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› IDEA 10 Mini Drone User Manual

morlyrctoo idea10

IDEA 10 Mini Drone User Manual

Model: IDEA 10 | Brand: morlyrctoo

1. INTRODUCTION

This manual provides comprehensive instructions for the safe operation, maintenance, and troubleshooting of your IDEA 10 Mini Drone. Please read this manual thoroughly before operating the drone to ensure proper usage and to maximize your flying experience.

2. SAFETY PRECAUTIONS

- **Read the Manual:** Always read the entire user manual before operating the drone.
- **Age Recommendation:** This drone is suitable for children and beginners. Adult supervision is recommended for younger users.
- **Flight Environment:** Fly in open, clear areas, away from people, animals, buildings, and obstacles. Avoid flying near airports or restricted airspace.
- **Weather Conditions:** Do not fly in strong winds, rain, snow, or other adverse weather conditions.
- **Battery Safety:** Use only original batteries and charging cables. Do not overcharge or short-circuit batteries. Discontinue use if batteries are damaged or swollen.
- **Propeller Safety:** Keep fingers, hair, and loose clothing away from rotating propellers.
- **Visual Line of Sight:** Always maintain visual line of sight with the drone during flight.
- **Respect Privacy:** Be mindful of privacy when using the camera.

3. PACKAGE CONTENTS

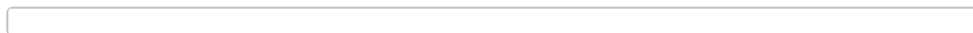


Image: The IDEA 10 drone, remote control, two modular batteries, spare propellers, a charging cable, a small tool, and the user manual are displayed, representing the complete package contents.

Please verify that all items listed below are included in your package:

- 1 x IDEA 10 Drone
- 1 x Remote Control
- 2 x Modular Batteries
- 4 x Spare Propellers
- 1 x USB Charging Cable
- 1 x Small Tool (for propeller replacement)
- 1 x User Manual (this document)

4. COMPONENTS OVERVIEW

4.1 Drone Components



Image: A detailed view of the IDEA 10 drone highlighting its dual camera system (front 720P HD camera and bottom optical flow sensor) and propeller arms.

- **Front HD Camera:** Captures 720P high-definition photos and videos.
- **Optical Flow Sensor:** Located on the bottom, assists with stable hovering and indoor positioning.
- **Propellers:** Four main propellers for lift and movement.
- **Motor Arms:** Foldable arms for compact storage.
- **Modular Battery Compartment:** Located at the rear, designed for easy battery insertion and removal.
- **Power Button:** To turn the drone on/off.

4.2 Remote Control Components



Image: The remote control for the IDEA 10 drone, showing its two joysticks and various function buttons, including trimming controls.

- **Left Joystick:** Controls altitude (up/down) and rotation (left/right).
- **Right Joystick:** Controls forward/backward and left/right movement.
- **One-Key Take-off/Landing Button:** Initiates automatic take-off or landing.
- **Headless Mode Button:** Activates/deactivates headless mode.

- **3D Flip Button:** Performs a 360-degree flip.
- **Speed Switch Button:** Toggles between low, medium, and high-speed modes.
- **Trim Buttons:** Used to fine-tune the drone's stability and drift.
- **Phone Holder:** Integrated into the remote for mounting a smartphone for FPV view.

5. SETUP

5.1 Charging Batteries

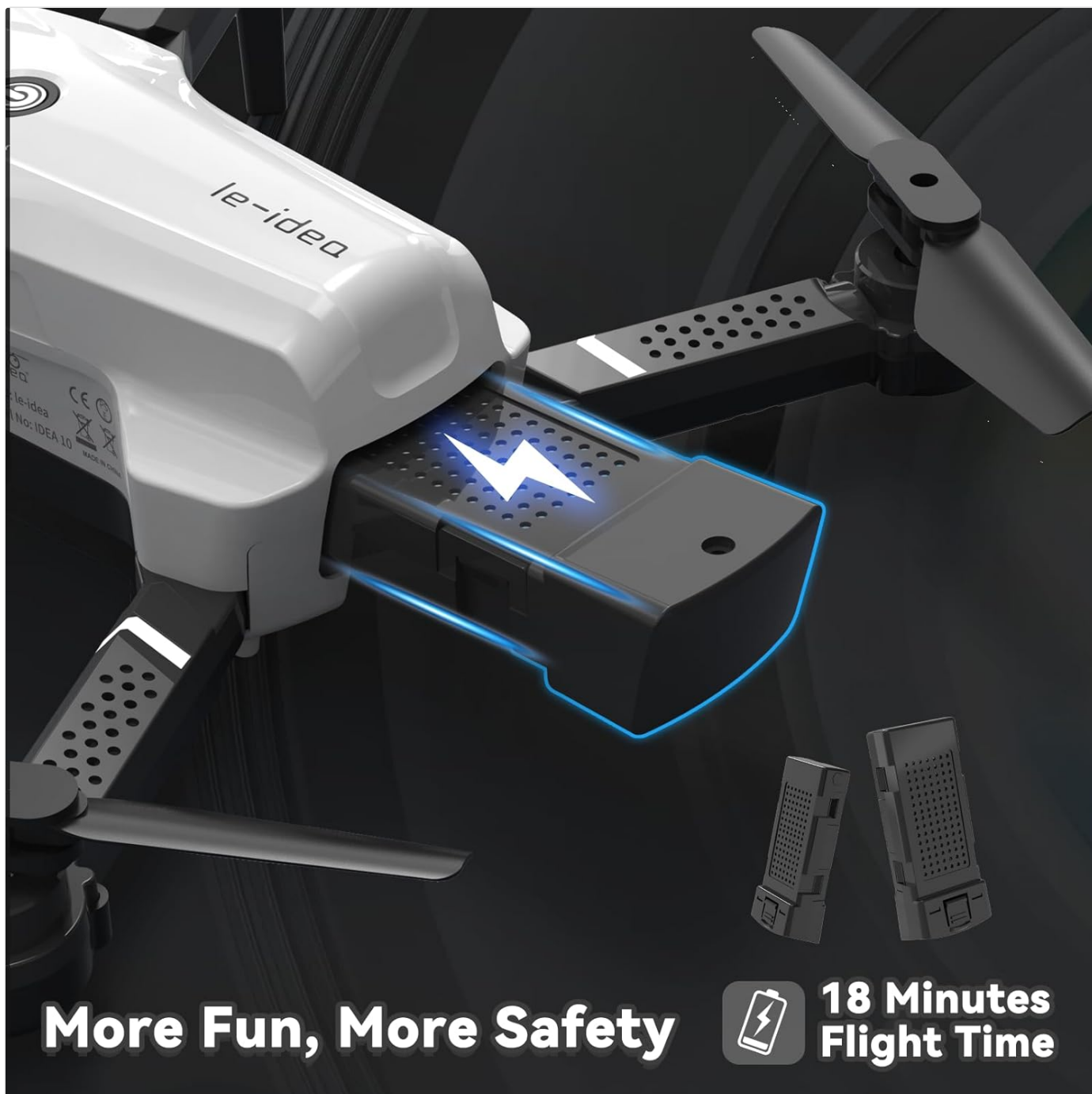


Image: A modular battery is shown being inserted into the drone, with two additional batteries visible, illustrating the ease of battery management and charging.

1. Connect the USB charging cable to the modular battery.
2. Plug the USB end into a 5V/1A USB adapter (not included) or a computer USB port.
3. The indicator light on the cable will show charging status (refer to cable instructions for specific light behavior).

4. Charging typically takes 60-90 minutes per battery. Disconnect once fully charged.

5.2 Installing Drone Battery

1. Ensure the drone is powered off.
2. Insert a fully charged modular battery into the battery compartment at the rear of the drone until it clicks into place.

5.3 Installing Propellers

The drone comes with pre-installed propellers. If replacement is needed:

1. Identify the 'A' and 'B' markings on the propellers and drone arms.
2. Use the provided tool to gently remove the screw holding the old propeller.
3. Place the new propeller (A to A, B to B) onto the motor shaft and secure it with the screw.

5.4 Pairing Drone and Remote

1. Place the drone on a flat, level surface.
2. Press the power button on the drone to turn it on. The drone's indicator lights will flash.
3. Turn on the remote control.
4. Push the left joystick all the way up, then all the way down. The drone's lights will stop flashing and become solid, indicating successful pairing.

5.5 App Installation (FPV Functionality)

For First Person View (FPV) and advanced features, download the dedicated app:

1. Scan the QR code in the user manual (or search for "IDEA 10 Drone" app) on your smartphone's app store.
2. Install the app.
3. Connect your smartphone to the drone's Wi-Fi network (usually named "IDEA-XXXXXX") in your phone's Wi-Fi settings.
4. Open the app to access FPV view and app-controlled features.

6. OPERATING INSTRUCTIONS

6.1 Basic Flight Controls



Image: Visual representation of One-Key Take Off/Landing, Altitude Hold, and Headless Mode, illustrating their functions for easier control.

- **One-Key Take-off:** After pairing, press the One-Key Take-off/Landing button. The drone will automatically ascend and hover at a stable altitude.
- **Altitude Hold:** The drone maintains its current altitude automatically, allowing for easier control of horizontal movement.
- **Take-off (Manual):** Push both joysticks down and outwards simultaneously to start the motors. Then gently push the left joystick up to ascend.
- **Landing (One-Key):** Press the One-Key Take-off/Landing button again. The drone will slowly descend and land.
- **Landing (Manual):** Gently pull the left joystick down to descend. Once landed, push both joysticks down and inwards to stop the motors.
- **Forward/Backward:** Push the right joystick up/down.
- **Left/Right Sideways Flight:** Push the right joystick left/right.
- **Turn Left/Right:** Push the left joystick left/right.

6.2 Advanced Flight Features

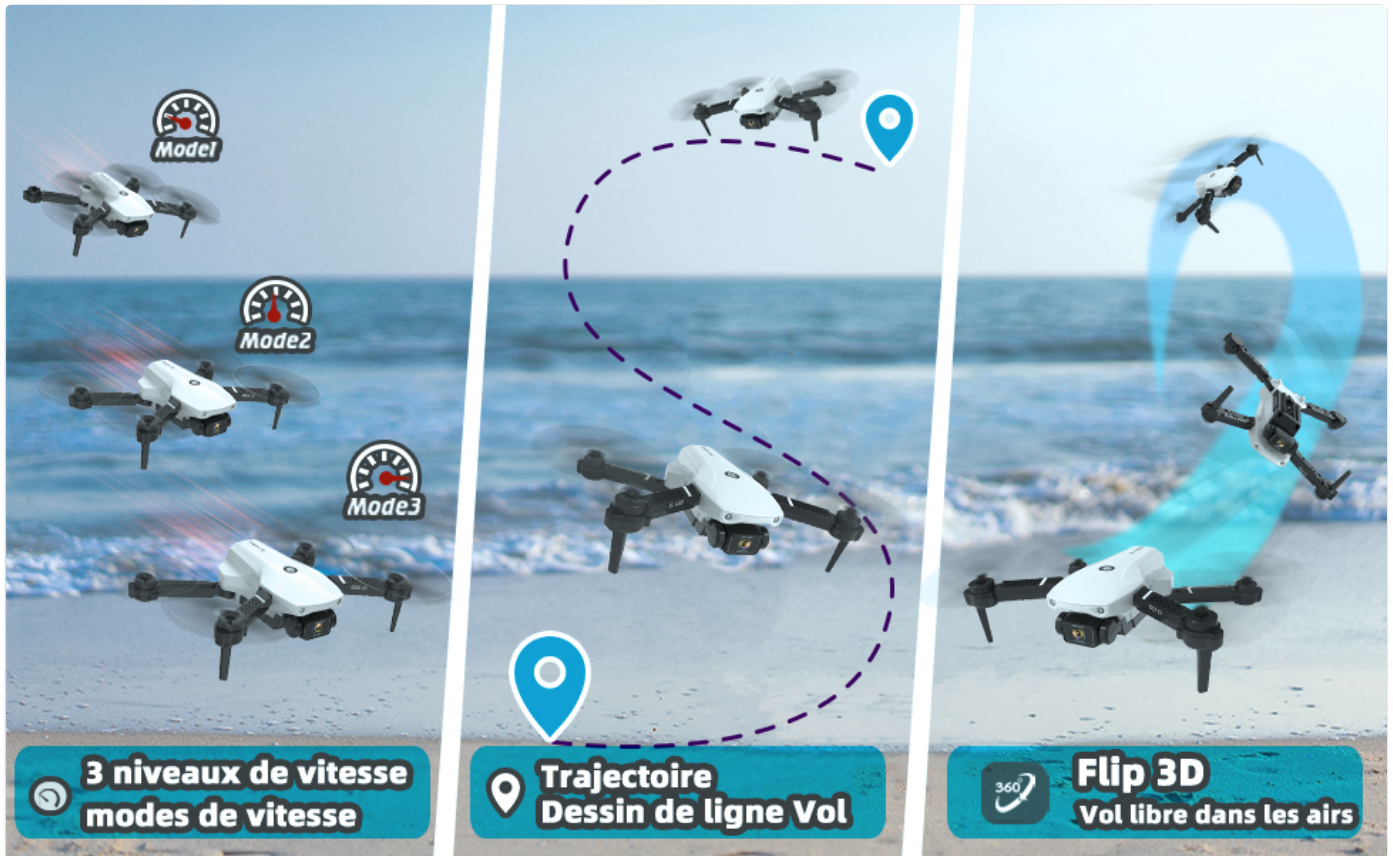


Image: This visual demonstrates the drone's three speed modes, the ability to draw a flight path for trajectory flight, and the dynamic 3D flip function.

- **Headless Mode:** Press the Headless Mode button. In this mode, the drone's orientation is relative to the pilot, making it easier for beginners to control without worrying about the drone's front direction. Press again to exit.
- **3D Flips:** While flying, press the 3D Flip button, then push the right joystick in any direction (forward, backward, left, or right) to perform a 360-degree flip. Ensure sufficient altitude (at least 2 meters) before attempting.
- **Speed Modes:** Press the Speed Switch button to cycle through low, medium, and high-speed settings. Low speed is recommended for beginners and indoor flight.
- **Optical Flow Positioning:** The bottom camera assists in maintaining stable hovering, especially indoors, by analyzing ground patterns.
- **FPV Transmission (via App):** Once connected to the drone's Wi-Fi and the app is open, you can view real-time video feed from the drone's camera on your smartphone.



LISTE DE COLISAGE

- 1 X IDEA10 drone
- 2 X Batteries modulaires
- 1 X Télécommande
- 4 X Hélices
- 1 X Manuel d'utilisation
- 1 X Câble de charge
- 1 X Outil

Image: A smartphone screen shows the real-time FPV feed from the drone, capturing a scene of a family enjoying a beach, demonstrating the live video transmission capability.

- **Gesture Control:** (Requires app) Perform specific hand gestures in front of the drone's camera to trigger photo or video recording. Refer to the app's instructions for specific gestures.

Gesture Control



Image: Two individuals are shown making hand gestures, indicating the drone's ability to respond to gesture commands for taking photos or videos.

- **Gravity Mode:** (Requires app) In the app, activate Gravity Mode. The drone will then fly according to the tilt of your smartphone.



Image: This composite image illustrates the Gravity Mode control via smartphone, the two modular batteries providing 18 minutes of flight, and the concept of Headless Mode for simplified flight orientation.

- **Line Drawing Flight (Trajectory Flight):** (Requires app) Draw a flight path on your smartphone screen within the app, and the drone will automatically follow the designated route.
- **Direction Trimming:** If the drone drifts in a certain direction, use the trim buttons on the remote control to adjust its stability. For example, if it drifts forward, press the backward trim button until it hovers steadily.

Direction Trimming

Create a Stable Flight by Trimming Button



Image: A visual guide demonstrating how to use the trimming buttons on the remote control to correct the drone's drift and achieve a stable hover.

7. MAINTENANCE

- **Cleaning:** Use a soft, dry cloth to clean the drone and remote control. Do not use water or chemical cleaners.
- **Propeller Inspection:** Regularly check propellers for damage (cracks, bends). Replace any damaged propellers immediately using the provided tool and spare parts.
- **Battery Care:** Store batteries in a cool, dry place. Do not store fully charged or completely depleted batteries for extended periods. Charge them to about 50% for long-term storage.
- **Storage:** When not in use, fold the drone arms and store the drone and accessories in a safe, dry place, away from direct sunlight and extreme temperatures.

8. TROUBLESHOOTING

Problem	Possible Cause	Solution
Drone does not respond to remote.	Not paired; low battery on drone or remote.	Re-pair the drone and remote. Charge batteries.
Drone drifts during flight.	Not calibrated; uneven surface at take-off; wind interference.	Calibrate the drone on a flat surface. Use trim buttons to adjust. Fly in calm conditions.
Propellers do not spin.	Obstruction; damaged motor/propeller; low battery.	Check for obstructions. Replace damaged propellers. Charge battery.
FPV image is blurry or disconnected.	Weak Wi-Fi signal; app issue; camera lens dirty.	Ensure strong Wi-Fi connection. Restart app/drone. Clean camera lens.
Short flight time.	Battery not fully charged; old battery; aggressive flying.	Ensure full charge. Consider replacing old batteries. Fly more gently.

9. SPECIFICATIONS

Feature	Detail
Model Name	IDEA 10
Dimensions (L x W x H)	13 x 11 x 5 cm (folded)
Weight	66 Grams
Main Material	Plastic
Camera Resolution	720p HD (Front Camera)
Video Capture Format	MP4
Connectivity Technology	Wi-Fi (for FPV)
Remote Control Type	[PO] Wi-Fi
Batteries	2 x Modular Batteries (included)
Flight Time	Up to 18-20 minutes (per 2 batteries)
Skill Level	All (Beginner-friendly)

10. WARRANTY AND SUPPORT

For warranty information, technical support, or replacement parts, please contact your retailer or the manufacturer directly. Refer to the product packaging or purchase documentation for specific contact details.

Note: Information regarding spare parts availability was not provided.