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4DRC V28

4DRC V28 Drone with FPV Camera User Manual

Model: V28 | Brand: 4DRC

1. Introduction

This user manual provides detailed instructions for the safe operation, setup, and maintenance of your 4DRC V28 Drone with FPV Camera. Please read this manual thoroughly before operating the drone to ensure proper use and to prevent damage or injury. Keep this manual for future reference.



Image: The 4DRC V28 Drone, its remote control with a smartphone holder, two spare batteries, and a compact carrying case. This image provides an overview of the product and its main accessories.

2. Package Contents

Verify that all components are present in your package:

- 4DRC V28 Drone
- Remote Control
- Rechargeable Drone Batteries (2 included)
- USB Charging Cable
- Spare Propellers
- Screwdriver
- User Manual
- Carrying Case

3. Setup Guide

3.1 Battery Installation and Charging

Drone Battery:

1. Insert the drone battery into the battery compartment on the rear of the drone until it clicks into place.
2. To charge, connect the USB charging cable to the drone battery and a compatible USB power source (e.g., computer USB port, USB wall adapter). The charging indicator light will show charging status.
3. Ensure batteries are fully charged before each flight for optimal performance. A full charge typically takes 60-90 minutes.

Remote Control Battery:

- The remote control uses standard AAA batteries (not included) or has a built-in rechargeable battery. Refer to the remote control's specific instructions for battery type and installation.

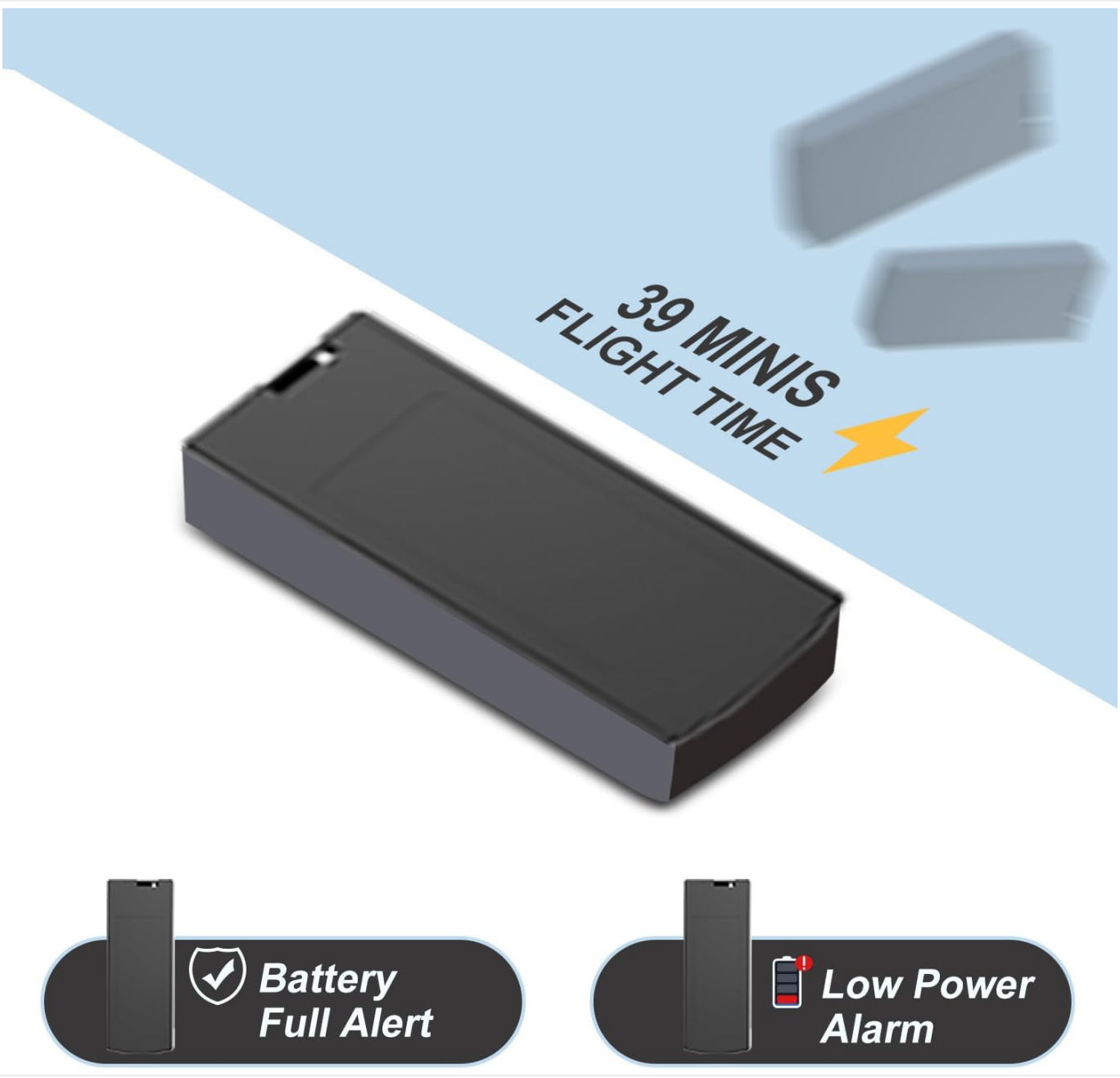


Image: A visual representation of the drone battery, highlighting its potential flight time of up to 39 minutes and indicating features like battery full alert and low power alarm for user convenience.

3.2 Propeller Installation

The propellers are marked with 'A' or 'B'. Match them to the corresponding motor arms marked 'A' or 'B'. Ensure they are securely fastened using the provided screwdriver.

3.3 Remote Control and Drone Pairing

1. Place the drone on a flat, level surface.
2. Turn on the drone. The indicator lights will flash.
3. Turn on the remote control.
4. Push the left joystick up then down. The drone lights will stop flashing and become solid, indicating successful pairing.

3.4 App Installation and Connection (FPV Functionality)

For FPV (First Person View) and advanced control features, download the official 4DRC app from your smartphone's app store. Scan the QR code provided in the package or search for "4DRC" in the app store.

1. Install the app on your smartphone.
2. Turn on the drone.
3. Go to your phone's Wi-Fi settings and connect to the drone's Wi-Fi network (usually named "4DRC-V28-XXXXXX").
4. Open the 4DRC app. You should see the live video feed from the drone's camera.



Image: This image focuses on the drone's 1080P HD camera, highlighting its 90-degree adjustable wide-angle capability and demonstrating the superior image quality compared to other cameras.

5. Operating Instructions

5.1 Basic Flight Controls

- **One Key Take Off/Landing:** Press the dedicated button on the remote control or in the app to automatically take off or land the drone.
- **Altitude Hold:** The drone will automatically maintain a stable altitude, making it easier to control and capture steady footage.
- **Headless Mode:** In this mode, the drone's orientation is relative to the pilot, eliminating the need to adjust its position before flight. This simplifies control, especially for beginners.



Image: This diagram illustrates three key features designed for beginner pilots: One Key Take Off/Landing for simplified flight initiation, Headless Mode for intuitive directional control, and Altitude Hold for stable hovering.

5.2 Advanced Flight Features

- **3 Speeds Mode:** Switch between low, medium, and high speeds to suit your skill level and flying environment.
- **3D Flips:** Execute impressive 360-degree flips in any direction by pressing the 3D flip button and moving the right joystick.
- **High-Speed Rotation:** Perform rapid rotational maneuvers for dynamic flight.
- **Circle Flight:** The drone can fly in a circular path around a designated point.
- **Trajectory Flight:** Draw a flight path on your smartphone screen, and the drone will follow it automatically.



Image: The drone is depicted executing a 3D flip maneuver above a sandy beach, demonstrating its ability to perform acrobatic stunts during flight.



Image: This graphic demonstrates the drone's High Speed Rotation and Circle Flight capabilities, showing the drone performing a continuous circular movement in the air.

5.3 Camera and Smart Control Features

- **1080P HD FPV Camera:** Capture high-definition photos and videos directly from the drone. The FPV (First Person View) function allows real-time video transmission to your smartphone.
- **Gesture Control:** Perform specific hand gestures in front of the camera to trigger photo or video recording.
- **Voice Control:** Control basic flight commands (e.g., "Fly," "Left," "Right") using voice commands through the app.
- **Gravity Control:** Tilt your smartphone to control the drone's direction, offering an intuitive flying experience.



Image: This visual explains two smart control methods: Gesture Control, where hand movements dictate drone actions, and Gravity Control, allowing flight direction to be managed by tilting a smartphone.



Image: This image illustrates the Voice Control feature, showing a user issuing verbal commands such as "FLY" and "LEFT" to direct the drone's movement.

6. Maintenance

- **Cleaning:** Regularly wipe the drone body and camera lens with a soft, dry cloth. Avoid using harsh chemicals.
- **Propeller Replacement:** If propellers are damaged or bent, replace them immediately using the spare propellers and screwdriver provided. Ensure correct 'A' and 'B' alignment.
- **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:** When not in use, store the drone and its components in the provided carrying case to protect them from dust and physical damage.

7. Troubleshooting

Problem	Possible Cause	Solution
Drone does not power on.	Battery is not charged or not properly installed.	Ensure the drone battery is fully charged and correctly inserted.
Drone does not respond to remote control.	Not paired, remote control batteries low, or out of range.	Re-pair the drone and remote control. Replace remote control batteries. Ensure drone is within operational range (approx. 30 feet for stable connection).
Unstable flight or drifting.	Drone not calibrated, strong winds, or damaged propellers.	Perform gyroscope calibration (refer to app/remote instructions). Avoid flying in strong winds. Check and replace any damaged propellers.
FPV video feed is choppy or not connecting.	Weak Wi-Fi signal, too far from drone, or app issue.	Ensure your phone is connected to the drone's Wi-Fi. Move closer to the drone. Restart the app and drone. Ensure no other devices are interfering with the Wi-Fi signal.
Drone crashes easily or breaks.	Impact damage, improper handling, or material stress.	Practice in open, clear areas. Avoid collisions. Inspect drone for cracks or damage after any impact. While durable, repeated impacts can cause wear.

8. Specifications

Feature	Detail
Brand	4DRC
Model Name	V28
Color	Black
Item Weight	0.176 ounces (approx. 5 grams)
Product Dimensions	8"L x 6"W x 8"H
Video Capture Resolution	1080p
Connectivity Technology	Wi-Fi
Control Type	Remote Control, App Control
Skill Level	Beginner
Special Features	360 Degree Flip, First Person View (FPV), Foldable, Long Battery Life, One Key Rotation, Altitude Hold, Headless Mode, Gesture Control, Voice Control, Gravity Control, Trajectory Flight
Battery Type	Lithium Ion
Batteries Included	Yes (3 Lithium Ion batteries required, included)

9. Warranty and Support

For warranty information, please refer to the documentation included with your purchase or contact the seller directly.
4DRC provides technical support to ensure customer satisfaction.
If you encounter any issues or have questions not covered in this manual, please contact 4DRC customer support through their official channels or the retailer from whom you purchased the product.
For more information, you may visit the4DRC Store on Amazon.

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