

DRONEEYE 4D-06

DRONEEYE 4DV2 Mini Drone Instruction Manual

Model: 4D-06

1. INTRODUCTION

This manual provides comprehensive instructions for the safe operation, maintenance, and troubleshooting of your DRONEEYE 4DV2 Mini Drone. Please read this manual thoroughly before operating the drone to ensure proper function and to prevent damage or injury.

The DRONEEYE 4DV2 Mini Drone is a compact and portable quadcopter designed for beginners and kids, featuring a 720P HD camera for photos and live video streaming, multiple control modes, and various flight functions like 3D flips and altitude hold.

2. PACKAGE CONTENTS

Verify that all items listed below are included in your package:

- 1 x DRONEEYE 4DV2 Mini Drone
- 1 x Remote Control
- 3 x Lithium Metal Batteries (included)
- 4 x Spare Propellers
- 4 x Propeller Guards (Skirts)
- 1 x USB Charging Cable
- 1 x Screwdriver
- 1 x Mobile Phone Stent
- 1 x Instruction Manual



Figure 2.1: Overview of the DRONEEYE 4DV2 Mini Drone and its included accessories.

3. SETUP

3.1 Battery Charging and Installation

Ensure all batteries are fully charged before first use.

1. Remote Control Battery Installation:

- Open the battery cover on the back of the remote control.
- Insert two AAA batteries (not included) into the compartment, observing polarity.
- Reattach the battery cover.

2. Drone Battery Charging and Installation:

- Take out the drone from its storage. Deploy the four wings of the drone.
- Push in the direction of the marked arrow on the drone's battery compartment and carefully remove the drone battery.
- Connect the drone battery to the USB charging cable.

- Plug the USB charging cable into a USB power source (e.g., computer, power bank, USB wall adapter). The indicator light on the charger will be off while charging and will turn on when charging is complete.
- Once charged, remove the battery from the charger and reattach it to the drone, ensuring it clicks securely into place.

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Video 3.1: Detailed instructions for battery charging and installation for both the remote control and the drone.

3.2 Alignment and Calibration

Proper alignment and calibration are crucial for stable flight.

1. Place the drone on a flat, level surface.
2. Switch on the drone and then the remote control.
3. Push the left joystick (throttle) on the remote control fully up and then fully down to pair the drone and remote. The drone's lights will stop flashing and become solid once paired.
4. For instant calibration, long-press the calibration button on the remote (refer to remote diagram in package contents). The drone's lights will flash and then become solid again, indicating successful calibration.

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Video 3.2: Visual guide for drone and remote control alignment and calibration.

4. APP DOWNLOAD AND LINK (FPV FUNCTIONALITY)

To utilize the FPV (First Person View) camera and advanced control features, download the companion app:

1. Scan the QR code provided in the physical instruction book or search for "HT-FPV" in your device's App Store (iOS) or Google Play Store (Android).
2. Download and install the app.
3. Turn on the drone's power switch.
4. On your smartphone, go to Wi-Fi settings and connect to the drone's Wi-Fi network (usually starts with "4DRC..." or "HT-UFO...").
5. Open the downloaded app. Click on the "START" or "Play" button to enter the control interface.



Figure 4.1: Smartphone screen showing the drone's app interface for FPV and control.

5. OPERATING INSTRUCTIONS

5.1 Take-off and Landing

- **One Key Take-off:** After successful pairing and calibration, short press the One Key Take-off button on the remote control (or in the app) to make the drone automatically ascend and hover.
- **One Key Landing:** During flight, short press the One Key Landing button to make the drone automatically descend and land.



EASY TO FLY



Figure 5.1: Visual representation of One Key Take-off and Landing features.

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Video 5.1: Demonstration of one-key take-off and landing.

5.2 Basic Flight Controls

Use the joysticks on the remote control or the virtual joysticks in the app to control the drone's movement:

- **Throttle (Left Joystick Up/Down):** Controls altitude. Push up to ascend, push down to descend.
- **Yaw (Left Joystick Left/Right):** Controls rotation. Push left to rotate counter-clockwise, push right to rotate clockwise.
- **Forward/Backward (Right Joystick Up/Down):** Controls forward and backward movement. Push up to fly forward, push down to fly backward.
- **Left/Right (Right Joystick Left/Right):** Controls sideward movement. Push left to fly left, push right to fly right.

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Video 5.2: Basic flight control demonstration (up, down, left, right, forward, backward).

5.3 Speed Switch

The drone has 3 speed modes (low, medium, high) to suit different skill levels and environments.

- Press the Speed Switch button on the remote control to cycle through the speed settings. Each press will indicate the current speed mode (e.g., beeps for low, medium, high).

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Video 5.3: How to change flight speed settings.

5.4 Fine-Tuning Function

If the drone drifts in a certain direction during flight, use the fine-tuning buttons to correct its stability.

- If the drone drifts forward, press the backward fine-tuning button.
- If the drone drifts backward, press the forward fine-tuning button.
- If the drone drifts left, press the right fine-tuning button.
- If the drone drifts right, press the left fine-tuning button.

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Video 5.4: Adjusting drone stability using fine-tuning controls.

5.5 Instant Rotation (360° Rotation)

While hovering, press the Instant Rotation button on the remote control to make the drone perform a 360-degree rotation in place.

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Video 5.5: Demonstration of the 360-degree rotation feature.

5.6 Instant Click Roll (3D Flip)

To perform a 3D flip, ensure the drone is hovering at a sufficient height. Press the Instant Click Roll button on the remote control, then push the right joystick in the desired direction of the flip (forward, backward, left, or right).



Figure 5.2: The drone executing a 3D flip maneuver.

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Video 5.6: How to perform an instant click roll (3D flip).

5.7 Headless Mode

In Headless Mode, the drone's orientation is relative to the pilot, regardless of which way the drone's "nose" is pointing. This simplifies control for beginners.

- To activate Headless Mode, short press the Headless Mode button on the remote control. The drone's lights will flash to indicate activation.
- To exit Headless Mode, short press the button again.



EASY TO FLY



Figure 5.3: Headless Mode simplifies drone control by orienting it relative to the pilot.

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Video 5.7: Explanation and demonstration of Headless Mode.

5.8 Altitude Hold

The Altitude Hold function allows the drone to maintain a certain height automatically, making it easier to control and capture stable photos or videos.



EASY TO FLY



One Key Take Off/Landing



Headless Mode



Altitude Hold

Figure 5.4: Altitude Hold feature for stable hovering.

Wifi FPV Transmission



Figure 5.5: The drone maintaining a fixed high hover for better picture and video quality.

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Video 5.8: Demonstration of the drone's fixed high hover capability.

5.9 Trajectory Flight (App Control)

Draw a path on your smartphone screen within the app interface, and the drone will automatically fly along the designated trajectory.



INTELLIGENT FLIGHT



FPV REAL-TIME TRANSMISSION

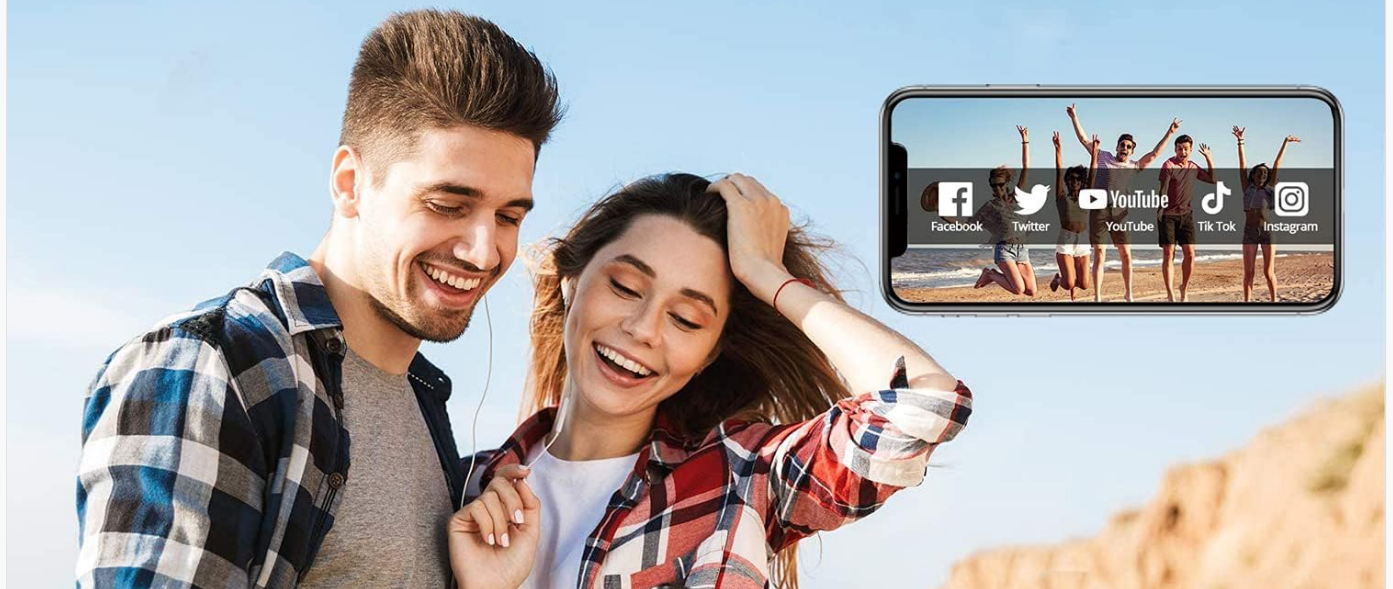


Figure 5.6: The drone executing a pre-drawn flight path via the app.

5.10 Voice Control (App Control)

Control the drone with simple voice commands through the app, such as "Take off" or "Left".



Figure 5.7: Voice control feature for hands-free operation.

5.11 Emergency Stop

In the event of an emergency during flight, press the Emergency Stop button on the remote control. The drone's blades will immediately stop turning, causing it to drop. Use with caution and only when necessary to prevent damage or injury.

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Video 5.9: Demonstration of the Emergency Stop function.

6. MAINTENANCE

- **Cleaning:** Regularly wipe the drone and remote control with a soft, dry cloth. Do not use harsh chemicals or solvents.
- **Propeller Inspection:** Check propellers for any damage (cracks, bends) before each flight. Replace damaged propellers immediately using the spare parts provided.
- **Battery Care:** Store batteries in a cool, dry place. Do not overcharge or over-discharge batteries. If not used for an

extended period, charge them periodically to maintain battery health.

- **Storage:** When not in use, fold the drone's arms and store it in its original packaging or a protective case to prevent damage.

7. TROUBLESHOOTING

Problem	Possible Cause	Solution
Drone does not respond to remote.	Not paired or low battery.	Re-pair the drone and remote. Ensure batteries are fully charged.
Drone drifts during flight.	Not calibrated or needs fine-tuning.	Perform calibration. Use fine-tuning buttons to adjust.
Blades do not spin.	Obstruction, damaged motor, or low battery.	Check for obstructions. Ensure battery is charged. Contact support if motor is damaged.
FPV image is blurry or disconnected.	Weak Wi-Fi signal or app issue.	Ensure strong Wi-Fi connection. Restart app and drone.
Short flight time.	Battery not fully charged or old battery.	Fully charge battery. Consider replacing old batteries.

8. SPECIFICATIONS

Feature	Detail
Brand	DRONEEYE
Model Name	RC Drone (4D-06)
Color	Black
Material	Plastic
Item Weight	0.882 ounces (25 Grams)
Product Dimensions	4"L x 4"W x 2"H
Video Capture Resolution	720p (1280x720 pixels)
Connectivity Technology	Wi-Fi
Control Type	Remote Control, APP, Voice Control
Battery Capacity	700 Amp Hours (Lithium Metal)
Skill Level	Beginner

Feature	Detail
Special Features	360 Degree Flip, Long Distance Control, One Key Rotation, Speed Adjustment, First Person View (FPV), Altitude Hold, Headless Mode, Trajectory Flight
Manufacturer Recommended Age	14 years and up
UPC	711221153856

9. SAFETY INFORMATION

Please observe the following safety guidelines to ensure safe operation and prevent injury or damage:

- Always operate the drone in open areas, away from people, animals, buildings, and obstacles.
- Do not fly the drone in strong winds or adverse weather conditions.
- Keep fingers, hair, and loose clothing away from rotating propellers.
- Never fly the drone near airports or restricted airspace.
- Adult supervision is recommended for younger users.
- Do not attempt to modify or disassemble the drone or its components.
- Ensure batteries are charged using the provided charger and follow all battery safety instructions.
- If the drone crashes or sustains damage, inspect it thoroughly before attempting further flight.

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ASK A QUESTION ABOUT THIS MANUAL

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.

Name

Anonymous

Email

you@example.com

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