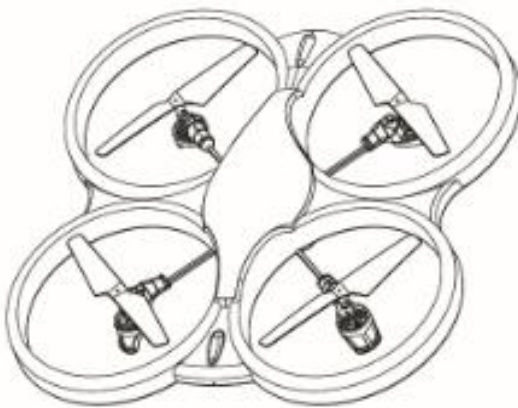


User manual

GD-230H



USER MANUAL

- 1** INCLUDED ACCESSORIES
- 2** QUADCOPTER PARTS
- 3** Mobile wifi Control Operating Instructions
- 4** The mobile control page as below:
- 5** CHARGING QUADCOPTER BATTERIES
- 6** BATTERY AND CHARGER SPECS
- 7** GETTING READY TO TAKE OFF
- 8** BASIC MANUEVERS AND PRACTICE EXERCISES
- 9** BATTERY WARNINGS
- 10** TROUBLESHOOTING

● 32 bit MCU ● 6 Axis GYRO ● 24GHZ digital Controller



WARNING

IMPORTANT

1. This product is only suitable for users over the age of 14. There will be some difficulty piloting this quadcopter in the beginning. Adult/Guardian supervision is recommended.
2. The Quadcopter is designed with delicate electronic & mechanical parts. If you are unfamiliar with operating the quadcopter, do not fly it near large crowds. Improper operation may cause serious bodily injury or property damage.
3. For service or repair please contact the appropriate distributor.

1. INCLUDED ACCESSORIES



A918 battery
3.7V500mAh

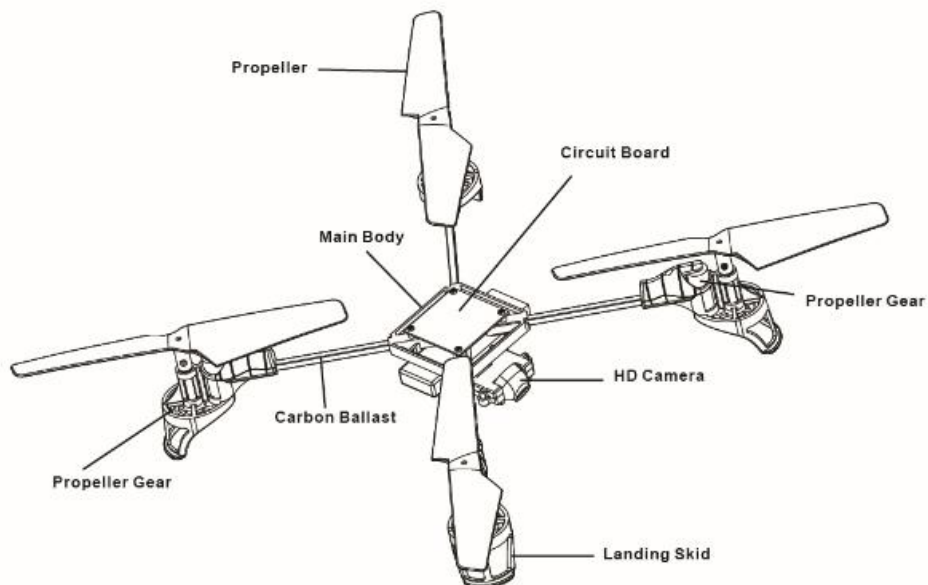


A918 -charger



Propeller X4

2. QUADCOPTER PARTS



3.MobilewifiControlOperatingInstructions

1.Download the APP according your mobile model as follow

•Android system: <https://play.google.com/store/apps/details?id=com.cfans.ufo.gdr>

Please go to Google play to download and install the APP, key word is "GD_WIFI_RC_1.0.3"



•IOS system: Please go to APP store to download and install the APP,key word is "GD_WIFI_RC2"

2.Turn on the airplane, the indicator of drone is flashing, which means that the drone is waiting signal connection from mobile phone.

3.Enter into the setting of mobile phone, turn on the wifi and search the "GDXXX" and connect it. After successful connection (The red light of drone is lamp normally), exit setting.

4.Turn on the "GD_WIFI_RC2" APP in your mobile phone, touch and enter the control interface.

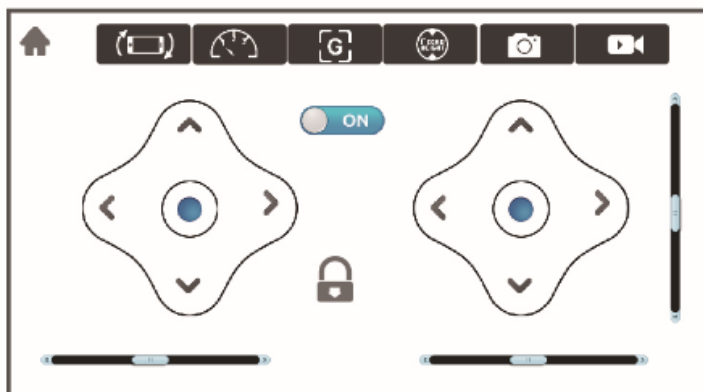
5.Touch "CONTROL", The phone screen is in the real time images and movies state

6. Push the engine in the left side up and down,to make the drone match code with phone, then you can start to control the drone.

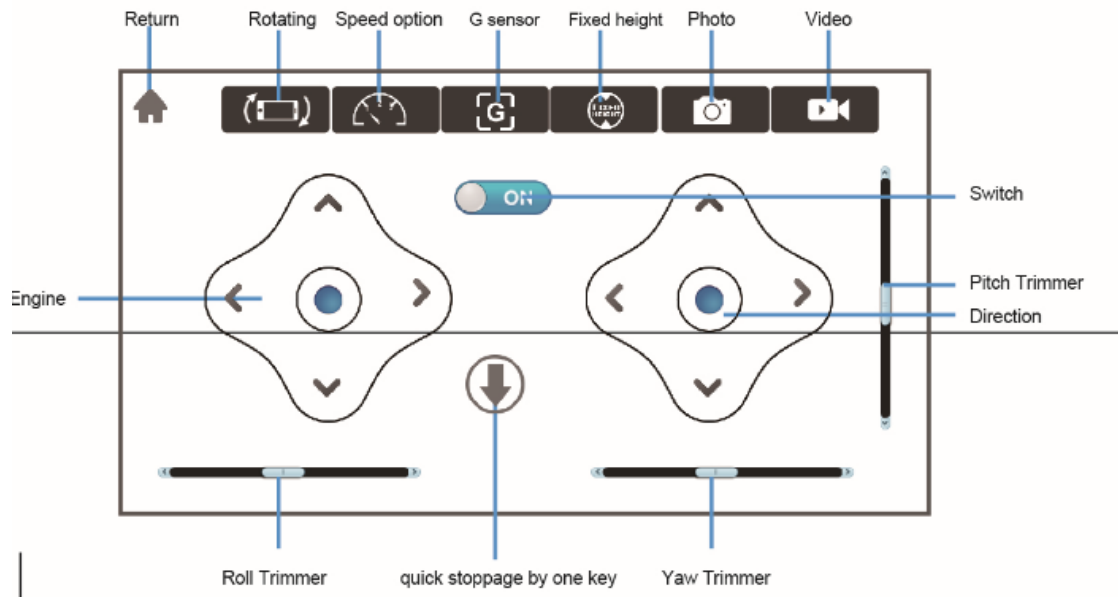
7. Touch "FIXED HEIGHT" enter the fixed height mode (It will depend on what you order if is fixed height version)



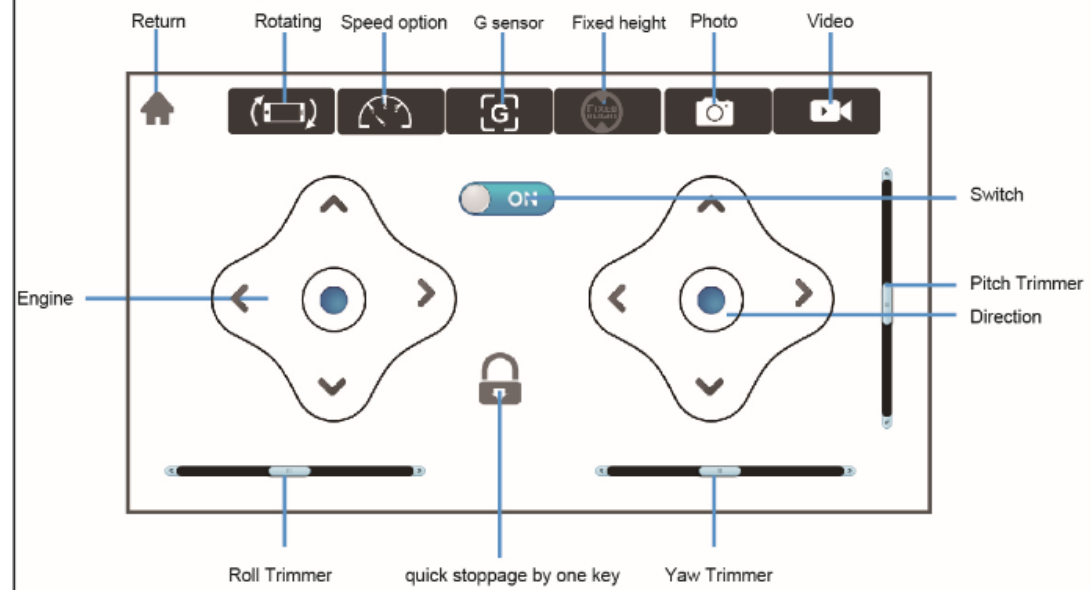
4. The mobile control page as below:



control instruction

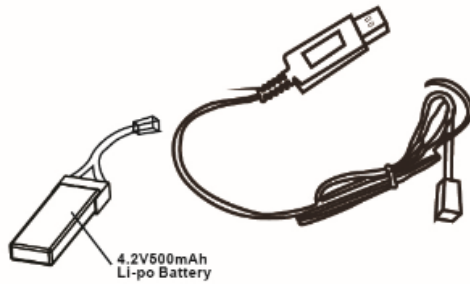


Gray represents the non-fixed high mode



5. CHARGING QUADCOPTER BATTERIES

Use the wall charger to charge the quadcopter battery.



Please use the included charger to charge the battery. Connect the battery plug into the charger.



LED Indicator LED	
Idle and Charge Completion	Charging

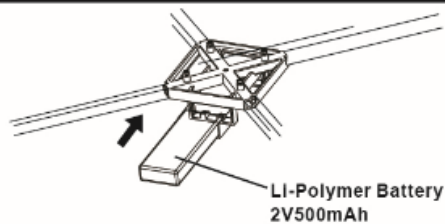
Charger Specifications		
Input	Charging Current	Full Voltage
5V	420~450mA	4.2±0.03V

6. BATTERY AND CHARGER SPECIFICATION

Battery usage and charge duration reference

Battery type	Battery Specification	Usage Duration	Charge Time
Lithium Polymer Battery	3.7V 240mAh	Quadcopter flight time Approx. 8-10 Minutes	Approx. 35 Minutes (Charging current Approx. 0.5A)
Carbon-Zinc (Non Rechargeable)	1.5V(GP 15G R6P)	Remote Control Operation Time 18 Hours Used for Lithium Polymer Charging	Non Rechargeable

7. GETTING READY TO TAKE OFF



Step 1

Insert the battery into the quadcopter, and plug the battery wire to the quadcopter. When the two indicators lights are flashing, put the quadcopter flat on the ground.

Important: Make sure the quadcopter is placed on a flat surface. After connecting the interfaces, the Gyroscopes need to calibrate before take off.

Step 2




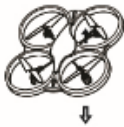




Switch on the power. The remotes's indicator light will flash. Push the throttle to the top, and then back to the lowest position. The indicator will light up once the remote is in control mode.

8. BASIC MANUEVERS AND PRACTICE EXERCISES

PLEASE PRACTICE AND LEARN CONTROLS BEFORE ACTUAL FLYING

Please do not pilot the quadcopter until you are familiar with the controls. Read the instructions carefully, learn directional controls, and simulate flight practice until you are comfortable with basic maneuvers.

1. Place the quadcopter in a clear open space, with the tail of the quadcopter pointing towards you.
2. Practice operating the control sticks (as shown on next page). "Throttle high/low", "Left/right", "Forward/backward", and "Side Step left/right".
3. The simulation flight practice is very important. Please keep practicing until being capable of producing natural movement with the quadcopter.

Direction 	 Move left Move right	Throttle 	 Ascend Descend
Elevation 	 Fly forwards Fly backwards	Rudder 	 Turn left Turn right

PRE-FLIGHT CHECKLIST

CAUTION

- Check if the screws and propellers are firmly tightened
- Check if the remote control and quadcopter are fully charged.

CAUTION

- Make sure that no people or objects are in the vicinity.
- You must first practice hovering for flying safety, this is a basic flight action (keeping the quadcopter in mid air in a fixed position)
- Please stand approximately 6ft diagonally behind the quadcopter.

1.) THROTTLE CONTROL EXERCISE



When the quadcopter begins to lift off the ground, slowly reduce the throttle to bring it back down. Keep practicing this action until you can control the throttle smoothly.

2.) DIRECTION CONTROL EXERCISE



1. Slowly raise the throttle stick
2. Fly the quadcopter as shown on the left: backward/forward/, left/right , then slowly push the throttle to the opposite side to return back to the original position.



If the quadcopter flies too high up, please lower the throttle stick and land the quadcopter. Then move 6ft behind the quadcopter to continue practicing.

3.) RUDDER CONTROL EXERCISE

1. Slowly raise the throttle stick
2. Move the nose of the quadcopter right or left. Then slowly move the rudder stick in the opposite direction to fly back to the original position

4.) PRECISION CONTROL PRACTICE

Once you are familiar with all actions from exercises 1-3, practice within a circle to improve your accuracy. Reduce the size of the circle as you become more familiar with the controls.



DIRECTIONAL CHANGE AND HOVERING PRACTICE

Once you are familiar with exercises 1-4, stand by the quadcopter and continue practicing. Then repeat the exercises by standing in front of the helicopter.

CORRECTING FLIGHT USING PRE-PROGRAMMED MOVEMENTS

Slowly raise the throttle stick as the quadcopter lifts off the ground. You can use the pre-programmed movements to correct the actions.

1. Correcting using Rotational movement

Just before the quadcopter lifts off, the nose may lean left or right.

When the quadcopter leans right, adjust the trim to left side.

When the quadcopter leans left, adjust the trim to right side.

2. Correcting using Forwards/Backwards Tilt movement

Just before the quadcopter lifts off, the nose may lean forwards or backwards.

When the quadcopter leans forwards adjust the tilt back.

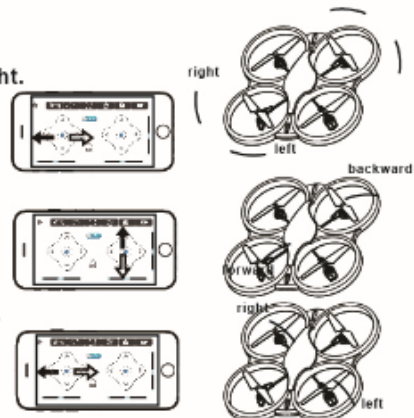
When the quadcopter leans backwards, adjust the tilt forward.

3. Correcting using Side Step Movement

Just before the quadcopter lifts off, if the unit shifts left or right.

When the quadcopter shifts right, side step to left side.

When the quadcopter shifts left, side step to right side.



9. BATTERY WARNINGS

RECHARGEABLE BATTERY:

This Quadcopter uses a Li-Poly rechargeable battery. If battery no longer stays charged, dispose of battery properly according to local disposal requirements.

CONTROLLER BATTERIES:

- > Remote control requires 2 "AAA" batteries (not included). Please read the Important battery safety warning below.
- > Do not mix alkaline, standard (carbon-zinc) and rechargeable batteries (Nickel Metal Hydride).
- > Do not mix old and new batteries.
- > Non-rechargeable batteries are not to be recharged.
- > Rechargeable batteries are to be removed from the item before being charged (if removable).
- > Rechargeable batteries are only to be charged under adult supervision.
- > Exhausted batteries should be removed immediately and must be recycled or disposed of properly according to state or local government ordinances and regulations.
- > The supply terminals are not to be short-circuited.
- > Only batteries of the same or equivalent type as recommended are to be used.
- > Batteries are to be inserted with the correct polarity (see inside booklet for diagram).
- > Do not dispose batteries in a fire-batteries may leak or explode.

10. TROUBLE SHOOTING

	Problem	Cause	Solution
1	After connecting the quadcopter to the battery, the LED indicators keep flashing, but there is no response when operating.	Unable to pair to remote control	Pair the controller and quadcopter (refer to P.7)
2	No response after battery is connected to quadcopter.	<ol style="list-style-type: none"> 1. Check if the power of remote control or receiver is connected. 2. Check the remote control and receiver voltage. 3. Poor contact on battery terminals. 	<ol style="list-style-type: none"> 1. Turn on control and make sure helicopter battery is inserted properly. 2. Use fully charged batteries 3. Re-seat the battery and make sure there is good contact between batteries.
3	Motor does not respond to throttle stick, receiver LED flashes.	Quadcopter battery depleted	Fully charge the battery, or replace with a fully charged battery
4	Main rotor continue to spin after landing	Throttle stick not in the lowest position	Make sure the Throttle stick is on the lowest position.
5	Main rotor spins but unable to take off	<ol style="list-style-type: none"> 1. Deformed propellers 2. Quadcopter battery depleted 	<ol style="list-style-type: none"> 1. Replace main propellers. 2. Charge or replace with a fully charged battery.
6	Strong vibration of quadcopter	Deformed propellers	Replace main propellers

7	The quadcopter still keeps turning after rudder trim, or inconsistent speed during side step.	1. Damaged rotors 2. Damaged drive motor	Replace the main wing Replace the main motor
8	The quadcopter shifts forward or backwards	Gyroscope is not centered or calibrated.	Restart the quadcopter and control to recalibrate the Gyroscopes.
9	Can not fly the helicopter after crash	1.Motor fell out 2.Rotors loosend	1. Install the motor again 2. Tighten the Rotors

FCC Caution

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.

Any Changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

Note: 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.

This equipment complies with FCC radiation exposure limits set forth for an uncontrolled environment. This equipment should be installed and operated with minimum distance 20cm between the radiator & your body.