4DRC 4DF4

4DRC 4DF4 GPS Drone User Manual

Model: 4DF4 (4DRC-F4-AH)

Brand: 4DRC

1. INTRODUCTION

Thank you for choosing the 4DRC 4DF4 GPS Drone. This advanced RC quadcopter is equipped with a 4K HD 2-Axis gimbal anti-shake FPV camera, a powerful brushless motor, and intelligent flight features such as Auto Return, GPS Follow Me, and Waypoint Fly. This manual provides essential information for safe and effective operation, maintenance, and troubleshooting. Please read it thoroughly before first use.

Image: The 4DRC 4DF4 GPS Drone, its remote controller, two lithium-ion batteries, and a convenient carrying case.

2. SETUP

2.1 What's in the Box

- 4DRC 4DF4 GPS Drone
- Remote Controller
- 2 x Lithium Ion Batteries
- Carrying Case
- Camera
- Propellers (spare set)
- USB Charging Cable
- Screwdriver
- User Manual

Image: All components included in the 4DRC 4DF4 GPS Drone package.

2.2 Battery Installation and Charging

1. Ensure the drone and remote controller are powered off.
2. Insert the fully charged Lithium Ion batteries into the drone and remote controller compartments.
3. To charge, connect the batteries using the provided USB charging cable. Charge until the indicator light shows full charge.

2.3 Propeller Installation

Carefully unfold the drone arms. Attach the propellers according to the markings (A and B) on the propellers and motor arms. Ensure they are securely fastened.

2.4 Controller and Phone Setup

1. Extend the phone holder on the remote controller.
2. Place your smartphone securely in the holder.
3. Download and install the official 4DRC FPV app from your device's app store.
4. Power on the drone, then the remote controller.
5. Connect your smartphone to the drone's Wi-Fi network (5G Wi-Fi for optimal performance).

2.5 Initial Calibration

Before each flight, perform a compass calibration and gyroscope calibration as instructed in the app or quick start guide to ensure stable flight and accurate GPS positioning.

3. OPERATING INSTRUCTIONS

3.1 Basic Flight Controls

- **Take-off/Landing:** Use the one-key take-off/landing button on the remote or app for automated ascent/descent.
- **Hovering:** The drone features optical flow altitude hold and GPS positioning for stable hovering.
- **Directional Control:** Use the joysticks on the remote controller to control forward/backward, left/right, and rotation.

Image: The drone's stable hover capability, equipped with both air pressure and optical flow altitude hold, makes it easy for beginners to operate.

3.2 Advanced Features

- **4K HD 2-Axis Gimbal Camera:** Capture high-resolution photos and videos with enhanced stability. The camera angle can be adjusted remotely.

GPS INTELLIGENT RETURN

5G

LEVEL 7
Wind resistance

BRUSHLESS MOTOR
Quite powerful

Image: Detailed view of the 4K camera with its 2-axis gimbal for anti-shake stabilization.

Image: Real-time FPV (First Person View) from the 4K HD camera displayed on a smartphone.

- **GPS Optical Flow Dual Positioning System:** Provides precise outdoor positioning and stable indoor flight.

Image: Illustration of the drone utilizing GPS and optical flow for dual positioning, ensuring stable flight.

- **Brushless Motor:** Offers strong power, high efficiency, and improved wind resistance (Level 7).

Intelligent Flight

The drone can follow the pilot automatically, fly along a path you set or fly around a set point in circles.

❯ Follow Me ❯ Tap Fly ❯ Point of Interest

Image: The drone's brushless motor provides powerful performance and Level 7 wind resistance, enabling intelligent GPS return.

- **Headless Mode:** Eliminates the need to adjust the position of the aircraft before flying, making it easier for new pilots.

Image: Headless Mode simplifies flight by removing the need to orient the drone, freeing you from direction confusion.

3.3 Intelligent Flight Modes

- **GPS Follow Me:** The drone will automatically follow the pilot, capturing footage as you move.

Image: The drone automatically follows the pilot, capturing dynamic footage during activities like running.

- **Waypoint Fly (Tap Fly):** Draw a path on the app interface, and the drone will fly along the specified route.

Image: Tap Fly feature allows users to draw a flight path on their screen, and the drone will follow it automatically.

- **Point of Interest (Surround):** Select a point on the map, and the drone will circle around it, capturing a 360-degree view.

Image: The drone's Point of Interest mode enables it to autonomously circle a designated target, ideal for cinematic shots.

- **Auto Return (GPS Intelligent Return Home):** The drone will automatically return to its take-off point if the battery is low, signal is lost, or the return-to-home function is activated.

Image: GPS Automatic Return feature ensures the drone safely returns to its starting point.

3.4 Gesture Control

- **Gesture Photo:** Make a specific hand gesture to trigger a photo capture.
- **Gesture Video:** Make a specific hand gesture to start or stop video recording.

3.5 Official Product Video

Video: An official product video demonstrating the features and capabilities of the 4DRC F4 GPS Drone with 4K camera.

4. Maintenance

4.1 Battery Care

- Always use the original charger and cable.
- Do not overcharge or over-discharge batteries.
- Store batteries in a cool, dry place away from direct sunlight and extreme temperatures.
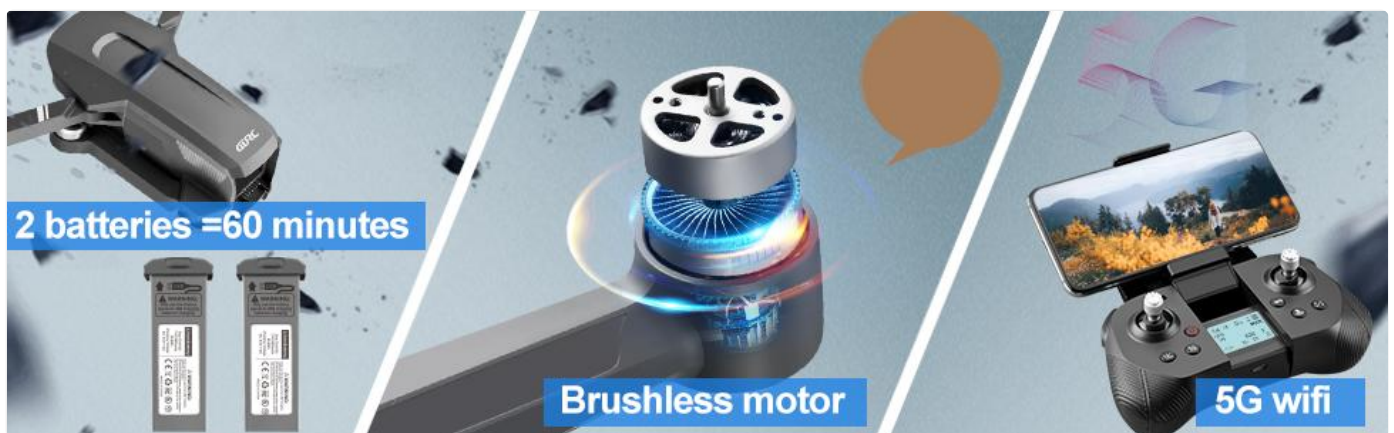- If storing for extended periods, charge batteries to approximately 50-60%.

Image: The drone is powered by two lithium-ion batteries, offering up to 60 minutes of flight time, and features a brushless motor and 5G Wi-Fi connectivity.

4.2 Cleaning the Drone and Camera

- Use a soft, dry cloth to wipe down the drone's body.
- For the camera lens, use a specialized lens cleaning cloth to avoid scratches.
- Avoid using harsh chemicals or abrasive materials.

4.3 Propeller Inspection and Replacement

- Regularly inspect propellers for cracks, bends, or damage.
- Replace damaged propellers immediately using the provided spare set and screwdriver. Ensure correct A/B propeller placement.

4.4 Storage

When not in use, store the drone and all accessories in the provided carrying case to protect them from dust and physical damage.

5. Troubleshooting

5.1 Common Issues and Solutions

- **Drone not powering on:** Ensure batteries are fully charged and correctly inserted.
- **Drone not responding to controller:** Re-pair the drone and controller according to the quick start guide. Check battery levels for both devices.
- **Unstable flight:** Perform compass and gyroscope calibration. Check for damaged propellers and replace if necessary. Ensure flight is in an open area away from interference.
- **No FPV feed:** Ensure your phone is connected to the drone's Wi-Fi network and the app is open. Check camera connection to the drone.
- **GPS signal issues:** Fly in an open outdoor area with a clear view of the sky. Avoid flying near tall buildings or strong magnetic interference.

6. SPECIFICATIONS

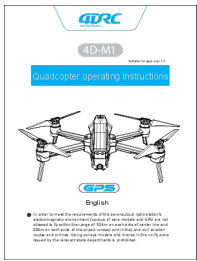| Feature	Specification
Brand	4DRC
Model Name	4DF4
Manufacturer Part Number	4DRC-F4-AH
Age Range (Description)	Adult
Color	Black
Video Capture Resolution	4K
Connectivity Technology	Wi-Fi (5G)
Included Components	Camera, Carrying Case
Skill Level	All
Item Weight	280 Grams (9.9 ounces)
Video Capture Format	MP4
Control Type	Remote Control
Media Type	SD
Material	Carbon Fiber, Plastic
Battery Cell Composition	Lithium Ion (2 included)
Optical Sensor Technology	CMOS, optical flow
Product Dimensions	18 x 18 x 10 inches

7. WARRANTY AND SUPPORT

For warranty information, please refer to the documentation provided with your purchase or contact the seller directly. If you encounter any issues not covered in this manual, please reach out to 4DRC customer support for assistance.

You can often find additional support and FAQs on the official 4DRC website or through the product listing page where you made your purchase.

Related Documents - 4DF4

	[4DRC 4D-FIO Quadcopter User Manual & Operating Instructions](#) This user manual provides comprehensive operating instructions for the 4DRC 4D-FIO Quadcopter. Learn about setup, flight controls, app features, safety guidelines, and troubleshooting for this GPS-enabled drone, suitable for ages 14+.
	[RC Drone F11 with GPS and 4K/HD Dual Camera - User Manual](#) User manual for the RC Drone F11, featuring GPS, 4K/HD dual cameras, long flight time, and advanced controls. Includes specifications, installation, and operation instructions.
	[4D-V8 Quadcopter Operating Instructions and User Manual](#) Comprehensive operating instructions and user manual for the 4DRC 4D-V8 Quadcopter, covering setup, flight controls, safety precautions, and app usage.
	[4DRC 4D-F8 Quadcopter Operating Instructions and User Manual](#) Comprehensive operating instructions and user manual for the 4DRC 4D-F8 GPS LCD image transmission version quadcopter, covering setup, flight operations, safety, and troubleshooting.
	[4DRC 4D-F12 Quadcopter Operating Instructions](#) Comprehensive operating instructions and user manual for the 4DRC 4D-F12 Quadcopter, covering setup, flight operations, app control, and safety guidelines.

[4DRC 4D-M1 GPS Quadcopter Operating Instructions and User Manual](#)

Comprehensive operating instructions and user manual for the 4DRC 4D-M1 GPS Quadcopter, covering setup, flight controls, app usage, safety guidelines, and troubleshooting.