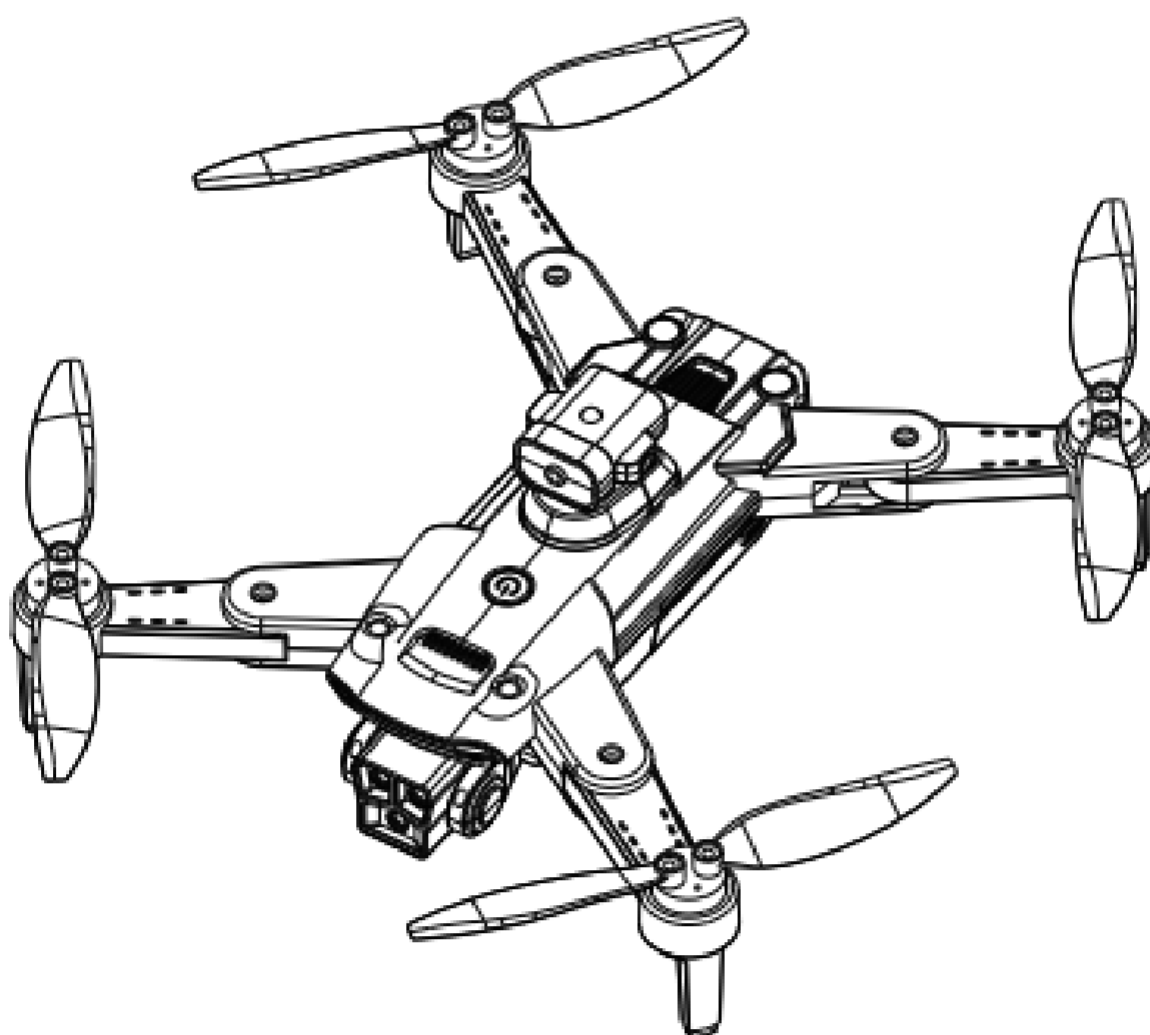


User Guide

S166 Drone



hytobp@htwlkj.net



<https://www.hytobp.net>



+1 (602) 563-6540



Before using the product, please read this instruction manual carefully and try to choose to fly in an environment with good air and light. This will ensure the normal operation of GPS mode and optical flow mode.



Scan the QR-code to get guide video



download
the fly App



watch the
Tutorial Video

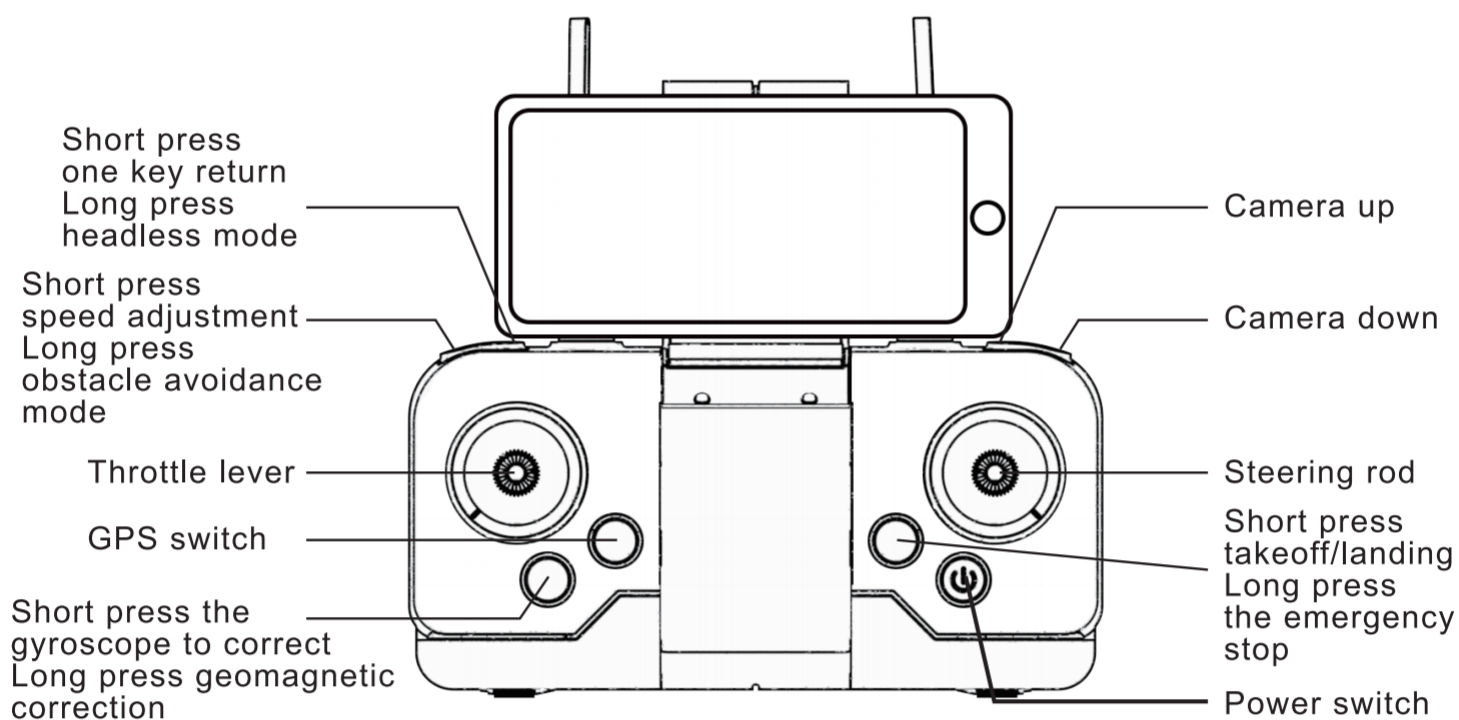


view the Instructions
For Use

IMPORTANT INSTRUCTION

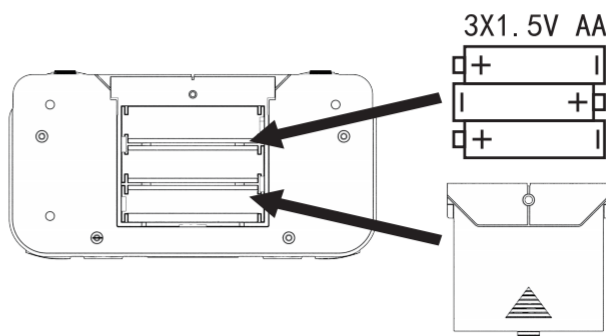
1. This product is not a toy but a precise equipment that integrating mechanics and electronics with expertise of aerodynamics and high-frequency transmitting.
It requires to be correctly assembled and debugged so as to prevent the accident from being happened. The product owner should operate or control it in safe way.
Please noted that we won't take any responsibility for any wrong operation as this may result in severe injury or loss of property and we can not control the operating process during the time when the user assemble or use this product.
2. This product is suitable to be used by people who has operating experience in flying model or age no less than 14 years old.
3. The flying ground we required should be the local field and legal for remote control flying.
4. Once this product is sold, we won't be responsible for any safety responsibility during the time the user operates or uses or controls this product.
5. If there is any problem occurred during the time of using, operating or repairing, please reach our sales agent for details. The sales agent that we authorized will provide you with the technical support and after-sale service.

CONTROLLER COMPONENTS



REMOTE CONTROL CHARGING

Follow the electrode indications (+/-) of the battery box as shown. Insert the battery correctly (as shown).



CHARGING MODE((7.4 V LITHIUM BATTERY))

1. Use the special charger for drone supplied by our factory for charging. Insert the lithium polymer battery plug into the charger socket, as shown in the figure.
2. To ensure safety, the charging must be carried out within the sight range.



BATTERY WARNING:

Lithium Polymer batteries can expand, burst or catch fire if used incorrectly, causing both property damage and or personal injury. It is essential that you follow all the included instructions and safety warnings in full. The manufacturer, distributors and retailers will assume no liability for the failure to comply with these safety instructions and warnings.

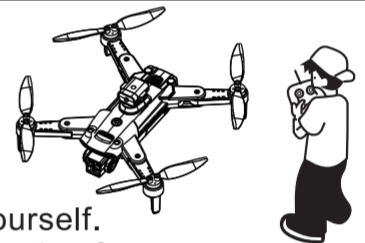
INSTRUCTIONS WHEN CHARGING:

- 1) The battery must be removed from the product before charging.
- 2) If the battery has just been used, please let it cool down to room temperature before charging.
- 3) Charging must only be undertaken by an Adult, and only using the charger included with this product.
- 4) Always charge the battery on a non flammable heat resistant surface with non flammable surroundings.
- 5) Connect the battery to the USB charging cable
- 6) Lithium Polymer batteries do not last forever. If your battery becomes damaged in a crash or no longer charges properly, immediately replace it with a new battery. To prolong the life of your battery, it is always best to retain a bit of charge in your battery prior to charging it.

FLIGHT ACTION ADJUSTMENT AND SETTING

Please be familiar with the simulation flight before flight

Before you understand the operation of each action of the drone, it is strictly forbidden to fly the drone. Please read the instructions first, Familiar with the control of various directions and repeat until the fingers can skillfully control various movements and directions.



1. Place the drone in an open place and aim the back of the drone at yourself.
2. Practice operating each rocker of the remote control (the operation mode of each action is shown in the figure below), and practice the accelerator repeatedly High / low, aileron left / right, elevator front / rear and rudder left / right operation mode.
3. The practice of simulated flight is very important. Please repeat the exercise until you don't need to think and your fingers can follow naturally Call out command movement control.

Pattern	Icon	Pattern	Icon
Aileron	 Left shift Right shift	throttle	 Rise decline
Lifting / fore and aft	 Forward Back off	direction	 Turn right Turn left

ADJUSTING CAMERA UP / DOWN

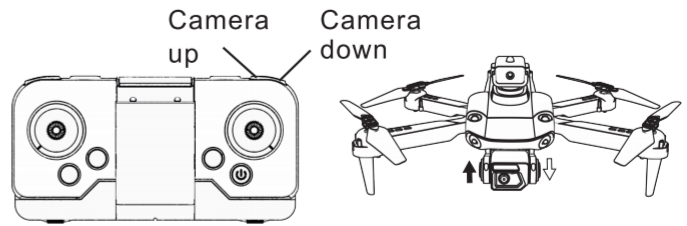
When using DRONE, you can adjust the camera direction up and down by dialing the servo button.

Steering gear up

When the drone is flying, press the steering button to the left, Adjust the camera up

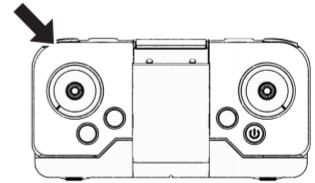
Steering gear down

When the drone is flying, press the steering button to the right, Adjust the camera down



HIGH / LOW SPEED SWITCHING

To switch the flight speed mode, click the low speed mode, then press again to enter the medium speed mode, Press again to enter the high-speed mode and cycle through it.

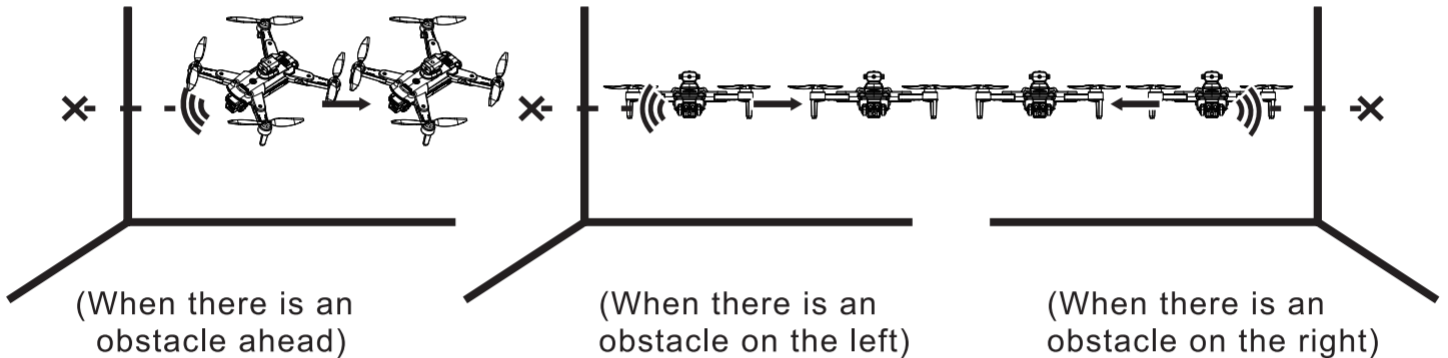
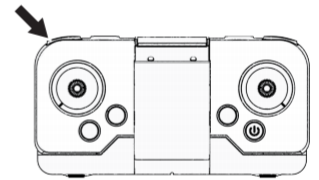


OBSTACLE AVOIDANCE FUNCTION/ONE KEY RETURN HOME

OBSTACLE AVOIDANCE FUNCTION

Long press to enable the obstacle avoidance function, and then long press to exit the obstacle avoidance function.

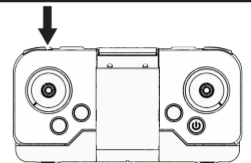
Press the obstacle avoidance button, the aircraft will automatically sense (sensing range 0.8 to 1.5 meters) the obstacles on the left and right sides, and the lights on the four arms of the aircraft will start to flash rapidly after sensing, and then move back about 20 cm to stop. Press the button again to turn off the function. There is no obstacle avoidance effect in sunlight. (The obstacle avoidance function is recommended to be turned on indoors 6X6 meters above)



Headless mode/One key return

HEADLESS MODE

The aircraft is in normal mode by default. The remote controller is laid flat, and the antenna is horizontally aligned with the tail of the aircraft. Press the button to enter headless mode, and then press again to exit headless mode. In the headless state, the controller does not need to identify the nose position of the aircraft, but only needs to control the aircraft according to the direction of the joystick of the remote controller.



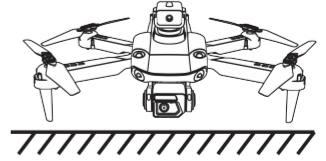
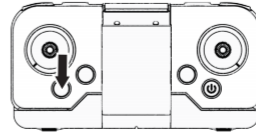
ONE KEY RETURN

Short press the key to return, the aircraft will automatically return to the direction of take-off, one-key return can only automatically back to take off, can not do backward Land to the take-off point, and then press the button or push the left rocker up to exit the return course.

GYRO CALIBRATION / GEOMAGNETIC CALIBRATION

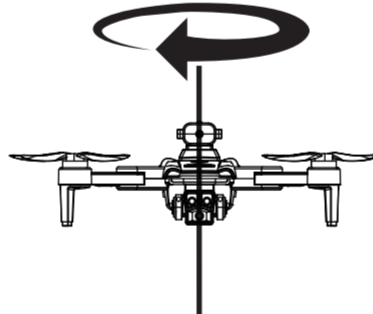
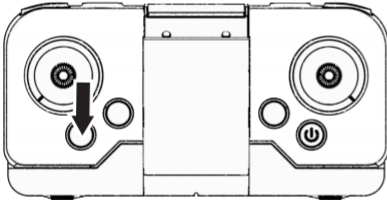
GYRO CALIBRATION

Turn on the power to the vehicle and place the vehicle horizontally Lay flat on the ground and press the button to calibrate the gyroscope (as shown in the figure), the front and rear lights of the calibrating arm flash quickly. After gyroscope calibration is complete, the rear light of the arm blinks slowly.



GEOMAGNETIC CALIBRATION

Press and hold the button for geomagnetic calibration (as shown in the picture), the geomagnetic indicator light is on, the remote control makes a "beep", the aircraft headlight flashes slowly and enters the geomagnetic calibration mode, pick up the aircraft and hover about 30 cm above the ground. With the aircraft head facing forward, rotate clockwise until the remote control makes a "di" sound, then turn the aircraft head upwards and rotate clockwise until the remote control makes a "di" sounds to indicate that the geomagnetic calibration is completed.



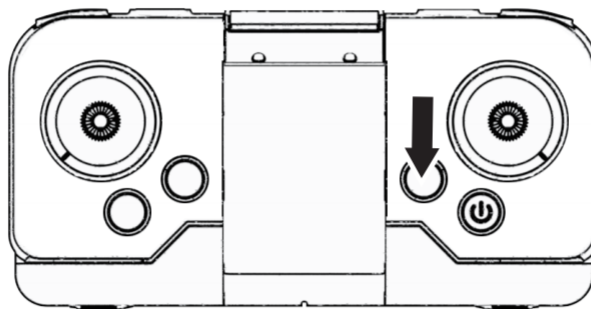
(Head forward,
turn clockwise)



(Head up,
turn clockwise)

ONE KEY TAKEOFF / ONE KEY LANDING / LONG PRESS EMERGENCY STOP

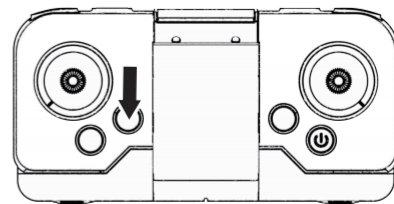
Press "One key to take off" the drone will automatically take off, then press the drone to automatically land, long press the drone to stop



Note: If the height of the drone exceeds 5 meters, emergency stop and one-key descent will be invalid.。

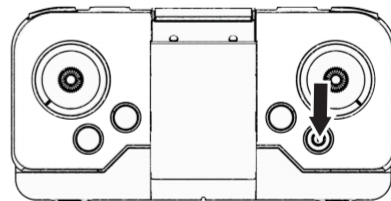
GPS SWITCH

The remote control defaults to outdoor mode. Long press and hold the GPS button, the remote control emits a "beep" sound, and the GPS indicator light lights up, indicating that it has switched to indoor mode. Press and hold for about 3 seconds, the remote control will emit a "beep" sound, and the GPS indicator light will turn off, indicating that it has switched to outdoor mode and will cycle accordingly.

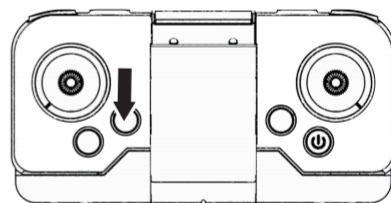


INDOOR FLIGHT OPERATION METHOD

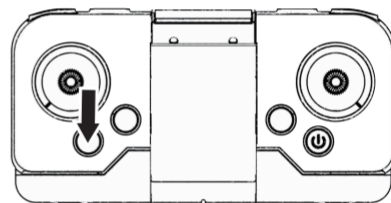
1. Place the aircraft at the takeoff point, turn on the aircraft switch, and when the front and rear lights of the aircraft change from long on to slow flashing, you can turn on the remote control. The remote control display light is constantly on, emitting three beeps to indicate that the aircraft has been connected and the front lights of the aircraft are constantly on.



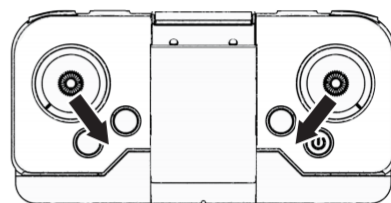
2. Long press the GPS button on the remote control, the remote control emits a "drip" sound, and the GPS indicator is off, indicating that it has switched to indoor mode.



3. Short press the button to calibrate the gyroscope, and the headlight of the aircraft is steady on, indicating that the calibration has been successful.

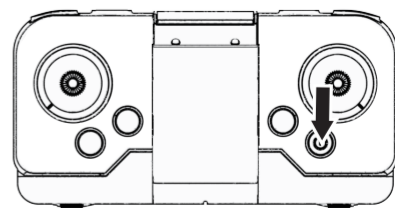


4. At the same time, push the left push rod of the remote control to the lower right, and push the right push rod to the lower left to start the aircraft. When the blade of the aircraft starts to turn slowly, press the "one-button take-off" button, or dial the throttle up to start Flying aircraft.

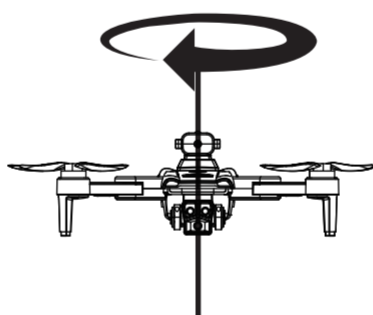
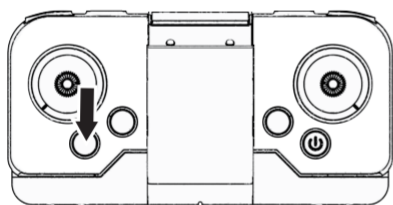


OUTDOOR FLIGHT OPERATION METHOD

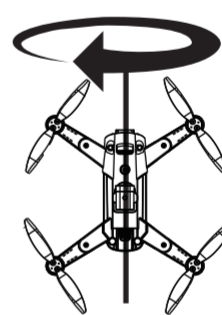
1. Place the aircraft at the take-off point, turn on the aircraft switch, and wait until the front and rear lights of the aircraft are cleared. When the long light turns to a slow flash, you can turn on the remote control. The remote control display light is on and emits three sounds of "drip drip drip", indicating that the aircraft has been connected. At the same time, the headlight of the aircraft is steady on.



2. Long press the button for geomagnetic calibration (as shown in the figure), the geomagnetic indicator light will light up, and the remote control will make a "drop" sound. The aircraft will enter geomagnetic calibration mode, pick it up about 30 centimeters above the ground, turn the aircraft head forward, clockwise until the remote control makes a "drop" sound. Then, turn the aircraft head upwards, clockwise until the remote control makes a "drop" sound, indicating that geomagnetic calibration is complete.



(Head forward,
turn clockwise)



(Head up,
turn clockwise)

3. Waiting for the star search, the tail light of the aircraft changes from slow flashing to steady light, indicating that the star search has been completed, and the remote control emits a "beep" sound.
4. Short press the button to calibrate the gyroscope. When the front and rear lights of the aircraft flash rapidly, it means that the calibration has been successful.
5. At the same time, push the left push rod of the remote control to the lower right, and push the right push rod to the lower left to start the aircraft. When the blade of the aircraft starts to turn slowly, press the "one-button take-off" button, or dial the throttle up to start Flying aircraft.

