

## 4DRC M5

# 4DRC M5 Remote Control Helicopter User Manual

Model: M5

## 1. INTRODUCTION

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Thank you for purchasing the 4DRC M5 Remote Control Helicopter. This manual provides essential information for the safe operation, setup, and maintenance of your new RC helicopter. Please read this manual thoroughly before first use to ensure proper function and to maximize your flying experience.



Image: The 4DRC M5 Remote Control Helicopter, its accompanying remote controller, and two modular batteries.

## 2. SAFETY PRECAUTIONS

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To prevent injury or damage, always observe the following safety guidelines:

- **Indoor Use Recommended:** This helicopter is designed primarily for indoor use. If flying outdoors, ensure there is no wind, as even a slight breeze can affect control.
- **Clear Flying Area:** Always fly in an open area free from obstacles, people, or pets. Maintain a safe distance from walls, furniture, and other objects.
- **Adult Supervision:** For users under 14 years old, adult supervision is highly recommended.
- **Battery Safety:** Do not overcharge batteries. Use only the provided USB charging cable. Do not expose batteries to extreme temperatures or direct sunlight.
- **Propeller Safety:** Keep fingers, hair, and loose clothing away from rotating propellers. Do not attempt to catch the helicopter while it is flying.
- **Emergency Stop:** Familiarize yourself with the emergency stop function on the remote control for immediate

shutdown in critical situations.

- **Water and Moisture:** Keep the helicopter and remote control away from water and moisture to prevent damage to electronic components.

### 3. PACKAGE CONTENTS

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Verify that all items are present in your package:

- 4DRC M5 RC Helicopter
- 2.4GHz Remote Controller
- Modular Batteries (x2)
- USB Charging Cable
- Spare Propeller Blades
- User Manual (this document)

### 4. PRODUCT OVERVIEW

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#### 4.1 Helicopter Components

- **Main Rotor Blades:** Provide lift and control. Designed to be flexible for durability.
- **Tail Rotor:** Controls yaw (rotation around vertical axis).
- **Landing Skids:** Provide stable landing.
- **Modular Battery Compartment:** Houses the removable battery.
- **LED Lights:** Indicate power status and aid visibility.
- **Durable Alloy Structure:** Enhances overall resilience.

# INGENIOUS & DURABLE DESIGN



**DURABLE ALLOY  
STRUCTURE**



**DURABLE ALLOY  
STRUCURE**



**HIGH FLEXIBLE  
PROPELLER**



**SMOOTH  
BODY LINES**

Image: Detailed view highlighting the durable alloy structure and high flexible propellers of the helicopter.

## 4.2 Remote Controller Layout

- **Left Joystick:** Controls throttle (up/down) and sideways movement (left/right).
- **Right Joystick:** Controls forward/backward movement and turning (left/right).
- **One-Key Take-Off/Landing Button:** Initiates automatic take-off or landing.
- **Speed Mode Button:** Toggles between high and low speed modes.
- **Calibration Button:** Used for initial setup and recalibration.
- **Emergency Stop Button:** Immediately cuts power to the motors.
- **Power Indicator Light:** Shows remote control status.



Image: A diagram illustrating the functions of the remote control's joysticks and buttons.

## 5. SETUP

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### 5.1 Charging the Batteries

1. Remove the modular battery from the helicopter.
2. Connect the USB charging cable to the battery.
3. Plug the other end of the USB cable into a USB power source (e.g., computer, power bank, USB wall adapter).
4. The indicator light on the USB cable will show charging status (typically red for charging, off or green for fully charged).
5. Charging time is approximately 60-90 minutes per battery. Each fully charged battery provides about 13 minutes of flight time.



Image: Visual guide for charging the modular batteries using a USB cable, compatible with various USB power sources.

## 5.2 Installing Batteries

1. **Helicopter Battery:** Insert a fully charged modular battery into the battery compartment on the underside of the helicopter until it clicks into place.
2. **Remote Controller Batteries:** Open the battery cover on the back of the remote control. Insert 3 x AAA batteries (not included) according to the polarity markings. Close the battery cover.

## 5.3 Pairing the Remote Control

1. Place the helicopter on a flat, level surface.
2. Turn on the helicopter by pressing its power button. The helicopter's LED lights will flash.
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 helicopter's lights will stop flashing and become solid, indicating successful pairing.
5. If pairing fails, turn off both devices and repeat the steps.

## 6. OPERATING INSTRUCTIONS



## 6.1 One-Key Take-Off and Landing

- After successful pairing, press the One-Key Take-Off/Landing button (short press) on the remote control. The helicopter will automatically ascend and hover at a stable altitude.
- To land, press the One-Key Take-Off/Landing button again. The helicopter will slowly descend and land automatically.



Image: The helicopter in mid-air, demonstrating the one-key take-off and landing feature controlled by the remote.

## 6.2 Altitude Hold Function

The 4DRC M5 features an advanced air pressure technology that allows it to automatically hover at a certain altitude after take-off. This makes it easier for beginners to control the helicopter without constantly adjusting the throttle.

# Altitude Hold



- 2 SPEEDS LEVEL
- ALTITUDE HOLD FUNCTION
- ONE KEY TAKE-OFF/LANDING EMERGENCY STOP



Image: A hand supporting the helicopter, symbolizing its ability to maintain a stable altitude during flight.

## 6.3 Speed Modes

The helicopter offers two adjustable speed levels:

- **Low Speed Mode:** Ideal for beginners and indoor flying, providing more stable and gentle control.
- **High Speed Mode:** Offers faster and more agile flight, suitable for experienced pilots or larger indoor spaces.

Press the Speed Mode button on the remote control to switch between modes. The helicopter's LED lights may indicate the current speed mode.





Image: Two helicopters in flight, visually representing the difference between low and high speed modes.

## 6.4 Basic Flight Controls

- **Ascend/Descend:** Push the left joystick (throttle) up to ascend, pull down to descend.
- **Forward/Backward:** Push the right joystick up to fly forward, pull down to fly backward.
- **Turn Left/Right (Yaw):** Push the right joystick left to turn left, push right to turn right.
- **Fly Left/Right (Sideways):** Push the left joystick left to fly left, push right to fly right.

# 4.5 CHANNELS FLY SIDEWAYS FORM



Image: The helicopter performing a sideways flight maneuver, showcasing its 4.5 channel control capabilities.

## 6.5 Emergency Stop

In case of an emergency or loss of control, press and hold the Emergency Stop button on the remote control. This will immediately cut power to the motors and cause the helicopter to drop. Use this function only when necessary to prevent damage.

## 6.6 Low Battery Alarm

When the helicopter's battery is low, its LED lights will start flashing rapidly, and the helicopter may begin to slowly descend. This indicates that it's time to land the helicopter and recharge the battery.

## 7. MAINTENANCE

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### 7.1 Cleaning

Wipe the helicopter and remote control with a clean, dry cloth. Do not use chemical cleaners or solvents, as they may damage the plastic components.

### 7.2 Propeller Replacement

The helicopter's propellers are designed to be flexible and durable. However, in case of damage, spare propeller blades are included. Carefully remove the damaged blade and replace it with a new one, ensuring it is securely attached and oriented correctly.

### 7.3 Storage

When not in use, store the helicopter and remote control in a cool, dry place, away from direct sunlight and extreme temperatures. Remove batteries from the remote control if storing for extended periods.

## 8. TROUBLESHOOTING

| Problem                                     | Possible Cause   | Solution   |
|---|--|--|
| Helicopter does not respond to remote.      | Not paired; low battery in remote or helicopter; interference.           | Re-pair the remote and helicopter. Check and replace/charge batteries. Move to an area with less interference.                                 |
| Helicopter cannot lift off or flies weakly. | Low helicopter battery; damaged propellers; too much wind (if outdoors). | Charge helicopter battery fully. Check propellers for damage and replace if necessary. Fly indoors or in calm conditions.                      |
| Helicopter drifts or is unstable.           | Needs calibration; uneven surface during take-off; damaged rotor.        | Ensure helicopter is on a flat surface for take-off. Perform calibration (short press calibrate button). Check for bent or damaged propellers. |
| Short flight time.                          | Battery not fully charged; old battery; continuous high-speed flight.    | Ensure battery is fully charged. Consider replacing old batteries. Use low speed mode for longer flight times.                                 |




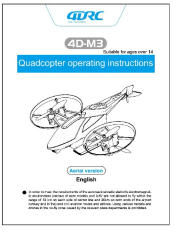
## 9. SPECIFICATIONS


- **Model:** M5
- **Brand:** 4DRC
- **Control Channels:** 4.5 Channel
- **Control Frequency:** 2.4GHz
- **Battery Type:** Lithium-Ion (Modular)
- **Flight Time:** Approximately 13+ minutes per battery (2 batteries included for 26+ minutes total)
- **Charging Time:** 60-90 minutes
- **Control Distance:** Approximately 80 meters
- **Material:** Plastic, Metal (Durable Alloy Structure)
- **Product Dimensions:** 20.32 x 12.7 x 17.78 cm
- **Weight:** 390 g
- **Recommended Age:** 8 - 17 years

## 10. WARRANTY AND SUPPORT

For warranty information, technical support, or replacement parts, please refer to the contact information provided on the product packaging or visit the official 4DRC website. Keep your purchase receipt as proof of purchase for any warranty claims.

Related Documents - M5

|   |  |
|---|--|
|   | <p><a href="#">4D-V8 Quadcopter Operating Instructions and User Manual</a></p> <p>Comprehensive operating instructions and user manual for the 4DRC 4D-V8 Quadcopter, covering setup, flight controls, safety precautions, and app usage.</p>  |
|    | <p><a href="#">4D-S2 High-Speed Remote Control Boat Operation Manual</a></p> <p>This operation manual provides detailed instructions for the 4D-S2 high-speed remote control boat, covering setup, operation, safety precautions, and troubleshooting.</p>   |
|   | <p><a href="#">4DRC 4D-V2 Quadcopter Instruction Manual</a></p> <p>Comprehensive instruction manual for the 4DRC 4D-V2 quadcopter, covering setup, operation, safety guidelines, and troubleshooting.</p>  |
|  | <p><a href="#">4DRC 4D-FIO Quadcopter User Manual &amp; Operating Instructions</a></p> <p>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+.</p> |
|  | <p><a href="#">4DRC 4D-M3 Quadcopter Operating Instructions and Manual</a></p> <p>Comprehensive operating instructions and guide for the 4DRC 4D-M3 Quadcopter, covering setup, flight controls, app usage, and troubleshooting.</p>   |

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| <div data-bbox="134 91 293 327"><p>The image shows the front cover of the 4DRC 4D-F12 Quadcopter operating instructions. At the top, the 4DRC logo is in blue. Below it, '4D-F12' is written in white on a blue background, followed by 'Suitable for ages over 14' in smaller text. The title 'Quadcopter operating instructions' is in white on a blue background. In the center is a line drawing of the white quadcopter. Below the drawing is the 'GPS' logo and the word 'English'. At the bottom, there is a small disclaimer in English and Chinese.</p></div> | <div data-bbox="341 226 1477 338"><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></div> |
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