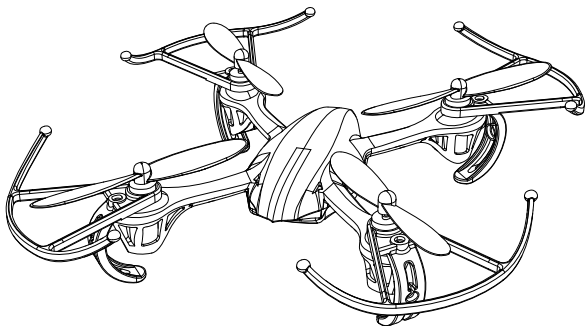




14⁺
age

INSTRUCTIONS FOR USE



HS170G



usa@holystone.com (America)

ca@holystone.com (Canada)

eu@holystone.com (Europe)

jp@holystone.com (Japan)



+1(855) 888-6699

www.holystone.com

Table of Contents

Preface	1
Warnings	2
Maintenance	3
Package Contents	4
Specification	5
Drone	7
Drone's Details	8
Transmitter Functions	9
Install and Charge the Battery of Drone	10
Fly Safe Information	12
Flight	
● Pair the Drone	13
● Calibrate the Drone	14
● Start/Stop	15
● Flight Control	15
Emergency Stop	17
Speed Switch	17
Altitude Hold	18
Flip Mode	19
Headless Mode	20
Trouble Shooting	23
Contact Us	23
General Information	24

To make your experience with this drone as straightforward and convenient as possible, please read this instructions before operating and keep it for the future reference and maintenance.

Important Statement:

1. This product is not a toy, but it is a high precision drone that integrates various electronic stability and control mechanisms. This drone requires careful and correct assembly and set up to ensure safe, accident- free operation. This equipment should be operated in a safe and controlled manner at all times. Incorrect or hazardous operation may cause damage to the device or property, or cause serious injury to those in the vicinity.
2. This product is suitable for experienced drone pilots over 14 years of age.
3. In case of having difficulties on any aspect of the product, operation or maintenance, please contact your local sales agent or contact customer support here at Holy Stone.

Safety Guidelines

This product is Mini RC Drone that offers easy, controllable flight when in good working order, however, there is also a significant risk to property and people if flown irresponsibly or within confined spaces. Incorrect assembly or poor control by inexperienced pilots can result in damage to property or harm to people in an accident. Be fully aware of your surroundings when flying and always maintain complete control of the vehicle at all times.

1. Keep in Distance:

- a. Always fly in locations that are clear of any obstructions, such as buildings, poles, electrical wires, trees and so on.
- b. Never fly above or near people and spectators.

2. Do not fly in adverse weather conditions:

- a. Keep clear of moisture, fog, ice and excessive wind.
- b. Fly in good weather conditions only.

3. Use and maintain the product according to the instructions for use:

- a. Operate this device legally in accordance with instructions provided and with local laws and regulations.
- b. Always use original parts manufactured by Holy Stone for maintenance and repair.

4. Do not operate the device alone.

- a. If you are a new pilot, seek assistance from an experienced drone pilot when learning.
- b. Have others around to help you fly at all times.

5. Safety First every time:

- a. Always operate the drone within your ability as a pilot. If you are ill, disoriented, or unsure of how to effectively fly the drone, please seek help to avoid danger, damage or injury.

6. Keep clear of rotation parts:

- a. During operation the rotors revolve extremely quickly, please avoid touching the blades and ensure that foreign objects are kept clear of all moving parts.

7. Avoid exposure to excessive heat:

a. Due to the numerous material types used in construction, this drone is not suitable for exposure to heat. Please keep your device away from heat sources and avoid prolonged exposure to direct sunlight. High temperatures is capable of distorting the structure of drone and lead to unpredictable consequences.

<WARNINGS>


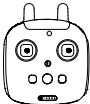






1. The information and guidance within this package and instructions for use are important for the safe operation and maintenance of your drone. Please keep it well for future reference.
2. You accept sole responsibility for any injury, loss or damage that result from your operation of the device.
3. Always follow the instructions when assembling or operating the drone. Always keep at least 2 meters between the user or viewers and the model to avoid risk of injury. Pay attention to the device at all times while flying.
4. Neither Holy Stone nor any distributors or agents accepts any responsibility for loss, injury or damage caused by incorrect operation of the drone.
5. This drone is not suitable for children under the age of 14. Younger pilots should always operate the drone under the supervision of an adult.
6. Please ensure assembly instructions are followed correctly to ensure proper operation and performance of your drone.
7. This product contains small parts. To avoid any choking hazard, please keep this drone and all its components out of the reach of children.
8. To avoid accidents, under no circumstances should this drone be flown over open water or near public roads.
9. Keep all packaging materials away from children and dispose them in a safe manner.
10. The internals of the drone are not user serviceable. To avoid malfunctions during flight, please do not attempt to dissemble this drone or replace any part of the drone.
11. Please ensure batteries are fitted in the correct orientation as shown in this instructions.
12. Insert batteries ensuring they are in the right orientation. Always put battery cover back and tighten the screw to secure before use.
13. Only use the charger provided with your drone for safety.
14. The charger is not a toy.
15. Use either rechargeable or nonrechargeable "AA" batteries in the transmitter. Do not mix battery types.
16. Use only recommended batteries in the transmitter, please remember that non-rechargeable batteries must not be charged.

17. For rechargeable batteries, always follow manual instructions for use and have adult supervision. Do not leave charging batteries unsupervised and as batteries get hot when charging, avoid any combustible material.
18. Avoid short circuits by fitting the batteries incorrectly, and do not crush or squash batteries as this carries a risk of explosion.
19. Do not mix new and old batteries as this can lead to unpredictable performance.
20. Dispose used batteries carefully, and do not litter.
21. The power socket must not be removed from this drone. Do not attempt to short-circuit the connection socket.
22. When disposing batteries, do not throw on fires, leave to decompose. Keep clear of heat sources and high temperatures at all time.
23. If the device is not going to be used for an extended period, remove batteries to prevent potential damage from battery leakage.
24. Care should be taken to keep your drone away from sources of magnetic interference of other electrical equipment to prevent signal issues during operation.
25. Keep clear of rotating parts and beware of loose clothing that could become entangled in the rotors causing injury.
26. Beware of the noise volume the drone produces. Keep your distance to avoid hearing impairment.
27. The charger socket uses a mini USB 5V connection.
28. Always use the product in compliance with local aviation rules and comply with local authorities who require you to refrain from operating at any time.

<MAINTENANCE>

1. Clear the product after each use with a clean, soft cloth.
2. Avoid prolonged exposure to direct sunlight and avoid buildup of heat on the drone.
3. This device is not waterproof and must not be submerged in water under any circumstance. Failure to maintain the device completely dry will result in the failure of the unit.
4. Check the charging plug and other accessories for signs of damage frequently. If any part of the device is damaged, refrain from flying until maintenance can be carried out.

Package Contents

No.	Part Name	Picture	Quantity
1	Drone		1
2	2.4G Transmitter		1
3	3.7V 350mAh Li-Po Battery		1
4	Additional Rotating Propeller		4
5	USB Charging Connector		1
6	Screwdriver		1
7	Instructions For Use		1
8	Propellers Spanner		1

DRONE

Model: HS170G

Weight: 31.5g / 1.1 oz

Max Flight Time: 6~8 minutes

Motor Model: 720

Hovering: Enabled

Operating Temperature Range: 32° to 104°F (0° to 40°C)

Dimensions: 120 x 120 x 34mm

Transmitter

Operating Frequency: 2.4GHz

Max transmission distance: 50m

(Outdoor And Unobstructed)

Battery: 1.5V Alkaline Battery

Operating Temperature: 32° to 104° F (0° to 40° C)

FLIGHT BATTERY

Capacity: 350 mAh

Voltage: 3.7 V

Battery Type: LiPo

Energy: 1.30Wh

Net Weight: 10.6 g / 0.37 oz

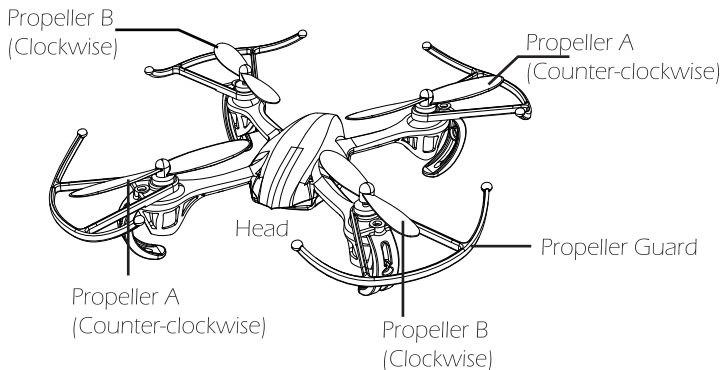
Charging Temperature Range: 41° to 104°F (5° to 40°C)

Charging Time: 45~60 mins(**Depending on Charging Power**)

USB CHARGING CABLE

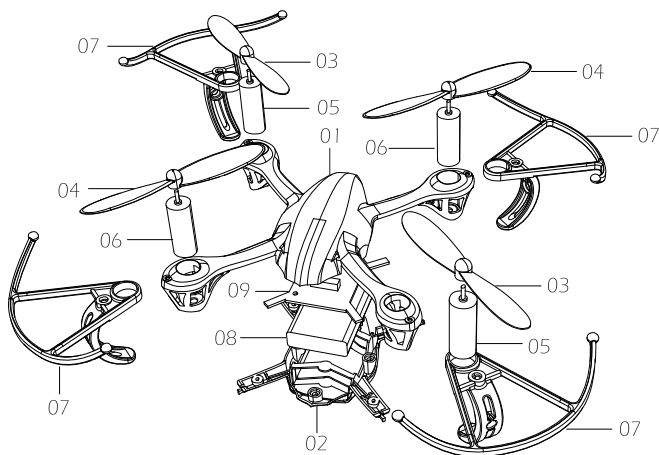
Voltage: 5 V

Rated Power: ≤10 W



! It is crucial that all the propellers are installed in the correct position(Pay attention to the letter "A" or "B" printed underneath each propeller.)

<DRONE'S DETAILS>

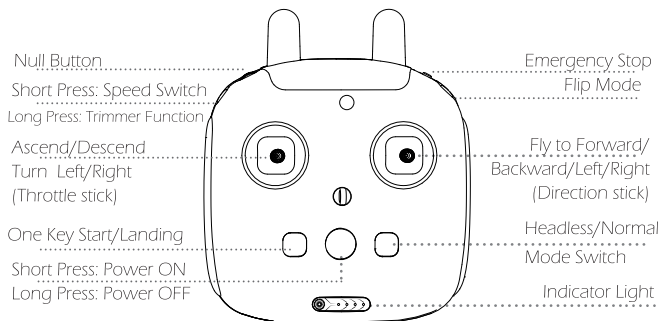


SN	NAME	Qty.	SN	NAME	Qty.
01	Upper Body	1	06	Counter-clockwise Motor	2
02	Bottom Body	1	07	Propeller Guard	4
03	Clockwise Propeller	2	08	Battery Cell	1
04	Counter-clockwise Propeller	2	09	Receiver Board	1
05	Clockwise Motor	2			

< TRANSMITTER FUNCTIONS >

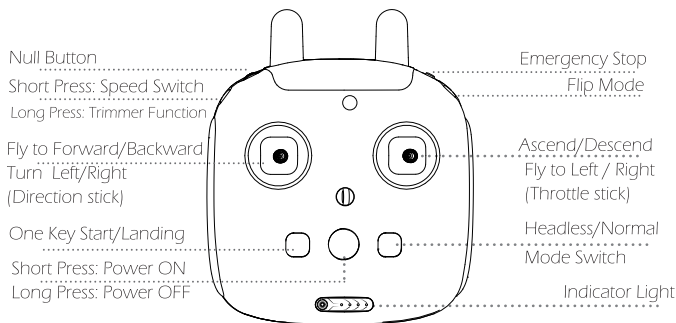
Mode 2(Recommend!)

Left hand throttle Mode 2 will be default setting.

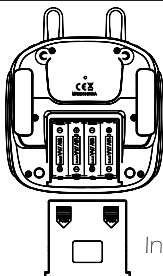


Mode 1

Turn on the transmitter while holding the “Flip Mode” button to enter Mode 1.(Please don’t release the “Flip Mode” button until the transmitter is powered on.)



< TRANSMITTER BATTERIES INSTALLATION >



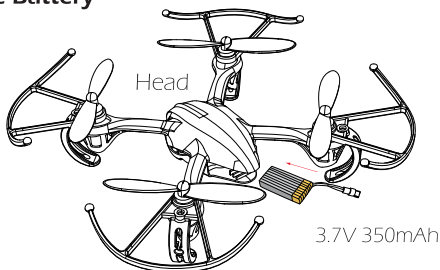
4 x 1.5V AA
(Not included)

Install 4 AA batteries to the transmitter.

Note: Always pay close attention to battery polarity when inserting any batteries to make sure they are fitted correctly.

< INSTALL AND CHARGE THE BATTERY OF DRONE >

Install the Battery

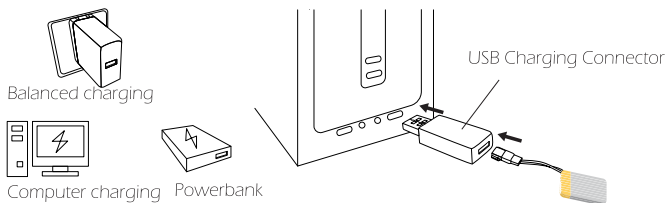


Insert the battery into the drone.

Charge the Battery

1. Connect the battery to the USB charging connector.
2. Plug the connector into a computer, a USB power adapter (5V 0.5-1A) or a Powerbank. (Please use equipped charging connector to charge the Li-Po battery.)

- >The red light on the charging connector will turn on when charging is in progress.
- >Once charging is complete, the red light will turn to green.
- >Charging time: about 45-60minutes, flight time: about 6-8 minutes.



CAUTIONS

- 1) Don't use or charge the battery if it shows signs of swelling, punctures, or damage in any way.
- 2) Don't charge the battery directly after use: Allow it to cool down in an open and dry area to insure overheating does not occur.
- 3) During battery is charging, please keep it away from furniture, carpet or anything flammable.
- 4) Don't charge the battery overload(below 5V/2A). Make sure to remove the battery from the charger after charging is complete, Never overcharge the battery.
- 5) Be cautious while removing a battery from the charge. And it's possible to strip the cords that leads to a fire(and ruin the battery)



Li-Po Battery Disposal & Recycling

Wasted Lithium-Polymer batteries must not be placed with household trash. Please contact local environmental or waste agency or the supplier of your model or your nearest Li-Po battery recycling center.



Fly Safe Information



+



+



Fly in Open Areas

Maintain Line
of Sight

Fly Below
150 feet (50 m)



Avoid flying over or near obstacles, crowds, high voltage power lines, trees, airport or bodies of water.

DO NOT fly near strong electromagnetic sources such as power lines and base stations as it may affect the onboard compass.



DO NOT use the drone in adverse weather conditions such as rain, snow, fog and wind speeds exceeding **3.3 m/s or 11 mph**.



No Fly Zone

Stay away from the rotating propellers and motors.



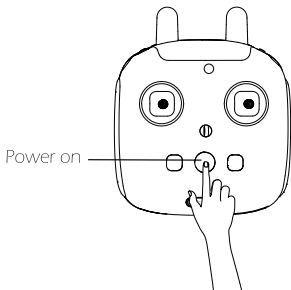
The basic flight guidelines are important for pilots' safety and the surroundings. Please read the Safety Guidelines carefully.



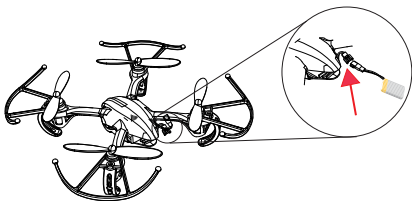
- Rotating propellers can be dangerous. Do not start the motors when there are people nearby.
- Always keep your hands on the transmitter so long as the motor is still spinning.
- Only stop motors mid-flight in emergency situations when doing so can reduce the risk of damage or injury. Refer to the instructions.

Please Note, all of the following operations are taking Mode 2 for example.

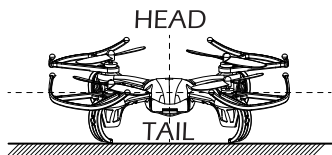
1. Pair the drone



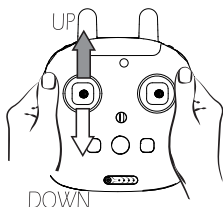
- ① Power on the transmitter.



- ② Connect the battery to the drone , and the LED indicator lights on the drone will blink.

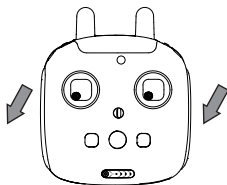


- ③ Place the drone on a flat and level surface with the head faces forward and the tail faces towards the pilot.



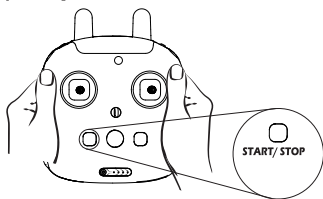
- ④ Push left joystick up then down to pair the drone and transmitter. The LED indicator lights on the drone will be solid if the drone is paired successfully.

2. Calibrate the Gyro

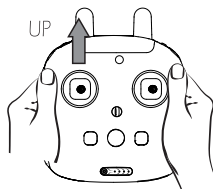


- ⑤ Push both joysticks to the bottom left to calibrate the gyro. The LED indicator lights on the drone will blink and turn solid which means calibration is completed.

3. Start/Stop



(Pic1)



(Pic2)

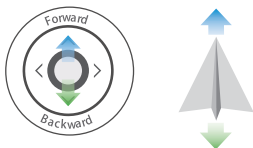
- ⑥ Press START button **(Pic1)**, the propellers will start spinning at low speed. Push the left joystick up **(Slowly)**, the drone will take off to a height of about 1.5 meters automatically **(Pic2)**. If you want to land the drone, press STOP button **(Pic1)**, the drone will land slowly by itself until it touches the ground.

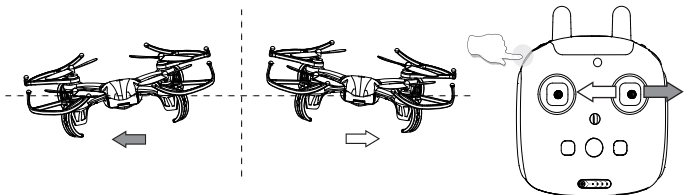
4. Flight Control

- ⑦ Left (Throttle) Joystick.

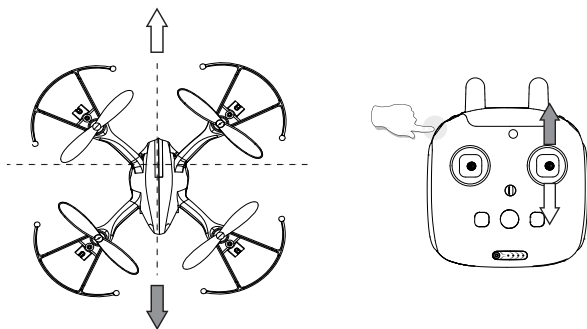


- ⑧ Right (Direction) Joystick.





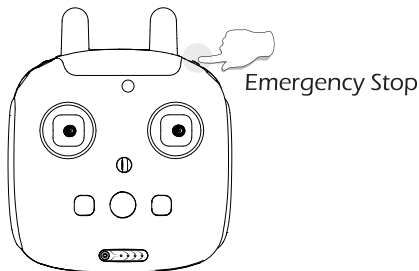
- ⑨ **L/R Sideward Fly Trim** : When the drone drifts left or right, long press and hold the “Speed Switch” button to enter Trimmer Function, and push the right joystick to the opposite direction at the same time to re-balance the drone.



- ⑩ **F/B Sideward Fly Trim** : When the drone drifts forward or backward, long press and hold the “Speed Switch” button to enter Trimmer Function, and push the right joystick to the opposite direction at the same time to re-balance the drone.

< EMERGENCY STOP >

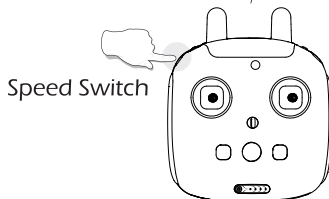
⚠ Only stop motors mid-flight in emergency situations when doing so can reduce the risk of damage or injury.



Press the Emergency Stop Button on the UP RIGHT of the transmitter, and the motors will stop immediately.

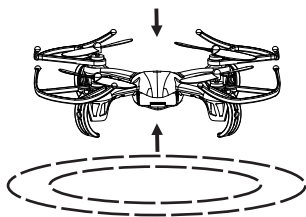
<SPEED SWITCH>

This drone comes with 3 speed modes(Low/Medium/High). Press "Speed Switch" button on the up left of transmitter to switch the speed mode. One beep from the transmitter indicates it is in low speed mode, two beeps indicate medium speed, and three beeps indicate high speed.
(Low speed will be default mode!)




<ALTITUDE HOLD>

This drone is equipped with Altitude Hold function, which means this drone will keep in a steady altitude.



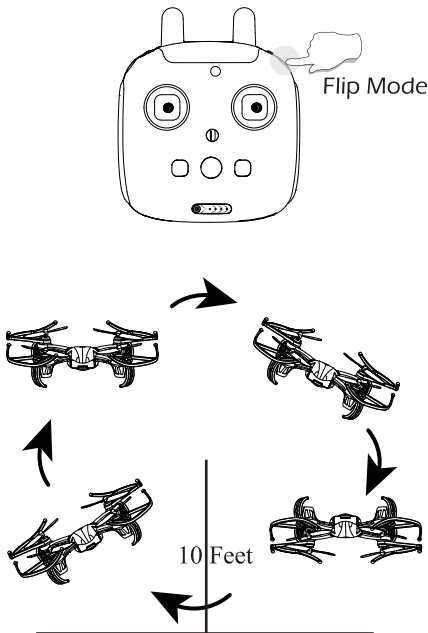
During flight, altitude hold function allows you to release the throttle joystick, and the drone will keep hovering at the current height.

 Reliable communication range between the drone and the transmitter is around 50 meters depending on terrain and conditions. If your drone loses connections at any point, the drone will lose control and it will land automatically.

<FLIP MODE>

When you become familiar with all the functions of the drone, you can try this amazing flip mode. Make sure you fly the drone at least 10 feet high, press the “Flip Mode” button on the up right of the transmitter, and push the Right stick Forward/Backward or Left/Right. The drone will flip accordingly. When the drone completes the rolling action, it automatically exits the Flip Mode.

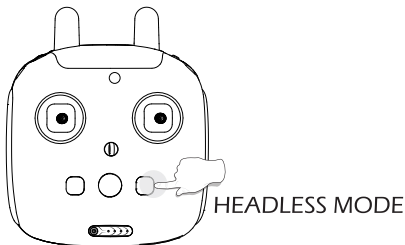
Caution: The drone will flip best when the battery is fully charged.



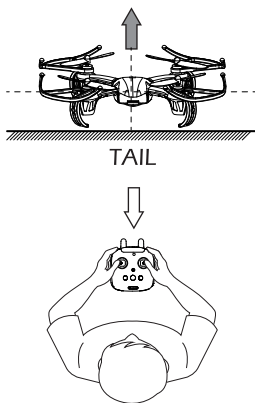
< HEADLESS MODE >



Do not use the Headless Mode until you totally comprehend the instructions for use. Flying in Headless Mode without sufficient experience might result in loss or damage of the device.

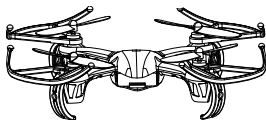


1. Place the drone on flat and level surface with the head faces forward and the tail faces towards the pilot.



< HEADLESS MODE >

2. Push the left joystick up then down to pair the drone to the transmitter.
3. Press the Headless Mode button on the transmitter, and you will hear beeps from transmitter constantly, and the indicator lights on the transmitter and the drone will keep blinking. It means the drone is in Headless Mode.



The direction of control when the drone is paired.



Don't turn your direction



Don't turn your direction

4. Press the Headless Mode button again to exit Headless Mode.

Tips

Under Headless Mode, the forward direction is the direction the pilot faces when the pilot pairs the drone with the transmitter. If the pilot pushes the right joystick forward, the drone will fly away from you. If the pilot pushes the right joystick backward, the drone will fly towards to him/her. If the pilot pushes the right stick left or right, then the drone will also move left or right correspondingly. Please do not change positions or the direction the pilot is facing, otherwise, it may cause the drone disordered.

Trouble Shooting

THE PROBLEMS	REASONS	SOLUTIONS
The indicator lights of the drone are flashing and does not respond to the transmitter.	1. Transmitter is not synced to the drone. 2. Insufficient battery power.	1. Refer to the preparation for FLIGHT and pair again. 2.Recharge the battery.
The propellers spin, but the drone cannot take-off.	1. Insufficient battery power. 2. The propellers are installed in wrong orientation. 3. The propellers are distorted.	1. Recharge the battery. 2. Install the propellers in right orientation. 3. Replace the propellers.
The drone sways sharply.	The propellers are distorted.	Replace the propellers.
Drone cannot stay balanced in flight.	1. The propellers are distorted. 2. The motor doesn't work properly.	1. Replace the propellers. 2. Replace the motor.
The drone is out of control after crashing.	Six-axis acceleration sensor loses its balance after crashing.	Restart and re-calibrate the drone.

For more further technical support, please do not hesitate to contact us via Email or Hot Line Phone Call.



usa@holystone.com (America)
ca@holystone.com (Canada)
eu@holystone.com (Europe)
jp@holystone.com (Japan)



+1(855) 888-6699

General Information

FCC Information

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.

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.

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

RF Exposure

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

IC Notice:

This device complies with Canada Industry licence-exempt RSS standard(s). Operation is subject to the following two conditions:

- (1) this device may not cause interference; and
- (2) this device must accept any interference. Including interference that may cause undesired operation of the device.

CAN ICES-3 (B)

Avis d'Industrie Canada

Le présent appareil est conforme aux CNR d'industrie Canada applicables aux appareils radio exempts de licence. L'exploitation est autorisée aux deux conditions suivantes:

- 1) l'appareil ne doit pas produire de brouillage; et
- 2) l'utilisateur de l'appareil doit accepter le brouillage radioélectrique subi même si le brouillage est susceptible d'en compromettre le fonctionnement.

Cet appareil numérique de la classe B est conforme à la norme NMB-003 du Canada.

CAN NMB-3 (B)

RF Exposure

Radiation Exposure Statement:

This equipment complies with IC 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.

Déclaration d'exposition aux radiations:

Cet équipement est conforme aux limites d'exposition aux rayonnements IC établies pour un environnement non contrôlé. Cet équipement doit être installé et utilisé avec un minimum de 20 cm de distance entre la source de rayonnement et votre corps.

HOW TO RECYCLE THIS PRODUCT

This symbol on the product or its documentation indicates that it must not be disposed of with household waste. Uncontrolled waste disposal may harm the environment or human health.

Please separate your device from other types of waste to recycle it responsibly. This will help to foster the sustainable re-use of material resources.

We invite you to contact your retailer or inquire at your local town hall to find out where and how the drone can be recycled.



BATTERY WARNING:

- 1.Failure to follow all the instructions may result in serious injury, irreparable damage to the battery and may cause a fire, smoke or explosion.
- 2.Always check the battery's condition before charging or using it.
- 3.Replace the battery if it has been dropped, or in case of odour, overheating, discolouration, deformation or leakage.


4. Never use anything other than the approved LiPo charger for the battery. Always use a balancing charger for LiPo cells or a LiPo cell balancer. It is recommended that you do not use any other charger than the one provided with the product.
5. The battery temperature must never exceed 60°C (140°F) otherwise the battery could be damaged or ignite.
6. Never charge on a flammable surface, near flammable products or inside a vehicle (preferably place the battery in a non-flammable and non-conductive container).
7. Never leave the battery unattended during the charging process. Never disassemble or modify the housing's wiring, or puncture the cells. Always ensure that the charger output voltage corresponds to the voltage of the battery. Do not short circuit the batteries.
8. Never expose the LiPo battery to moisture or direct sunlight, or store it in a place where temperatures could exceed 60°C (car in the sun, for example).
9. Always keep it out of reach of children.
10. Improper battery use may result in a fire, explosion or other hazard.
11. Non-rechargeable batteries are not to be recharged. Rechargeable batteries are only to be charged under adult supervision.

12.Different types of batteries or new and used batteries are not to be mixed.

13.Batteries are to be inserted with the correct polarity.

14.The supply terminals are not to be short-circuited. Regular examination of transformer or battery charger for any damage to their cord, plug, enclosure and other parts and they must not be used until the damage has been repaired.

15.The packaging has to be kept since it contains important information.

16.The toy is only to be connected to Class II equipment bearing the symbol. 

EU RRF Power(EIRP):-7.71 dBm (2413MHz ~ 2461MHz)

Caution

1.The max operating of the EUT is 45°C. and shouldn't be lower than -10°C.

2.The device complies with RF specifications when the device used at 0mm from your body.

3.Declaration of Conformity

We, Xiamen Huoshiquan Import & Export CO., LTD
hereby, declare that the essential requirements compliance with the
Directive 2014/53/EU, the RoHS Directive 2011/65/EU and Safety
Directive 2009/48/EC have been fully fulfilled on our product with
indication below:

Product Name: REMOTE CONTROL MODEL/RADIO CONTROLLED
HELICOPTER

Model/Trademark : HS170G/HOLY STONE

The Statement of compliance is available at the following address:
http://www.holystone.com/Download/CE/HS170_EU_DOC.pdf

This product can be used across EU member states.

MANUFACTURER INFORMATION

Manufactured by Xiamen Huoshiquan Import & Export CO., LTD
Room 703, No. 813-2 Xiahe Road, Siming District, XIAMEN, China
+1 (855) 888-6699



Made in China