**4DRC V18**

# 4DRC V18 Mini Drone Instruction Manual

Your comprehensive guide to operating and maintaining your 4DRC V18 Mini Drone.

## 1. INTRODUCTION

Thank you for choosing the 4DRC V18 Mini Drone. This manual provides essential information for safe operation, setup, and maintenance of your drone. Please read this manual thoroughly before operating the drone to ensure proper use and to prevent damage or injury.

The 4DRC V18 Mini Drone is designed for kids and beginners, offering multiple control methods, 3D flips, LED lights, Headless Mode, adjustable speeds, auto hover, and altitude hold for an engaging flight experience.

## 2. PACKAGE CONTENTS

Before you begin, please verify that all items listed below are included in your package:

- 4DRC V18 Mini Drone
- Remote Control
- Rechargeable Drone Batteries (x2)
- USB Charging Cable
- Spare Propellers (x4)
- Screwdriver
- User Manual (this document)

Figure 2.1: All components included in the 4DRC V18 Mini Drone package.

## 3. PRODUCT OVERVIEW

The 4DRC V18 Mini Drone features a compact design with protective propeller guards and vibrant LED lights for enhanced visibility and safety.

Figure 3.1: The 4DRC V18 Mini Drone and its accessories.

## 3.1 Drone Features

- **Protective Propeller Guards:** Four-sided full-coverage guards made of impact-resistant ABS material protect propellers and internal parts, and prevent injury.
- **LED Colorful Lights:** Integrated lights make the drone eye-catching, especially in low-light conditions.
- **Modular Batteries:** Advanced modular design for easy battery changes and overcharge protection.
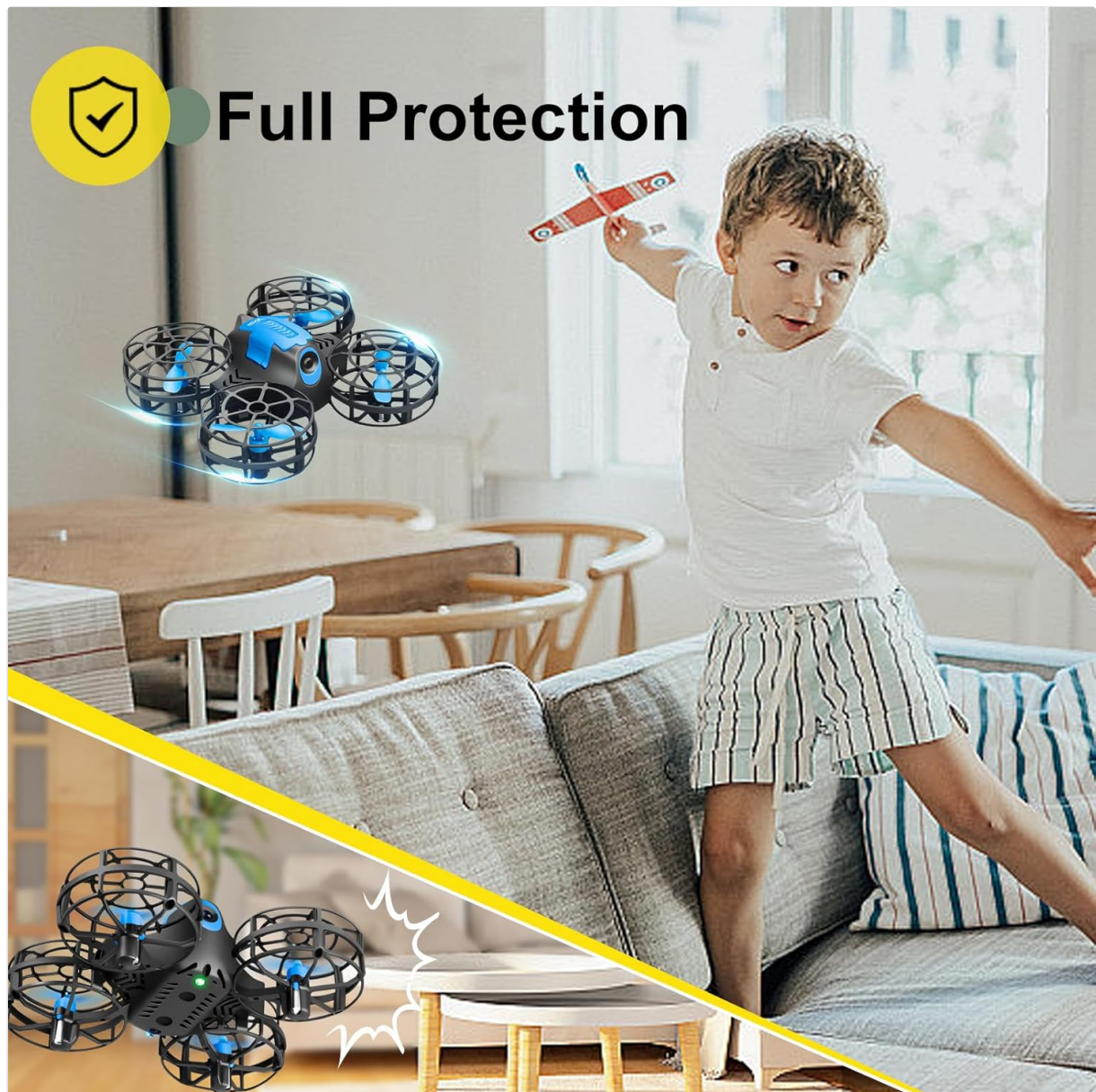
Figure 3.2: The drone's full protection allows for safe indoor play.

## 3.2 Remote Control

The remote control is ergonomically designed for comfortable handling and precise control. It requires 3 AAA batteries (not included).

## 4. SETUP

## 4.1 Battery Installation

**Drone Battery:** The 4DRC V18 uses modular batteries for convenience. Gently slide the battery into the drone's designated slot until it clicks into place. Ensure the connector is securely plugged in.

Figure 4.1: Modular drone batteries for easy replacement.

**Remote Control Batteries:** Open the battery compartment on the back of the remote control using the provided screwdriver. Insert 3 AAA batteries (not included), ensuring correct polarity. Close the compartment securely.

## 4.2 Charging Batteries

Connect the drone battery to the USB charging cable. Plug the USB cable into a compatible USB power source (e.g., computer, USB wall adapter). The indicator light on the charging cable will show red while charging and turn green when fully charged. The kit includes two rechargeable batteries, providing up to 30 minutes of flight time.

## 4.3 Pairing the Remote Control

1. Turn on the drone by connecting its battery. The drone's LED lights will start flashing.
2. Place the drone on a flat, level surface.
3. Turn on the remote control. The remote's indicator light will flash.
4. Push the left joystick (throttle) all the way up, then all the way down. The remote will beep, and the drone's lights will become solid, indicating successful pairing.
5. To calibrate the gyros, push both joysticks to the bottom-left corner until the drone's lights stop blinking.

# 5. OPERATING INSTRUCTIONS

The 4DRC V18 Mini Drone offers various flight modes and features for an enjoyable experience. Always ensure sufficient space and clear surroundings before flying.

Video 5.1: Official product video demonstrating various flight features of the 4DRC V18 Mini Drone, including one-click takeoff, intelligent height setting, full perimeter protection, jettisoning mode, modular battery, one-click speed switch for multiplayer, 360° stunt roll, one-click rotation, keyboard spin, and one-touch landing.

## 5.1 Basic Flight Controls

- **One Key Take-off/Landing:** Press the one-key take-off/landing button on the remote to automatically launch or land the drone.
- **Altitude Hold:** The drone maintains a stable altitude automatically, making it easier to control.
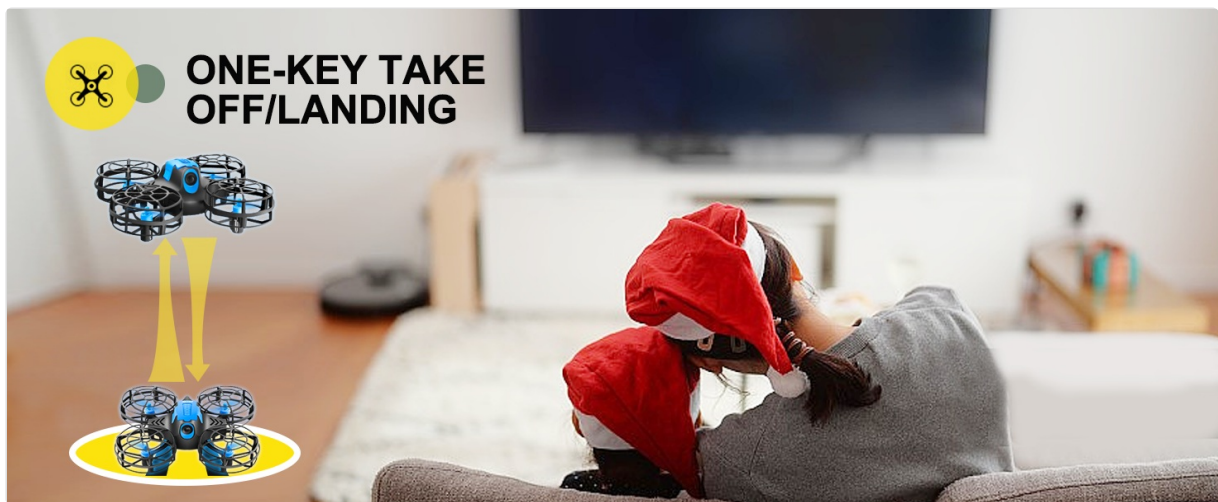


Figure 5.1: One-Key Take-off and Landing feature.

## 5.2 Advanced Flight Features

- **Headless Mode:** In Headless Mode, the drone's orientation is relative to the pilot, eliminating the need to adjust its position before flight.

Figure 5.2: Headless Mode simplifies directional control.

- **3 Speeds Adjustable:** Choose from three different speed settings to match your skill level or desired flight intensity.

- **360° Flips:** Execute impressive 360-degree flips with a press of a button for aerial aerobatics.



Figure 5.3: Perform exciting 3D flips.

- **Auto Rotate & Fly in Circles:** Engage pre-programmed flight paths for automatic rotations or circular flight patterns.

Figure 5.4: The drone can perform automatic circle flights.

- **Gesture Control:** Control the drone with simple hand gestures for an intuitive and interactive flight experience.



Figure 5.5: Gesture control offers an alternative way to fly.

- **One Key Return:** Activate this feature to have the drone automatically return to its take-off point.

# 6. MAINTENANCE

To ensure the longevity and optimal performance of your 4DRC V18 Mini Drone, follow these maintenance

guidelines:

- **Propeller Replacement:** If a propeller is damaged, use the provided screwdriver to carefully remove it and replace it with a spare propeller. Ensure the new propeller is securely attached.
- **Cleaning:** Regularly clean the drone's body and propellers with a soft, dry cloth. Avoid using water or harsh chemicals.
- **Storage:** When not in use, store the drone and its accessories in a cool, dry place, away from direct sunlight and extreme temperatures.

# 7. TROUBLESHOOTING

If you encounter any issues with your 4DRC V18 Mini Drone, please refer to the following common problems and solutions:

| Problem | Possible Cause | Solution |
|---------|----------------|----------|
| Drone does not respond to remote control. | Not paired correctly; low battery in remote or drone. | Re-pair the drone and remote (Section 4.3). Ensure both have sufficient battery charge. |
| Drone drifts during flight. | Gyroscope needs calibration. | Calibrate the gyros (Section 4.3, step 5). Ensure the drone is on a flat surface during calibration. |
| Short flight time. | Battery not fully charged; old battery. | Ensure batteries are fully charged before use. Use the second battery for extended play. |
| Propellers not spinning. | Damaged propellers; hair/debris caught in propellers. | Check for and remove any obstructions. Replace damaged propellers with spares. |

# 8. SPECIFICATIONS

| Feature | Detail |
|---------|--------|
| Brand | 4DRC |
| Model Name | V18 |
| Control Type | Remote Control, Gesture Control |
| Connectivity Technology | Wi-Fi, Radio Frequency |
| Special Features | 360 Degree Flip, Lightweight, Long Battery Life, Portable, Headless Mode, 3 Speed Adjustable, Auto Hover, Altitude Hold, One Key Take-off and Landing, One Key Return, LED Lights |
| Material | Plastic |
| Battery Cell Composition | Lithium Ion |

| Feature | Detail |
| --- | --- |
| Item Weight | 8.4 ounces |
| Product Dimensions | 4"L x 4"W x 2"H |

## 9. SAFETY GUIDELINES

Always prioritize safety when operating your drone. Failure to follow these guidelines may result in injury or damage to the drone.
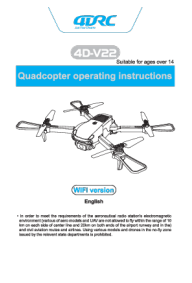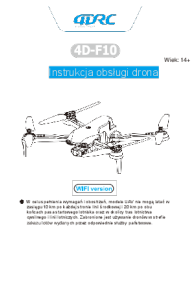
- **Adult Supervision:** For younger users, adult supervision is recommended.
- **Clear Environment:** Fly in open areas, away from people, animals, obstacles, and water.
- **Indoor/Outdoor Use:** The drone is suitable for both indoor and outdoor use. However, avoid flying outdoors in strong winds, as the lightweight design may be affected.
- **Propeller Safety:** Keep fingers, hair, and loose clothing away from spinning propellers. The protective guards are designed to minimize risk, but caution is still advised.
- **Battery Safety:** Do not overcharge batteries. Discontinue use if batteries appear damaged or swollen.

## 10. WARRANTY AND SUPPORT

For warranty information and customer support, please refer to the documentation included in your product packaging or contact 4DRC customer service directly. Keep your purchase receipt as proof of purchase.

## Related Documents - V18

| | |
| --- | --- |
|  | **4DRC 4D-V4 Quadcopter Operating Instructions and User Manual**<br>Comprehensive operating instructions for the 4DRC 4D-V4 Quadcopter, covering setup, pre-flight checks, remote control and app operation, flight modes, and safety guidelines. |
|  | **4DRC 4D-F13 Quadcopter Operating Instructions**<br>Comprehensive operating instructions for the 4DRC 4D-F13 Quadcopter, covering setup, controls, app features, and safety guidelines for optimal flight experience. |

| | |
|---|---|
| | **[4DRC 4D-V22 WIFI Version Quadcopter Operating Instructions and User Manual](#)**<br>This document provides comprehensive operating instructions, safety guidelines, and troubleshooting tips for the 4DRC 4D-V22 WIFI version quadcopter. Learn about aircraft setup, remote control functions, APP integration, flight modes, and more. |
| | **[4D-F10 Drone User Manual and Operation Guide](#)**<br>Comprehensive user manual for the 4DRC 4D-F10 drone, covering setup, operation, safety guidelines, app integration, and troubleshooting. Includes detailed instructions for flight preparation, controller and app operation, and common issue resolution. |
| | **[Mini Drone V8 User Manual - Operation and Features](#)**<br>Comprehensive user manual for the 4DRC Mini Drone V8. Learn how to set up, fly, and control your drone using the remote and mobile app. Includes features, troubleshooting, and safety guidelines. |
| | **[4DRC 4D-V4 Quadcopter Operating Instructions and User Manual](#)**<br>Comprehensive guide for the 4DRC 4D-V4 quadcopter, covering setup, operation, remote control functions, APP usage, safety warnings, and troubleshooting. |