

# Quadcopter Instruction Manual (Guard of space)



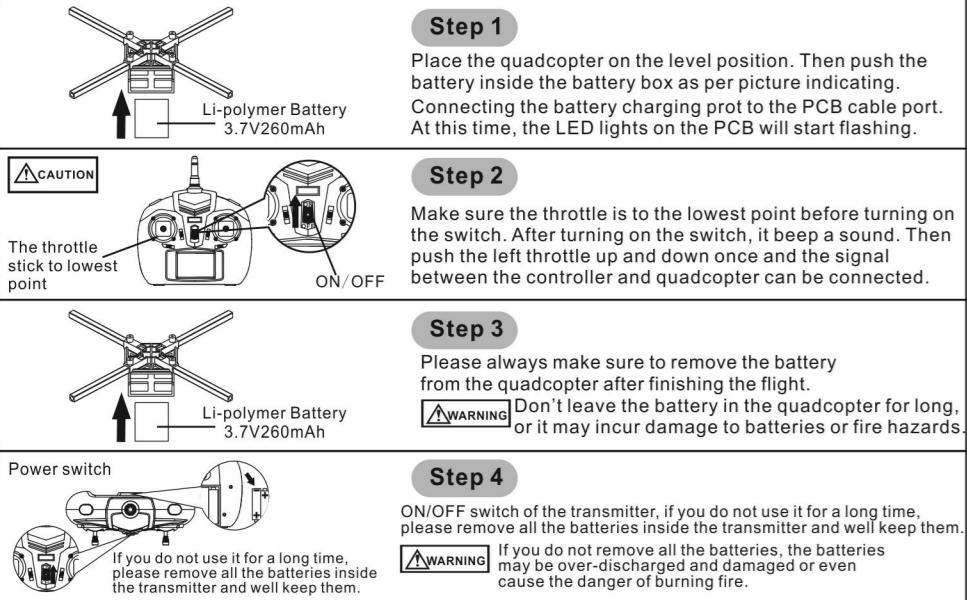
#220702 S-2UFO

Gravit Micro 2.0 2.4GHz Quadrocopter RTF

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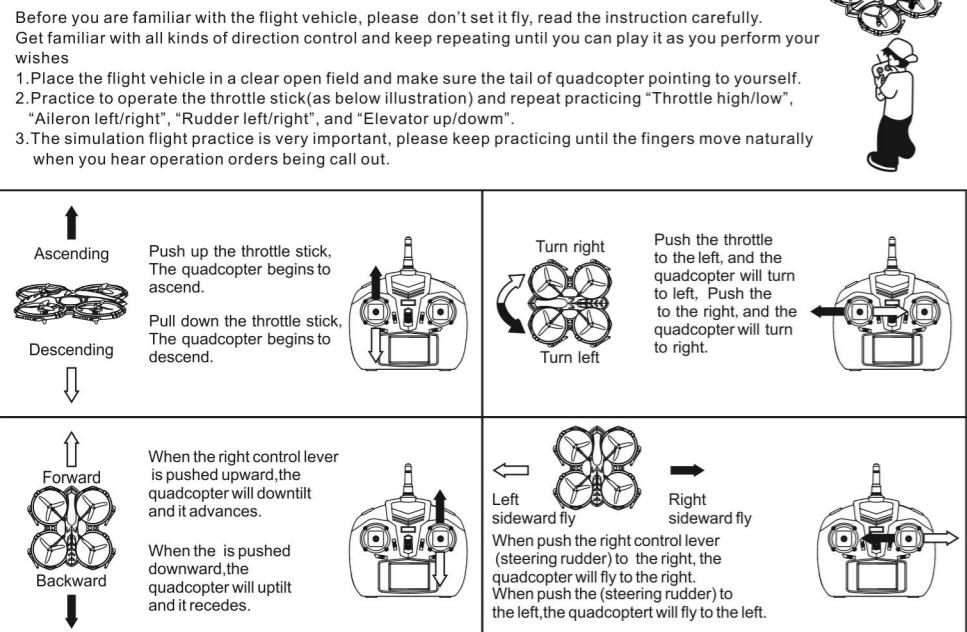
Please read the instruction manual comprehensively before using.  
(Please read it carefully, especially the NOTICE.)

## 11.CONNECTING THE SIGNAL



## 12.FLIGHT ADJUSTMENT AND SETTING

## PLEASE PRACTICE SIMULATION FLIGHT BEFORE ACTUAL FLYING



## 1. THE MAIN TECHNICAL PARAMETERS OF REMOTE CONTROL FLYING SAUCER

Length of fuselage:220mm	Weight about:44g	Li-polymer Battery:3.7V260mAh
Overall height: 51mm	Main engine: Ø 7*4PCS	Charging time around 40 minutes
Diameter of the main rotator: 64mm		The helicopter can have about 5-7 minutes of flight time

## 2.CONTENT IN THE BOX

NAME	QTY	NAME	QTY	NAME	QTY
Drone (Quadcopter)	1PC	One set of main rotor	4PCS	Charging compartment	1PC
Remote controller	1PC	Instructions	1PC	USB charging wire	1PC

## 3.SAFELY PRECAUTIONS

- Please read through the manual's before using.
- Please store small parts in a place well out of the reach of small children.
- Never leave the quadcopter unattended during battery charging.
- Never throw any batteries in a fire.
- Never fly the quadcopter near other people.
- Keep all body parts away from the copter while the rotor blades are spinning.

## 4.FLYING PRECAUTIONS

- Keep small parts out of the reach of children, to avoid choking hazard.
- The quadcopter is powerful, when taking off, move the throttle stick forward gradually, to avoid it's rising too fast.
- After flight, disconnect the Li-po battery from quadcopter first, then turn off the controller.
- Do not put the battery in high temperature to near heat source.
- Note, to avoid injury or damage, the quadcopter should not be flown nearer than 2 meters/7 feet from people or other obstacles.
- Children should fly the quadcopter under adult supervision only. Always keep the quadcopter in clear sight while flying.
- Always turn off the power of the controller and quadcopter when not in use.

## 5.PREPARING TO FLY

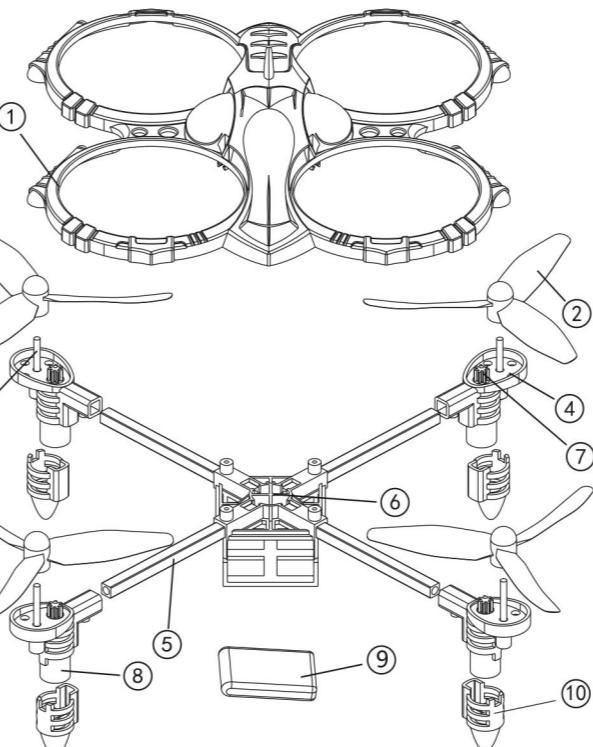
- Make sure that flight area is clear of people or other obstacles
- Connect the battery to the quadcopter (please make sure you plug in with the right polarity) the indicator light on the circuit board flashes rapidly at this time, place the quadcopter at a level position. When the flashing LED on the circuit board turn to stable RED light, it is ready to take off.
- Turn on the controller, a beep will sound. Then push the left throttle up and down for once to sense the signal.
- Push the throttle lever slowly forward, the quadcopter will take off.

## 6.MAINTENANCE

- Clean the quadcopter with clean, dry soft cloth only.
- To avoid irreparable damage, keep the quadcopter dry and away from water. Do not fly in rainy conditions.
- Check the quadcopter and accessories for damage. If damage is found, do not use the quadcopter until it is repaired.

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## 7.PARTS LIST

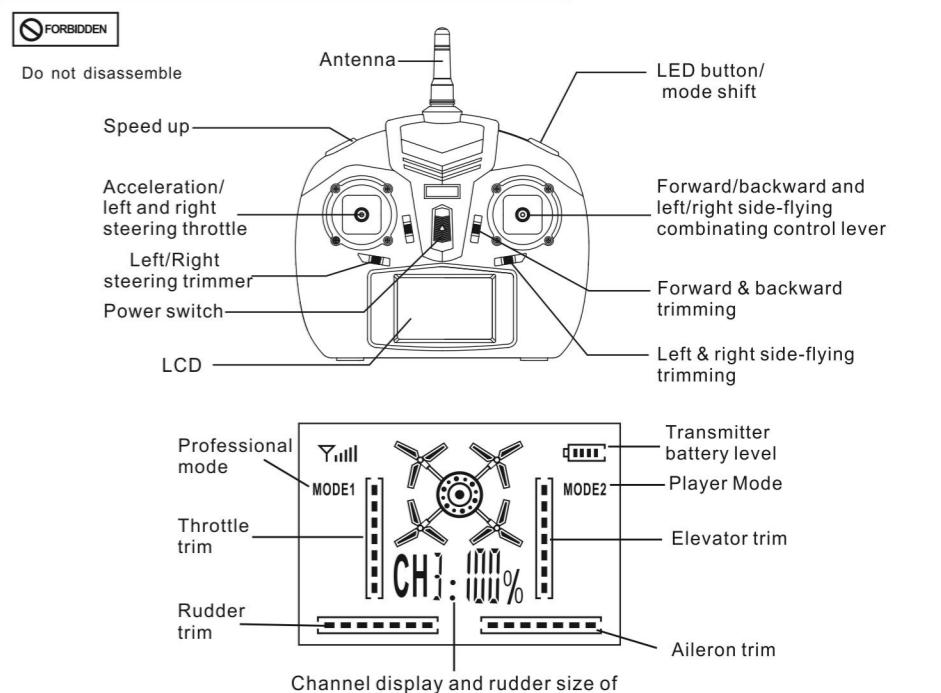


NO	Name	Quantity
1	Canopy	1
2	Blad	4
3	Rotation axis	4
4	Transmission gear	4
5	Carbon fiber tube	4
6	Frame	1
7	Motor blok	4
8	Motor	4
9	Battery	1
10	Motor cover	4

The contents of the packaging of materials, specifications or parts of this manual for information. The Company will not be liable for printing material transaction is responsible for and can not take the initiative to inform consumers, any updates or transactions, mainly in the Company's website.

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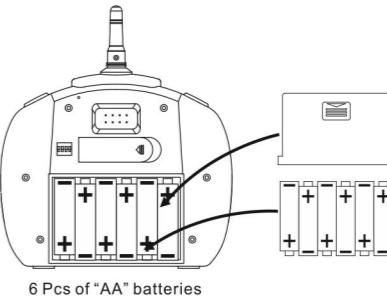
## 8.CONTROLLER FUNCTION ILLUSTRATION



There are 4 levels speed (40%, 60%, 80%, 100%) for different level's players choice. 40% speed- slowest speed with slow movement in all direction, suitable for beginners to practice and get familiar with the quadcopter. 60% speed-fast speed for faster movement than 40% speed. After practicing, please choose to play with faster speed for more exciting control feeling. 80% speed- for faster movement, enjoying playing outdoor withstand wind to move as you wish. 100% speed- for fastest movement even if you move the right controlling stick bit, the quadcopter can move pretty fast sideward too.

Note: please practice more before you want to play skillfully with 100% speed sideward control play.

## 9.TRANSMITTER BATTERY INSTALLATION



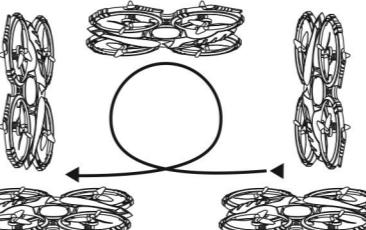
## 10.CHARGING INSTRUCTION OF THE POWER BATTERY

- Load 1 or 2 PCS of batteries into the charging compartment, and then insert the USB charging wire into the charging port of the power battery. Cable to any power supply such as laptop, computers etc.
- When charging, the red indicator will keep eternal bright. When finish charging, the red indicator will be OFF.
- Warning: Only the original charger included in this product can be used for charging the battery.

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## 11.Stable, flexible, flight routes,Drift, 3D flip roll easily

- Make sure your quadcopter does not fly too high, too low or too near to any obstacles.
- Perform a speed test on the left top of the controller to 100% speed, the you can get ready to do the flip and roll function.
- Move the right control stick towards any direction and the quadcopter performs a 360° looping (flip (roll) towards the controller).
- If you want to go back to normal flying, you can either choose to change the speed to 40% again for normal flying. Or practice to get familiar with the response movement range of every slightly move of your right controlling stick while you play.



## 13.TROUBLE SHOOTING DURING FLIGHT

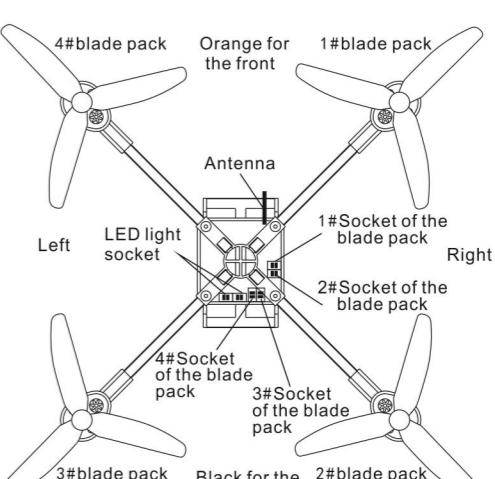
Situation	Cause	Way to deal
1 Receiver status LED blinks continuously for more than 4 seconds after flight vehicle battery inserted.	1. Unable to bind to transmitter. 2. No response to control input.	Repeat the power up initializing process.
2 No response after battery is connected to flight vehicle.	1. Turn on transmitter and receiver. 2. Check transmitter and receiver voltage. 3. Poor contact on battery terminals.	1. Turn on transmitter and ensure flight vehicle battery is inserted properly. 2. Use fully charged batteries. 3. Poor contact on battery terminals.
3 Motor does not respond to throttle stick, receiver LED flashes.	Flight vehicle battery depleted.	Fully charge the battery, or replace with a fully charged battery.
4 Main motor continue to spin after landing	Throttle trim accidentally increased during flight.	Confirm throttle trim is in center or slightly below.
5 Main motor spins but unable to takeoff.	1. Deformed main blades. 2. Flight vehicle battery depleted	1. Replace main blades. 2. Charge or replace with fully charged battery.
6 Strong vibration of flight vehicle	1. Deformed main blades	1. Replace main blades
7 Tail still off trim after tab adjustment, or inconsistent speed during left/right pirouette.	1. Damaged tail rotors 2. Damaged tail drive motor	1. Replace main blades 2. Replace the main motor
8 Flight vehicle still wonders forward after trim adjustment during hover.	1. Gyroscope midpoint not	1. The boot will fine-tune the normalized neutral point, reboot
9 Flight vehicle still wonders left/right after trim adjustment during hover.	1. Motor off 2. Cone loose	1. Replace the motor 2. Installed tight cone

## 14.Reset function (How to reset the Quadcopter to its original stable status)

Step1		1. Turn on the quadcopter and the transmitter, push the throttle up and down for once to begin connecting the signal. 2. Push the Speed Button until it is Level 4 100% Speed.
Step2		Then push both left and right sticks to down left corners (7 o'clock)
Step3		1. The red LED on the PCB board will keep flashing. Now release both sticks back to the midline. The LED stop flashing. 2. Now the Quadcopter recovers. It is ready for the next flying at the most stable and balanced status.

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## 15.ADDITIONAL INSTRUCTION ON THE RECEIVING BOARD



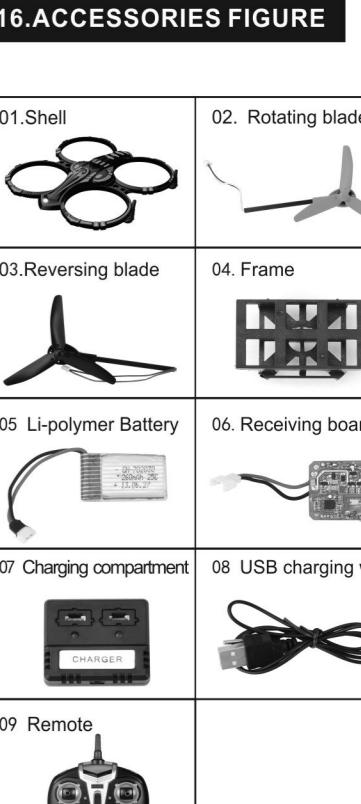
As picture shown, the antenna direction of the circuit board is the FRONT direction. When assembling each blade, please make sure each blade can be inserted into the corresponding socket as per the corresponding number shown. Only when you can insert them correctly can you conduct normal flying smoothly.

## Cautions

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

Caution: Any changes or modifications to this device not explicitly approved by manufacturer could void your authority to operate this equipment. This device complies with part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) This device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.



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