4DRC
Just Four Dreams

4D-V2

Age:14+

INSTRUCTION MANUAL

Speed toggle switch | One Key Return | Headless Mode | 360°Eversion | 2.4 GHz

Thank you for purchasing our product. In order to use it correctly and make sure safety, please read the instruction book carefully before using. For your further reference please keep it well.

IMPORTANT NOTICE

1. Quadcopter is not a toy. There is still some risks exist. Please be sure to correctly use strictly in accordance with the safety notes and instructions. Any modification or improper use of the product may cause unexpected danger or accident. Please do not overlook.

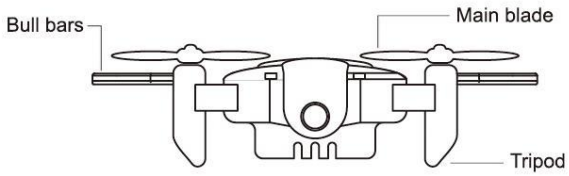
2. This product is not suitable for users under 14 years old. Please ensure the product is operated under safe environment. Manufacturer and dealer assume no liability for accidental damages by abnormal wear of parts, improper assembly, or operation in unsafe manners.

3. This RC drone requires high flying skills. Any demages caused by wrong operations of disassemble and usage, can not be replaced, returned and exchanged under the warranty. If issues with usage, operation and maintenance happened, our company or distributors will provide you technical guidance and spare parts supply at special prices.

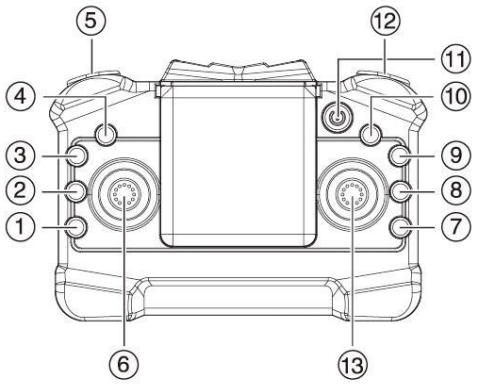
4. This RC drone is dangerous for beginners to fly. It should fly away from people, especial for beginner pilots. Improper assembly, demaged parts, wrong operations may cause unforeseen accidents such as injuries resulting from the losing control of the flight, etc. The pilots must pay attention to the flying safety and well know his/her flying ability for any accidents by his/her negligence.

5. This RC drone can fly indoor and outdoor. Do not fly it in unsafe places, such as nearing heat sources, high-voltage power cables, and forbidden flying drones.

INSTRODUTION OF AIRCRAFT:

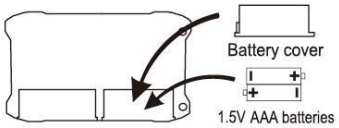


PARTS OF THE CONTROLLER



1. Emergency Stop (Short press)/
   One-key adjustment (Press and hold)
2. One-key take off (Short press)
   One-key landing (Press and hold)
3. One-key return (Press and hold)
   Headless mode (Short press)
4. One-key rotation / One-key hovering
5. 3 levels of speed
6. Throttle / left and right controlling stick
7. Backward trimming
8. Forward trimming
9. Right trimming
10. Left trimming
11. Power
12. Flips
13. Forward & backward /
    left & right side fly
    controlling stick

Battery Installation of the Controller



The method of installing the batteries: Open the battery cover on the back of the controller , according to the polarity instruction on the battery box, loaded 2 AAA batteries correctly.(Batteries are not included.)

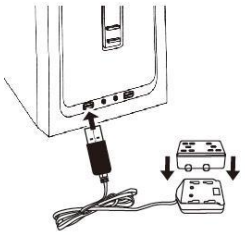
CAUTION:

1.Make sure the battery and its polarity in the battery compartment should be correct. Please don't load the batteries upside down.
2.Please don't mix the old batteries with the new ones.
3.Please don't mix using batteries of different types.

THE INSTRUCTION OF LITHIUM BATTERY CHARGING

Insert the USB plug into the computer or a power supply with a socket, voltage 3.7V, current less than 2A, and then plug the other end into the module battery. When charging, the red indicator light of the product does not light, indicating that charging is in progress, and the charging saturation indicator lights up! Charging time is about 60 minutes.

As the product is a high-end product, the design only supports the use of computers or chargers less than 3.7v for charging. It is strictly prohibited to use other non-standard chargers to charge the battery!



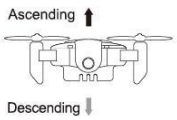
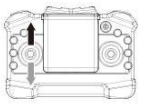
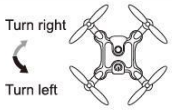
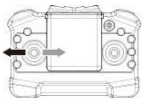
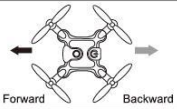
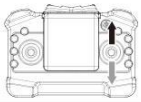
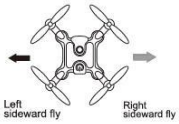
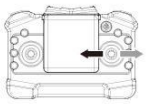
WARNING ⚠

If you do not want to play this quadcopter, disconnect the module battery from the aircraft.

Attention:

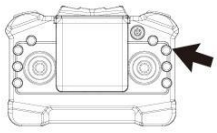
1.Make sure the voltage of the adapter fits the local electricity supply.
2.The Charging plug will overheat while overcharged. Please stop charging immediately for it could cause serious damage to the battery.
3.Do not leave the battery aside when charging.
4. When the aircraft has just finished flying, the battery temperature is higher. It is best to wait for about 30 minutes until the battery is cooled before charging the lithium battery, otherwise the battery will be damaged.
5.Recharge the battery 30 minutes later after flying,because the battery temperature could be too high when flying and charging immediately could damage the battery.
6.Do not throw the battery into fire in consideration of safety.
7.Do not short circuit the battery. Do not leave the battery together with tiny medal parts in consideration of safety.

OPERATIONAL APPROACH

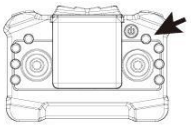
	When you push up the left lever (throttle), the spinning speed of the main blades will increase and the quadrocopter will ascend. When you push down the left lever (throttle), the spinning speed of the main blades will decrease and the quadrocopter will descend.	
	When you push the left lever (steering) to the left, the quadrocopter will turn to the left. And when you push it to the right, the ,the quadrocopter will turn to the right.	
	When you push the right lever (rudder) upward, the quadrocopter will fly forward. And when you push it downward, the quadrocopter will fly backward.	
	When you push the right lever (rudder) to the right, the quadrocopter will fly sideward to the right. When you push the right lever (rudder) to the left, the quadrocopter will fly sideward to the left.	

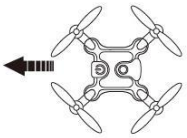
NOTICE If the rudder lever is not pushed during the flight and the aircraft is still flying sideways in the air, the rudder fine-tuning button can be adjusted.

Caution: When the quadrocopter ascends to 30cm high, it will affected by the blade vortex made by itself, and become unstable. This is "ground effect". The lighter the quadrocopter, the greater the effect.

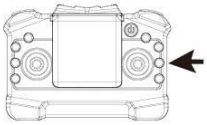
 When the aircraft inclines to the left in flight, press the right fine-tuning button (button 9) until the aircraft is balanced.	

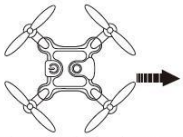
When the aircraft is tilted to the right during flight, press the left spin button (key ⑩) until the aircraft is balanced.



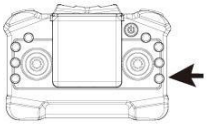


When the aircraft is hovering, the fuselage moves backwards, pressing the forward trim button (key ⑧) until the aircraft does not move backwards.



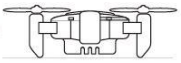


When the aircraft is hovering, the fuselage moves forward, and the back spin button (key ⑦) is pressed until the aircraft does not move forward.



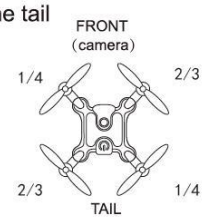
READY TO FLY

1. Unfold the quadcopter and place it on a horizontal position, then open up the power switch on the quadcopter. When the indicator lights flash, it means that the quadcopter goes into the flight standby mode.

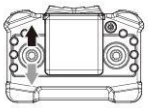


Note: The antenna of the transmitter must be aligned the tail of the quadcopter.

The blades of each part of an airplane are different. Each blade is marked "2/3" or "1/4".When installing the blade, please install it correctly according to the corresponding label as shown below. When the blades are not installed correctly, the aircraft will not be able to take off, flip or throw.



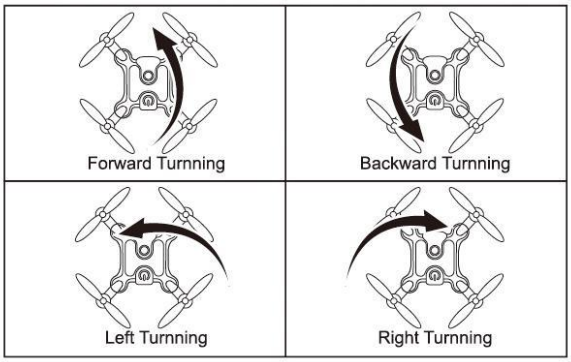
2. 2. Turn on the power switch (key ⑪). Push the left joystick (accelerator) to the highest point and then reset to the lowest point. When the light on the quadcopter becomes non-flashing, it indicates that the frequency is successful, push the left lever up and the aircraft starts in place.



3. Press and hold this button (key ①)for adjustment.
The quadcopter's light stops flash and always light up, it means that compass adjustment successfully.

3D Flips and Rolls Flight

When the basic functions can be skillful operated, you can play some adventurous tumblings. Flying the quadrocopter above the ground more than 3 meters, hovering,then push the tumbling button (key ⑪) on the controller.At this moment,when you can hear a beep from the controller, please push the direction panel. If you push forward, the quadrocopter will tumble forward; if you push backward, the quadrocopter will tumble backward. Every time you want to complete a tumble, you need to push the tumbling button. Continuous tumbling can be done if familiar.



Headless Mode instructions

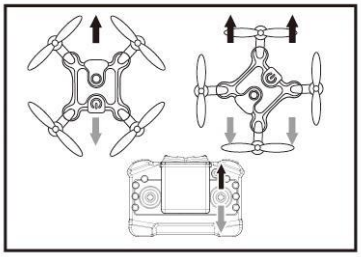


Figure1

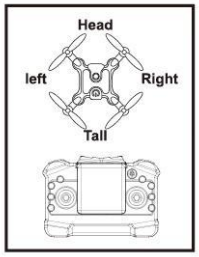


Figure2

Since the flight direction is consist with the operating direction of the controller, there is no need to worry about too far to recognize the flight direction of the quadrocopter. So that the operation is more convenience and easier (Figure 1).

Headless Mode Operation:

When staring up and adjusting frequency, the controller should directly facing the tail of the quadrocopter (Figure 2). In normal flight, you can hear a beep when you push the headless mode button(Refer to page 2 “Parts of the controller”), that means the quadrocopter is already on headless mode and the navigational light is flashing. When you push the headless button again, you can hear a beep again, that means the quadrocopter drop out of the headless mode. In headless mode, the quadrocopter should stay directly in front of the controller. When you pushing the direction lever forward, that means flying forward. When you pushing the direction lever backward, that means flying backward. Push to the left means left side flight; push to the right means right side flight.

ONE KEY AUTOMATIC RETURN FUNCTION

When quadrocopter flies too far, we can call the quadcipter back by one key automatic retum function.

Operational Approach

When the aircraft flies too far, the one key automatic return function can help to recall the quadrocopter(Refer to page 2 “Parts of the controller”). In flight, you can hear a beep when push the one key automatic return button, then the aircraft will enter one key return mode and fly back automatically. And you can remove the return mode by handling the lever randomly.

CAUTIONS:

One key automatic return function only can work when you use it at the place you turned it on.

PROBLEMS AND SOLUTIONS

PROBLEMS	CAUSES	SOLUTIONS
Controller without power supply	1.The power switch is on "off ".	1.Turn on the controller.
	2.Install the batteries improperly.	2.Check and make sure that the batteries have loaded according to the polarity instruction on the battery box correctly.
	3.Battery exhausted.	3.Replace with new batteries
Control failure	1.The power switch is on "off".	1.Turn on the controller.
	2.The wind is too strong.	2.Do not fly in strong gale weather. The performance and the control of the aircraft will be affected by the strong winds.
	3.The light flashing, the quadrocopter does not move.	3.The frequency adjustment is failed. Please turn on the quadrocopter again and put it on a flat area, then turn on the controller and adjusting frequency again.
Ascending failure	1. The rotational speed of main blades is too slow.	1. Push up the throttle stick.
	2. The battery of the quadrocopter is not fully charged.	2. Recharge the quarocopter's battery again.
Landing too soon	1. The throttle stick is pulled down too fast.	1. Pull down the throttle stick slowly to perform a smooth landing.
Out of control	1. The throttle stick is not pulled to the end but the frequency adjustment has already finished, so the quadrocopter would automatically ascend.	1. The throttle stick should be pulled to the end when adjusting the frequency.
	2.Exceed the effective control distance.	2. Controllable distance: 100 meters in diameter.
	3.Flying out of control.	3. Make sure the wind power of the flying environment is not greater than Beaufort force 5, and temperature is not lower than 20 degrees. The quadrocopter cannot fly in hostile environment.
Take off or other malfunction	1. The quadrocopter is not placed in a flat area when starting up. The quadrocopter cannot take off when the gyro checkout is failed.	1. Place the drone on the flat ground.

PRECAUTIONS:

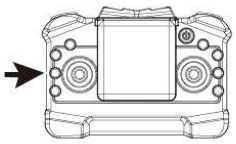
1. The remote controlled distance will be shorten when the battery power of the quarocopter/ transmitter is insufficient.
2. When the power of the aircraft is insufficient, the quadrocopter would have trouble to take off or unable to fly high.
3. Please repair the quadrocopter in time when it is damaged. Don't fly the quadrocopter when it is seriously damaged (rotor wing breakage), or it might lead to injury.
4. Please remove the batteries to avoid the damage to the product caused by batteries leakage if you do not use the transmitter for a long time.

5. Don't crash the quadrocopter from high altitude or crash it seriously, or might shorten the lifetime of the quadrocoptor.
6. Once the accessories was damaged, should be replaced by the accessories produced by our company, or the flight and safety performance would be effected.

INSTRUCTIONS FOR REMOTE CONTROL

STARTING THE QUADCOPTER

Press once to take off (button ②),
The propeller of the quadcopter will slowly rotate and then rise from the ground to the air.



BAROMETRIC PRESSURE HOVERING AND ALTITUDE-HOLD FUNCTION

Use the left control stick (throttle) to control the quadcopter's ascent/descent. When you let go of the left control stick (throttle), the quadcopter would remain hovering at the altitude it was at when the left control stick (throttle) was let go.

TURNING OFF THE QUADCOPTER

Pull the lever on the left (throttle) to the lowest point. After a few seconds, the propeller of the quadcopter will stop rotating.

ONE-KEY LANDING

When the quadcopter is flying high in the air, press the "One-key Landing" key once and the quadcopter would land slowly. At this time, you can move the quadcopter to a certain spot by using the direction-change or left control stick. The quadcopter's propellers would then stop rotating

EMERGENCY STOP

In case of emergency during the flight, press the emergency stop button to stop the aircraft so as not to cause harm.

User Guide

1 Install the drone's app

1. Search "HT-FPV" in APP store or in Google Play to get the app.
2. Scan the QR code to download the app.

IOS APP

GooglePlay

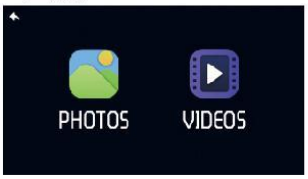
2 Add the device

3 First Page

The Icons in the operation page

4 Video

Click the "Play" in the first page to get to the play page



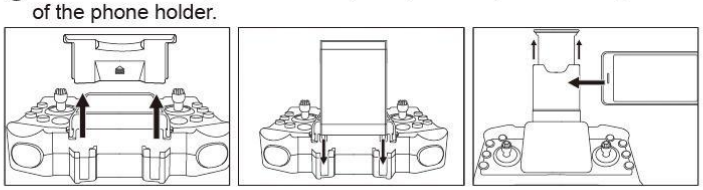
5 Function Settings

Click the "Settings" in the first page to enter the settings page. you can set up partial parameters.

6 Help

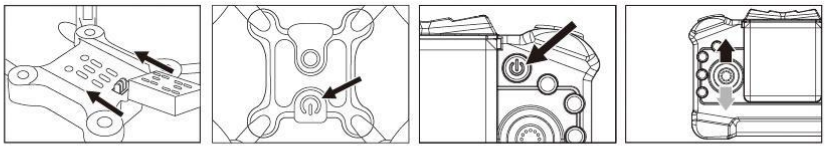
ASSEMBLY INSTRUCTIONS

① Pull out the plastic parts in alignment with the remote control slot.
② Aim the phone holder at the remote control slot.
③ Lift the assembled phone holder up and place the phone at the position of the phone holder.



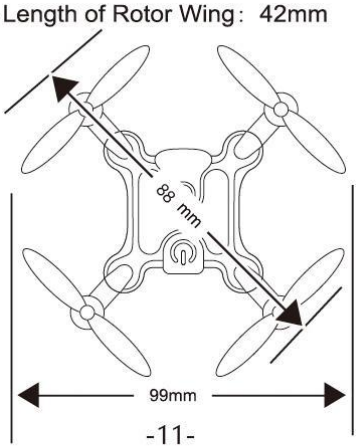
BOOT PROGRAM

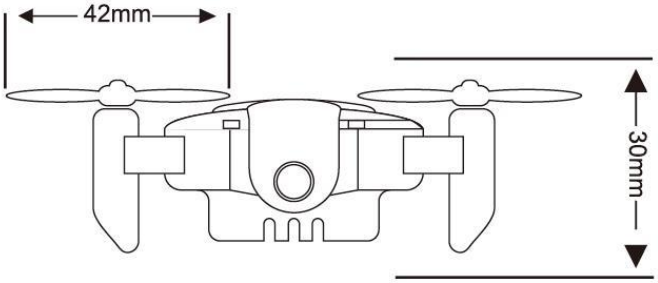
① Load the battery into the battery tank of the aircraft.
② Turn on the power switch at the top of the aircraft fuselage (the aircraft's four LED lights flicker).
③ Turn on the power switch of the remote control
④ Push the left joystick throttle to the highest point, then return to the lowest point (the aircraft's 4 LED lights are always on),Then complete the aircraft code.



TECHNICAL PARAMETERS

Body Length: 88 mm Width: 99mm
Height: 30mm The Length of Rotor Wing: 42mm





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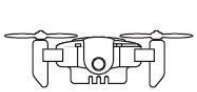
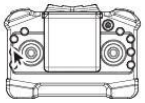
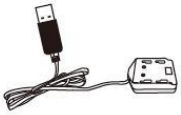

Quadcopter x1


Remote control x1

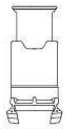

USB Charging Cable x1

Protective covers x4

USER MANUAL x1

Main blades x4

Screwdriver x1


Mobile phone stand X1

Warnings: In order to ensure the requirements of aviation radio (station) on the electromagnetic environment, it is prohibited to play any kinds of remote controlled products with 5000 meters area by taking airport runway center as the dot radius, it shall be required to stop the use of model toys in the regions during the period of radio control command issued by relevant state departments!