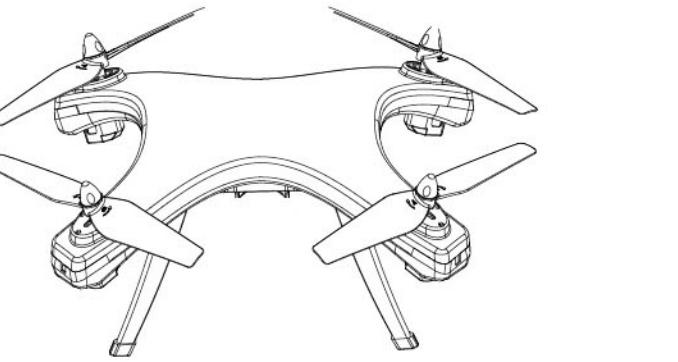


For Ages 14+

# GRAVITY Q10 DRONE

## INSTRUCTION MANUAL

2.4GHZ REMOTE CONTROL WITH SIX AXIS GYRO



This product is recommended for ages 14+, but should always be used with adult supervision.

Thank you for purchasing our product. Please read this entire manual before you try to fly your drone. You must understand how it works and you must use it in a safe and legal manner. Failure to read and understand this manual could result in very serious injuries to you and others. It could also result in damage to the drone that may or may not be repairable.

This drone is not intended to be used by a novice flyer. It is recommended that you have first mastered a smaller and less powerful helicopter or quadcopter prior to attempting to fly this drone.

THIS PRODUCT IS NOT SUITABLE FOR USE BY YOUNG CHILDREN. IT IS RECOMMENDED FOR USE BY PEOPLE AT LEAST 14 YEARS OF AGE WITH PRIOR KNOWLEDGE AND EXPERIENCE IN FLYING REMOTE CONTROL PRODUCTS.

If you have any questions about the information in this manual, please contact us via email at [rc@gvsamerica.com](mailto:rc@gvsamerica.com).

This product is warranted against defects in workmanship and materials for 6 months from the date of purchase. A receipt is required as proof of purchase.

Damage to this product caused by user error such as crashes or operating in an unsafe manner or in an unsafe environment is not covered by warranty.

Replacement parts are available and can be purchased at [www.gvsamerica.com/rc](http://www.gvsamerica.com/rc).

All warranty claims should be directed to [rc@gvsamerica.com](mailto:rc@gvsamerica.com).

PRODUCT NEEDS TO BE REGISTERED WITH THE FAA.

### FLY SAFE & RESPONSIBLY

Use common sense and care in the operation of your drone. The guidelines below will help to ensure the safe and legal operation of your aircraft, but are by no means a complete list. It is your responsibility to keep up to date with all local, state and national regulations with regards to rules for the operation of an unmanned aircraft.

Please refer to the FAA website for flying/safety guidelines as well as the registration process. Site address is: [www.faa.gov/uas](http://www.faa.gov/uas)

A number of states and municipalities have passed or are considering limitations to the operations of unmanned aircraft. Make sure to check on the regulations in your area.

#### FLY NO HIGHER THAN 400' AND AWAY FROM OBSTACLES.

KEEP YOUR DRONE WITHIN EYESIGHT AT ALL TIMES.

DO NOT FLY OVER PEOPLE, ANIMALS OR VEHICLES.

DO NOT FLY NEAR AIRPORTS OR SENSITIVE INFRASTRUCTURE OR PROPERTY INCLUDING BUT NOT LIMITED TO GOVERNMENT FACILITIES, CORRECTIONAL INSTITUTIONS, POWER STATIONS, SCHOOLS, CHURCHES, AND STADIUMS.

DO NOT FLY WITHIN RESTRICTED AND CONTROLLED AIRSPACE, INCLUDING NEAR OR OVER MILITARY BASES, PRISONS, AND FOREST FIRES.

DO NOT FLY ANYWHERE YOU MAY INTERFERE WITH FIRST RESPONDERS.

DO NOT FLY IN POPULATED AREAS OR NEAR LARGE GROUPS OF PEOPLE, INCLUDING SPORTING EVENTS, CONCERTS, FESTIVALS, AND FIREWORK SHOWS.

CHECK AND FOLLOW ALL LOCAL LAWS AND ORDINANCES BEFORE FLYING OVER PRIVATE PROPERTY.

REMAIN CLEAR OF AND DO NOT INTERFERE WITH THE OPERATION OF ANY MANNED AIRCRAFT.

DO NOT FLY UNDER THE INFLUENCE OF DRUGS OR ALCOHOL.

DO NOT CONDUCT SURVEILLANCE OR PHOTOGRAPH PERSONS IN AREAS WHERE THERE IS A REASONABLE EXPECTATION OF PRIVACY WITHOUT THE PERSON'S CONSENT.

DO NOT FLY IN ADVERSE WEATHER CONDITIONS SUCH AS HIGH WINDS, RAIN OR LIMITED VISIBILITY.

Again, use common sense and care when flying your drone. Follow these guidelines for the safety of everyone. As drones become more popular, the laws regarding their use might change. Stay informed by checking with the FAA and local agencies regularly.

### R/C DRONE MAIN TECHNICAL INDEX

#### 2.4GHz Drone with Camera main technical index

Drone Size: L:485MM × W:455MM× H:160MM

Fuselage Weight: 726G

Transmission Distance: about 100-150Meters

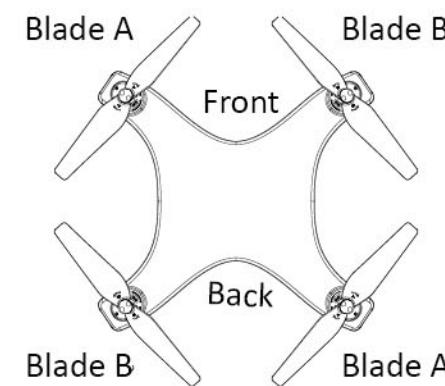
Charging Time: about 240mins

Flying Time: about 9-10mins

#### Using Battery/Charger

1. Drone's battery(built-in): 7.4V/2500Mah Lithium-ion

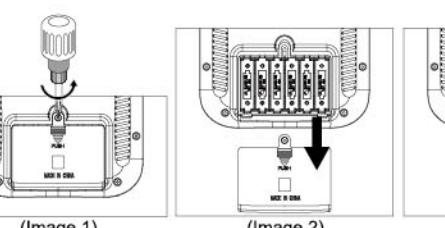
2. Remote controller battery: 6x1.5V "AA" (Not included)



#### When Changing The Blades:

1. Always replace the corresponding tail blades as indicated in the diagram. If the blades are replaced incorrectly, you will not be able to control the drone.
2. Tail Blade A turns in a counter-clockwise direction, and Tail Blade B turns in a clockwise direction.

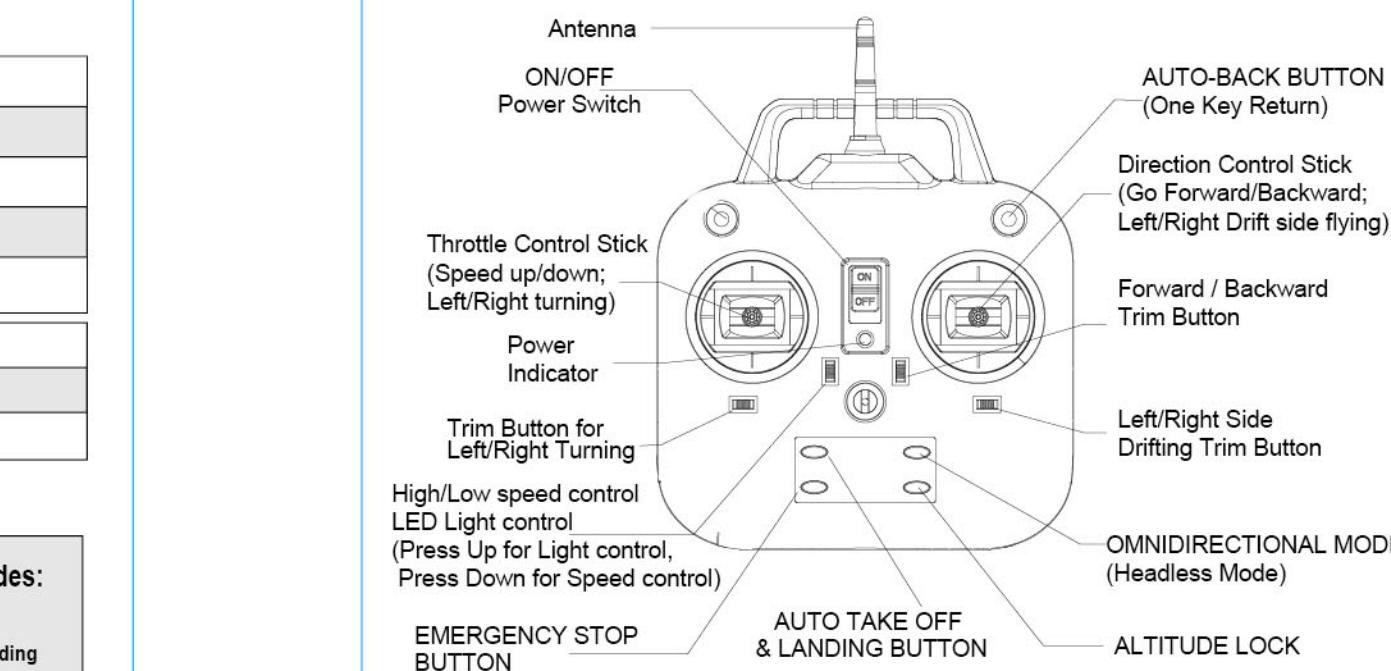
### REMOTE CONTROL INSTALLATION INSTRUCTION



1. Firstly, using the screwdriver, according to the direction of the arrow, screw out the screws. (Image 1).
2. The battery cover is opened in the direction of the arrow (Image 2).
3. According to the battery box electrode label, put 6PCS 1.5VAA" (LR6) batteries (Battery Not Included).
4. Install the battery cover (Image 3), then screw down the screws.

Tips: When the power indicator of remote control blinks, please replace battery as per above steps.

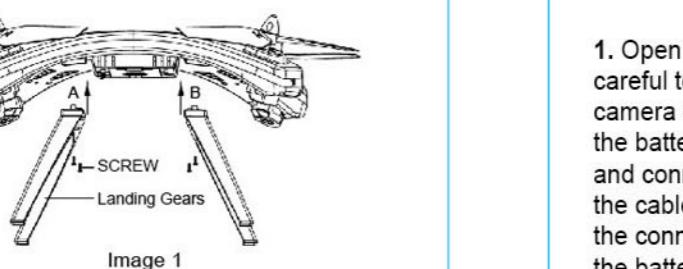
### TRANSMITTER INSTRUCTION



## INSTALLATION STEPS INSTRUCTION

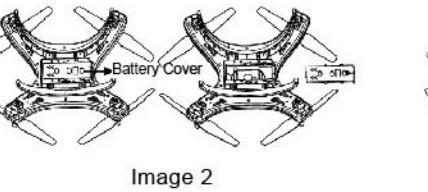
### THE LANDING GEAR INSTALLATION INSTRUCTIONS

Install the landing gears to the support frame A & B. Screw them tightly, as shown in Image 1.



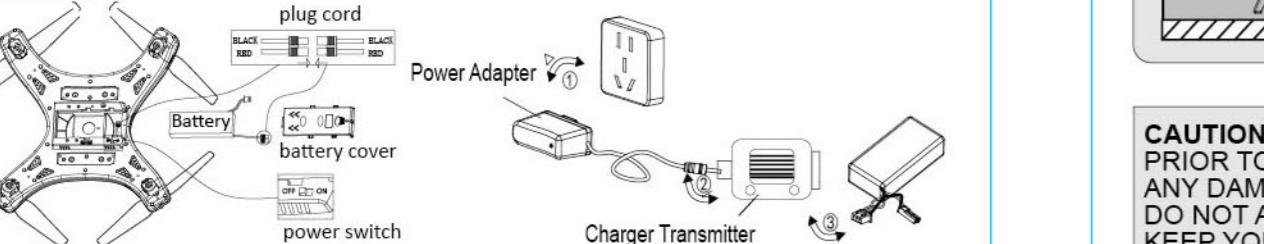
### DRONE BATTERY INSTALLATION

1. Pull the battery cover (Image 2) to the direction of the arrow to open the battery box.
2. Turn the switch of the drone to OFF.
3. Connected the battery plug to the drone plug carefully (Image 3). Put the battery cover back to the battery box (Image 4).



### BATTERY CHARGING INSTRUCTIONS

1. Make sure the ON/OFF switch on the drone is in the OFF position.
2. Open the battery cover being careful not to damage the camera or camera cable.
3. Carefully remove the battery.
4. Connect the transmitter to the lithium-ion battery's three-pin plug and then plug the AC charger into the transmitter. Plug the charger into a power socket.
5. When the battery is charging, the RED light and the GREEN light on the transmitter will be ON. Once the charging is complete, the RED light on the transmitter will be OFF.
6. Disconnect the AC charger from the power socket and then carefully disconnect the battery plug from the transmitter.

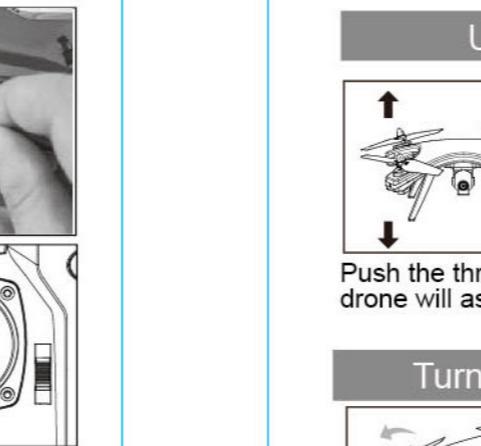


### CAUTIONS WHEN CHARGING

1. When charging, please keep the product in a dry, ventilated area, far away from any heat sources or flammable items.
2. When charging, please remove the battery from the Drone.
3. Charging the product immediately following flying may result in a fire hazard. Please give the product's electronics time to cool down after flying. Make sure the Lithium-ion battery has cooled completely before charging.
4. Please use the original AC charge provided. Replace batteries or charger when either is not functioning properly after an extended period of time.
5. When not in use for an extended period of time, a battery will lose its charge automatically. Charging or discharging too often may reduce the lifespan of the battery.

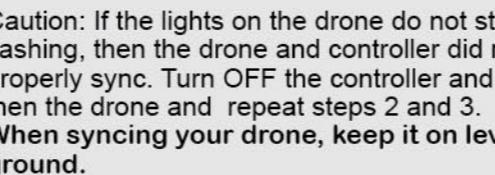
## GETTING READY TO FLY

1. Open the battery cover being careful to not damage the camera or camera cable. Slide the battery into the compartment and connect the battery cable to the cable inside the drone. Fit the connected cable fully inside the battery compartment and slide the battery cover closed.



2. Slide the switch on the drone to the ON position. Place the drone on level ground with the RED lights facing forward and the user about 5 feet directly behind it.

3. Turn on the transmitter by pushing the ON/OFF switch up. Push the throttle stick to the highest position, and then pull it back to the lowest position for frequency pairing. There will be one clear beep sound from the transmitter, the RED and GREEN lights will stop flashing and stay on. This shows that the drone has entered into the pre-fly state.



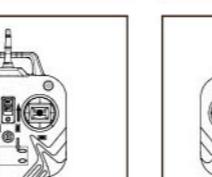
Caution: If the lights on the drone do not stop flashing, then the drone and controller did not properly sync. Turn OFF the controller and then the drone and repeat steps 2 and 3. When syncing your drone, keep it on level ground.

### CAUTIONS:

PRIOR TO FLYING, ALWAYS CHECK YOUR DRONE AND TRANSMITTER FOR ANY DAMAGE. DO NOT ATTEMPT TO FLY WITH A DAMAGED DRONE OR TRANSMITTER. KEEP YOUR DRONE IN VIEW AT ALL TIMES WHEN FLYING. STAY INFORMED ON THE RULES FOR FLYING REMOTE CONTROLLED AIRCRAFT IN YOUR LOCAL AREA. START OUT SLOWLY AND PRACTICE YOUR SKILLS UNTIL YOU BECOME EXPERIENCED. CHOOSE A WIDE OPEN AREA FOR FLYING STAYING AWAY FROM PEOPLE, ANIMALS AND OBSTACLES. ALWAYS EXERCISE GOOD JUDGEMENT AS YOU ARE RESPONSIBLE FOR THE FLIGHT AND CONTROL OF YOUR DRONE. AFTER SYNC THE DRONE AND TRANSFER, IF THE RED LIGHT CONTINUES TO FLASH, IT INDICATES THAT THE BATTERY DOES NOT HAVE ENOUGH POWER. PLEASE REPLACE WITH NEW BATTERIES.

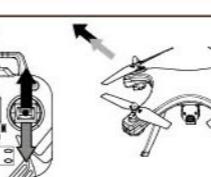
## OPERATING DIRECTION

### Up and Down



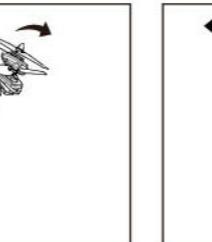
Push the throttle stick up or down, the drone will ascend or descend.

### Forward and Backward



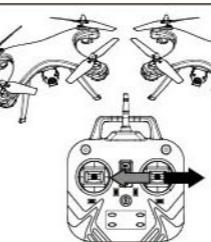
Push the direction stick up or down, the drone will move forward or backward.

### Turn Left and Right



Push the throttle stick to the left or right, the drone will turn to left or right.

### Side-to-Side

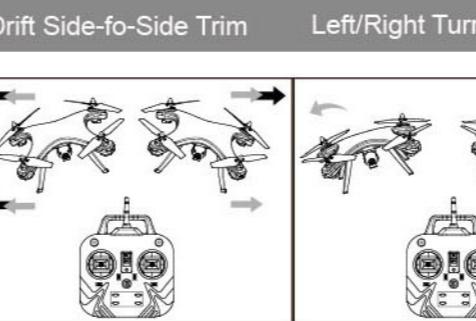


Push the direction stick to the left or right, the drone will drift to left side or right side.

### Trim Adjustment:

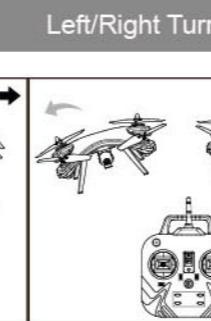
If the drone is hovering, but not the flight is not stable, make sure to adjust the trim of the drone.

#### Forward/Backward Trim



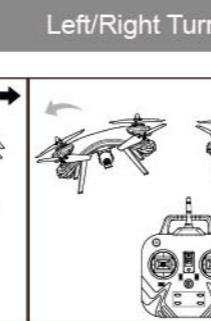
When the drone keeps moving forward/backward by itself, you can correct it by pressing the Forward/Backward Trim Button down/up.

#### Drift Side-to-Side Trim



When the drone keeps drifting to the left/right side by itself, you can correct it by pressing the Left/Right drifting Trim Button to the right/left.

#### Left/Right Turning Trim



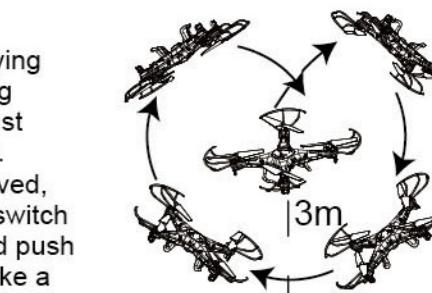
When the drone keeps spinning counter clockwise/clockwise, you can correct it by pressing the Left/Right turning Trim Button to the right/left.

## INSTRUCTION OF DRONE FUNCTIONS:

### 3D EVERTION (360° FLIP ACTION)

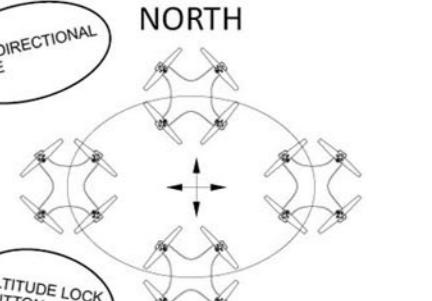
Once the user is familiar with the basic flying techniques, they can then begin practicing exciting tricks and stunts! The drone can be flown at a height higher than 3 meters. Once the required height has been achieved, press and hold the FLIP ACTION button switch on the rear left side of the transmitter and push the direction stick (in any direction) to make a 360-degree flip.

Tip: 360° FLIP ACTION works best when the battery is at full charge.



### REGULAR MODE / HEADLESS MODE (OMNIDIRECTIONAL MODE)

By default, the clearly marked cockpit on the drone is considered the front. When flying the drone, your movements with the remote control will work according to the direction of the cockpit. However, this makes the drone very hard to fly at long range as it becomes difficult to tell which direction the cockpit is pointing. HEADLESS MODE (OMNIDIRECTIONAL MODE) makes you the center of the drone, so the drone will respond to directions as if it's facing the way you are facing. Your left, right, up and down also become the same for the drone.



1. When flying under REGULAR MODE, the lights will be solid. The RED lights designate forward and the GREEN lights designate backward. When flying under OMNIDIRECTIONAL MODE, the lights will blink slowly. Regardless of the direction of the lights in relationship to the operator, the drone will follow the direction of the stick on the transmitter.

2. When you sync the transmitter in the drone, it will always start in REGULAR MODE. To switch to OMNIDIRECTIONAL MODE, press the remote transmitter OMNIDIRECTIONAL MODE button again, and you will hear a continuous "beep" sound. At the same time, the lights on the drone will slowly blink to designate that you are now in OMNIDIRECTIONAL MODE. To return to REGULAR MODE, press the remote transmitter OMNIDIRECTIONAL MODE button again, and you will not hear any sound. At the same time, the lights on the drone will stop blinking and turn solid to designate that you are now in REGULAR MODE.



**IMPORTANT:** When turning on the drone and transmitter to sync them, you must remember to place the drone directly in front of you with the RED light forward. Failure to do this will cause the drone do not respond properly to the controller and will not allow you to switch to OMNIDIRECTIONAL MODE.

#### ALTITUDE LOCK (POSITION HOLDING MODE)

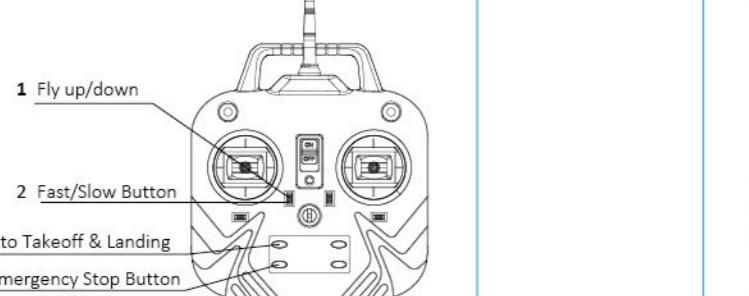
When you press the ALTITUDE LOCK BUTTON on the transmitter, the drone's lights will flash slowly and the drone will keep the current altitude +/- 0.7 meters. At this time, the Throttle Stick will not operate. You will also not be able to do any flips while in the ALTITUDE LOCK mode. To exit the ALTITUDE LOCK mode, press the button again. Please note: Before activating Altitude Hold Mode, please ensure the aircraft is high enough off the ground (at least 3 meters is recommended).

#### AUTO-BACK BEACON ( ONE KEY RETURN)

One Key Return is the function which helps return your drone if it gets lost, loses control, crashes, or flies too far away from you. If at any time the drone is headed far away from you, press the AUTO-BACK BEACON BUTTON. When you hear a sound, the drone will head back in the opposite direction of which it was headed, and return to the general vicinity of the radio transmitter. When you can see the drone within 2-3 meters, press the AUTO-BACK BEACON BUTTON once again to return to REGULAR MODE. If the drone is flying too close to you, please do not press the AUTO-BACK BEACON BUTTON to avoid any potential injury.

#### AUTO TAKE OFF & LANDING (MODE FOR THE BEGINNER)

**1. TAKE OFF:** Firstly pairing the drone and the remote by pushing the throttle up and down. Put the drone on the plane ground, press the key 3 ( see the picture), the lights will keep flashing, after 3-10 seconds, the drone will take off.



3. After the drone taking off, when press the key 1, the drone will ascend. When press the key 2, the drone will descend.  
**4. EMERGENCY STOP:** At the Mode of one-key taking off, when the drone bump with obstacle or can not be seen, this function is recommended. Notice: At the Mode of one-key taking off, the throttle for up and down, or the key for flipping can not function. But the drift side fly/turn left/turn right work normally, press the Button 3 again to exit the auto take off & landing mode and start fly manually.

**BUTTON #1:** While in Auto Takeoff & Landing Mode, this button works as the throttle of the aircraft (ascending/descending).

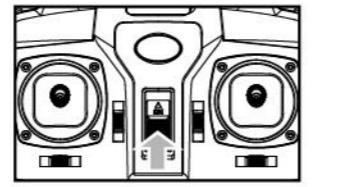
**BUTTON #2:** While in Auto Takeoff & Landing Mode, this button will NOT function. Only useable when flying in Normal Mode, press down once to hear a beep, signifying normal speed. Press down a second time to activate fast speed.

**BUTTON #3:** Get in or out the AUTO TAKE OFF & LANDING Mode.

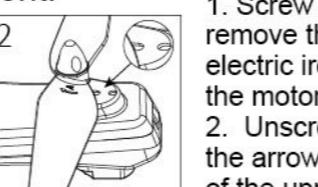
**BUTTON #4:** While in Auto Takeoff & Landing Mode, should you encounter any obstacles or obstructions to the flight of the drone, the drone will instantly shut down once this Emergency button is pressed.

#### RESTART FUNCTION:

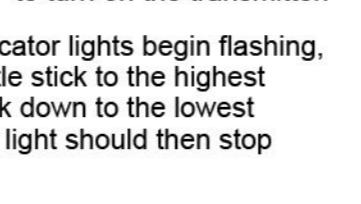
In case of flight disorder or sideward flight, restore factory default settings by the following method:



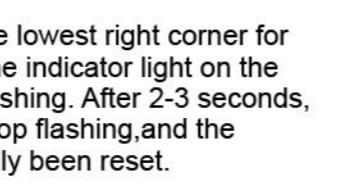
1. Press the power switch to turn on the drone, and place directly in front of you with the GREEN light forward.



2. Press the power switch to turn on the transmitter.



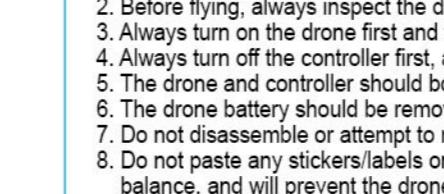
3. When the drone's indicator lights begin flashing, please press the throttle stick to the highest position, and then back down to the lowest position. The indicator light should then stop flashing and stay on.



4. Push both sticks to the lowest right corner for about 2-3 seconds. The indicator light on the drone should begin flashing. After 2-3 seconds, the indicator should stop flashing, and the aircraft has successfully been reset.

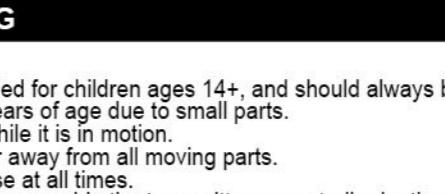
#### INSTALLATION OF PROPELLER / DISMOUNTING STEPS

##### Dismounting Steps:



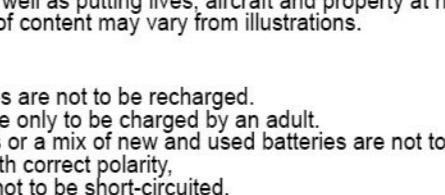
1. Rotate blade cover counter clockwise and remove (see picture 1).
2. Rotate collar bush counter clockwise and remove tube (see picture 2).
3. Pull collar bush UP to remove (see picture 3).

##### Installation Procedure:



1. The drone blades plug into a gear wheel through the main shaft (see picture 1).
2. Fix the collar bush plug in the main shaft tube (see picture 2).
3. Arrange the tube plug into the hole of the main shaft tube, and then tighten the cover by turning it clockwise (see picture 3).
4. Tighten blades by turning them clockwise (see picture 4).

##### Motor replacement:



1. Screw open the motor cover (Figure 1), remove the motor cover, as well as the electric iron wire bonding associated with the motor.
2. Unscrew the screw in the direction of the arrow on the motor, through the hole of the upper cover.

#### ENVIRONMENT FOR FLIGHT:

1. Fly on a sunny day, without wind.
2. Do not fly in extreme temperatures; do not fly in temperatures above 113 degrees Fahrenheit/ 45 degrees Centigrade, or below 50 degrees Fahrenheit/ 10 degrees Centigrade. Flying in extreme heat and/or cold will affect performance and may damage model.
3. Do not fly in strong winds; windy conditions will limit, or disturb flying control. In very windy conditions your helicopter may become lost and/or damaged.
4. Select a large, wide open area for flying. Make sure there are no obstructions, water, animals or people nearby.
5. Do not fly while it is raining.

#### PRECAUTIONS

1. Promptly disconnect the battery after it is finished charging.
2. Before flying, always inspect the drone, transmitter and battery for damage. Do not fly if any are damaged.
3. Always turn on the drone first and then the transmitter.
4. Always turn off the controller first, and then the drone.
5. The drone and controller should both be turned off when not in use.
6. The drone battery should be removed and properly stored when not in use.
7. Do not disassemble or attempt to modify this product.
8. Do not paste any stickers/labels on the drone, or attach it to any item, as this will affect the weight and balance, and will prevent the drone from flying properly.
9. The drone is very powerful; press the throttle stick gradually to avoid a surge of power that may cause it to crash and be damaged.
10. Children must be supervised by an adult to ensure that the drone is kept in control and with sight.
11. Insufficient battery power will limit the control of the drone.
12. Avoid dropping or crashing the drone as this will lead to damage and shortened product life.

#### SAFETY WARNING

##### WARNING:

- The aircraft is recommended for children ages 14+, and should always be used with adult supervision.
- Not for children under 3 years of age due to small parts.
- Do not try to stop drone while it is in motion.
- Keep hands, face and hair away from all moving parts.
- Exercise caution during use at all times.

- Do not allow children to disassemble the transmitter or controller by themselves.
- Do not operate the drone in the vicinity of other people, animals or other obstructions.
- If the drone is damaged during use, it should be checked or repaired by an adult.
- Remove the batteries from the transmitter and controller when not in use for longer battery life.
- All battery types must be recycled or disposed of properly.

##### 4. Tighten blades by turning them clockwise (see picture 4).

##### BATTERY CAUTIONS:

- Non-rechargeable batteries are not to be recharged.

##### -Rechargeable batteries are only to be charged by an adult.

##### -Different types of batteries or a mix of new and used batteries are not to be used.

##### -Batteries to be inserted with correct polarity.

##### -The supply terminals are not to be short-circuited.

##### -Exhausted batteries are to be removed and properly discarded as they will hinder performance.

##### -Always use fresh and/or fully charged batteries.

##### -Please check the wire, plug, shell and other parts of charger periodically and if any damage, stop using until fully repaired.

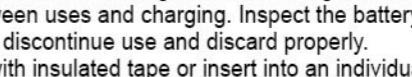
##### CONFIRMS TO THE SAFETY REQUIREMENT

##### OF CPS & ASTM F963-11 STANDARDS.

##### ITEM: 4806029

##### MADE IN CHINA

##### NOT INCLUDED



#### CC Label Compliance Statement:

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.
2. This device must accept any interference received, including interference that may cause undesired operation.

Warning: Changes or modifications to this unit 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 a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

The manufacturer is not responsible for any radio or TV interference caused by unauthorized modifications to this equipment. Such modifications could void the user's authority to operate the equipment.

**IF YOU HAVE ANY QUESTIONS ABOUT THE OPERATION OF THIS QUADCOPTER PLEASE CONTACT VS AMERICA: [rc@vsamerica.com](mailto:rc@vsamerica.com).**

**TO INQUIRE ABOUT PARTS OR REPAIRS PLEASE VISIT OUR WEBSITE AT [www.vsgamerica.com](http://www.vsgamerica.com).**

IMPORTED BY:  
GOLDEN VIKING SPORTS  
9129-67 AVENUE SOUTH  
KENT, WA USA 9802

ITEM: 4806029

MADE IN CHINA



**WARNING:**  
CHOKING HAZARD - small parts.  
Not for children under 3 years.