Pro-XXXX").
5. Open the "Fly App". You should see the live video feed from the drone's camera.
6. **Calibration:** Perform calibration each time before flight. Follow the instructions in the app or physical manual for compass and gyroscope calibration to ensure stable flight.

4. Operating Instructions

4.1 Basic Flight Controls

- **One-Key Take-off/Landing:** Press the dedicated button on the remote or in the app for automatic take-off or landing.
- **Altitude Hold:** The drone maintains a stable altitude, making it easier for beginners to control.
- **Headless Mode:** In this mode, the drone's orientation is relative to the pilot, simplifying control regardless of the drone's front direction.
- **Speed Adjustments:** The drone offers 3 speed modes (low, medium, high) to suit different skill levels and environments. The maximum flight speed can reach 40 KM/h.
- **360° Flip:** Execute impressive aerial stunts with a single button press.
- **Gravity Control:** Control the drone's movement by tilting your smartphone (via the app).
- **Trajectory Flight:** Draw a flight path on your smartphone screen, and the drone will automatically follow it.



Figure 4.1: Key flight functions including one-touch take-off/landing, speed adjustments, and headless mode.



Figure 4.2: Gravity-sensitive flight allows for intuitive control by tilting your smartphone.

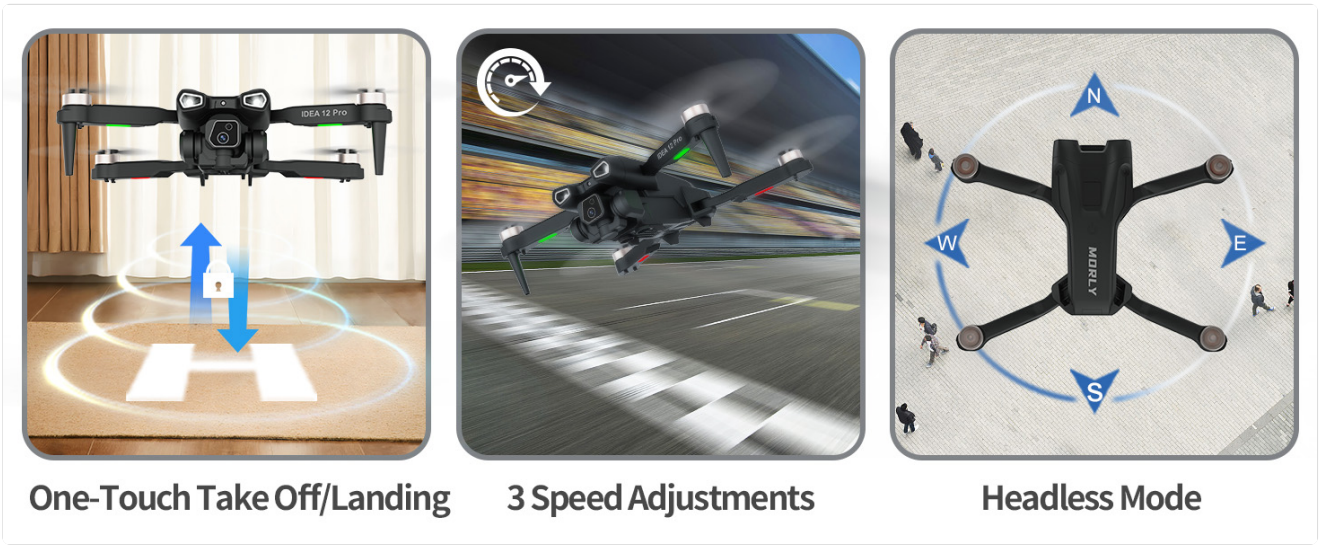


Figure 4.3: Plan your flight path directly on the app screen for automated trajectory flight.

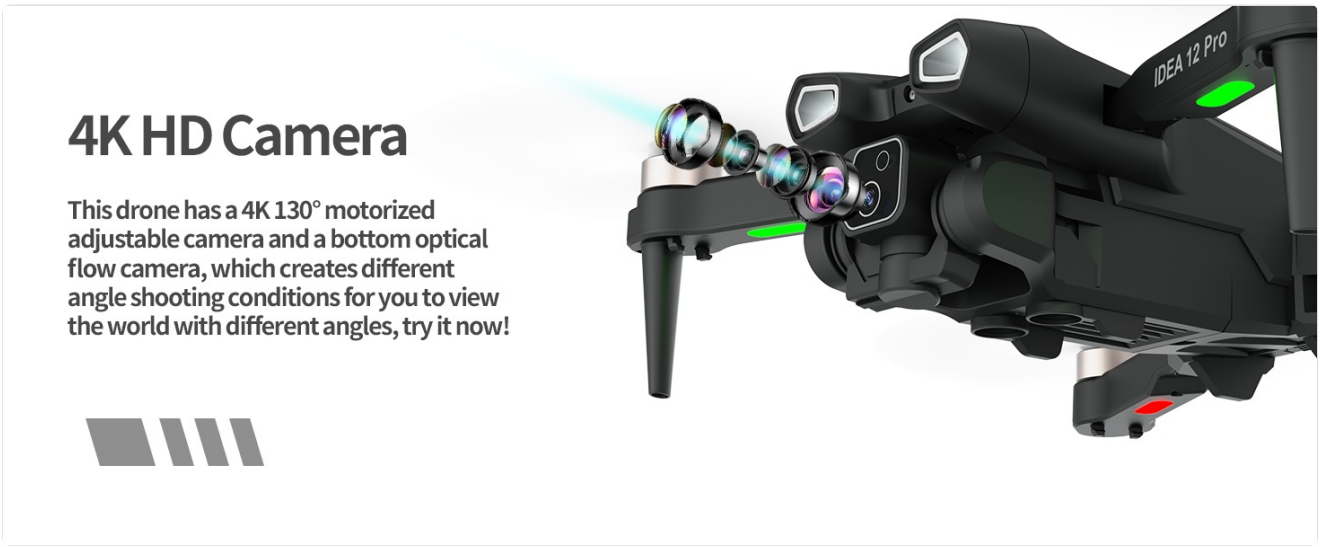


Figure 4.4: Perform 360-degree rolls in any direction for dynamic flight maneuvers.

4.2 Camera Operation

- **4K HD & ESC Camera:** The front camera captures high-resolution images and videos. Its 135° electrically adjustable angle allows you to change the camera's view during flight via the remote control.

- **Bottom Optical Flow Camera:** Provides additional perspective and assists with stable hovering.
- **Photo/Video Capture:** Use the dedicated buttons on the remote or within the app to capture photos or start/stop video recording. Captured media is saved directly to your connected smartphone.



Figure 4.5: The 4K HD camera offers a 135-degree motorized adjustable lens for flexible shooting angles.

5. Maintenance

- **Cleaning:** Use a soft, dry cloth to clean the drone and remote control. Avoid using harsh chemicals or solvents.
- **Propeller Replacement:** If propellers are damaged, use the provided screwdriver to replace them with spare propellers. Ensure correct orientation (indicated by markings on the propellers and drone arms).
- **Battery Care:** Store batteries in a cool, dry place. Do not overcharge or over-discharge. If storing for extended periods, remove batteries from the drone and remote.
- **Storage:** When not in use, store the drone and all accessories in the provided carrying case to protect them from dust and damage.

6. Troubleshooting

Problem	Possible Cause	Solution
Drone does not respond to remote.	Low battery on drone or remote; not properly paired.	Charge batteries; re-pair drone and remote according to setup instructions.
Drone drifts during flight.	Not calibrated; windy conditions; uneven propeller wear.	Perform calibration; fly in calm conditions; check and replace worn propellers.
No FPV video feed.	Not connected to drone's Wi-Fi; app not open or crashed.	Ensure Wi-Fi connection; restart app and drone.

Problem	Possible Cause	Solution
Short flight time.	Batteries not fully charged; old batteries.	Fully charge batteries; consider replacing old batteries.

If you encounter issues not listed here or require further assistance, please contact our after-sales support team.

7. Specifications

Feature	Detail
Brand	le-idea
Model Name	IDEA12 PRO
Special Feature	Brushless Motor
Age Range (Description)	Adult
Color	Black
Video Capture Resolution	4K
Effective Still Resolution	3840 Pixels
Connectivity Technology	Wi-Fi
Included Components	Camera
Skill Level	Intermediate
Battery Capacity	1600 Milliamp Hours
Video Capture Format	MP4
Remote Control Technology	Wi-Fi
Control Type	Remote Control
Media Type	SD
Material	Plastic
Wireless Communication Technology	Wi-Fi
Battery Cell Composition	Lithium Polymer
Are Batteries Included	Yes
Video Output Resolution	1920x1080 Pixels
Remote Control Included?	Yes
Rechargeable Battery Included	Yes

Feature	Detail
Product Dimensions	6.2"L x 7.8"W x 1.9"H
Item Weight	1.76 pounds

8. Warranty and Support

le-idea provides a three-month replacement product service for non-man-made damage. For any product issues or inquiries, please contact our dedicated after-sales team. Detailed contact information can be found on the product packaging or the official le-idea website.

For additional support, including operational videos and FAQs, please refer to the resources mentioned in the original product listing or contact le-idea customer service directly.

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