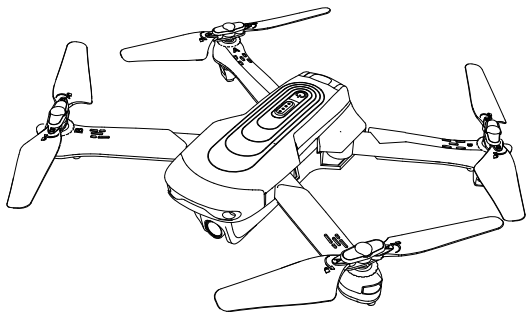# HOLY STONE

14+ age

Instructions For Use
Gebrauchsanweisung

V2.0

HS175

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✉ usa@holystone.com (USA)   eu@holystone.com (EU)
  ca@holystone.com (CA)

Contents

11.0 Functions Details

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 14. 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:

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.

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 As battery becomes low return the drone back to your starting point.

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 correctly, 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.
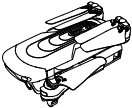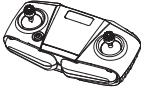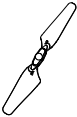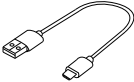
⑦ It is recommended to only use the USB charging cable that comes with the drone to charge the battery.

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	×2
Drone	Transmitter	Drone Battery
×2	×2	×1
Spare Propeller	USB Charging Cable	USB Charging Cable for Transmitter
×4	×1	
Propeller Guard	Instructions For Use	

5.0 DRONE'S DETAILS

Power Indicator

Propeller A

Power Switch

Propeller B

Propeller B

Propeller A

HD Camera

Optical Flow Lens

Drone Battery

6.0 TRANSMITTER DETAILS

Built-in Phone Holder

Take Photo

Record Video

Left Joystick

Power Switch

One Key Takeoff/ Landing

Lens Up

Lens Down

Right Joystick / Speed Switch

Folded Handle

Charging Port

Return to Home
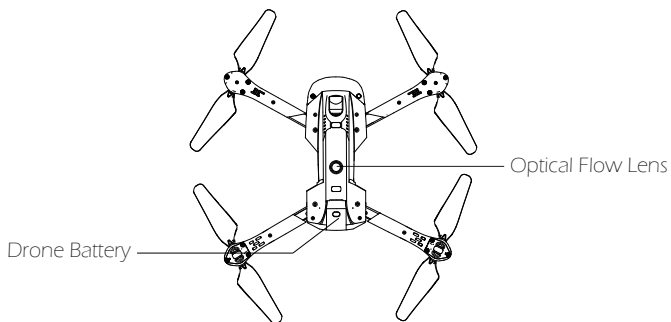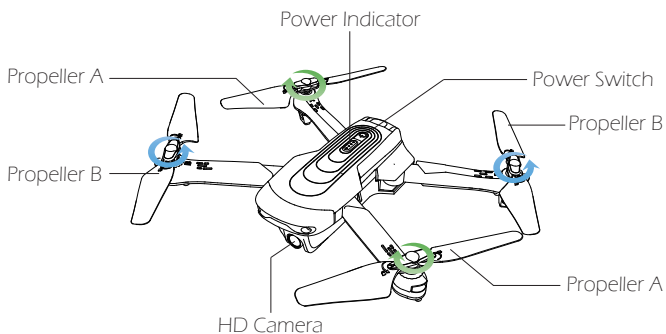
Calibrating the Compass
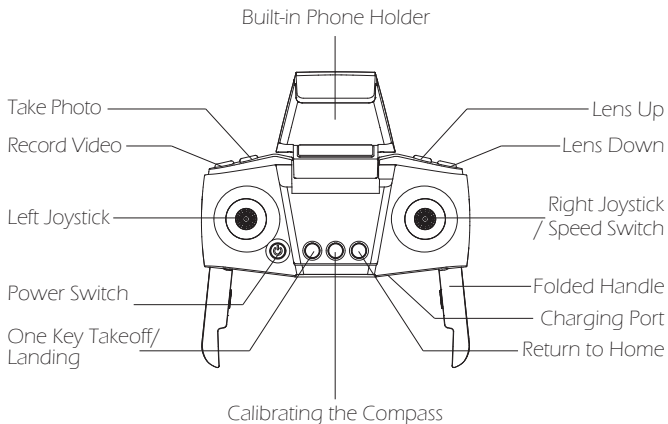
7.0 MODE SWITCH

7.1 MODE 2 *(Left hand throttle MODE 2 will be default setting.)*

Left Joystick

Up
Down

Ascend
Descend

Left — Right
Rotate Left — Rotate Right

Right Joystick

Up
Down

Forward
Backward

Left — Right
Fly to Left — Fly to Right

7.2 MODE 1

To enter MODE 1, turn on the transmitter while holding the "Record Video" button. *(Please do not release the "Record Video" button until the transmitter is powered on.)*

Left Joystick

Up
Down

Forward
Backward

Left — Right
Rotate Left — Rotate Right

Right Joystick

Up
Down

Ascend
Descend

Left — Right
Fly to Left — Fly to Right

8.0 INSTALLATION

8.1 Propellers
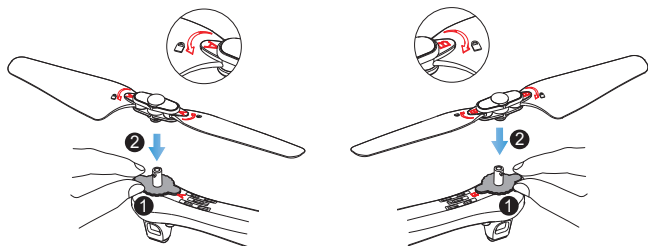
① Press and hold the knob on the motor shaft.

② Connect each propeller to its corresponding motor shaft, either position "A/B" , then rotate it to tighten the propeller as shown on the " 🔒 " icon on the propeller.

- -

8.2 TF Card
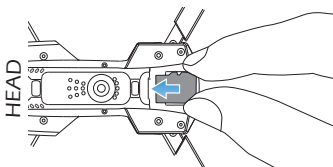
To store your photos and videos, insert the TF card (not included) into the slot as shown above before turning on the drone. The drone supports TF card up to 64 GB.

HOLY
STONE
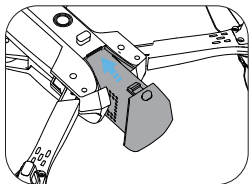
8.3 Drone Battery

Pic 1
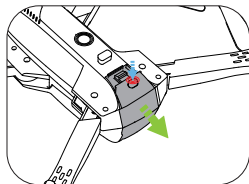
Pic 2

Installation: *Push the battery correctly into the drone battery compartment. Make sure that you hear a click sound indicating the battery is firmly installed.* **(Pic 1)**

Removal: *Press the lock button on the battery and pull it back to remove the battery from the fuselage.* **(Pic 2)**

Attention:

The battery should be installed firmly, failure to do so may affect the flight safety of your drone. The drone may crash due to power-cut during the flight.

8.4 Propeller Guard
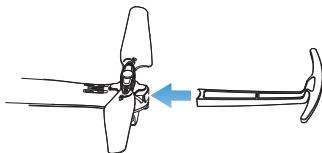
As shown in the picture, install the propeller guard to the motor base.

9.0 CHARGING

9.1 Drone Battery

USB Adapter
(5V/2.0A)

Battery   USB charging cable

Power Bank
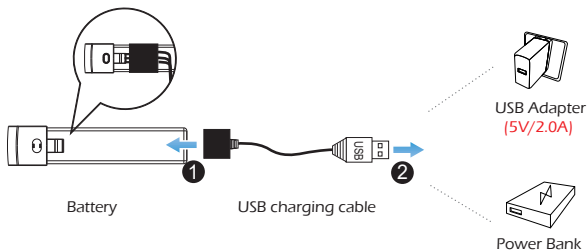
1) When the drone battery runs low, the indicator lights on the drone will flashes continuously.

2) Remove the battery and connect the USB charging cable to the battery charging interface.

3) Plug the USB charging cable into a USB charging port on the computer, power bank or USB adapter (5V / 2.0A).

4) The green indicator light on the USB charging cable will flash slowly when the battery is charging, and will turn solid when the battery is fully charged.

5) Charging time: about 150 minutes.

⚠️

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

・When the charging fails, the green light on the charging cable will flash quickly.

9.2 Transmitter Battery

Unfold the transmitter

Fold the transmitter

USB Adapter
(5V/1.0-2.0A)
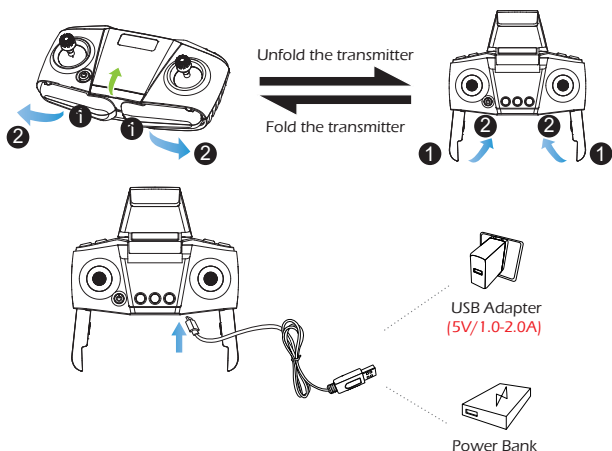
Power Bank

1) When the transmitter battery runs low, the transmitter will continue to sound the "DiDiDi..." alarm.

2) Connect the USB charging cable to the charging interface.

3) Plug the USB charging cable into a USB charging port on the computer, power bank or USB adapter (5V / 1.0 to 2.0A).

4) The red indicator light on the transmitter will turn on when the battery is charging, and will turn off when the battery is fully charged.

5) Charging time: about 60 minutes.

⚠️

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

10.0 OPERATION GUIDE

10.1 Download APP

iOS

Android APP on Google play

Scan the QR code, corresponding to either App Store™ or Google Play™ Store and download the **HS GPS V5** app for free.

10.2 Connect to Wi-Fi

Connect your smart phone to the Wi-Fi network created by the drone. Check the drone's status in the **HS GPS V5** app.

① Your smartphone will launch a search of the available Wi-Fi networks:

② Select the Wi-Fi network: HolyStoneFPV_***_******.

③ Wait for several seconds until 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.

④ Launch the **HS GPS V5** application.

> The connection between your smartphone and the drone will be established automatically.

All of the operations shown in this manual are demonstrated using MODE 2.

10.3 Pairing

① Long press the power switch to turn on the drone and the indicator lights on the drone begin to flash.
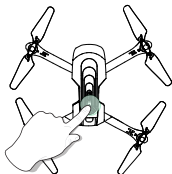
② Place the drone on a flat and level surface with the head forward and the tail towards the pilot.
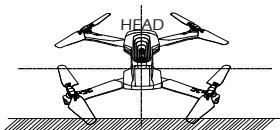
③ Press the power switch on the transmitter to turn it on and you will hear "Di", then the indicator light on the transmitter will flash.
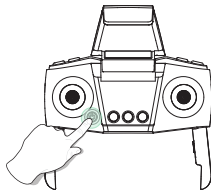
④ Push the left joystick up then down to pair the drone with the transmitter. The indicator lights on the drone and the transmitter will turn solid if the drone is paired successfully.
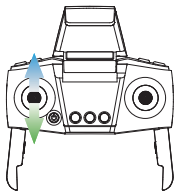
10.4 Calibrating the Compass

① Short press the Compass Calibration button to enter the compass calibration state.
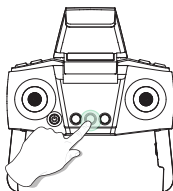
② Hold the drone horizontally and rotate it until the rear indicator lights change from flashing slowly to flashing quickly.
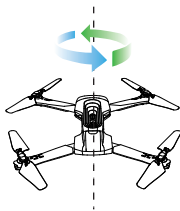
③ Hold the drone vertically and rotate it until the rear indicator lights change from flashing quickly to solid on.

10.5 GPS Searching

HEAD
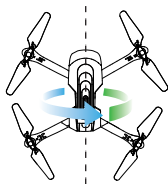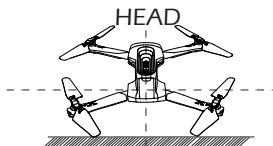
Place the drone on a flat and dry surface where is unobstructed and lit area. When the indicator lights change from yellow to green, it means that the search for GPS signal is completed. This process may take about a minute.

ATTENTION:

· If the search for GPS signal fails, please repeat all the Compass Calibration operations until the process is successful.

10.6 Calibrating the Gyro
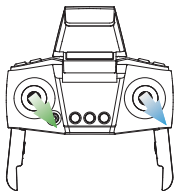
Simultaneously push the left joystick and the right joystick to the bottom right corner to calibrate the gyro.

When the indicator lights on the drone blink quickly and turn solid on, indicating calibration is completed.

Tips: To ensure a stable flight, we suggest that the pilot calibrates the gyro every time after pairing the drone and after a crash.

10.7 Unlocking the Motor

Please unlock the motor before take-off.
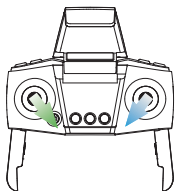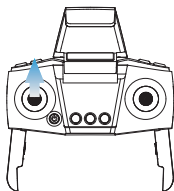
Pic. 1   Pic. 2

Method 1: Simultaneously push the left joystick to the bottom right corner and the right joystick to the bottom left corner. The motors rotate and the drone is unlocked. (Pic.1)

Method 2: Push the left joystick up, the motors rotate and the drone is unlocked. (Pic.2)

10.8 One Key Takeoff/ Landing

①   ②
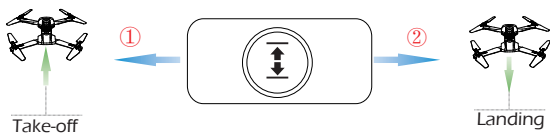
Take-off   Landing

① After unlocking the drone, short press the One Key Takeoff button, the drone will automatically take off and hover at 5 feet altitude.
② When the drone is flying, short press the One Key Landing button, the drone will automatically land on the ground.

11.0 FUNCTION DETAILS

11.1 Camera Angle Adjustment

90°
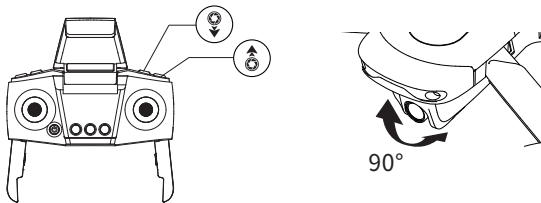
As shown in the figure above, you can adjust the camera to tilt up or down through the two buttons " ⬆ " and " ⬇ ".
(The camera has an 90° tilt range.)

11.2 Speed Switch
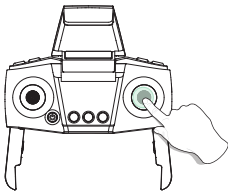
This drone comes with 2 speed modes (Low/ High). Press the right joystick down to switch the speed. "Di" indicates Low speed and "Di Di" indicates High speed.
(The Low speed is default speed mode.)

11.3 Trimmer Function
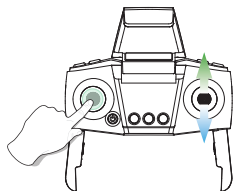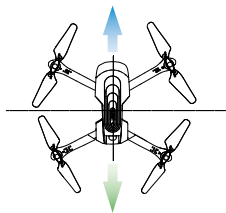
F/B Sideways Drift Trim: If the drone drifts forward, press the Throttle joystick and push the Direction joystick down at the same time to re-balance the drone. If the drone drifts backward, press the Throttle joystick and push the Direction joystick up at the same time to re-balance the drone.

- -
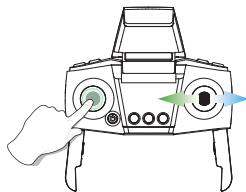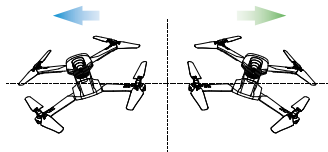
L/R Sideways Dip Trim: If the drone drifts left, press the Throttle joystick and push the Direction joystick right at the same time to re-balance the drone. If the drone drifts to right, press the Throttle joystick and push the Direction joystick left at the same time to re-balance the drone.

11.4 Take Photo/ Video
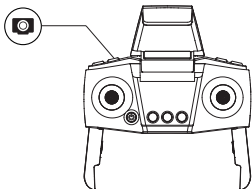
Take Photo: Short press the Photo button on the transmitter to take pictures. One beep can be heard from the transmitter, indicating the camera has successfully taken one photo.
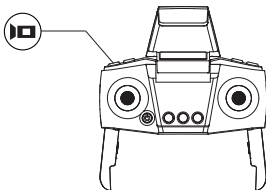
Record Video: Short press the Video button on the transmitter, two beeps from the transmitter will be heard. This tells you that the camera has started recording video. You can exit the recording by pressing the same button again.

⚠ · Do not take photos during the recording, which will interrupt the recording.

· Without the TF card installed, the photos and videos will be saved in the app albums.

· After installing the TF card, the photos and videos will be saved in both the app album and the TF card.

11.5 Headless Mode

1. After pairing/calibration, hold down the right joystick for about 3 seconds to enter the Headless Mode. The indicator lights on the drone continue to flash to indicate that it is in Headless Mode.

2. Hold down the right joystick for about 3 seconds again, and you will hear a beep, the indicator lights on the drone will turn solid which indicates the drone exits the Headless Mode.
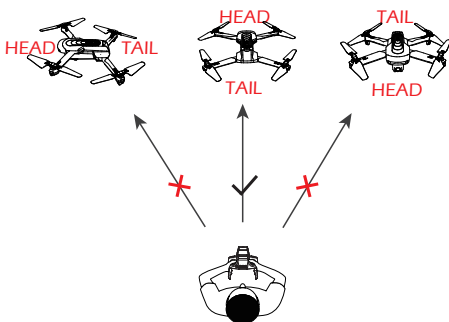
Please make sure the pilot to stay in the same orientation as the drone head faces when the drone is pairing.

Under Headless Mode, the forward direction is the direction that the head of drone faces when the drone is pairing. 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's head faces when the drone pairing. When the pilot pushes the direction joystick forward, the drone will fly forward. If the pilot pushes the direction joystick backward, the drone will fly towards him/her. If the pilot move the right stick left/right, the drone will move left/right relative to you.

11.6 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 Voltage RTH / Failsafe RTH.

11.6.1 Smart RTH
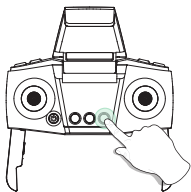
Short press the Return to Home button to enter the return procedure. And you can exit the return procedure by long pressing the Return to Home button again.

⚠️

· When the flight altitude is lower than 65 feet, the drone will elevate automatically to 65 feet high, and then return home.
· When the flight altitude is higher than 65 feet, the drone will stay in the current altitude and fly back to the take-off point.

11.6.2 Low Voltage RTH

When the drone's indicator lights flash continuously, it means that the battery is in low voltage. The drone will enter the Low Voltage RTH mode and fly back to the take-off point.

・When the flight distance is lower than 65 feet, you can exit Low Voltage RTH.

・When the flight distance is higher than 65 feet, you cannot exit Low Voltage RTH.

11.6.3 Failsafe RTH

If the GPS signal is available and the take-off point is recorded previously. Failsafe RTH will be triggered if the transmitter signal is lost for more than 6 seconds. The drone will automatically start the return procedure and it will fly back to the last recorded take-off point. You can exit Failsafe RTH mode by pressing the Return to Home button if the transmitter signal is recovered.

⚠️
・During the Failsafe RTH procedure, the drone can not avoid obstacles.

・The drone cannot Return-to-Home if the GPS signal is weak.

11.7 Optical Flow Positioning
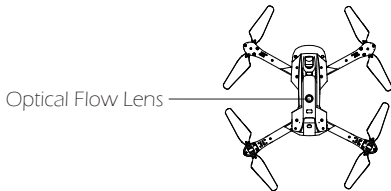
Optical Flow Lens ──────

The Optical Flow Positioning System consists of optical flow lens modules, which acquires the position information of the drone through visual images to ensure precise positioning of the drone.
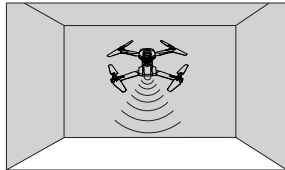
The Optical Flow Positioning System is typically used in indoor environment when GPS is weak or unavailable. It works best when the drone altitude is less than 32 feet /10 meters.

⚠️

The precision of the Optical Flow Positioning System is easily affected by the light strength and features of the surface textures. Once the image sensor is not available, your drone will switch to Gesture Mode automatically. Be cautious to operate the drone in the following situation:

1. Fly fast at an altitude below 0.5m.

2. Fly over monochrome surfaces (like pure black, pure red, pure red and pure green).

3. Fly over strong light reflective surfaces or surfaces prone to reflection.

4. Fly over water or transparent object surfaces.

5. Fly over moving object surfaces (such as crowds, swaying juggles and glass).

6. Fly over an area where light changes dramatically and rapidly.

7. Fly over surfaces extremely dark (lux< 10) or extremely bright (lux> 10,000).

8. Fly over surfaces without clear textures.

9. Fly over surfaces with highly repeating textures (small grid brick in the same color).

10. Fly over surfaces that are tilting over 30 degrees (could not receive the echo of the ultrasonic wave).

11. Flying speed should be controlled not to be too fast. When drone is 1 meter from the ground, the flying speed should not be over 5m/s. When the drone is 2 meter against the ground, the flying speed should not be over 10m/s.

· Keep sensors clean at all times.

· The vision system is only effective when the drone is within the altitude range of 32 feet.

· Make sure that the light is bright enough and the surfaces is with clear textures so that the vision system can acquire the movement information through recognizing the ground textures.

· The vision system may not function properly when the drone is flying over water, low light ground and surfaces without clear patterns or textures.

12.0 SPECIFICATIONS

DRONE

Model: HS175

Weight: 201g / 7.09oz

Max Flight Time: 22 minutes (per battery)

Operating Temperature Range: 32° to 104°F

Size: 145 × 90 × 60 mm (Folded)

360 × 300 × 70 mm (Unfolded)

DRONE BATTERY

Capacity: 1300 mAh

Voltage: 7.6 V

Battery Type: Li-Po

Energy: 9.88 Wh

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

Charging Time: about 150 minutes

TRANSMITTER

Operating Frequency: 2.4 GHz

Max Flight Distance: 1148 feet / 350m (outdoor and unobstructed)

Battery Type: 3.7V 380mAh Li-Po battery

Operating Temperature Range: 32° to 104°F

Charging Time: 60 minutes

CAMERA

Operating Frequency: 5 GHz

Photo Resolution: 4096×3072P (stored in TF card)

2048×1080P (stored on mobile phone)

Video Resolution: 2048×1080P (stored in TF card)

1920×1080P (stored on mobile phone)

Lens: FOV 110°

Max Transmission Distance: 984 feet / 300m (outdoor and

unobstructed)

Live View Quality: 25 fps

Photo Formats: JPEG

Video Formats: AVI / MP4

Supported TF Cards: Supports a TF Card with capacity of up to

64 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

13.0 TROUBLE SHOOTING

No.	Problem	Solution
1	The drone does not respond.	1. Charge the drone battery. 2. Charge the transmitter battery.
2	The drone's response is intermittent.	1. Change the batteries. 2. Move to a different area where there is no interference.
3	The drone drifts to one side while hovering.	Place the drone on a flat, level surface and repeat the gyro calibration.
4	The drone does not travel in a forwards direction in headless mode.	Reconfigure the forwards direction.
5	The drone does not hover properly or the drone keeps moving up and down.	1. Repeat the gyro calibration. 2. Avoid flying in poor weather.

14.0 CONTACT US

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

✉ usa@holystone.com (America) ☎ +1(855) 888-6699
   ca@holystone.com (Canada)
   eu@holystone.com (Europe)

15.0 GENERAL INFORMATION

FCC Statement:

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

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.

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. This part belongs to the drone.

RF warning for Portable device: The device has been evaluated to meet general RF exposure requirment. The device can be used in portable exposure condition without restriction. This part belongs to the transmitter.

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 charge battery 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): <16 dBm (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 : HS175/HOLYSTONE

The Statement of compliance is available at the following address:

http://www.holystone.com/Download/CE/HS175_EU_DOC.pdf

This product can be used across EU member states.

MANUFACTURER INFORMATION

Manufactured by

Xiamen Huoshiquan Import & Export CO.,LTD

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Made in China