



JJRC H106 Folding Drone With Obstacle Avoidance Function User Manual

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JJRC H106 Folding Drone With Obstacle Avoidance Function

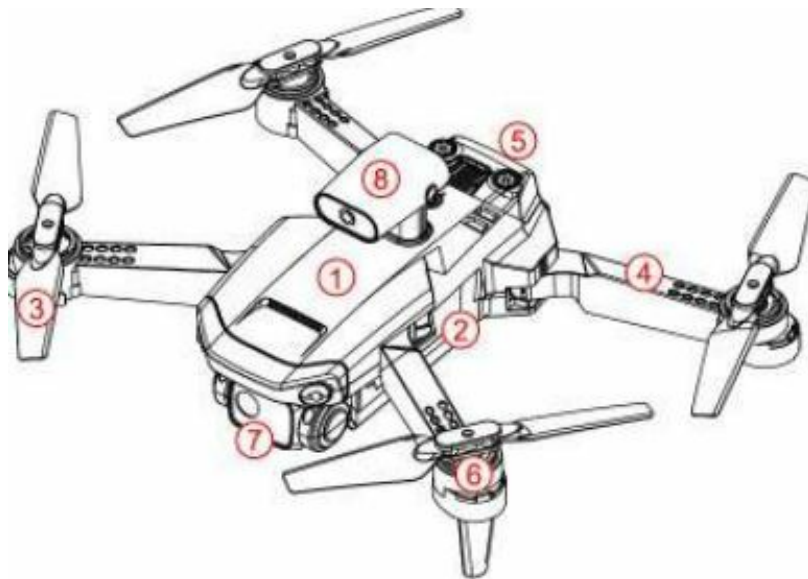


KNOW YOUR DRONE

Please read this manual carefully before operation and keep it properly for future reference.

The drone uses the 2.4G frequency, multiple-player can operate at the same time without interference.

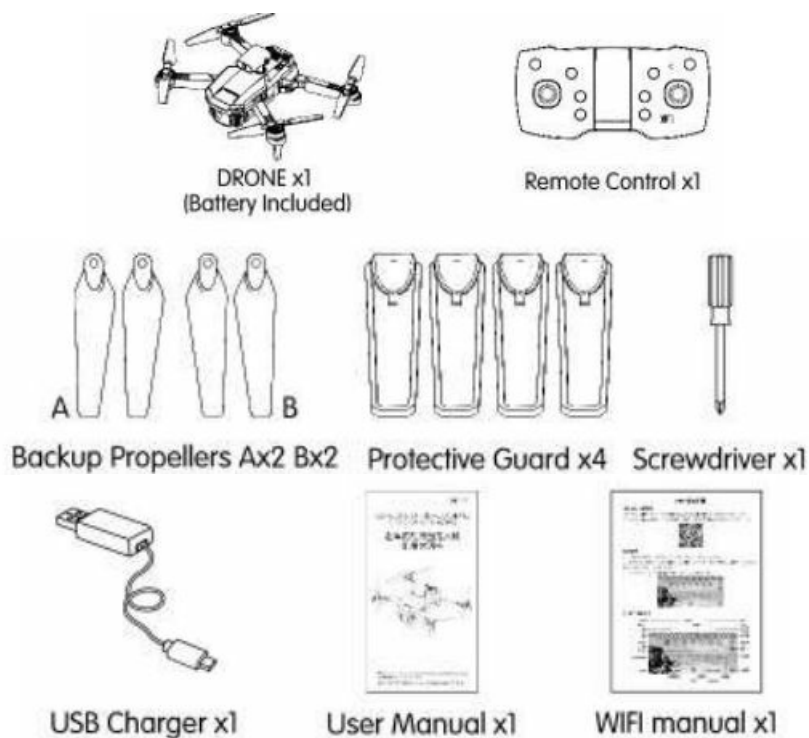
The drone can be controlled by remote to achieve flying, flipping, fine funding, one-key take off, one-key landing, speed control, headless mode, calibration, obstacle avoidance, camera adjustment, emergency stop, light switch and other functions.



1. Upper Casing
2. Lower Casing
3. Propeller
4. Arm
5. Battery

6. Motor
7. Camera
8. Obstacle avoidance equipment

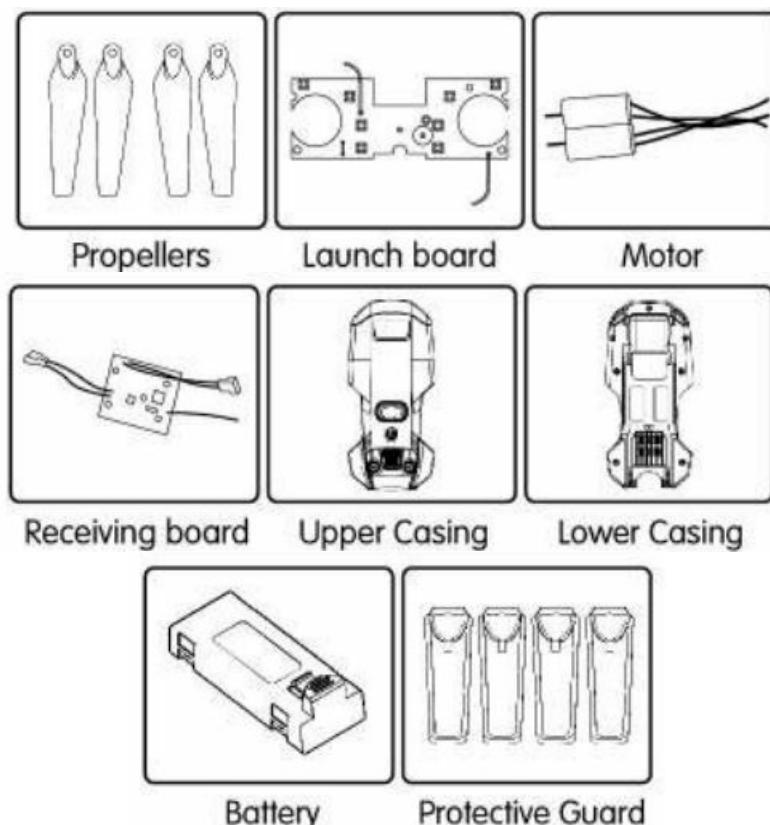
ACCESSORIES



Notes

Please check the number of accessories carefully as shown above]. Please provide proof of purchase and contact the store for replacement if any missing parts.

OPTIONAL ACCESSORIES LIST



Notes

If any of the above accessories are damaged during operation. You can contact the seller to purchase.

PRE-FLIGHT PREPARATION

1. FLIGHT ENVIRONMENT



- **Indoor:** Spacious spaces away from barriers, crowds, or pets are preferred.
- **Outdoor:** Sunny, windless, and breezy weather are preferred.



- Please keep the drone in sight during the flight and keep it away from barriers, high-tension cables, trees, and people.



- Do not fly in extreme environments, such as hotness, coldness, strong wind, or heavy rain.

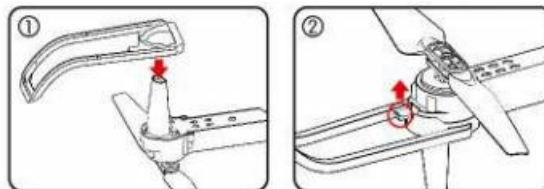
OPEN THE WINGS

OPENING STEPS

1. Open the front article to the camera)
2. Open the back arm Fold the back arm first and then the front arm when folding

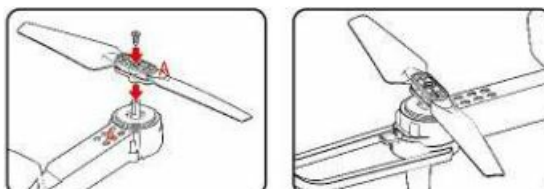


ASSEMBLING PROTECTIVE GUARD



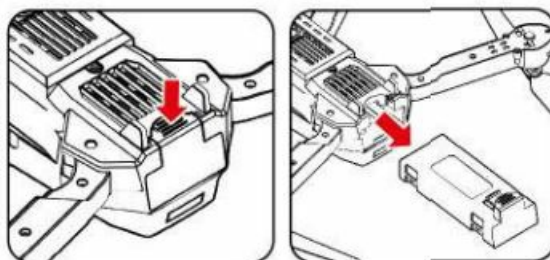
- Align the protective frame with the arm and install it (Figure 1), press it until it is in place, and then press the position (Figure 2) up to fasten the protective frame.

ASSEMBLING PROPELLERS

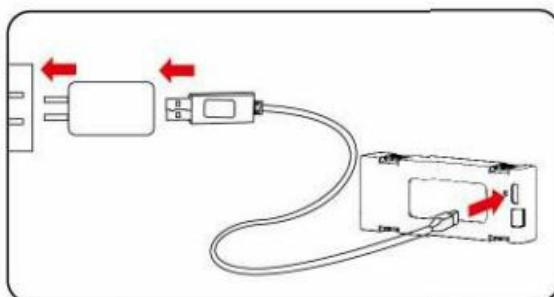


- Align the blades with the motor shaft and install them (the arm identification must be consistent with the blade identification), Tighten the screw clockwise.

BATTERY CHARGING FOR DRONE



- **A.** Remove the lithium battery from the bottom of the drone.
- **B.** The USB charging cable connects the battery to the USB power port.



Notes

- LED lights are on when charging and the red light turns off when full charging completes. The charging time is about 150 minutes.

BATTERY INSTRUCTIONS

- There is a certain risk when using lithium batteries. It may cause fire, body injury, or property loss. Users must be aware of the risks and take full responsibility for using batteries improperly.
- If battery leakage occurs, please avoid contacting your eyes or skin with electrolytes. Once it happens, please wash your eyes with clean water and seek medical care immediately.
- Please remove the plug immediately if you sense any peculiar smell, noise, or smog.

Battery Charging

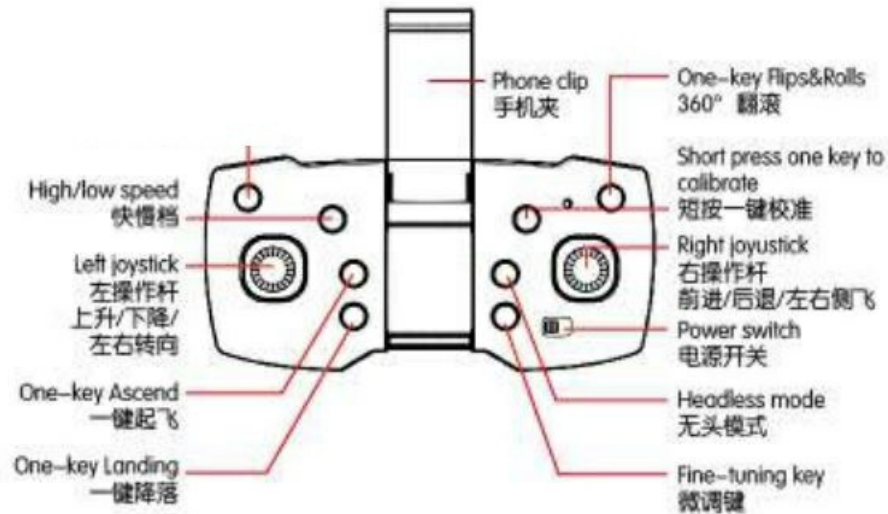
- Please use the charger from the original factory to ensure your safe usage.
- Do not charge the dilatant or outworn battery.
- Do not overcharge the battery. Please unplug the charger once fully charged
- Do not charge the battery next to inflammable, such as carpet, timber floor, or wood furniture, or on the surface of electro-conductive objects.
- Please always keep an eye on the battery when charging.
- Do not charge the battery which has not cooled down yet.
- The charging temperature should be between 0 to 40°

Battery Recycling

- Do not dispose of the battery as daily rubbish. Please familiarize yourself with the local garbage disposal method and dispose of it according to the special requirements.

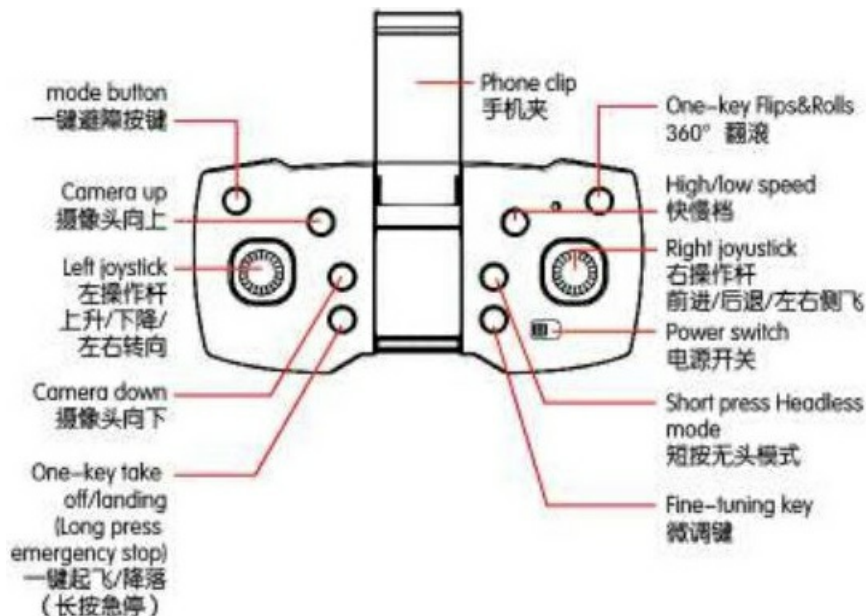
KNOW YOUR REMOTE CONTROL

1. Parts of remote control



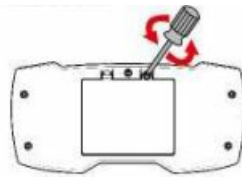
- Standard version
- The regular version is a light control key The obstacle avoidance version is the obstacle avoidance mode button

Camera ESC version

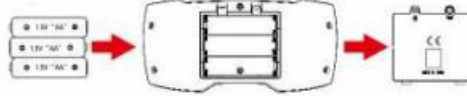


LITHIUM BATTERY INSTRUCTION

1. Open the remote control battery cover



2. Remote control battery installation



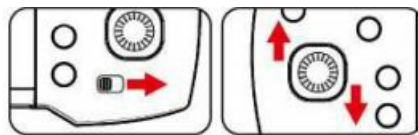
3. Open the battery cover and insert the 3 AA batteries correctly according to the electrode instructions (Batteries not included)

Notes

1. Make sure the battery is loaded correctly according to the polarity indications on the battery compartment.
2. Please do not mix old and new batteries together.
3. Please do not mix different types of batteries together.

SIGNAL CONNECTION OF TRANSMITTER AND RECEIVER

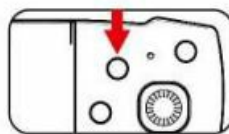
1. Switch on the drone power, place the drone on a horizontal plane, then open the remote control, both of their lights flash quickly at this time.
2. Push the throttle joystick to the top, hear a “drip”, and the remote light is fast flashing. then pull the joystick to the lowest point, another “drip” will be heard, and the lights of the remote and drone change to steady on, which means the calibration is finished.



TRANSMITTER CALIBRATION

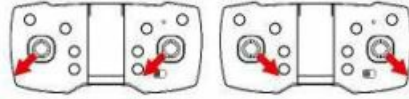
- Apply transmitter calibration when the drone fails to take off vertically.
- Standard version/Obstacle avoidance version
- Press the “One button calibration” button, When the lights of drone are on and then start flashing and keep on again, the calibration is complete. the drone must be placed on horizontal surface in a steady state when the calibrationis conducted.

Camera ESC version



- Move two joysticks to lower left (or lower right) same time, then it will sound a “drip”, meanwhile the drone lights flash quickly. Until the lights become steady on, the calibration is finished. When executing the correction command, it must be executed in a stable state parallel to the horizontal line, otherwise the correction effect will be affected.

START YOUR FLIGHT



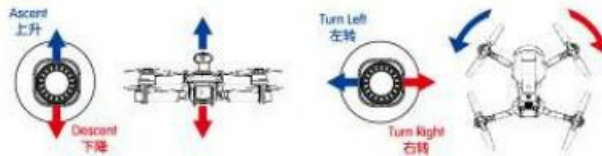
1. One-key Ascend

- Press the “One-key Ascend” button, the drone blades rotate and automatically fly to a height of 1.5 meters.

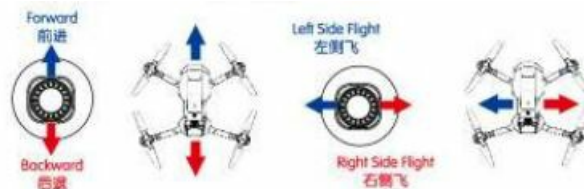
2. Basic Flight

- Use the left joystick to control the flight altitude and turn left/ right, and the right joystick to control the forward, backward, left and right side flight directions.

Left joystick



Right joystick



- Obstacle Avoidance Mode** (The obstacle avoidance function is only available when you purchase the obstacle avoidance version)



- Press the button to turn on the obstacle avoidance mode, and press again to turn off the obstacle avoidance mode.
- Avoid obstacles on four sides and retreat in the opposite direction of the obstacle.
- It is recommended to turn on the obstacle avoidance function in an indoor flight environment with a length and width of 6 x6 meters or more. When the UAV turns on the obstacle avoidance mode, the speed will slow down and the fast gear cannot be turned on. Therefore, it is recommended to fly indoors when the obstacle avoidance mode is turned on.

Flips & Rolls

- When the drone goes to 1 meter above, press the flipping button and move the right joystick to the left or right side, it will flip to the corresponding direction.

Right joystick



Headless Mode

The flight direction of drone is subjected to the direction of remote control.

1. When drone adjust the frequency, the drone is default as common mode. Then the indication light of drone is normally on. When you press the headless function key of remote control, the remote control beeps once and enters headless state. When you press the headless function key again, you listen to a long beep sound and the drone exits the headless mode.
2. in the headless state, operator doesn't need to identify the direction of nose, but control the drone according to the operating lever of remote control.

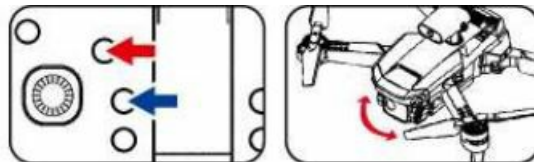
Hover

When you release the left joystick (throttle after the ascent/descent action, the drone will hover at a certain height.

Left joystick

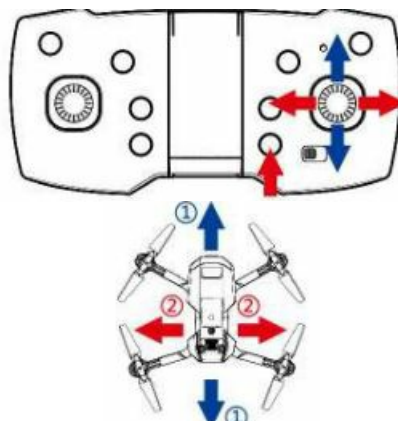


- Camera angle adjustment



- During the flight of the drone, the camera angle can be adjusted through the camera adjustment button.
- (This function is only available in the camera ESC version)

FINE-TUNING FUNCTION



- If the drone leans to one side when hovering, fine-tuning can be used to correct its direction.
- Press the fine-tuning button and hear a beep, then move the joystick in the opposite direction to adjust and

calibrate until the aircraft does not deviate.

- If there is no operation for 5-6 seconds after entering the fine-tuning, the fine-tuning function will automatically exit.

1. Forward/Backward Fine-tuning

2. Left/Right Side Fly Fine-tuning

Notes

When the drone is within 30cm from the ground, it will be affected by the blade vortex made by itself and become unstable. This is 'around effect' The lower the drone is, the greater the effect will be.

FAQ

PROBLEMS	CAUSES	SOLUTIONS
Control failure	Not connect with the quadcopter battery.	Connect the quadcopter battery in right way.
	Too strong wind force.	Do not fly in windy days. The performance and the control of the quadcopter will be affected by the strong winds.
Fail to ascend	The rotation speed of main blades is too slow.	Push up the throttle joystick.
	The battery of the quadcopter is not fully charged.	Please full charge the quadcopter.
Landing too soon	The throttle stick is pulled down too fast.	Pull down the throttle stick slowly to perform a smooth landing.
Out of control	Beyond the effective controlling distance.	Ensure operation within the controllable distance: remote control of 100 meters and WIFI control of 40-50 meters.

Documents / Resources



[JJRC H106 Folding Drone With Obstacle Avoidance Function](#) [pdf] User Manual
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