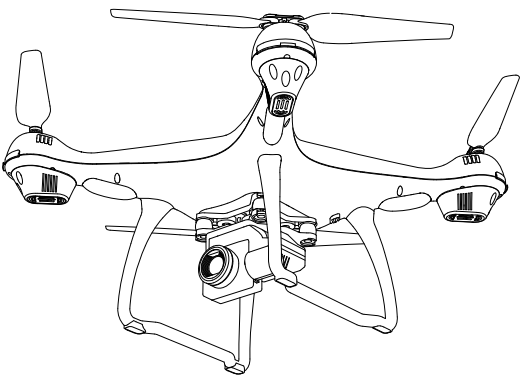
HOLY STONE

16+ age

Instructions For Use
Gebrauchsanweisung

V 1.0



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Contents

1.0 DISCLAIMER & WARNING

1. Please read this Disclaimer & Warning and Safety Guidelines carefully before using our product. This product is not recommended for people under the age of 16. By using this product, you hereby agree to this disclaimer and signify that you have read it fully. You agree that you are responsible for your own conduct and any damaged caused while using this product, and its consequences . You agree to use this product only for purposes that are proper and in accordance with local regulations, terms and all applicable polices and guidelines Holy Stone may make available.

2. When using this product, please be sure to strictly abide by the specification requirements and safety guidelines stated in this document. Any personal injury property damage, legal disputes and all other adverse events caused by the violation of the safety instructions or due to any other factor, WILL NOT be Holy Stone'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 setup this drone carefully and correctly to ensure safe, accident-free operation.

② Please be sure that the batteries of the drone and transmitter are clean, undamaged and, fully charged.

③ Please be sure that all the propellers are undamaged and are installed in the correct orientation.

④ Please do a thorough check of the product before each use. Inspect the integrity of the parts, any signs of cracks and wear of the propeller, battery power and effectiveness of the indicator, etc. If after doing a complete check any issues are found, please refrain from using the product until the issue has been resolved.

2.2 Flight Environment

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.

Don't use this drone in adverse weather conditions such as rain, snow, fog, and wind.

2.3 Operation Requirements

① Please don't use this product to follow any moving vehicles .

② During the flight, only turn off the motor in case of an emergency.

③ Please flight the drone back to you as soon as possible when the battery is running low.

④ This product should not be used while drinking alcohol, if you are feeling fatigued, taking medicine, or feeling any physical discomfort.

⑤ Beware of the noise volume the drone produces. Keep your distance to avoid ear damage.

⑥ Stay away from the rotating propellers and motors.

⑦ Don't fly in the No-Fly Zone.

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 incorrectly, and do not crush or squeeze the batteries as this could carry the risk of an explosion.

③ Do not mix new and old batteries as this can lead to a poor performance of the product.

④ Dispose used batteries carefully, do not litter.

⑤ Please keep dead batteries away from heat and fire.

⑥ If the device is not going to be used for an extended period of time, remove batteries to prevent potential damage from battery leakage.

⑦ It is recommended to only use the USB charging cable that comes with the drone to charge the battery.
⑧ Don't connect the battery directly to wall outlets or car cigarette -lighter sockets.
⑨ Don't attempt to disassemble or modify the battery in any way.
⑩ Don't use the battery if it gives off an odor, generates heat, becomes discolored or deformed,or appears abnormal in any way. If the battery is in use or being charged, remove it from the device or charger immediately and discontinue use.
⑪ Don't pierce the battery casing with a nail or other sharp object, break it open with a hammer, or step on it!
⑫ Always charge the batteries in a fireproof container and away from combustible materials. Don't charge on surfaces that can catch fire. This includes: wood, cloth, carpet, or in the application's device.
⑬ Don't immerse the battery in water or allow it to get wet.
⑭ Don't solder battery terminal directly.
⑮ Keep battery out of reach of children or pets.
⑯ Don't short-circuit the battery by connecting wires or other metal object to the positive(+) and negative(-) terminals.

Li-Po Battery Disposal & Recycling

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.

3.0 MAINTENANCE

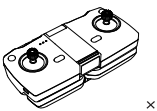
① Clean the product after each use with a clean, soft cloth.

② Avoid prolonged exposure to direct sunlight and avoid buildup of heat on the drone.

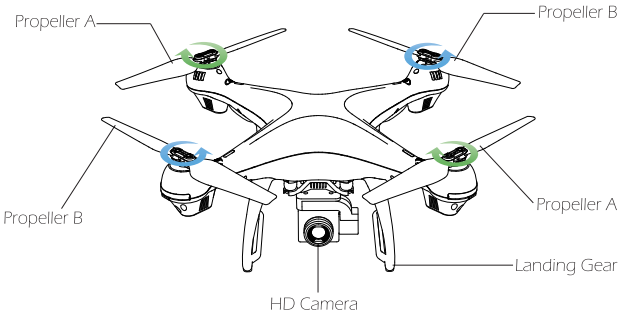
③ This device is not waterproof and must not be submerged in water under any circumstance. Failure to maintain the device completely dry will result in the failure of the unit.

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.

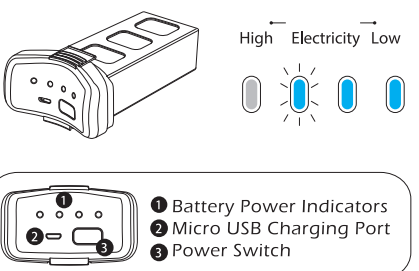
4.0 PACKAGE CONTENTS

 ×1	 ×1	 ×1
Drone	Transmitter	Drone Battery
 ×1	 ×4	 ×1
Camera	Propeller	USB Charging Cable
 ×2	 ×1	 ×4
Landing Gear	Screwdriver	Spare Screws
		
Instructions For Use		

5.0 DRONE'S DETAILS



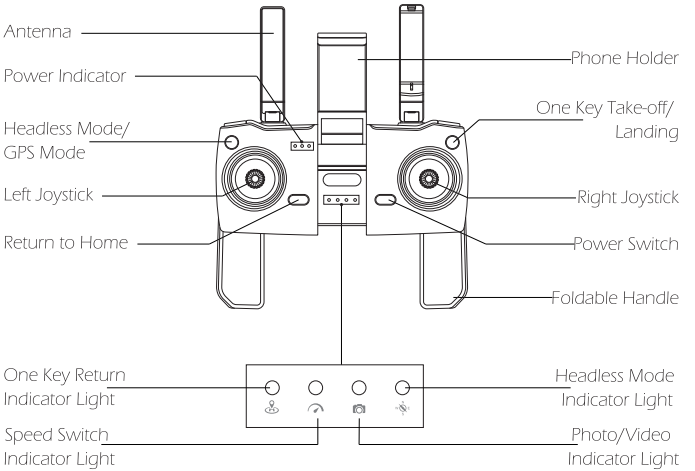
6.0 BATTERY OF DRONE

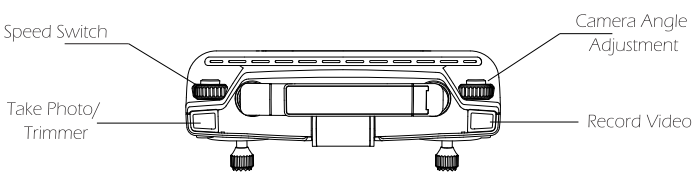


Press the Power Switch shortly to turn on. Hold the Power Switch for 2 seconds to turn off.

Tips: Once the battery is low, please fly the drone back as soon as possible. Otherwise, it may cause the drone loss.

7.0 TRANSMITTER DETAILS



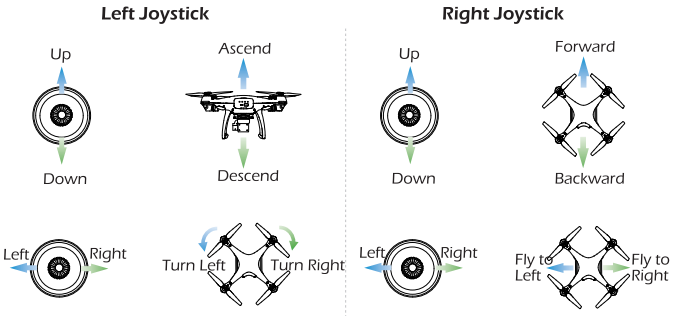


ATTENTION:

Press " ⏻ " shortly, then quickly press and hold " ⏻ " for about 2 seconds to turn off the power of the transmitter.

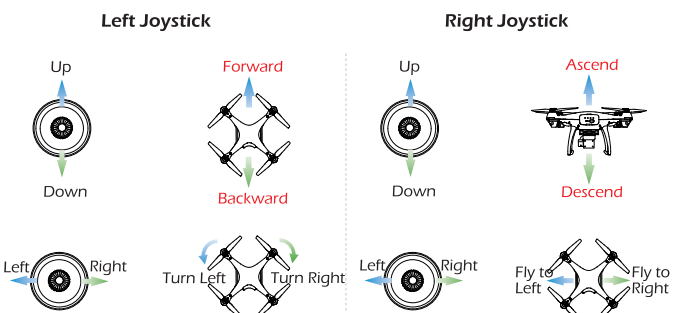
8.0 JOYSTICK MODE

8.1 MODE 2 (Left hand throttle MODE 2 will be default setting)



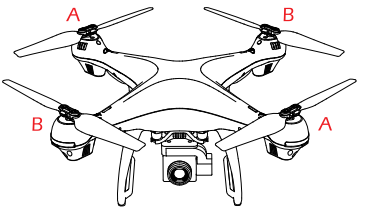
8.2 MODE 1

To enter MODE 1, turn on the transmittter while holding the "Take Photo / Trimmer" button. (Please do not release the "Take Photo / Trimmer " button until the transmitter is powered on.)

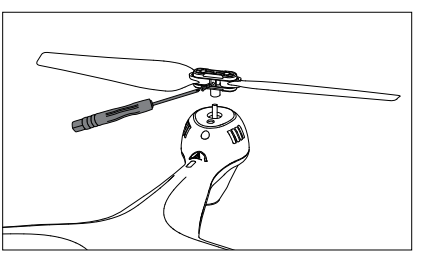


9.0 INSTALLATION

9.1 Propellers

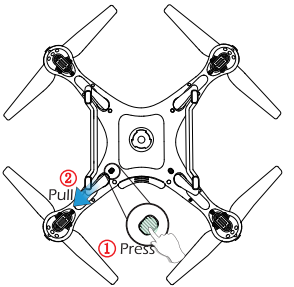


Please note that the letter "A" or "B" is printed on each propeller. Make sure all the propellers are attached in the correct motor position.

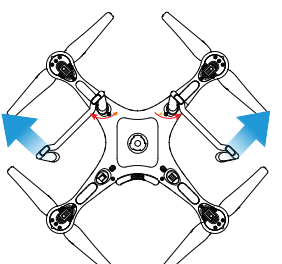


Use a screwdriver to twist and tighten the screws by pressing the clockwise direction.

9.2 Landing Gear

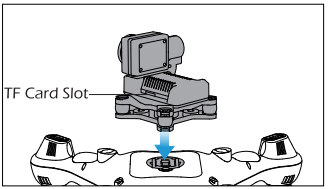


1) Letter "L" and "R" is printed on each side of a landing gear shell. "L" is the mark of the left landing gear as "R" is for the right landing gear.
2) There are two locks on the bottom. Press and hold down the lock, and pull the lock-side landing gear out.

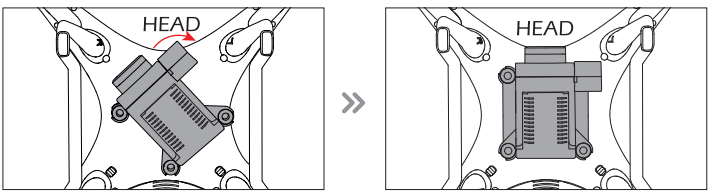


3) Rotate landing gears outside at angle of about 90 degrees to take the landing gear out.

9.3 Camera



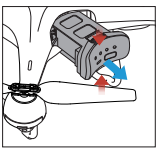
As shown above, install the camera into the camera mount at the bottom of the drone.



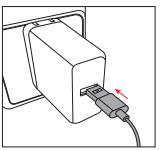
Rotate the camera clockwise to lock it according to the " " icon. You will hear a clicking sound when the camera is properly installed.

10.0 CHARGING

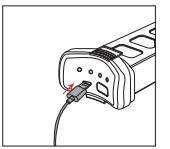
10.1 Drone Battery



Press the buckle and pull out the battery from the drone.



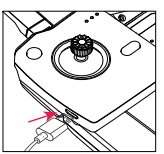
Phone adapter:
5V ⎓ 1A/2A
(Not included)



Charging time:
about 5 hours
(Depending on Charging Power)

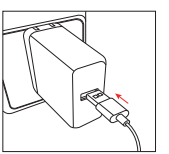
Connect the USB Charging Cable with the Battery, then, connect the USB Charging Cable to a computer or a USB adapter.

10.2 Transmitter Battery



Charging time of the transmitter: about 1 hour

(Charging) (Fully Charged)



Phone adapter:
5V ⎓ 1A/ 2A
(Not included)

Connect the USB charging cable with the transmitter, then, connect the USB charging cable to a computer or a USB adapter.

⚠ When the transmitter is in low power, the Power Indicator on the transmitter will blink constantly.

Before charging, please check the contents of the "Use of Battery" section of the "Safety Guidelines" carefully!

11.0 PREPARATION

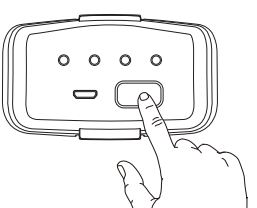
11.1 Download APP

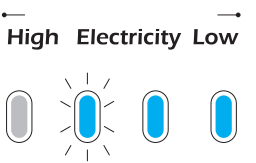
iOS

Google Play

Connect to the App Store™ or Google Play™ and download the "HS GPS PRO" application for free.

11.2 Check the Battery Level





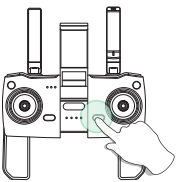
Press the Power Switch button to turn on and check the battery level.

12.0 OPERATION GUIDE

All of the following operations on this manual under MODE 2.

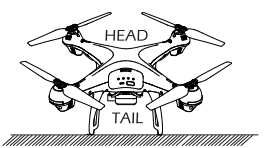
12.1 Pairing

① Power on the transmitter.

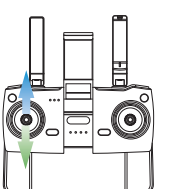


② Plug the battery into the drone and power on the drone.

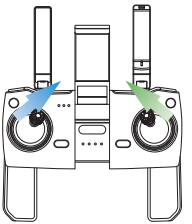
③ Place the drone on a flat and dry surface and in an unobstructed and light area.

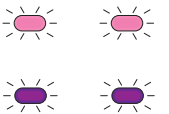


④ Push the left joystick up then down to pair with drone. The LED indicator lights on the drone is pink in front and purple in back if the drone is paired successfully.



12.2 Calibrating the Compass



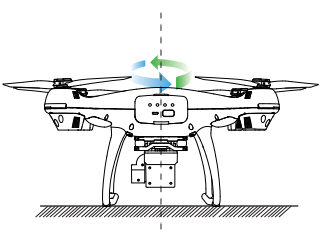


Step 1:

— Push Joysticks at 1 & 11 o'clock positions as shown by the picture above.

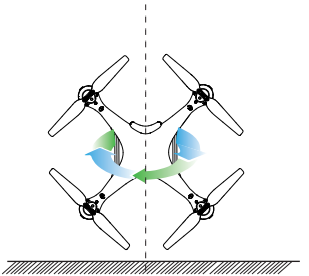
— The front Pink lights and the rear Purple light will flash rapidly .

— App Drone Status: "Compass calibration".



Step 2:

— Hold the drone horizontally; turn your body 360 degrees and the back lights will turn solid Purple.

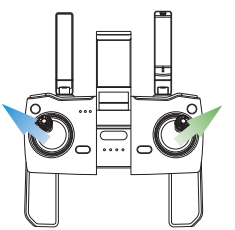


Step 3:

— Hold the drone vertically and spin your body 360 degrees. The front Pink lights and the rear Purple light will turn to solid.

Compass only need to calibrate when first fly the drone in a new area.

12.3 Calibrating the Gyro



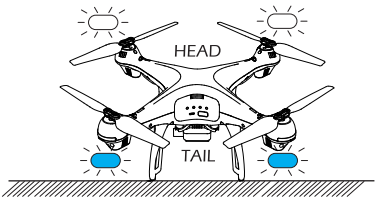
— Push the Joysticks at 11 & 1 o'clock positions as shown by the picture above.

— Lights will blink rapidly in both Blue (Back) and White (Front).

— App Drone Status: "Gyroscope is being calibrated" ➡ "Gyroscope okay".

Note: You can also calibrate the Drone if it does not stay on course correctly.

12.4 GPS Searching



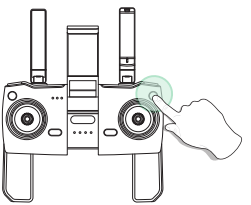
— Place the drone on a flat and dry surface and in an unobstructed and lit area.
— LED Flight Indicators will turn to blink Blue (Back) and White (Front). This means the drone is searching the GPS Signal.
This process can take a few minutes. App Drone Status: "Waiting for GPS signal".
Once the lights have turned all solid, GPS Mode is Ready. (Drone can only take off when it is connected to GPS successfully)
— Blue (back) and white (front) lights are all solid (no blinking).
— App Drone Status: "Ready to fly".

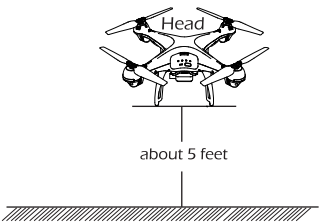
ATTENTION:

① If the LED Flight Indicators keep blinking quickly, it indicates drone is searching for GPS signals.
② If the drone keep blinking quickly after a few minutes, it indicates that the process has FAILED. Please taking the drone a meter or so from the ground,and repeat all the Compass Calibration operations until the process is successful.
③ If you fly indoors, please hold " ⊗ " button for 3 second to exit GPS Mode, and the LED lights will blink slowly. You can fly this drone when you complete the Compass Calibration operations if you exit GPS mode.

12.5 One Key Takeoff/ Landing

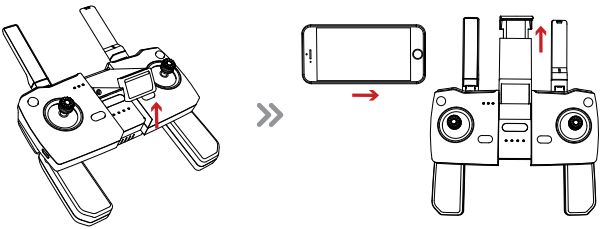
⚠ Rotating propellers can be dangerous. Do not start the motors when there are people nearby.





Press " ⏏ ", the propellers will spin and the drone will take off at an altitude of about 5 feet. (Always keep the head of drone facing forward).
Press " ⏏ " again, the drone will land automatically. Remember to always keep your hands on the transmitter as long as the motors are spinning.

12.6 Connect to Wi-Fi

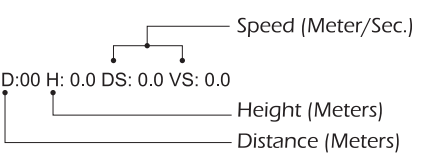


① As shown above, pull up the phone holder and lock the phone.
② Connect your smart phone to the Wi-Fi of the Drone and check the drone's status on the HS GPS PRO App.
③ On your smartphone, launch a search of the available Wi-Fi networks:
④ Select the Wi-Fi network: HolyStoneFPV-******.
⑤ Wait for your smartphone connect to the Wi-Fi network of the drone. This connection is generally represented by the Wi-Fi logo appearing on your smartphone's screen.
⑥ Enter the HS GPS PRO application.
> The connection between your smartphone and the Drone is established automatically.

13.0 FUNCTIONS DETAILS

13.1 APP Functions

	Return		Follow Me
	180° Screen Rotation		Return to Home
	Flight Record		VR Split Screen
	GPS Signal		Take Photo
	Transmitter Battery		Record Video
	Drone Battery		Gallery
	Setting		



13.2 Beginner's Mode

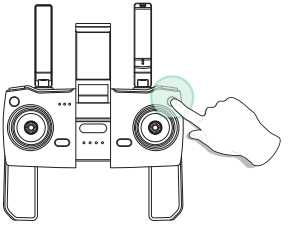
The Default GPS Mode is BEGINNER MODE, Under BEGINNER MODE:

1. Flight Distance is limited between 0-30 M/0-98.4 Feet.
2. Flight Altitude is limited between 0-30 M/0-98.4 Feet.
3. RTH Altitude is under 25 M/82 Feet.

You only can Turn-off the BEGINNER MODE to modify the parameters in the APP on your phone after you complete the Compass Calibration operations.

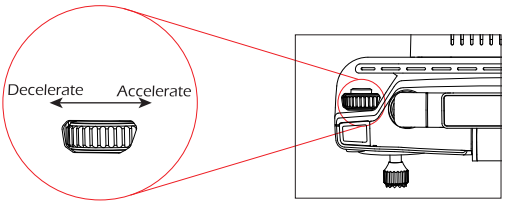
13.3 Emergency Stop

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



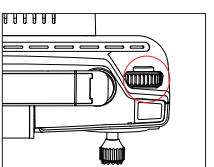
Long press One Key Takeoff / Landing button ( ) for 2 secs, the motors will stop immediately and the drone will fall directly.

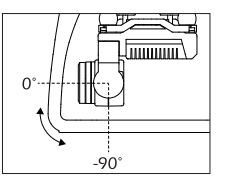
13.4 Speed Switch



This drone comes with 3 speed modes (Low/ Medium/ High). Dial the wheel (⊖SPEED⊕) to the right to accelerate. Dial to the left to decelerate.
If the Speed Indicator Light on the transmitter is turned off, it means the drone is in low speed. If the light is turned on, it means the drone is in medium speed. If the light is blinking, it means the drone is set to high speed.
(Medium Speed is default setting!)

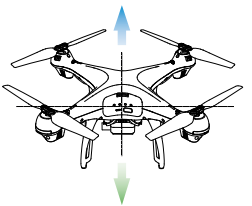
13.5 Camera Angle Adjustment

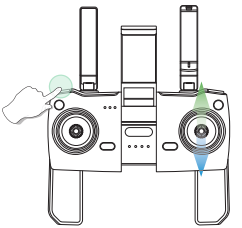




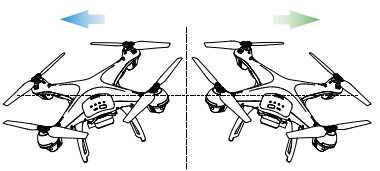
During the flight, you can dial the wheel (⇧ANGLE⇩) left / right to adjust the camera tilt up / down.
(The gimbal has an 90° tilt range.)

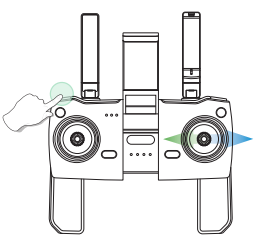
13.6 Trimmer Function (Trim under NO GPS Mode)





F/B Sideways Drift Trim : If the drone drifts forward, hold down the Trimmer button ( ) and do not release it while pushing the direction joystick down to balance the drone; If the drone drifts backwards, hold down the Trimmer button and do not release it while pushing the direction joystick up to balance the drone.

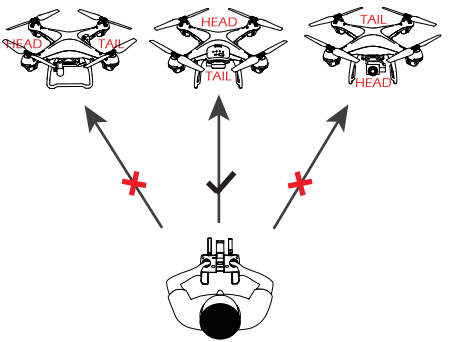




L/R Sideways Dip Trim: If the drone drifts left, hold down the Trimmer button ( ) and do not release it while pushing the direction joystick right to balance the drone; If the drone drifts right, hold down the Trimmer button and do not release it while pushing the direction joystick left to balance the drone.

13.7 Headless Mode

1. Press the Headless Mode button ( ) on the transmitter. A beep will be heard from the transmitter, and the Headless Mode Indicator on the transmitter lights up, indicating that the drone enters Headless Mode.
2. Press the Headless Mode button ( ) again, and you will hear one long beep, the Headless Mode Indicator on the transmitter is off which indicates the drone exits the Headless Mode.



Please make sure the pilot to stays in the same orientation as the drone head is facing when the drone takes off.

Under Headless Mode, the forward direction is the direction that the head of drone faces when the drone takes off.

In order to make sure the pilot can tell drone's direction, we recommend that pilots to stay in the same orientation as the drone head faces when the drone is taking off.

If so, when the pilot pushes the direction joystick forward/ backward, the drone will fly forward/ backward toward him/ her. If the pilot move the right stick left/ right, the drone will move left/ right relative to the pilot.

13.8 Return to Home (RTH)

The Return to Home (RTH) function brings the drone back to the last recorded Take-off Point. This function can only be achieved in GPS mode. There are three types of RTH:

Smart RTH / Low–Battery RTH / Failsafe RTH.

13.8.1 Smart Return To Home

Press the Return to Home button ( ) on your transmitter, and the transmitter will start beeping.

Your drone will return to the TAKE OFF Point. Press the button ( ) again to stop RTH procedure. Push the throttle joystick down to land the drone on a safe area.

13.8.2 Low-Battery RTH

Low-Battery RTH is triggered when the flight battery level is low, When Low-Battery RTH is activated, the drone will fly back to where you are from about 100 feet, and you can still control your drone. Push the throttle down to land the drone in a safe area. When the power of drone is completely empty, drone will return to the Take-off point where you set.

13.8.3 Failsafe RTH

Drone will enter Return to Home Mode if the signal between the drone and the transmitter lost. The drone will fly back to where you are from about 100 feet, and the drone will rebind to the transmitter by itself. When the drone flies back into your view, you can control it agian.

⚠ The drone is NOT equipped with obstacle-avoidance.

14.0 SPECIFICATIONS

DRONE

Model: HS100

Weight: 750g / 26.5oz

Flight Time: 18 minutes

Motor Model: 180

Operating Temperature Range: 32° to 104°F

Dimensions: 487*487*164 mm

DRONE BATTERY

Capacity: 3500 mAh

Voltage: 7.4 V

Battery Type: Li-Po

Energy: 25.90 Wh

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

Charging Time: about 5 hours (depends on charging power and remaining battery power)

TRANSMITTER

Operating Frequency: 2.4 GHz

MAX Transmission Distance: 1968 feet/600m (outdoor and unobstructed)

Battery: 3.7V 300mAh Li-Po battery

Operating Temperature Range: 32° to 104°F

CAMERA

Camera frequency: 5 GHz

Photo Resolution: 2048*1152P (stored in TF card)
2048*1152P (stored on mobile phone)

Video Resolution: 2048*1152P (stored in TF card)
1280*720P (stored on mobile phone)

Lens: FOV 120°

FPV Distance: 1312~1968 feet/400~600m (outdoor and unobstructed)

Photo: JPEG

Video: AVI / MP4

MAX Supported TF Cards: 32 GB (Not included)

Controllable Range: Pitch: -90° to 0°

Operating Temperature Range: 32° to 104°F

USB CHARGING CABLE

Voltage: 5 V

Rated Power: ≤10 W

15.0 TROUBLE SHOOTING

No.	Problem	Solution
1	When the drone is powered on, the indicator light keeps flashing rapidly.	The drone is in the gyroscope calibration state. Please place the drone on an flat and level surface.
2	The drone cannot hover after takeoff and tilts to one side.	Place the drone on a flat, level surface and repeat the gyro calibration.
3	The drone vibrated in flight.	The propeller are damaged. Please replace the new propeller.
4	The drone could not be unlocked and the rear light flashed.	The drone battery voltage is too low. Please fully charge the battery.

16.0 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)

+1(855) 888-6699

17.0 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.
(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 exem pts de licence L'exploitation est autorisée aux deux conditions suivantes:
1) l'appareil ne doit pas produire de brouillage; et
2) l'utillsateur de l'appareil doit accepterbrouillage radioélectrique subi meme si le brouillage est susceptible d'encompromettre le fonctionnement. mauvais fonctionnement de l'appareil. Cet appareil numériquie 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 lasource 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 hallto 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 odor, 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 charger on a flammable surface, near flammable products or inside a vehicle (perferably place the battery in a non-flammable and nonconductive 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): 10dBm (2413MHz ~ 2461 MHz) 

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 MODEL/RADIO CONTROLLED
Model/Mark : HS100/HOLYSTONE

The Statement of compliance is available at the following address:
http://www.holystone.com/Download/CE/HS100_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

FAA REGISTRATION: PLEASE FOLLOW ALL FEDERAL, STATE AND LOCAL FAA LAWS. YOU MAY BE REQUIRED TO REGISTER YOURSELF AND YOUR DRONE WITH THE FAA MORE INFO CAN BE FOUND AT: HTTPS://WWW FAA GOV/UAS/GETTING STARTED/

After receiving the certificate of registration, you must mark your **unique FAA registration number** on the Drone by any means, such as permanent marker, lable, engraving. This number must be readily accessible and maintained in a condition that is readable and legible upon close visual inspection

WARNING: Do **NOT** fly drone near airports or any other un-authorized areas. Follow all rules for Federal Aviation Administration (FAA) regulation summary for Small Unmanned Aircraft Systems (sUAS).

Read: Academy of Model Aeronautics (AMA) Know Before You Fly important information brochure.

Made in China