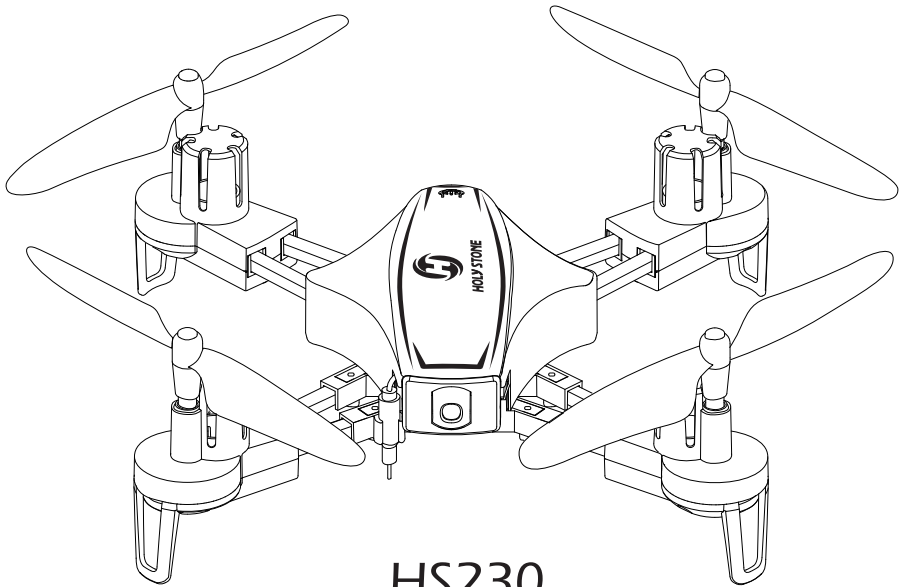




14+  
age

# INSTRUCTIONS FOR USE



HS230



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

### **Important Statement:**

1. This product is not a toy, but a high precision drone that integrates various electronic stability and control mechanisms. This drone requires careful and correct assembly and setup 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 has a flying camera 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 are people.

#### **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, 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, please 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 abilities 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 leading 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. You must not, under any circumstance, fly this drone over open water or near any public road to avoid risk of accident.
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, please do not attempt to disassemble this drone or replace any part of the drone, to avoid malfunctions during flight.
11. Please ensure batteries are fitted in the correct orientation as shown in these instructions.
12. You can access to the transmitter battery compartment by unscrewing the screws on the battery cover. Inserting batteries to ensure 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. Always pay close attention to battery polarity when inserting any batteries to make sure they are fitted correctly.
16. Use either rechargeable or nonrechargeable "AA" batteries in the transmitter. Do not mix battery types.
17. Use only recommended batteries in the transmitter, please remember that non-rechargeable batteries must not be charged.
18. 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.

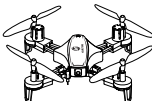
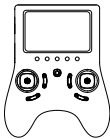
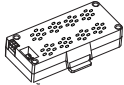
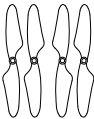










19. Avoid short circuits by fitting the batteries incorrectly, and do not crush or squash batteries as this carries a risk of explosion.
20. Do not mix new and old batteries as this can lead to unpredictable performance.
21. Dispose used batteries carefully, do not litter.
22. The power socket must not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

## <MAINTENANCE>

1. Clean 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	Transmitter		1
3	3.7V 800mAh Li-ion Battery (for drone)		2
4	Additional Propellers		8
5	Propeller Caps		8
6	USB Charging Cables (2 for drone+1 for transmitter)		3
7	4GB TF Card+ Card Reader		1
8	3.7V 380mAh Li-ion Battery (for transmitter)		1
9	Camera		1
10	Screwdriver		1
11	Additional Screws		4
12	Instructions For Use		1

## DRONE

Model: HS230

Weight: 92.5g

Flight Time: 7~9 minutes

FPV Distance: 328 feet (Outdoor And Unobstructed)

Motor Model: 8520

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

Dimensions: 340 x 340 x 91mm

## CAMERA

Lens: FOV 120° f/2.0

Still Photography Modes : Single Shot

Video Recording Modes: HD1280x720p

Max Video Bitrate: 25 Mbps

Supported File Systems: FAT32

Photo: JPEG

Video: AVI

Supported TF Cards: TF Card 4 GB included

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

## **TRANSMITTER**

Operating Frequency: 2.4 GHz

Battery Capacity: 380 mAh

Transmission Distance: 328 feet (outdoors and unobstructed)

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

Battery: 3.7V 380mAh Li-ion battery

## **FLIGHT BATTERY**

Capacity: 800 mAh

Voltage: 3.7 V

Battery Type: Li-ion

Energy: 2.96 Wh

Net Weight: 24.1g

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

Charging Time: 100mins

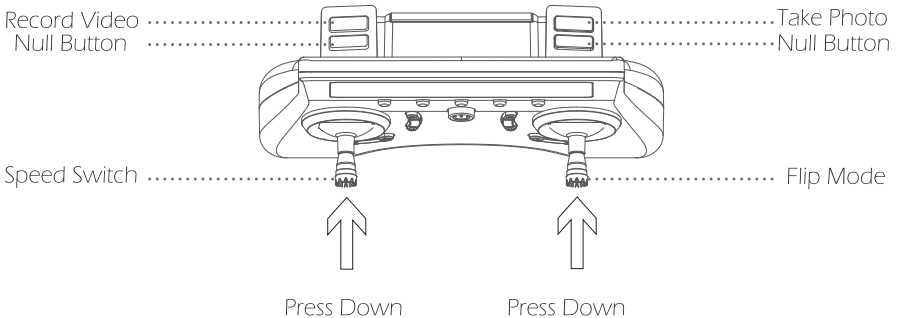
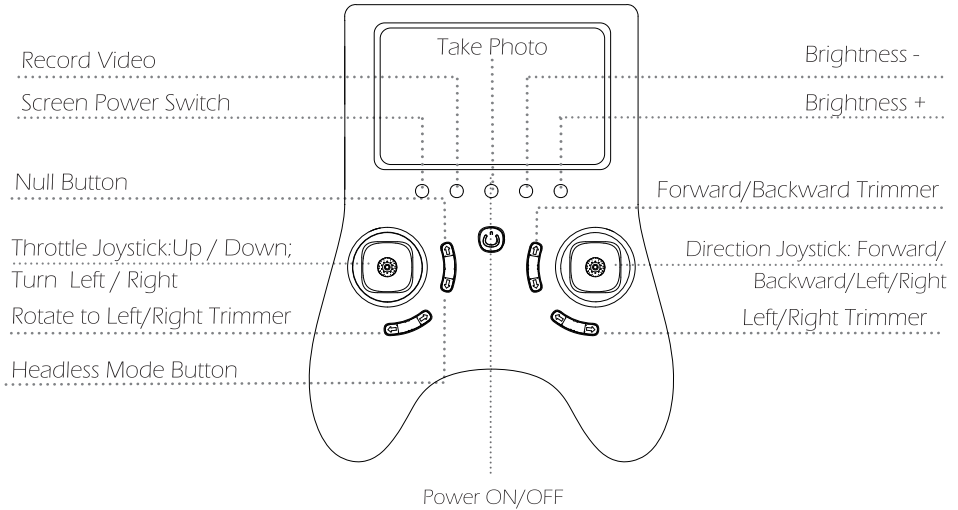
## **USB CHARGING CABLE**

Voltage: 5 V

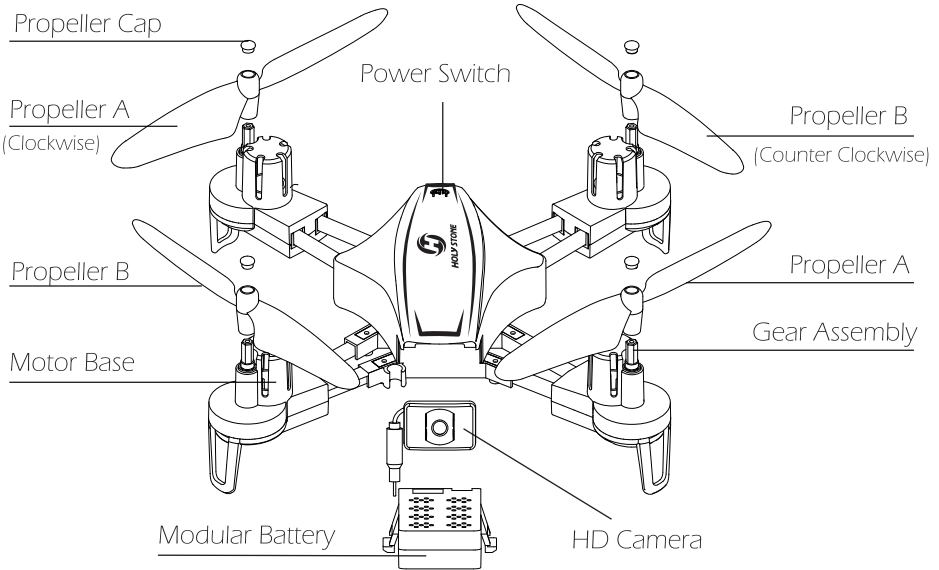
Rated Power: ≤10 W

< TRANSMITTER FUNCTIONS >

The transmitter is able to reach its maximum transmission distance at about 328 feet (100 meters) when used in a wide open area with no radio or electronic interference.

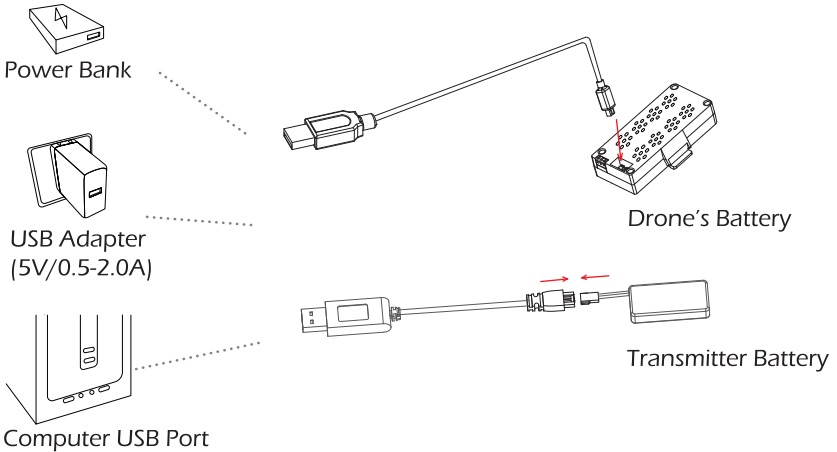


## < DRONE'S DETAILS >



## < CHARGE THE LITHIUM BATTERY >

To ensure a safe and optimal flying, please charge the batteries before flight.



1. Connect the battery with the USB charging cable.

2. Plug the USB charging cable in to a USB charging port on the computer, power bank or USB adapter. (5V/0.5A-2.0A )
3. The red indicator light on the USB charging cable will turn on when the battery is under charging; and will turn off when the battery is fully charged.
4. Charging time for drone's battery is about: 100 minutes.  
Charging time for transmitter battery is about: 60 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 avoid overheating.
- 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 charger since it is possible to strip the cords and cause fire. ( and ruin the battery)

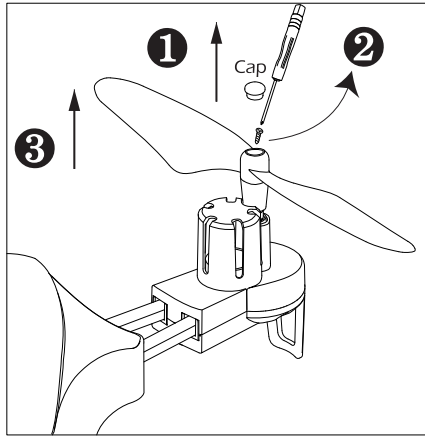


### Li-Po Battery Disposal & Recycling

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.



## < REPLACE AND ATTACH THE PROPELLER >

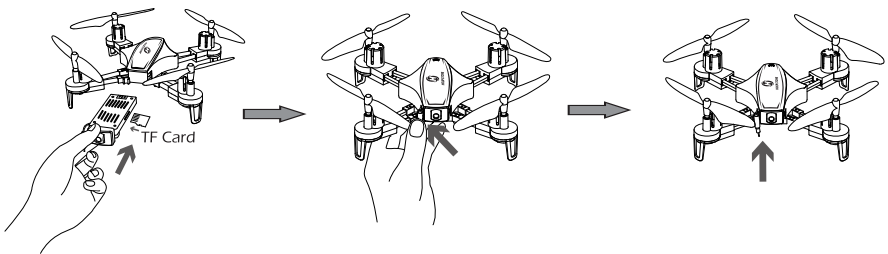


1. Remove Propeller Cap.
2. Unscrew the small screw.
3. Pull out the propeller.
4. Attach the correct propeller.

**!** Please note that all propellers must be installed in the correct orientation. (Pay attention to the letter "A" or "B" printed on each propeller when installing.)

## < CAMERA INSTALLATION >

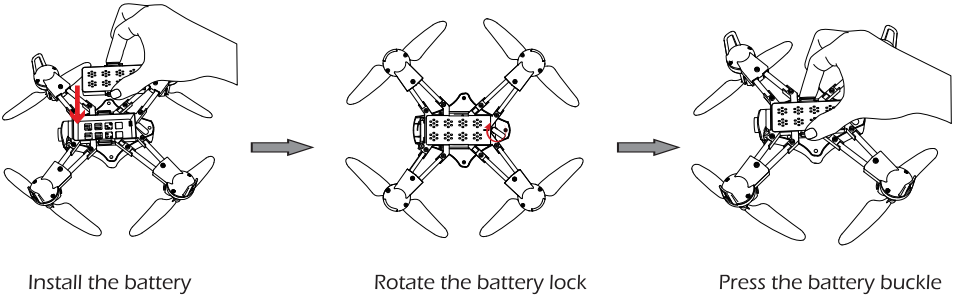
This drone come with a HD camera, please install it according to the following diagrams:



1. Insert the TF card to camera, then insert the camera to the camera compartment.
2. Press the Wi-Fi wire into the buckle on the drone's arm to fix it.

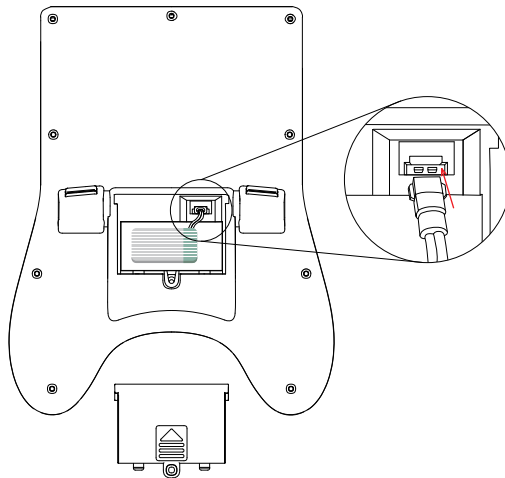


## For Drone



1. Install the battery to the battery compartment.
2. Rotate the battery lock to lock the battery onto the drone.
3. Rotate the battery lock back to unlock the battery and press the battery buckle to take battery out.

## For Transmitter



1. Put the battery in the transmitter battery compartment.
2. Connect the battery to the transmitter shown as above diagram.

# Flight Safety Information



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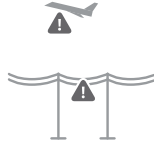
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Fly in Open Areas

Maintain Line of Sight

Fly Below 328 feet (100 m)

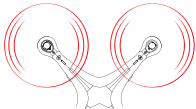


Avoid flying over or near obstacles, crowds, high voltage power lines, trees, airport or bodies of water.

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 windy.



No Fly Zone

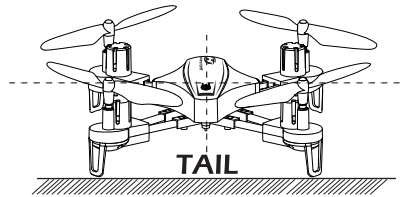
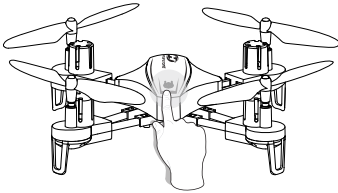
Stay away from the rotating propellers and motors.



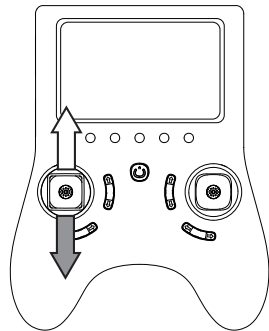
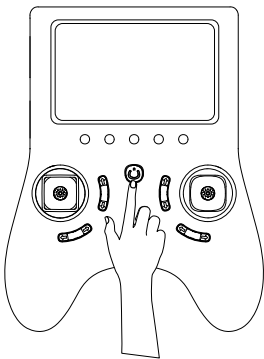
It's important to understand the basic flight guidelines for the sake of safety. Don't forget to read the basic flight and safety guidelines before flight.

- ⚠ • Rotating propellers can be dangerous. Do not start the motors when people are nearby.
- Always keep your hands on the transmitter as long as the motor is still spinning.

## Pair the Drone

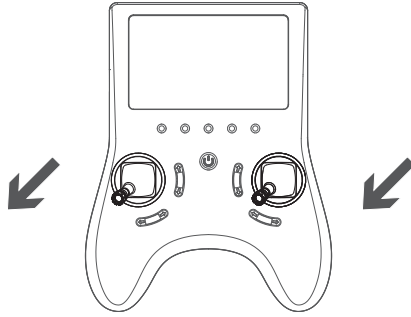


- ① Press the power switch button for 1 second to power on the drone, now, the LED indicator lights on the drone will be blinking. Then, place the drone on a flat and level surface with the head forward and the tail towards the pilot.



- ② Power on the transmitter.
- ③ Push left joystick up then down to pair the drone with the transmitter. The LED indicator lights on the drone will be solid if the drone is paired successfully.

## Calibrate the Gyro

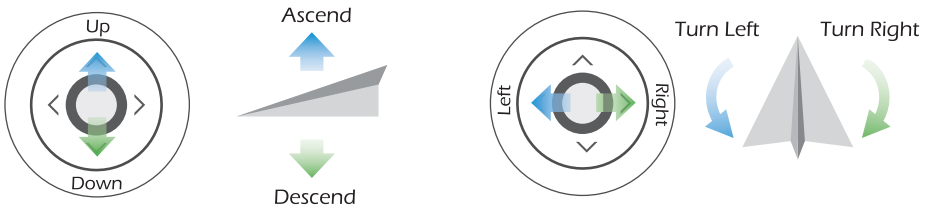


- ⑤ Push both joysticks down to the bottom left to calibrate the gyro. The LED lights on the drone will blink quickly and turn solid, and one beep will be heard from the transmitter, indicating calibration is completed.

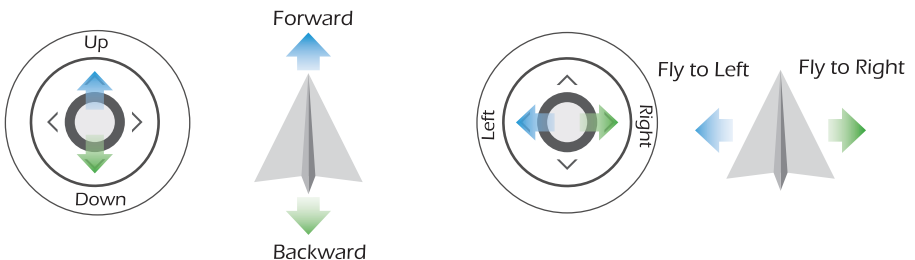
### Tips:

To ensure a stable flight, we suggest the pilot calibrate the gyro every time after pairing the drone and after a crash.

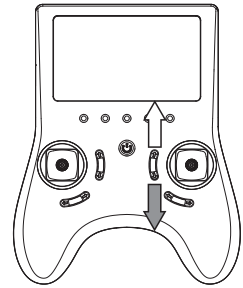
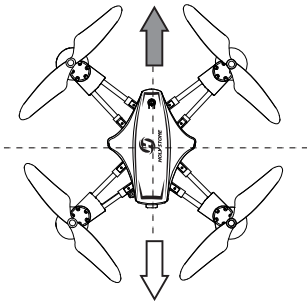
## Flight Control



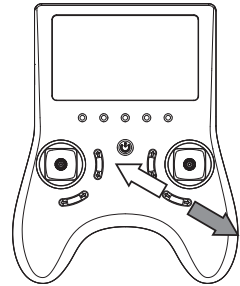
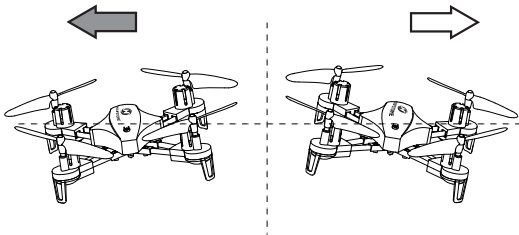
- ⑥ Throttle(Left) Joystick



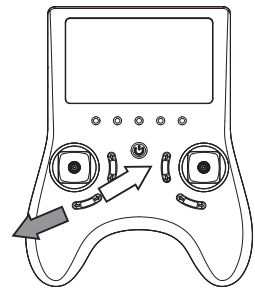
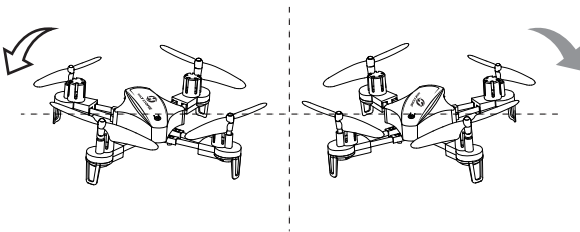
- ⑦ Direction(Right) Joystick



- ⑧ **F/B Sideward Fly Trim** : If the drone drifts forward, press the backward trimmer button to rebalance the drone; if the drone drifts backward, press the forward trimmer button to rebalance the drone.

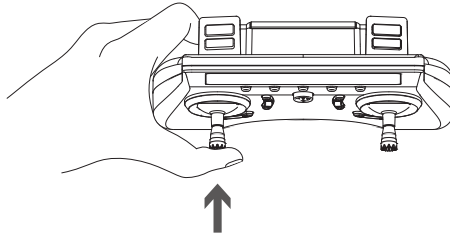


- ⑨ **L/R Sideward Fly Trim** : If the drone drifts left, press the right trimmer button to rebalance the drone; if the drone drifts to right, press the left trimmer button to rebalance the drone.



- ⑩ **Rotate to L/R Trim** : If the drone rotates to left, press the “Rotate to Right Trimmer” button to rebalance the drone; if the drone rotates to right, press the “Rotate to Left Trimmer” button to rebalance the drone.

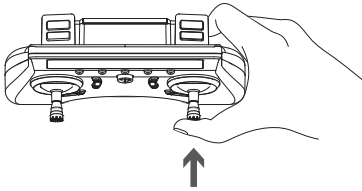
## <SPEED SWITCH>



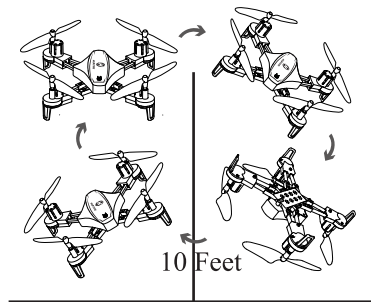
Speed Switch

This drone comes with 3 speed grade ( Low/ Medium/High). Press left joystick to switch speed. One beep from the transmitter indicates low speed, two beeps indicate medium speed, and three beeps indicate high speed.(Low speed is the default speed mode.)

## <FLIP MODE>



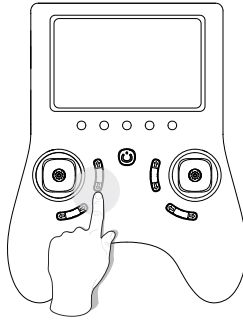
Flip Mode



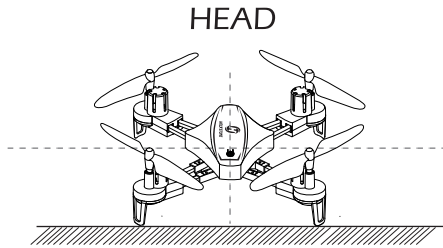
When you get familiar with all the functions of the drone, you can try it's amazing flip mode. When you fly the drone at least 10 feet, press the Right Joystick on the transmitter, then push the Right Joystick Forward/Backward or Left/Right, and the drone will do a flip towards the corresponding direction.

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

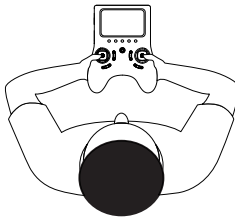
**!** Do not use the Headless Mode until you totally comprehend the Instructions For Use. Flying in Headless Mode without sufficient experience might result in loss or damage of the device.



Headless Mode Button

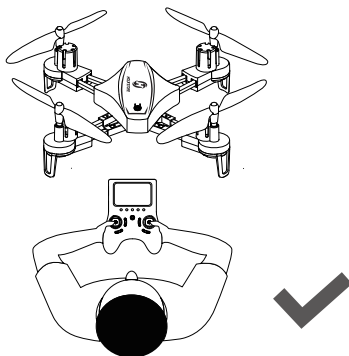


TAIL

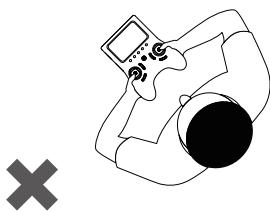


1. Place the drone in front of the pilot before pairing the drone to the transmitter. Make sure the head of the drone faces the same direction as the pilot, and the tail faces towards the pilot.

2. Push the left joystick up then down to pair the transmitter to the drone.
3. Press the Headless Mode button on the transmitter. A beep will be heard from the transmitter, and the lights on the drone will keep blinking. It means the drone is in Headless Mode.
4. Press the Headless Mode button again, and you will hear 2 beeps, which indicates the drone has left the Headless Mode.



The direction of transmitter when the drone is paired.



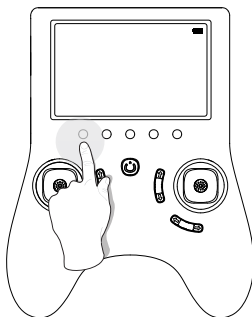
Don't turn your direction



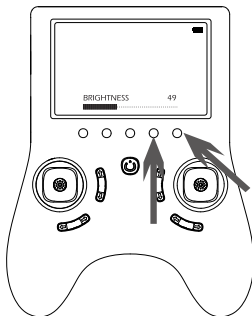
Don't turn your direction

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 forward; if the pilot pushes the right joystick backward, the drone will fly backward. If the pilot move the right joystick left or right, then the drone will also move left or right relative to the pilot. It is very important that the pilot does not change positions or the direction he or she is facing, because this will cause confusion to the drone.





1. This drone come with 5.8GHz FPV real-time video and image transmitter. After turning on the drone, long press the “Screen Power Switch” button to turn on the screen, the image will be transmitted and displayed on the screen.



2. Press the “Brightness +” or “Brightness -” button on the transmitter to adjust the brightness of the display.

**!** Please fly this drone in an open area, and **DO NOT** fly near strong electromagnetic sources such as power lines and base stations as it may affect the image transmission and quality.

THE PROBLEM	REASON	SOLUTION
The indicator lights on the drone are blinking and the drone does not respond to the transmitter.	1. Communication between the drone and transmitter is bad. 2. Battery power is low.	1. Refer to the preparation for flight and pairing again. 2. Charge the battery.
The propellers spin but the drone is unable to take off.	1. The propellers are assembled in wrong orientation. 2. The propellers are distorted.	1. Replace the propellers according to the instruction on page 10. 2. Replace the propellers
The drone shakes hardly.	The propellers are distorted.	Replace the propellers.
The trim buttons fail to keep the drone balanced.	1. The propellers are distorted. 2. Motors doesn't work properly.	1. Replace the propellers. 2. Replace the motor.
The drone becomes out of control after crashes.	Gyro sensor loses its balance after crashing.	Recalibrate the gyro.

Please do not hesitate to contact us if you need further support.



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ca@holystone.com (CA)   jp@holystone.com (JP)



1(855) 888-6699

# GENERAL INFORMATION

FCC Notice:

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 approval LiPo charger the battery. Always use a balancing charger for LiPo cells or a LiPo cell balancer. It is recommended that you do not to 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 RF Power(EIRP): -22.75dBm(2404MHz ~ 2480MHz)

### 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 form 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 four axis series

Model : HS230

The Statement of compliance is available at the following address:  
[http://www.holystone.com/Download/CE/HS230\\_EU\\_DOC.pdf](http://www.holystone.com/Download/CE/HS230_EU_DOC.pdf)

This product can be used across EU member states.

### MANUFACTURER INFORMATION

Manufactured by

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**Made in China**