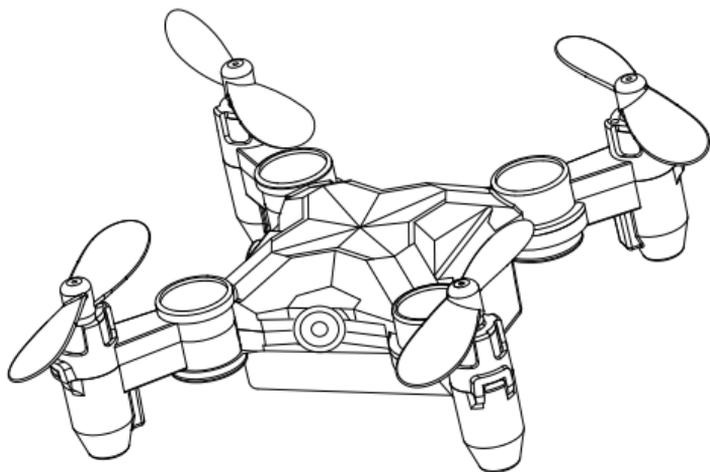




Instructions For Use

V4.0



HS190

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Contents

1.0 Disclaimer & Warning	01
2.0 Safety Guidelines	01
3.0 Maintenance	05
4.0 Package Contents	06
5.0 Drone Details	07
6.0 Assemble the Propeller Guards	07
7.0 Install the Drone Battery	08
8.0 Transmitter Details	09
9.0 Charging.....	10
10.0 FLY	
Pairing	11
Calibrate the Gyro	12
Unlocking the Motors	13
One Key Takeoff.....	13
One Key Landing	14
11.0 Functions Details	
Joystick Mode.....	14
Emergency Stop.....	15
Trimmer.....	15
High-Speed Rotation	17
Speed Switch	17
360° Flip.....	18
One Key Return.....	19
Headless Mode.....	20
Circle Fly	22
Altitude-hold Function.....	22
12.0 Trouble Shooting	23
13.0 Specifications.....	24
14.0 Contact Us	25
15.0 General Information	26

1.0 DISCLAIMER & WARNING

① Please read this Disclaimer & Warning and Safety Guidelines carefully before using our product. You now agree to this disclaimer and signify that you have read it thoroughly by using this product. You agree that you are responsible for your conduct, any damage caused while using this product, and any consequence. You agree to only use this product for its designed purposes and under the local laws, regulations, and applicable policies and guidelines that HolyStone may provide.

② When using this product, please strictly abide by the specification requirements and safety guidelines stated in this document. Any personal injury, property damage, legal disputes, and other adverse events caused by violating any safety instructions or due to any other factor WILL NOT be HolyStone's responsibility.

2.0 SAFETY GUIDELINES

2.1 Check Before Use

① This product is a high-precision drone that integrates various electronic stability and control mechanisms. Please be sure to configure this drone carefully and correctly to ensure safe, accident-free operation.

② Ensure that the batteries of the drone and transmitter are clean, undamaged, and fully charged before every use.

③ Ensure that all the propellers are intact and are installed in the correct orientation.

④ Please perform a thorough check of the product before each use. Inspect the integrity of the parts, any signs of cracks and wear off on the propellers, battery power and effectiveness of the indicator, etc. If there is any problem found after checking the drone, please refrain from using it until the problem is resolved.

2.2 Flight Environment



+



+



Fly in Open Areas

Keep in Sight

**Fly Below
98feet (30m)**



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

DO NOT fly near strong electromagnetic sources such as power lines and base stations, affecting the onboard compass.



DO NOT use this drone in adverse weather conditions like rain, snow, fog, and wind.

2.3 Operation Requirements

- ① DO NOT use this product to follow any moving vehicles.
- ② During the flight, turn off the motors only in an emergency.
- ③ When the battery runs low, return the drone to your starting point.
- ④ DO NOT use this product if you feel tired, take medicine or feel unwell and drink alcohol.
- ⑤ Be aware of the volume of noise that the drone produces. Please ensure to keep your distance to avoid ear damage.
- ⑥ To ensure safety and airworthiness, refrain from attaching any unauthorized items or devices to the aircraft.



- ⑦ **Stay away from the rotating propellers and motors.**



- ⑧ **DO NOT fly in any spaces where drones are prohibited. Please respect people's right to privacy by not flying your drone close to others.**

2.4 Use of Battery

- ① Please ensure batteries are fitted in the correct orientation as shown in the instruction manual.
- ② Avoid short circuits by fitting the batteries correctly and do not crush or squeeze the batteries as this could cause the risk of a fire or explosion.
- ③ DO NOT mix new and old batteries as this can lead to poor performance of the product.
- ④ Please dispose of used batteries carefully, do not litter, and recycle where ever possible.
- ⑤ DO NOT expose dead batteries to heat or fire, or they may explode.
- ⑥ If the device is not going to be used for an extended period of time, please remove batteries to prevent potential damage to the drone from battery leakage.

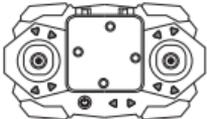
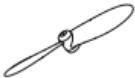
- ⑦ Only use the USB charging cable that comes with the drone to charge the battery.
- ⑧ DO NOT connect the battery directly to wall outlets or car cigarette-lighter sockets will damage your battery since they have different voltages.
- ⑨ DO NOT attempt to disassemble or modify the battery in any way
- ⑩ DO NOT use the battery if it gives off an odor, generates heat, becomes discolored, deformed, or appears abnormal in any way. If any of these situations occur while the battery is in use or being charged, remove it from the device or charger immediately and discontinue use.
- ⑪ DO NOT pierce the battery casing with a nail or any other sharp object. Break it open with a hammer, or step on it! Dispose or recycle this battery as it may cause personal injury or damage to your drone.
- ⑫ Always charge the batteries on a fireproof surface and away from combustible materials. DO NOT charge on surfaces that can catch fire, including wood, cloth, and carpet.
- ⑬ DO NOT immerse the battery in water or get it wet.
- ⑭ DO NOT solder battery terminal in any way.
- ⑮ Keep batteries out of reach of children or pets.
- ⑯ DO NOT short-circuit the battery by connecting wires or other metal objects to the positive(+) and negative(-) terminals.
- ⑰ It is imperative to use only the batteries and charging devices sold or authorized by our company. Employing unauthorized batteries or charging apparatuses may result in serious hazards such as fire, explosion, leakage, among others. We will not be held accountable for any repercussions arising from the utilization of third-party batteries or charging devices.

	<p>Li-Po Battery Disposal & Recycling</p> <p>Waste Lithium-polymer batteries must not be placed with household trash. Please contact local environmental or waste agency or the waste agency or the supplier of your model or your nearest Li-Po battery recycling center.</p>	
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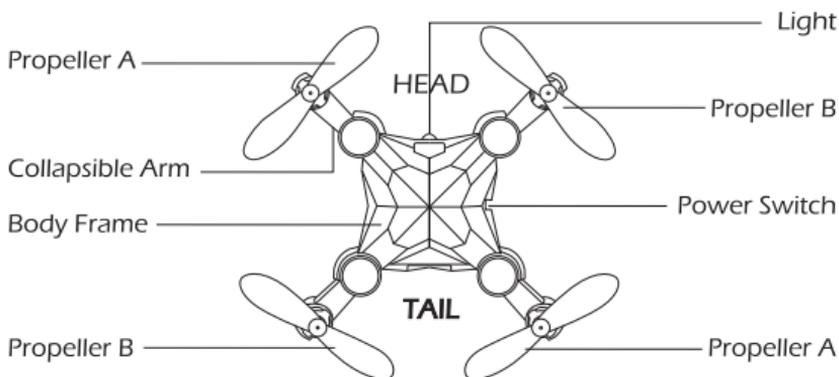
3.0 MAINTENANCE

- ① Clean the drone after each use with a clean, soft cloth.
- ② Avoid prolonged exposure to direct sunlight and avoid heat buildup on the drone or batteries.
- ③ This device is not waterproof and must not be submerged or subjected to water under any circumstance. Failure to keep the device completely dry will result in failure and permanent damage to the unit. Be aware that although it might be dry where you are, droplets of rain or mist from a river or waterfall could damage your drone where it is flying.
- ④ Frequently check the charging plug and other accessories for signs of damage. If any part of the device or cables is damaged, avoid use or charging until the damaged parts are replaced.

4.0 PACKAGE CONTENTS

		
<p>Drone</p>	<p>Transmitter</p>	<p>Drone Battery</p>
		
<p>Charger Hub</p>	<p>Propeller</p>	<p>Propeller Spanner</p>
		
<p>Propeller Guard</p>	<p>Screwdriver</p>	<p>Instructions For Use</p>

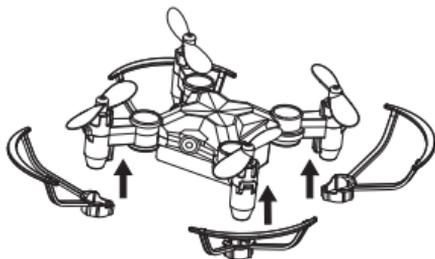
5.0 DRONE DETAILS



Attention: Pay attention to the “A” or “B” printed on each propeller. The drone will not fly unless the correct propeller is installed on the correct motor shaft.

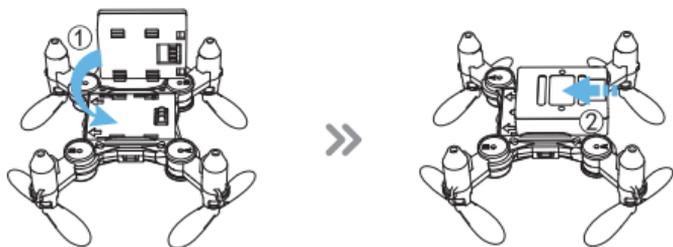
6.0 INSTALL THE PROPELLER GUARDS

Since the speed of this drone is very fast, we suggest the pilot install the propeller guards before flying. Please install the propeller guards according to the diagrams below.



Install the propeller guards to the motor base.

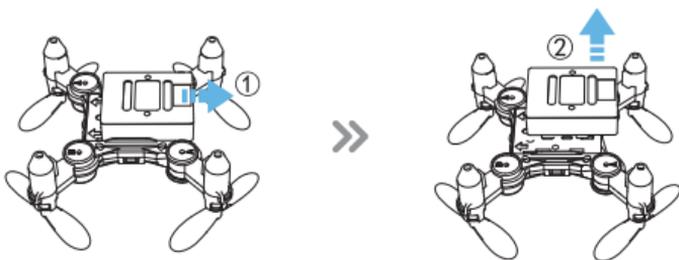
7.0 INSTALL THE DRONE BATTERY



Installation: Install the battery to the buckle on the back of the drone (in the direction shown by the arrow in fig. 1) and push the battery into the charger hub (in the direction shown by the arrow in fig. 2) until you hear a click, indicating the battery is installed.

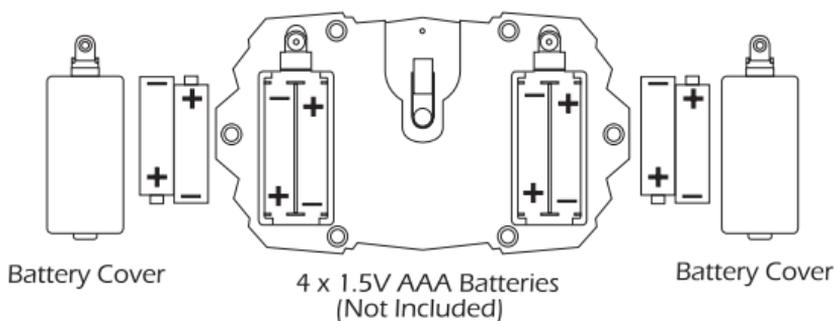
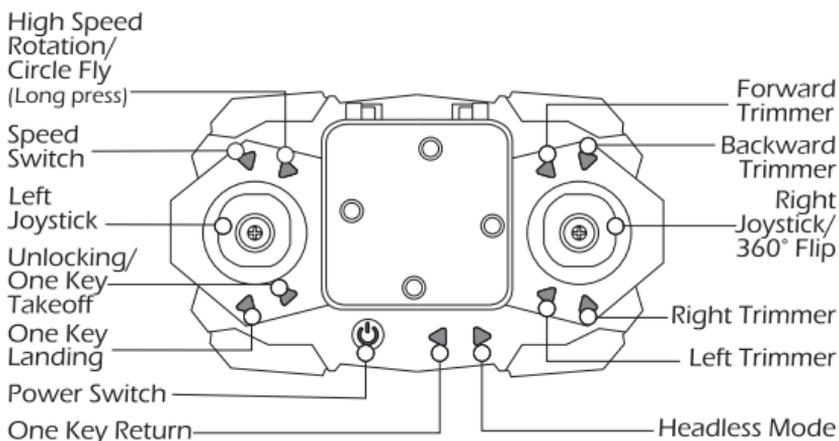


The battery should be installed firmly. Otherwise, the flight safety of your drone may be affected. The drone may crash due to a power cut during the flight.



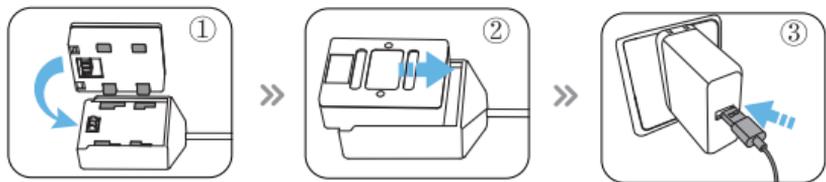
Removal: To remove the battery, first push the battery (in the direction shown by the arrow in fig. 1) out of the fuselage, then slowly pull it up (in the direction shown by the arrow in fig. 2).

8.0 TRANSMITTER DETAILS



⚠ When installing the batteries, please pay attention to the positive and negative polarity of the battery to ensure the correct installation of the batteries.

9.0 CHARGING



- ① Install the battery to the buckle on the Charger Hub. (in the direction shown by the arrow in fig. 1)
- ② Push the battery into the charger hub (in the direction shown by the arrow in fig. 2) until you hear a click.
- ③ Connect the Charger Hub to a USB adapter (5V/1A).
- ④ Charging time: about 60 minutes.
- ⑤ The red indicator light on the Charger Hub will turn on when the battery is charging, and will turn off when the battery is fully charged.



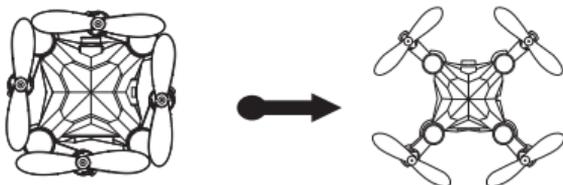
- Before charging, please read the instructions in the “Use of Battery” section of the “Safety Guidelines” carefully!
- Please use the original charger Hub to charge the battery.
- DO NOT charge the drone battery immediately after a flight as the temperature of the battery may be too high. Please wait until it cools down to room temperature before charging again.

10.0 FLY



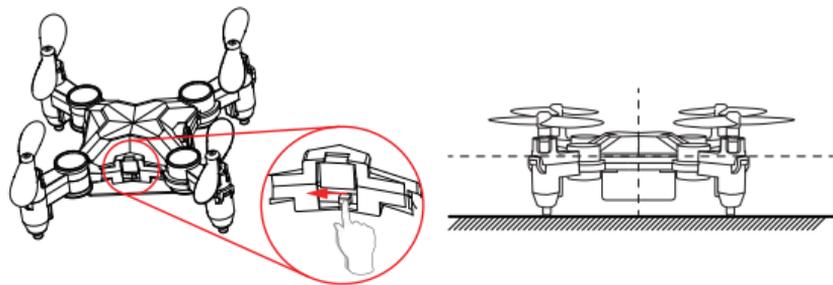
- Rotating propellers can be dangerous. Do not start the motors when there are people nearby.
- Always keep your hands on the transmitter so long as the motor is still spinning.

Before Flight

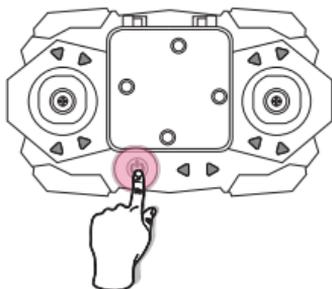


Please unfold the collapsible arms before the flight.

10.1 Pairing

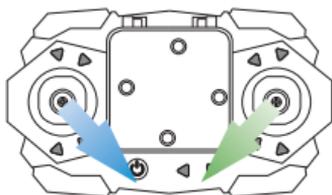


① First, slide the Power Switch button left to turn on the drone. Then, place the drone on a flat and level surface with the head facing forward and the tail facing towards the pilot.



② Then, turn on the Transmitter. One second later, one beep will be heard, and the drone's indicator lights will start flashing and then turn solid, indicating that the drone and the transmitter have been paired successfully and automatically.

10.2 Calibrate the Gyro

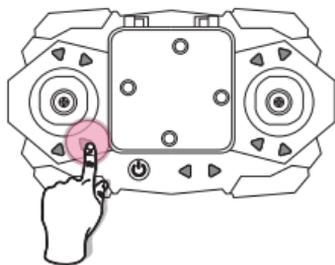


After pairing, push the left joystick down to the bottom right and the right joystick down to the bottom left at the same time.

A beep sound will be heard from the transmitter, and the indicator lights of the drone will blink, then turn solid, indicating that the calibration is completed.

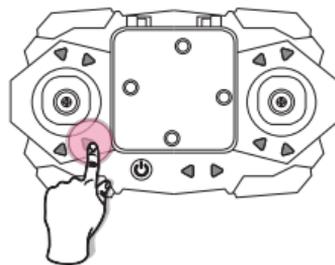
 **To ensure a stable flight, we suggest that the pilot calibrate the gyro after pairing the drone or after a crash. And please do NOT calibrate the gyro while flying.**

10.3 Unlocking the Motors



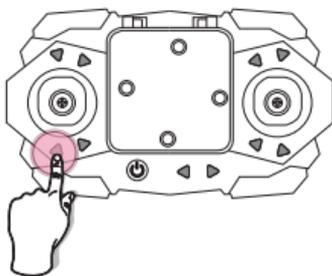
After pairing or calibration, press the Unlocking button to unlock the motors. The propellers will start spinning.

10.4 One Key Takeoff



After unlocking, press the One Key Takeoff button, the drone will take off automatically. Or push the left joystick up slowly to take off and ascend the drone.

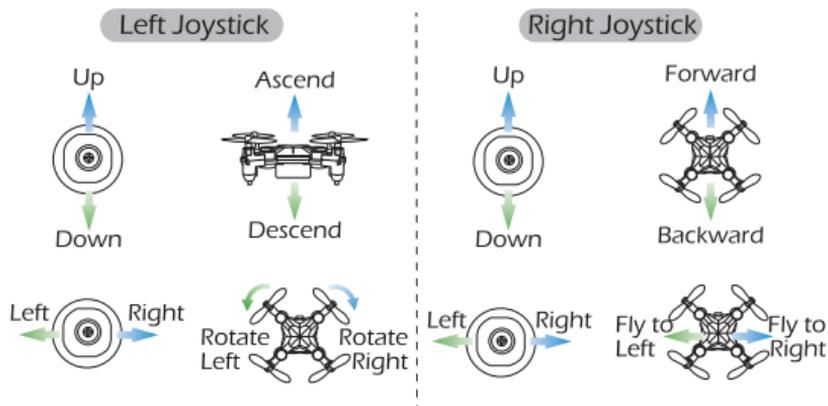
10.5 One Key Landing



Press the One Key Landing button during the flight, the drone will land automatically.

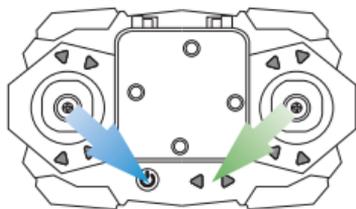
11.0 FUNCTIONS DETAILS

11.1 Joystick Mode



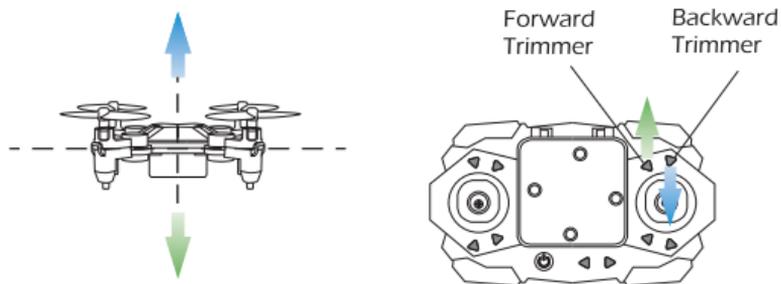
11.2 Emergency Stop

 The Emergency Stop function should only be used in an emergency during the flight to avoid any damage or injury.

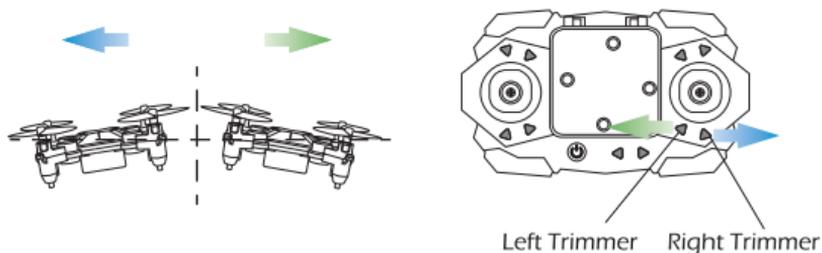


As shown above, push the left joystick down to the bottom right and the right joystick down to the bottom left at the same time. The motors will stop immediately. Be aware that you risk breakage of the drone if it falls a considerable distance or hits anything at a high rate of speed.

11.3 Trimmer



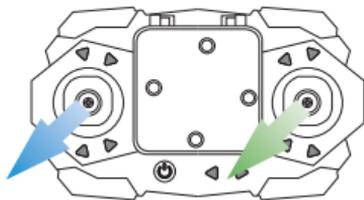
F/B Sideways Drift Trim: When the drone drifts forward, press the backward trimmer button to rebalance the drone; if the drone drifts backward, press the forward trimmer button to rebalance the drone.



L/R Sideways Drift Trim: When the drone drifts to the 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.

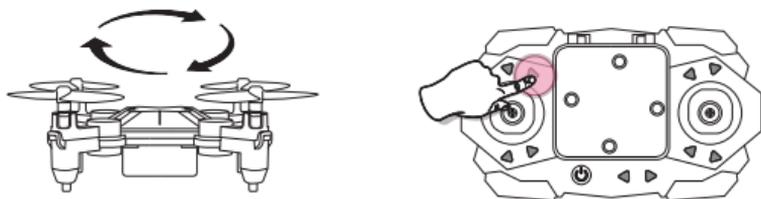


When the drone loses balance, calibration and the trim buttons don't work, we suggest the pilot try to reset the drone's trimmer data.



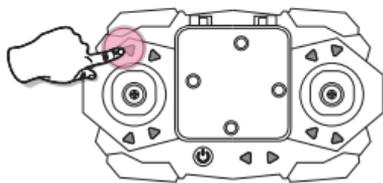
Push both joysticks down to the bottom left simultaneously, then the drone's lights will blink and turn solid, indicating the drone's trimmer data is reset. (This step can only be done before the drone takes off)

11.4 High-Speed Rotation



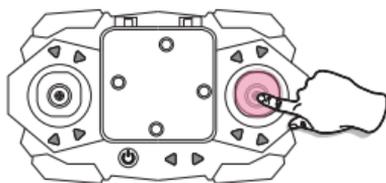
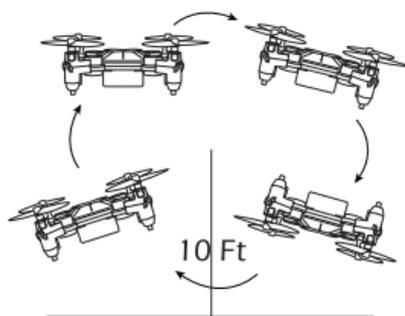
Short press the High-Speed Rotation button during the flight, the transmitter will make a "Di" sound, which indicates that the drone enters the High-Speed Rotation function. You can press the same button again will exit the High-Speed Rotation function.

11.5 Speed Switch



This drone comes with 3 speed modes (Low/Medium/High). As shown above, press the Speed Switch button on Transmitter to switch the speed mode. The transmitter sends out a "Di" sound that indicates Low Speed, a "DiDi" sound indicates Medium Speed, and a "DiDiDi" sound indicates High Speed. **(Low speed will be default mode!)**

11.6 360° Flip

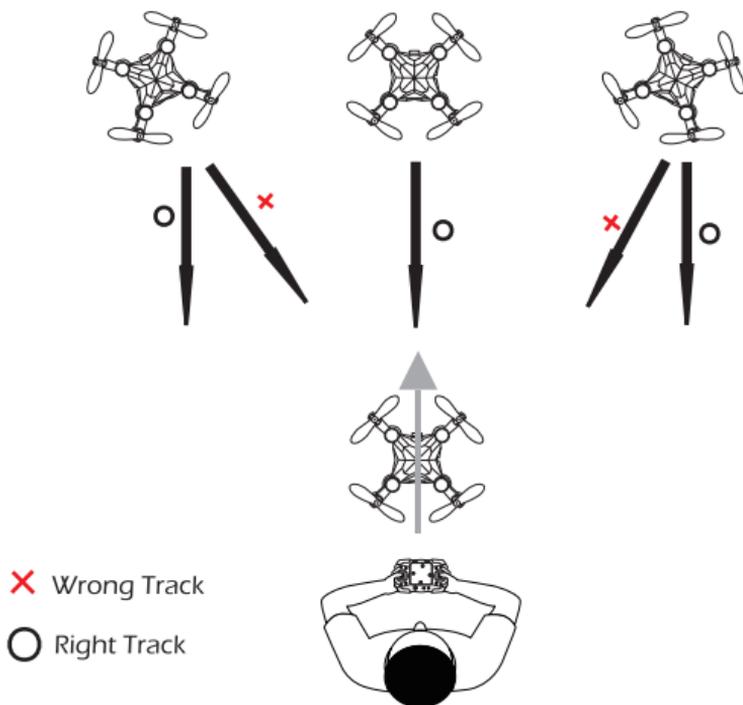


When you get familiar with all the drone's functions, you can try this fantastic flip mode. When you fly the drone at least 10 ft, press in the Right Joystick on the transmitter, then push the right joystick Forward/Backward or Left/Right, and the drone will do a flip towards the corresponding direction.

 This function will perform better when the battery is fully charged. If you do not operate after entering the 360° Flip, short press the right joystick again to exit the 360° Flip.

11.7 One Key Return

 Please avoid using this function when the drone is near the pilot. Otherwise, it may cause injury.

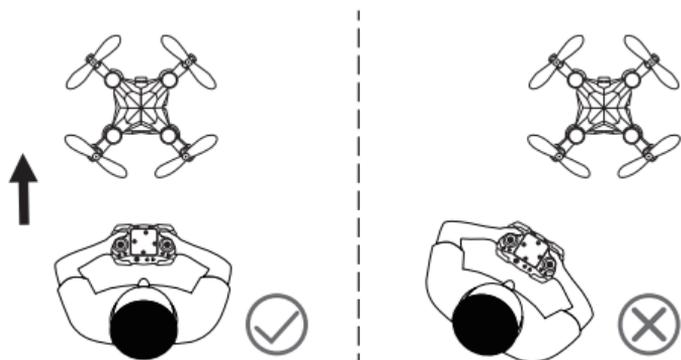


The pilot should stay facing the same direction that the drone's head points to when it takes off.

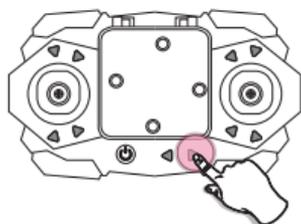
After pressing the One Key Return button, the drone will start flying backward. It will fly toward the direction its tail points to when it took off. You can press the One Key Return button again to retake control of the drone and cancel the One Key Return Function.

11.8 Headless Mode

The Headless Mode is a great training tool for beginner pilots. It is also useful when the drone is too far from the pilot (which makes it difficult to tell its orientation). It keeps the drone traveling forward, backward, left, or right when you move the right joystick in those directions, regardless of which way the front of the head of the drone points to.



The pilot should stay facing the same direction that the drone's head points to when it takes off.



Entering: Press the Headless Mode button to enter the Headless Mode function. The transmitter will beep once, and the drone's lights will start blinking constantly.

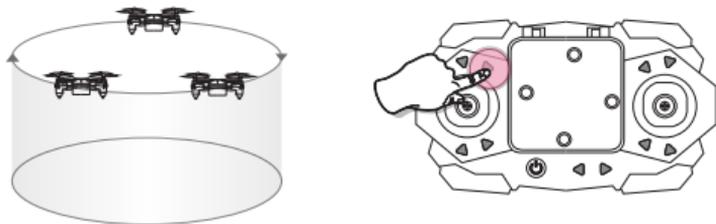
Exiting: Press the Headless Mode button again, the drone's light will turn solid, which indicates the drone exits the Headless Mode.

*** Why is the orientation of the drone important?**

In normal flying mode, the control of the drone movement can sometimes be counter-intuitive for beginners. For instance, when the drone is in the air with its head pointing to your right, if you push the right joystick forward, the drone will fly to your right, instead of flying forward.

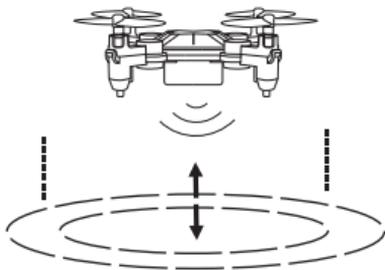
With the headless mode, the drone has a fixed "head." In Headless Mode, the drone always remembers the side its head points to during takeoff as the front side. This means that if the drone takes off with its head pointing forward, it doesn't matter how the drone is oriented in the air, when you push the right joystick forward, the drone will fly forward. Or, when its head is pointing to you, if you push the right joystick to the left, the drone will fly to your left.

11.9 Circle Fly



Press and hold the Circle Fly button for about 3 seconds, the drone will enter the Circle Fly mode. Exit the Circle Fly mode by long pressing the same button again or pushing the right joystick in any direction.

11.10 Altitude-hold Function



The drone is designed with an altitude-hold function to maintain its altitude after releasing the left joystick. (The left joystick will automatically spring back to the middle)

12.0 TROUBLE SHOOTING

THE PROBLEMS	REASONS	SOLUTIONS
The indicator lights of the drone are flashing and do not respond to the transmitter.	<ol style="list-style-type: none"> 1. The transmitter is not synced to the drone. 2. Insufficient battery power. 	<ol style="list-style-type: none"> 1. Refer to the preparation for FLIGHT and pair again. 2. Recharge the battery.
The propellers spin, but the drone cannot take off.	<ol style="list-style-type: none"> 1. Insufficient battery power. 2. The propellers are installed in the wrong orientation. 3. The propellers are distorted. 	<ol style="list-style-type: none"> 1. Recharge the battery. 2. Install the propellers in the right orientation. 3. Replace the propellers.
The drone sways sharply.	The propellers are distorted.	Replace the propellers.
The drone cannot stay balanced in flight.	<ol style="list-style-type: none"> 1. The propellers are distorted. 2. The motor doesn't work properly. 	<ol style="list-style-type: none"> 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.

13.0 SPECIFICATIONS

DRONE

Model: HS190

Weight: 25.8g/0.91oz

Flight Time: 9 minutes (in a windless environment)

Motor Model: 615

Operating Temperature Range: 32° to 104°F

Dimensions: 95*62*30mm(Unfolded)

52*51*30mm(Folded)

TRANSMITTER

Operating Frequency: 2452-2474MHz

Max transmission distance: 30m(Outdoor And Unobstructed)

Battery: 1.5V AAA Battery (not Included)

Operating Temperature: 32° to 104° F

DRONE BATTERY

Capacity: 300 mAh

Voltage: 3.7 V

Battery Type: Lithium-ion Polymer Battery

Energy: 1.11Wh

Charging Temperature Range: 41° to 104°F

Charging Time: about 60 mins (Depending on Charging Power)

USB CHARGING CABLE

Input: 5V/1A

Rated Power: ≤5W

14.0 CONTACT US

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

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

 +1 (833) 766-4733

15.0 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, and
- (2) This device must accept any interference received, including interference that may cause undesired operation.

The Supplier's Declaration of Conformity is available at the following address:

https://www.holystone.com/Download/US/HS190_FCC_sDoC.pdf.

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-003 (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. mauvais fonctionnement de l'appareil. Cet appareil numérique de la classe B est conforme à la norme NMB-003 du Canada.

CAN NMB-003 (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 together with household waste.

Uncontrolled waste disposal may harm the environment or human health.

Please separate your device from other types of waste by recycling it responsibly.

This will help to foster the sustainable re-use of material resources.

We suggest you contact your retailer inquire at your local town hall or business store 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 may cause a fire, smoke, or explosion as well.

2. Always check the battery's condition before charging or using it.

3. Please replace the battery if the battery is dropped or has any peculiar smell, overheating, discoloration, deformation, or leakage.
4. Never use anything other than the approved LiPo Charger to charge the battery. Always use a balancing charger for LiPo cells or a LiPo cell balancer. It is recommended that you use the one provided with the product.
5. The battery temperature must never exceed 60°C (140°F); otherwise, the battery could be damaged or ignited.
6. Never charge the battery on a flammable surface, near flammable products, or inside a vehicle (It is better to place the battery on a non-flammable and non-conductive surface).
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 Li-Po 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 hazards.
11. Non-rechargeable batteries are not allowed to be recharged. Rechargeable batteries should be charged under adults' supervision.
12. DO NOT mix different types of batteries, including the new and used ones.
13. Batteries MUST be inserted with the correct polarity.
14. The supply terminals MUST not be short-circuited. Regular examination of transformer or battery charger for any damage to their cords, plugs, enclosures, and other parts MUST be done. If there is damage, 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 should only be connected to the equipment with the symbol Class II. 

EU RF Power(EIRP): <10 dBm (2452MHz ~ 2474 MHz)

Caution

1. The max operating of the EUT is 40°C. and shouldn't be lower than 0°C.
2. The device complies with RF specifications when the device is used at 0mm from your body.
3. Declaration of Conformity.

We, Xiamen Huoshiquan Import & Export CO.,LTD hereby, declare that the compliance of the essential requirements 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/Mark: HS190/HOLYSTONE

The Statement of compliance is available at the following address:

http://www.holystone.com/Download/CE/HS190_EU_DOC.pdf

This product can be used among EU member states.

MANUFACTURER INFORMATION

Manufactured by

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MADE IN CHINA(CN)

