

DRONEEYE 4DF8

DRONEEYE 4DF8 GPS Drone User Manual

Model: 4DF8

Brand: DRONEEYE

1. INTRODUCTION

Thank you for choosing the DRONEEYE 4DF8 GPS Drone. This advanced quadcopter features a 4K UHD camera, 5G HD live video transmission, a powerful brushless motor, and intelligent flight modes such as Auto Return Home and Follow Me. This manual provides essential information for safe operation, setup, maintenance, and troubleshooting to ensure you get the most out of your drone.

2. SAFETY GUIDELINES

Always prioritize safety when operating your drone. Failure to follow these guidelines may result in injury, damage to property, or legal consequences.

- **Read the Manual:** Thoroughly read and understand this entire manual before first flight.
- **Age Restriction:** This product is intended for adults.
- **Environmental Conditions:** Fly in open areas, away from people, buildings, and obstacles. Avoid flying in strong winds, rain, snow, or fog.
- **Line of Sight:** Always maintain visual line of sight with your drone during flight.
- **Battery Safety:** Use only original batteries and chargers. Do not overcharge or puncture batteries. Store batteries in a cool, dry place.
- **Propeller Safety:** Keep hands, face, and loose clothing away from rotating propellers. Ensure propellers are correctly installed before flight.
- **Respect Privacy:** Be mindful of privacy laws and regulations when using the camera.
- **Local Regulations:** Be aware of and comply with all local aviation laws and regulations regarding drone operation.

3. PACKAGE CONTENTS

Verify that all items are present in your package:

- DRONEEYE 4DF8 GPS Drone
- Remote Control

- Lithium Ion Batteries (x2)
- USB Charging Cable
- Spare Propellers
- Screwdriver
- User Manual
- Carrying Case



Image: Complete package contents including the 4DF8 drone, remote controller, two flight batteries, and a protective carrying case.

4. COMPONENTS OVERVIEW

4.1 Drone Components

- **Brushless Motors:** Provide efficient and quiet flight.
- **Propellers:** Four propellers (two A-type, two B-type) for lift and thrust.
- **4K UHD Camera:** Integrated camera for high-resolution photos and videos, with electronic angle adjustment.
- **GPS Module:** Enables precise positioning, auto return home, and intelligent flight modes.

- **Optical Flow Sensor:** Assists with stable hovering, especially indoors or when GPS signal is weak.
- **Battery Compartment:** Located at the rear of the drone for the flight battery.



Brushless Motor

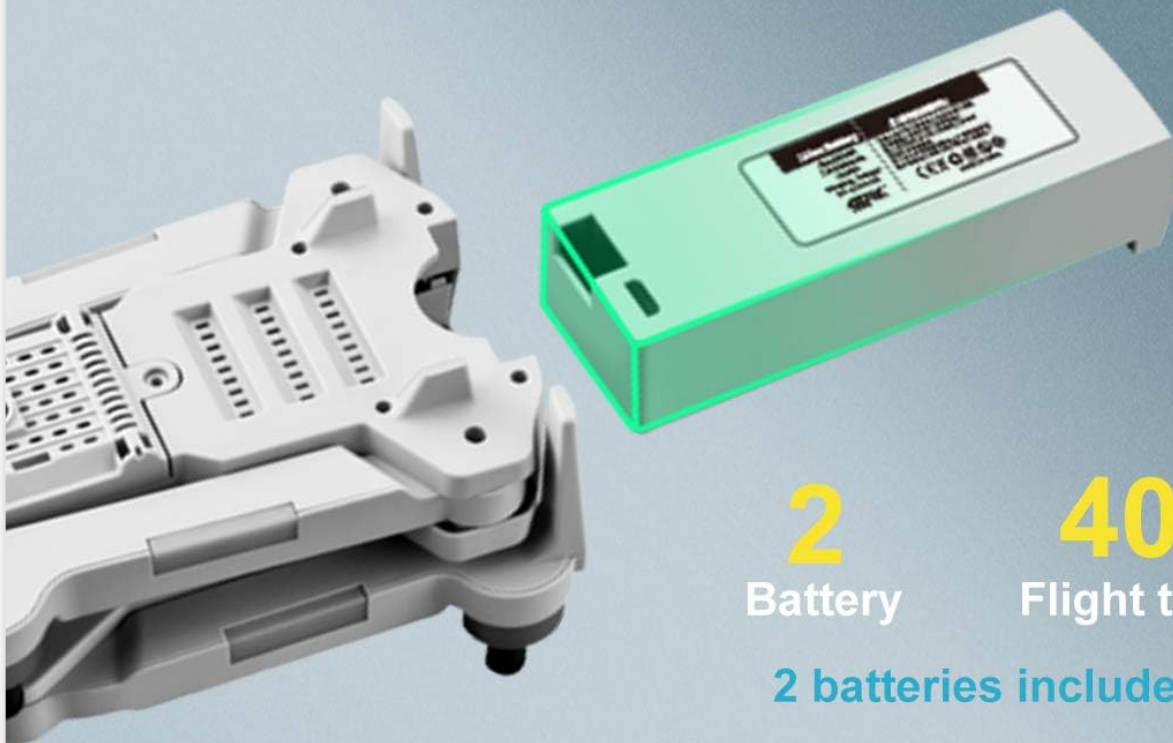
Powerful and energy-saving brushless motion Power system, strong output Powerful, low noise, resistant Good wind.

45

power
Noise reduction

8

level
Strong wind resistance



2
Battery

40
Flight time

2 batteries included

Image: Illustration of the drone's brushless motor, highlighting its powerful and energy-saving design, along with a depiction of the flight battery.

4K Camera

"4K HD ESC Camera"

Support remote 90° control of shooting angle



Image: Detailed view of the drone's 4K HD ESC (Electronic Stability Control) camera, capable of remote 90-degree angle adjustment.

4.2 Remote Control Components

- **Left Joystick:** Controls throttle (up/down) and yaw (rotate left/right).
- **Right Joystick:** Controls pitch (forward/backward) and roll (left/right).
- **One-Key Take-off/Landing Button:** Initiates automatic take-off or landing.
- **Return Home Button:** Activates the automatic return to home function.
- **Photo/Video Button:** Captures photos or starts/stops video recording.
- **Phone Holder:** Adjustable holder for mounting your smartphone to view FPV feed.

5. SETUP

5.1 Charging Batteries

Before first use, fully charge both drone flight batteries and the remote control battery. Connect the USB charging cable to

a suitable USB power adapter (not included) and then to the battery. The charging indicator will show status (e.g., red for charging, green for full). Charging typically takes 2-3 hours per battery.

5.2 Installing Batteries

- **Drone Battery:** Slide the charged flight battery into the battery compartment at the rear of the drone until it clicks securely into place.
- **Remote Control Battery:** Open the battery cover on the back of the remote control and insert the charged battery, ensuring correct polarity. Close the cover.

5.3 Propeller Installation

The drone comes with foldable arms. Ensure they are fully extended before installing propellers. Match the 'A' and 'B' markings on the propellers with the corresponding motor arms. Securely attach each propeller using the provided screws and screwdriver.

5.4 App Installation and Connection

Download the official DRONEEYE app (refer to the QR code in the quick start guide or search your app store) on your smartphone. Follow these steps to connect:

1. Power on the drone.
2. Go to your phone's Wi-Fi settings and connect to the drone's Wi-Fi network (e.g., "DRONEEYE-XXXX").
3. Open the DRONEEYE app. The app should automatically connect to the drone and display the live FPV feed.

6. OPERATING INSTRUCTIONS

6.1 Pre-Flight Checklist

Before every flight, perform the following checks:

- Ensure drone and remote batteries are fully charged.
- Propellers are securely attached and undamaged.
- Drone arms are fully extended.
- Power on the remote control first, then the drone.
- Perform compass and gyroscope calibration as instructed in the app.
- Wait for sufficient GPS satellite lock (indicated by solid GPS icon in app) before outdoor flight.

6.2 Take-off and Landing

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

6.3 Basic Flight Controls

- **Left Joystick (Throttle/Yaw):**
 - Up/Down: Ascend/Descend
 - Left/Right: Rotate drone left/right (Yaw)

- **Right Joystick (Pitch/Roll):**
 - Up/Down: Fly forward/backward (Pitch)
 - Left/Right: Fly left/right (Roll)

6.4 Advanced Flight Modes

- **Follow Me Mode:** The drone will automatically follow the remote controller or your mobile device, tracking your movement. Activate via the app.



Image: The drone in 'Follow Me' mode, automatically tracking the user's movement.

- **Waypoint Mode (Tap Fly):** Draw a flight path on the map in the app, and the drone will fly along the designated route.



Image: 'Tap Fly' feature, where the user draws a flight course on a map, and the drone autonomously follows it.

- **Around Mode (Orbit):** The drone will circle a designated point of interest.
- **Auto Return Home (RTH):** The drone will automatically return to its take-off point under conditions such as low battery, signal loss, or by pressing the RTH button.



GPS RETURN HOME

➤ Signal loss ➤ Low-battery ➤ RTH button Return



Image: The drone's GPS Return Home function, illustrating its path back to the take-off point due to signal loss, low battery, or manual activation.

- **Altitude Hold:** The drone maintains a stable altitude, allowing you to focus on directional control.
- **Gravity Control Mode:** Control the drone's movement by tilting your smartphone.
- **Gesture Control:** Use specific hand gestures to trigger photo or video capture.



Image: Depiction of the drone's Gesture Control feature, allowing users to take photos or videos with hand gestures, and its Headless Mode for simplified orientation.

6.5 Camera Operation

- **Photo/Video Capture:** Use the dedicated buttons on the remote control or within the app to take 4K photos (3840 x 2160) or record videos.
- **FPV (First Person View):** The 5G Wi-Fi FPV transmitter streams live 2.7K video to your mobile device at 25 frames per second, providing a real-time view from the drone's perspective.
- **Camera Angle Adjustment:** Remotely adjust the camera's shooting angle from 0-90 degrees using the remote control or the app.

7. MAINTENANCE

Regular maintenance ensures the longevity and optimal performance of your drone.

- **Battery Care:**
 - Do not fully discharge batteries. Charge them before storage if they will not be used for an extended period.
 - Store batteries in a cool, dry place, away from direct sunlight and extreme temperatures.
 - If a battery swells or shows signs of damage, discontinue use immediately.
- **Cleaning:** Use a soft, dry cloth to clean the drone body and camera lens. Avoid using harsh chemicals or solvents.
- **Propeller Inspection:** Regularly check propellers for cracks, bends, or damage. Replace any damaged propellers immediately using the provided spare parts. Ensure correct A/B type installation.
- **Motor Maintenance:** Keep motors free from dust and debris. Do not attempt to disassemble the motors.

8. TROUBLESHOOTING

If you encounter issues with your DRONEEYE 4DF8, refer to the following common problems and solutions:

Problem	Possible Cause	Solution
Drone does not power on.	Battery not charged or not installed correctly.	Ensure battery is fully charged and securely inserted.
Unable to connect to app/remote.	Incorrect power-on sequence, Wi-Fi not connected, or app issue.	Power on remote first, then drone. Connect phone to drone's Wi-Fi. Restart app/phone. Try putting phone in airplane mode then enabling Wi-Fi only.
Drone flies unstably or drifts.	Improper calibration, strong winds, or damaged propellers.	Perform compass and gyroscope calibration. Avoid flying in windy conditions. Check and replace damaged propellers.
Poor camera quality or no FPV feed.	Weak Wi-Fi signal, app issue, or environmental interference.	Ensure strong Wi-Fi connection. Fly within optimal range. Close and reopen the app.
GPS not locking or inaccurate.	Flying indoors, near tall buildings, or in areas with signal interference.	Fly in open outdoor areas. Wait for sufficient satellite lock (may take several minutes).
Short flight time.	Battery not fully charged, old battery, or aggressive flying.	Ensure batteries are fully charged. Consider replacing old batteries. Fly more conservatively.

9. SPECIFICATIONS

Feature	Detail
Model	4DF8
Brand	DRONEEYE
Dimensions (Folded)	5.59 x 2.91 x 2.04 inches (approx.)
Item Weight	Less than 250g / 0.55lbs (approx. 880g parcel weight)
Flight Time	Up to 50 minutes (with 2 batteries)
Camera Resolution	4K UHD (3840 x 2160 for images, 2.7K for FPV video)
Video Frame Rate	4K at 16 fps, 2.7K FPV at 25 fps
Motor Type	Brushless Motor
Positioning System	GPS and Optical Flow Positioning
Battery Type	Lithium Ion

Feature	Detail
Special Features	Long Distance Control, Integrated GPS, Integrated Camera, First Person View (FPV), One Button Return, Follow Me, Waypoint Mode, Altitude Hold, Gravity Control, Gesture Control

10. WARRANTY AND SUPPORT

For warranty information or technical support, please contact DRONEEYE customer service through the retailer's platform or the official brand website. Keep your purchase receipt as proof of purchase.

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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