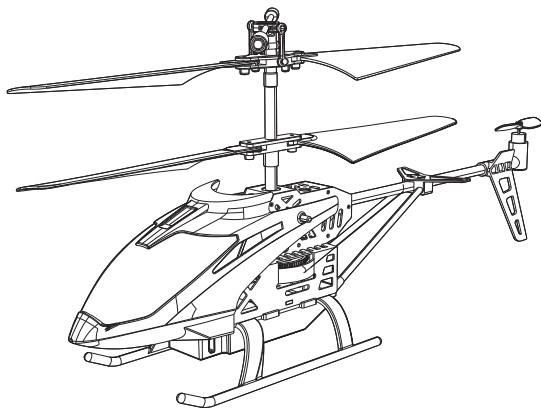


## 4D-M5

Suitable for ages over 14

# Instruction Manual of Helicopter



**Fixed Height  
Version**

**English**

- 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 the) and civil aviation routes and airlines. Using various models and drones in the no-fly zone issued by the relevant state departments is prohibited.

## Warning

1. The packaging and instructions contain important information and should be kept.
2. You are responsible to ensure that it will not cause harm to the body and property of others when using this helicopter.
3. It must be in strict accordance with the instructions for commission and installation of this helicopter. Be sure to keep the helicopter 2-3 meters from the user or other people during the flight, and don't hit the users or others on their head, face or body during the flight and landing to avoid injury.
4. Our company and distributors are not responsible for any loss and damage, as well as injury to people caused by improper use or operation.
5. Children shall be instructed by adults when they operate the helicopters. Children under 14 years of age are prohibited from operating this product.
6. Please follow the instructions or packaging instructions to install and use correctly, and some parts should be assembled by adults.
7. The product contains small parts, please place it out of the reach of children to prevent the risk of accidental eating or suffocation.
8. It is strictly forbidden to play on the road or in the place where water is accumulated to avoid accidents.
9. Please put away the packing materials in time to avoid harm to children.
10. Do not disassemble or modify the helicopter, or malfunction may be caused to the helicopter.
11. The charging cable needs to be inserted into the designated power supply 5V  $\overline{\text{---}}$  2A that is the same as the product label.
12. Only use the charging cable configured by the factory.
13. The charging cable is not a toy.
14. When charging the rechargeable battery, it must be under the supervision of an adult. When charging, it must be far away from flammable materials. During charging, the guardian should not leave the monitoring range.
15. Please do not short circuit or squeeze the battery to avoid explosion.
16. Do not mix different types of batteries
17. It uses a 3.7V rechargeable lithium battery, which needs to be unplugged for charging.
18. Do not short-circuit, decompose or throw the battery into fire; do not put the battery in a place with high temperature and heat (such as in fire or near electric heating device).
19. The helicopter should be used as far away as possible from other electrical equipment and magnetic objects to avoid mutual interference.
20. Please keep a safe distance from the high-speed rotating propeller to avoid the risk of scalp or cut
21. The motor is a hot part; please do not touch it to avoid burns.
22. LED has laser radiation; please do not give direct light beam to others.
23. Do not use the model near your ears! Misuse may cause hearing damage.
24. As for the USB charging cable, the data cable provided by our company must be used to charge the battery, otherwise it will cause damage to the battery.
25. To meet the magnetic environment requirements of aeronautical radio stations. During the radio control order issued by the relevant state departments, the model remote control should be stopped within the city area as required.
26. When the battery is used up, turn off the switch and unplug the battery, and charge it after 30 minutes of inactivity, otherwise the battery may be damaged.

## 1. List of accessories included:



Aircraft x1



USB charging cable x1



Fan blade x4



Lithium battery x1

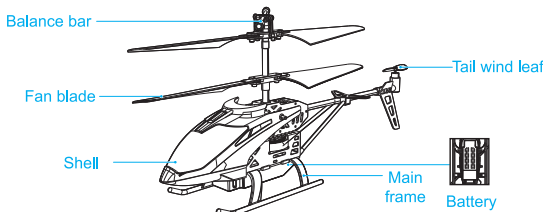


Screwdriver x1

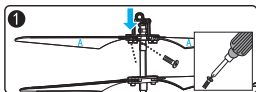


Operating Instructions x1

## 2. Names of parts of the helicopter:

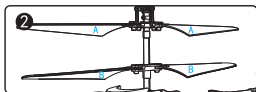


## 3. Wind blade installation diagram:



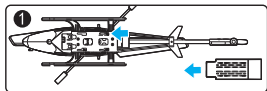
3.1 Unscrew the screw and remove the fan blade.

⚠ Note: The fan blade is printed with A, B. Please install it correctly according to the instruction, otherwise it cannot take off

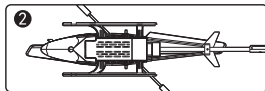


3.2 Loosen the screw, open the two fan blades and the connecting parts, and remove the fan blades for replacement. (when A fan blade is broken, replace A, and so do to B fan blade, error in replacement will cause that it can't take off)

## 4. Lithium battery installation:

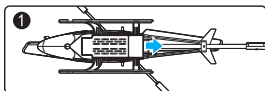


4.1 Align the battery with the card slot under the helicopter and push it into the battery holder.

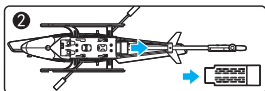


4.2 Check after installation to ensure that the battery is installed in place.

## 5. Lithium battery charging instructions:



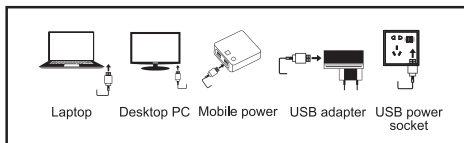
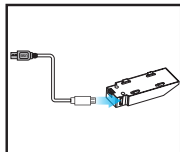
5.1 Push in the direction indicated by the arrow.



5.2 Remove the battery.

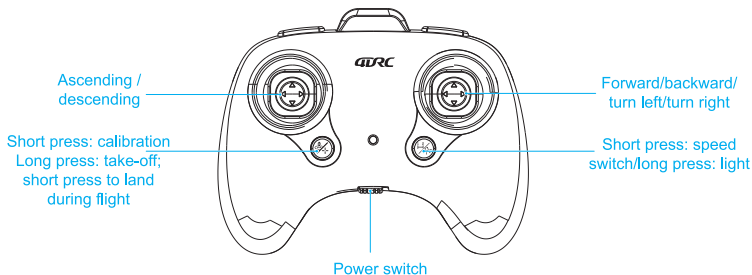
Disconnect the power supply, and plug the charger into the power socket. When the battery is charging, the red indicator will be always on and it will be off when it is fully charged. The charging time is about 2 hours.

- This product is equipped with a built-in lithium battery. Please pay attention to the following safety precautions in use.
- Do not hit or beat the surface of hard objects with the battery.
- Do not immerse the battery in water, and store the battery in a dry place.
- Only use the charger that comes with the product.
- Do not leave battery alone when charging.

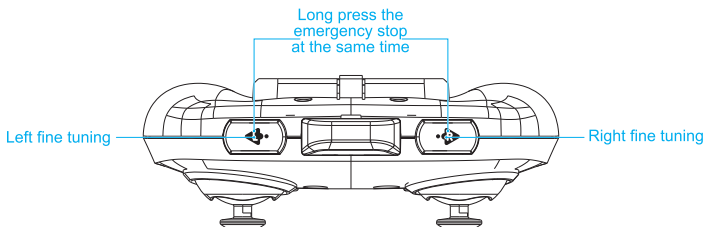


⚠ Note: If the helicopter are not in flight, please unplug the battery to prevent battery discharge. If the connector remains connected, it may cause excessive discharge due to long-term power consumption.

## 6. Name of each part of the remote control:





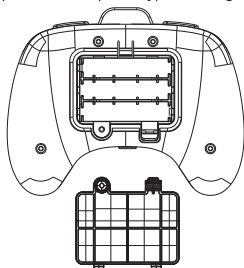


## 7. Remote control battery installation:

How to install the battery: Open the battery cover on the back of the remote control, and correctly insert 3 AAA alkaline batteries (batteries must be purchased separately) according to the electrode sign of the battery box. (see Figure)

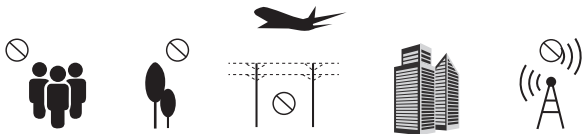
### ⚠ Note:

1. The positive and negative poles and the positive and negative poles of the battery box must be identified when inserting the battery, and error is not allowed.
2. Do not mix old and new batteries.
3. Do not mix different types of batteries.



The remote control uses 3 1.5V (AAA) non-rechargeable batteries

## 8. Environmental requirements before flight:



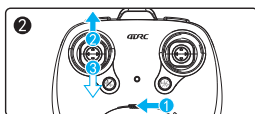
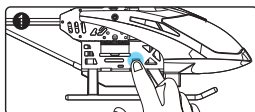
Please fly in an open outdoor environment with no rain or snow and wind less than Grade 3. Please stay away from crowds, trees, wires, tall buildings, airports and signal towers when flying. Do not fly in places with weak signals

## 9. Preparation instructions before flight




The helicopter/remote controller must be fully charged or it cannot take off!

- 9.1 Turn on the side switch of the helicopter, the LED light on the helicopter flashes.
- 9.2 Turn on the remote control (step 1), the indicator flashes, push the throttle stick up (step 2) and then pull it down to the bottom (step 3), the indicator of the remote control is always on, and so is the body light, which means frequency is successfully matched.



### 9.3 Horizontal calibration operation:

After the helicopter is successfully frequency matched, place the aircraft on a flat ground, short press the calibration button , the remote control beeps, and the helicopter light will first flashes quickly and then will be always on, which means the level calibration is completed (Figure 1).

 **Note:** The calibration must be done by placing the helicopter on a horizontal surface.

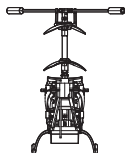




Figure 1

### 9.4 One-key take-off

When the level calibration is completed, long press the one-key take-off function button  of the remote control (Figure 2), the helicopter blades will start to rotate, and then push the throttle stick of the remote control, and the helicopter will start to take off. When the one-key take-off function button  is pressed again in the flight, the helicopter will descend slowly.

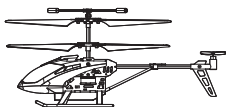








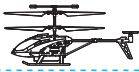











Figure 2


## 10. Manipulation method

Up	When the <b>left joystick (throttle)</b> is pushed up, the main rotor speed increases and the helicopter rises.			
Down	When the <b>left joystick (throttle)</b> is pushed down, the main rotor speed slows down and the helicopter descends.			
Turning	When the <b>right joystick (steering rudder)</b> is pushed to the left, the helicopter nose turns to the left. When it is pushed to the right, the helicopter nose turns to the right.			
Forward	When the <b>right joystick (steering rudder)</b> is pushed up, the helicopter nose is downward. The helicopter moves forward.			
Backward	When the <b>right joystick (steering rudder)</b> is pushed down, the helicopter nose is upward. The helicopter moves backward.			

### Special prompt

If the direction control stick is not pushed during flight, and the helicopter is still spinning in the air, at this time, the rudder fine-tuning button can be adjusted until it stop spinning.

When the helicopter nose rotates counterclockwise, lightly press the right fine-tuning button ① until the helicopter does not rotate.		
When the helicopter nose rotates clockwise, lightly press the left fine-tuning button ② until the helicopter does not rotate.		

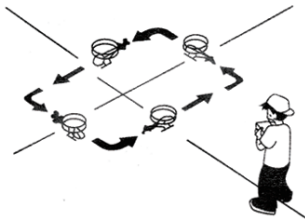
 **Note:** When the helicopter is at a position 30cm from the ground, the helicopter will be affected by the overcurrent of its own blades and become unstable, causing the aircraft to deflect to one side, which is called "ground effect response". When the weight of the helicopter is lower, the influence of the ground effect response is greater.

## 11. Flight practice:

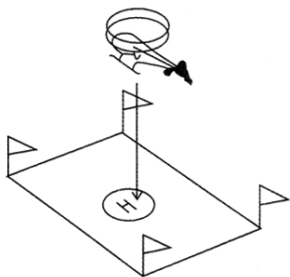
After enough practice, try the following flight practice.



Fixed point rotation (direction rotation)



Keep going forward-turn left-forward-turn left-forward-turn left, practice flying a square pattern, practice repeatedly, and gradually practice flying a circle.



Landing at a designated place (fixed-point landing)



("8" pattern flying)

## 12. Guidelines for problem solving:

Question	Reason	Approach
The remote control has no power supply	1. The on/off is in "OFF" position	1. Put the on/off engine in the "NO" position
	2. The battery is not inserted correctly according to the electrode instructions.	2. Check and make sure that the battery is inserted in accordance with the positive and negative poles indicated in the battery box.
	3. The battery runs out	3. Replace with new batteries
Remote control is not available	1. Frequency matching is not yet done	1. Please refer to 9.2
	2. Too fierce wind	2. Do not fly in windy conditions. Wind will restrict the aircraft or hinder your flight control.
The helicopter cannot fly higher	1. Rotor rotation speed is too slow	1. Push the power joystick up
	2. The helicopter is not fully charged	2. Fully charge the helicopter
The helicopter landed soon	1. Pull the power joystick back too soon	1. Slowly pull back the power joystick to let the helicopter land slowly
	2. The helicopter battery runs out	2. Please charge the helicopter

### Precautions

1. When the power of the remote control or helicopter is insufficient, the remote control distance will be affected and the distance will be shorter.
2. If the helicopter's power is insufficient, the flight altitude is insufficient or the takeoff is difficult.
3. If the helicopter is damaged and deformed, please repair it in time. In severe cases, for example, when the rotor is broken or damaged, do not fly, otherwise it will cause injury.
4. If you do not use it for a long time, please take out the battery of the remote control to avoid damage to the product caused by battery leakage.
5. Don't let the helicopter crash or collide seriously at high altitude, this will damage the helicopter or shorten the life of the helicopter.
6. This model of airplane contains a variety of alloy parts, attention must be paid for children to avoid from cutting by the alloy parts when playing.