

## 4DRC F12

# 4DRC F12 GPS Drone

## USER MANUAL

### 1. Introduction

This user manual provides essential information for the safe and effective operation of your 4DRC F12 GPS Drone. Please read this manual thoroughly before operating the drone to ensure proper usage and to prevent damage or injury. Keep this manual for future reference.

#### Safety Guidelines

- Always operate the drone in open, clear areas, away from people, animals, and obstacles.
- Do not fly near airports, restricted airspace, or in adverse weather conditions (strong winds, rain).
- Ensure batteries are fully charged before each flight.
- Perform pre-flight checks, including propeller inspection and calibration.
- Maintain visual line of sight with the drone at all times.
- Adhere to local regulations regarding drone operation.

### 2. Product Overview

The 4DRC F12 GPS Drone is a versatile quadcopter designed for both beginners and experienced users, featuring a 4K camera, GPS positioning, and various intelligent flight modes.



Figure 2.1: 4DRC F12 GPS Drone, remote control, batteries, and carrying case.

### Package Contents

- 4DRC F12 GPS Drone
- Remote Control
- 2 x Lithium Ion Batteries
- Carrying Case
- USB Charging Cable
- Spare Propellers
- User Manual

### Key Features

- **4K HD Camera:** Captures high-resolution photos and videos.
- **Brushless Motors:** Provides efficient and quiet flight with enhanced durability.
- **GPS & GLONASS:** Dual satellite positioning for stable flight and precise return-to-home.
- **Multiple Flight Modes:** Includes Follow Me, Waypoint Flight, Circle Flight, One Key Take Off/Landing, Headless Mode, Altitude Hold, and Gravity Control.

- **Foldable Design:** Compact and portable for easy transport.
- **Long Flight Time:** Up to 50 minutes total flight time with two included batteries.

## 3. Getting Started (Setup)

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### 3.1 Charging Batteries

Before first use, fully charge both the drone battery and the remote control battery using the provided USB charging cable. The drone battery typically takes 3-4 hours to fully charge.

### 3.2 Propeller Installation

The drone's propellers are typically pre-installed. Ensure they are securely attached and free from damage. If replacement is necessary, match the propellers (A and B) to their corresponding motor arms as indicated on the drone.

### 3.3 Remote Control Setup

Insert the charged battery into the remote control. Extend the phone holder and securely mount your smartphone.

Your browser does not support the video tag.

Video 3.1: This video demonstrates the key features of the 4DRC F12 GPS Drone, including its portable storage, foldable design, one-key take-off, brushless motors, long-range image transmission, electric camera adjustment, real-time transmission, GPS positioning, dual cameras, one-key photo, waypoint flight, gesture recognition, smart following, and one-key return home.

### 3.4 App Download and Connection

1. Scan the QR code in the manual or search for the official 4DRC F12 app in your smartphone's app store (iOS/Android).
2. Install and open the app.
3. Turn on the drone and the remote control.
4. Connect your smartphone to the drone's Wi-Fi network (usually named '4DRC-F12-XXXX').
5. Open the app to establish connection and view the FPV feed.

### 3.5 Calibration

Before each flight, perform compass and gyroscope calibration as instructed by the app or remote control. This ensures stable flight and accurate GPS positioning.

## 4. Flight Operations

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### 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 automatically, allowing for easier control.
- **Headless Mode:** In this mode, the drone's orientation is relative to the pilot, simplifying control regardless of the drone's front direction.



Figure 4.1: Visual representation of One Key Take Off/Landing, Headless Mode, Altitude Hold, and Circle Flight features.

## 4.2 Advanced Flight Modes

- **GPS Follow Me:** The drone automatically follows the remote controller or smartphone, capturing footage as you move.

# Follow Me

Uav intelligent following



Figure 4.2: The drone utilizing the Follow Me intelligent flight mode.

- **Waypoint Flight:** Draw a path on the app's map, and the drone will fly along the designated route.





Figure 4.3: Trajectory Flight mode, allowing the drone to follow a set path.

- **Circle Flight:** The drone will orbit a designated point or object, maintaining a set radius and altitude.
- **Gravity Control:** Control the drone's flight by tilting your smartphone, utilizing its internal gravity sensor.

# Gravity Control

Unlock different flight experiences



Figure 4.4: Gravity Control mode for intuitive drone manipulation.

## 4.3 Camera Features

- **4K HD FPV Camera:** Experience real-time video transmission and capture stunning 4K resolution footage. The camera offers a 110° wide-angle view and 90° adjustable angle.



**4K HD FPV  
CAMERA**

**4K**  
camera

**110°**  
wide-angle

**90°**  
adjustable



Figure 4.5: Details of the 4K HD FPV Camera.

- **Gesture Control:** Perform specific hand gestures to trigger photo or video recording without needing to touch the remote or app.



# VOICE CONTROL

The drone can be controlled by voice



Figure 4.6: Voice Control feature for hands-free operation.

- **One Key Photo/Video:** Easily capture photos or start/stop video recording with a single button press on the remote control.
- **FPV Sharing:** Share your captured moments directly from the app to social media platforms.

# FPV Nice Moment Sharing

One click sharing via APP

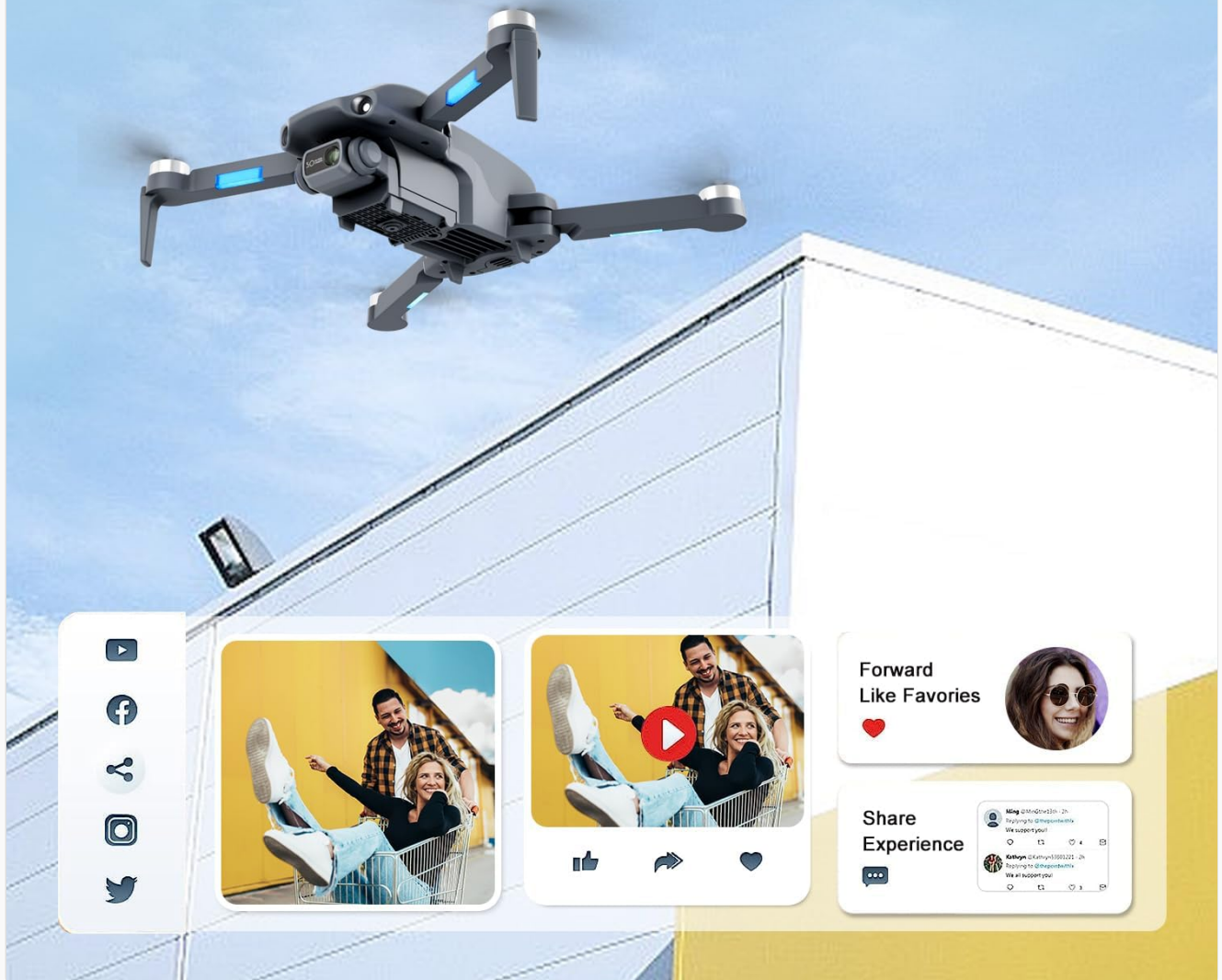


Figure 4.7: FPV Nice Moment Sharing feature.

## 5. Maintenance

- **Cleaning:** Use a soft, dry cloth to clean the drone and remote control after each use. Avoid using liquids or harsh chemicals.
- **Propellers:** Regularly inspect propellers for cracks, bends, or damage. Replace damaged propellers immediately.
- **Battery Care:** Store batteries in a cool, dry place. Do not overcharge or over-discharge. If storing for extended periods, charge batteries to approximately 50% capacity.
- **Storage:** Store the drone and its accessories in the provided carrying case to protect them from dust and physical damage.

## 6. Troubleshooting

Problem	Possible Cause	Solution
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Problem	Possible Cause	Solution
Drone does not power on	Low battery; Incorrect battery installation	Charge drone battery; Reinstall battery correctly
No FPV feed in app	Not connected to drone Wi-Fi; App not open	Connect to drone's Wi-Fi network; Open the app
Drone drifts during flight	Improper calibration; Strong wind interference	Perform gyroscope and compass calibration; Fly in calm conditions
Remote control not responding	Low remote battery; Not paired with drone	Replace/charge remote batteries; Re-pair remote with drone
Poor image/video quality	Dirty camera lens; Insufficient lighting; SD card issue	Clean lens; Ensure adequate lighting; Check/replace SD card

For more detailed troubleshooting, refer to the in-app help section or the manufacturer's official support resources.






## 7. Specifications

Feature	Detail
Brand	4DRC
Model Name	F12
Video Capture Resolution	4K
Connectivity Technology	Wi-Fi
Skill Level	Beginner
Item Weight	0.071 ounces
Product Dimensions	12"L x 8"W x 12"H
Battery Cell Composition	Lithium Ion
Optical Sensor Technology	CMOS, optical flow

## 8. Warranty and Support

For warranty information, please refer to the documentation included with your purchase or visit the official 4DRC website. For technical support or further assistance, please contact 4DRC customer service through their official channels.



	<p><a href="#">4DRC 4D-F12 Quadcopter Operating Instructions</a></p> <p>Comprehensive operating instructions and user manual for the 4DRC 4D-F12 Quadcopter, covering setup, flight operations, app control, and safety guidelines.</p>
	<p><a href="#">4D-V20 Wifi Version Drone User Manual and Operation Guide</a></p> <p>Detailed instructions for the 4DRC 4D-V20 Wifi Version drone, covering setup, flight controls, app features, safety guidelines, and troubleshooting.</p>
	<p><a href="#">4DRC 4D-V4 Quadcopter Operating Instructions and User Manual</a></p> <p>Comprehensive operating instructions for the 4DRC 4D-V4 Quadcopter, covering setup, pre-flight checks, remote control and app operation, flight modes, and safety guidelines.</p>
	<p><a href="#">4D-F5 Quadcopter Operating Instructions</a></p> <p>Comprehensive operating instructions for the 4D-F5 Quadcopter, covering setup, controls, safety, and app integration. Learn how to fly your drone safely and effectively.</p>
	<p><a href="#">4DRC 4D-F13 Quadcopter Operating Instructions and User Manual</a></p> <p>Comprehensive guide to operating the 4DRC 4D-F13 quadcopter, including setup, controls, flight modes, safety precautions, and app integration.</p>
	<p><a href="#">4DRC 4D-F8 Quadcopter Operating Instructions and User Manual</a></p> <p>Comprehensive operating instructions and user manual for the 4DRC 4D-F8 GPS LCD image transmission version quadcopter, covering setup, flight operations, safety, and troubleshooting.</p>





- In order to meet the requirements of the aeronautical radio station's electromagnetic environment various of aero models and UAV are not allowed to fly within the range of 10 km on each side of center line and 20km on both ends of the airport runway and in their and civil aviation modes and systems. Using various models and drones in the nearby area located by the relevant state departments is prohibited.

### [4URC 4D-F12 Quadcopter Operating Instructions and User Manual](#)

A comprehensive guide to operating the 4URC 4D-F12 Quadcopter, covering setup, flight controls, safety precautions, app integration, and troubleshooting.

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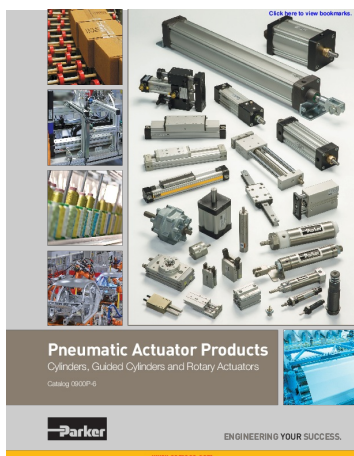
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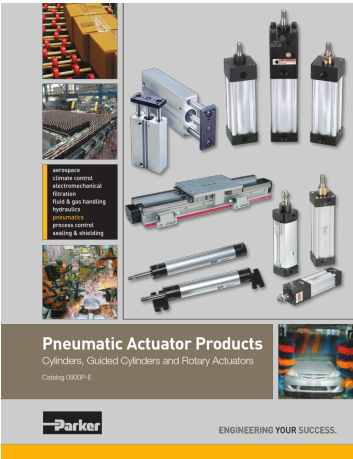


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