



ITEM NO. HS400

HS+ SERIES

2.4GHz

Indoor/Outdoor Quadcopter with Headless Mode

Instruction Manual



Holy Stone is grateful for you

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Notice:

To ensure safe operation of your quadcopter, please read all instructions before your first flight. Keep the manual for further reference.


Features

- One Key Start/One Key landing Function
- Altitude Hold Mode
- Headless Mode /One Key Return

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Preface

To make your experience with this drone as straightforward and convenient as possible, please read this instruction manual carefully before operation. Keep it safe for future reference to ensure continued, safe and enjoyable use of your drone.

Important Statement

- 1.This product is not just a toy. It is a high precision quadcopter integrating various electronic stability and control mechanisms. This drone requires careful and correct assembly and setup to ensure safe, accident free operation. This equipment should be operated in a safe and controlled way at all times. Incorrect or dangerous operation may cause damage to the device or property, or cause serious injury to those in the vicinity.
- 2.This product is suitable for experienced drone pilots over 14 years of age.
- 3.In case of difficulties with any aspect of the product, operation or maintenance, please contact your local sales agent or contact customer services here at Holy Stone.

Safety Guidelines

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

1.Keep Your Distance

- ★Always fly in locations that are clear of any obstructions, such as buildings, pylons, trees and so on
- ★Never fly above or near to a large crowd of people

2.Do not fly in adverse weather conditions

- ★Keep clear of moisture, heavy rain, ice and excessive wind.
- ★Fly in moderate weather conditions only

3.Use and maintain the product according to the instructions

- ★Operate this device legally in accordance with instructions provided within
- ★Always use original parts made by Holy Stone for maintenance and repair

4.Do not operate the device alone

- ★If you are a new pilot, seek assistance from an experienced drone pilot as you learn
- ★Have others around to help you fly at all times

5.Safety First every time

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

6.Keep clear of rotating parts

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

7.Avoid exposure to excessive heat

- ★Due to the numerous material types used in construction, this drone is not suitable for exposure to heat. Please keep your device away from heat sources and avoid prolonged exposure to direct sunlight. High temperatures can distort the structure of the device, please check for such damage before flying.

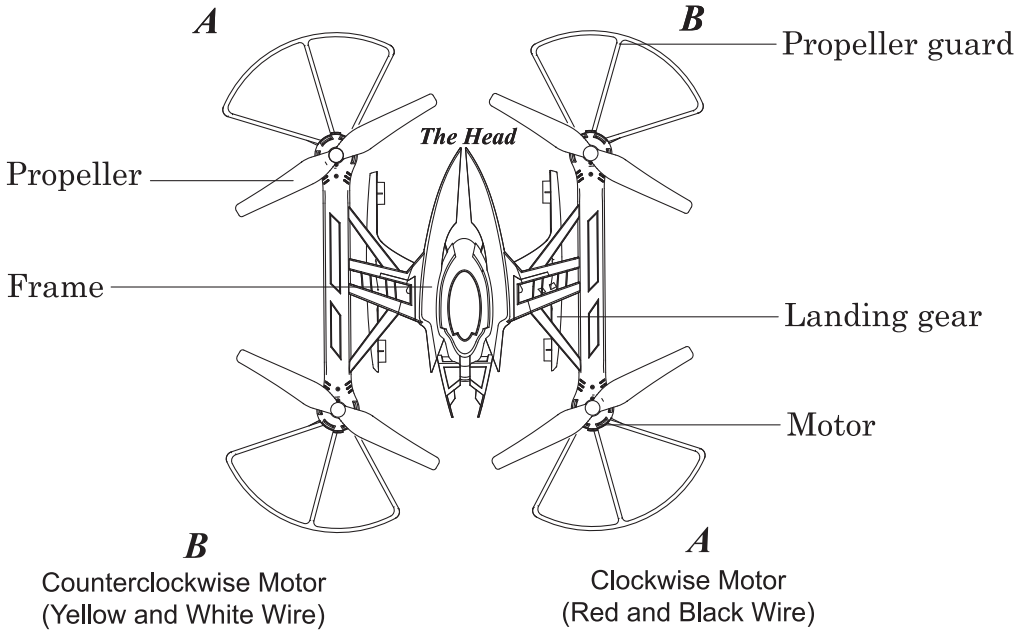
Warning

- 1.The information and guidance within this package and instruction manual is important for the safe operation and maintenance of your drone. Please keep it safe for future reference.
- 2.You accept sole responsibility for any injury, loss or damage that result from your operation of the device.
- 3.Always follow the instructions when assembling or operating the drone. Always keep at least 2 meters between the user or viewers and the model to avoid risk of injury. Pay attention to the device at all times while in flight.
- 4.Neither Holy Stone nor any distributors or agents accept any responsibility for loss, injury or damage caused by incorrect operation of the drone.
- 5.This drone is not suitable for children under the age of 14, and should always be operated under supervision for young pilots.
- 6.Please ensure assembly instructions are followed correctly to ensure proper operation and performance of your drone.
- 7.This product contains small parts. To avoid any choking hazard, please keep this drone and all components out of the reach of children.
- 8.You must not under any circumstances fly this drone over open water or near public highways to avoid risk of accident.
- 9.Keep all packaging materials away from children and dispose safely.
- 10.The internals of the drone are not user serviceable, please do not attempt to disassemble this drone or re-equip any part of the drone, to avoid malfunctions during flight.
- 11.Please ensure batteries are fitted in the correct orientation as shown in these instructions.
- 12.You can access the transmitter battery compartment by unscrewing the screws on the battery cover. Insert batteries ensuring they are in the right orientation. Always replace battery cover and tighten the screws to secure before use.
- 13.Only use the charger provided with your drone for safety.
- 14.The charger is not a toy.
- 15.Always pay close attention to battery polarity when inserting any batteries to make sure they are fitted correctly.
- 16.Use either rechargeable or non-rechargeable 'AA' batteries in the transmitter.
- 17.Use only recommended batteries in the transmitter, please remember that non-rechargeable batteries must not be charged.
- 18.For rechargeable batteries, always follow manufacturer's instructions and have adult supervision. Do not leave charging batteries unsupervised and as batteries get hot when charging, avoid any combustible material.
- 19.Avoid short circuits by fitting the batteries incorrectly, and do not crush or squash batteries as this carries a risk of explosion.
- 20.Do not mix new and old batteries as this can lead to unpredictable performance.
- 21.Dispose of used batteries carefully, do not litter.
- 22.The power socket must not be removed from this drone. Do not attempt to short circuit the connecting socket.
- 23.When disposing of batteries do not throw on fires, leave to decompose. Keep clear of heat sources and high temperatures at all times.
- 24.If the device is not going to be used for an extended period, remove batteries to prevent potential damage from battery leakage.
- 25.Care should be taken to keep your drone away from sources of magnetic interference or other electrical equipment to prevent signal issues during operation.
- 26.Keep clear of rotating parts and beware of loose clothing that could become entangled in the rotors causing injury.
- 27.Do not shoot the light beam directly at other people or yourself.
- 28.Be aware of the volume of noise the drone produces. Keep your distance to avoid ear damage.
- 29.The charge socket uses a mini USB 5V connection.
- 30.Always use the product in compliance with local aviation radio rules and comply with local authorities should they require you to refrain from operating at any time.

Maintenance

- 1.Clean the product after each use with a clean, soft cloth.
- 2.Avoid prolonged exposure to direct sunlight and avoid heat buildup in the drone.
- 3.This device is not waterproof and must not be submerged in water under any circumstances. Failure of the unit will result from water contamination.
- 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.

MAIN PARTS

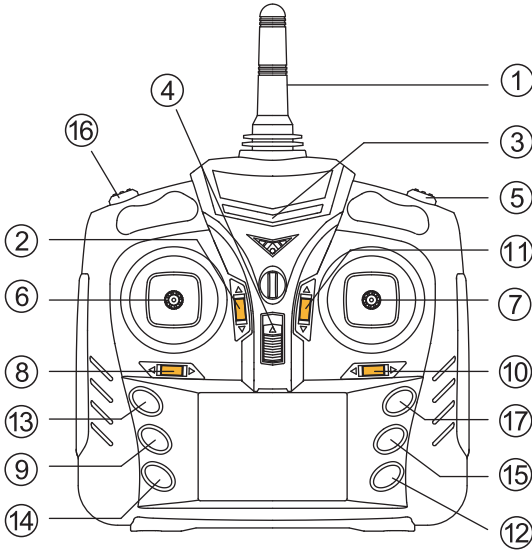


Note: letter A or B is printed on each propeller; Make sure all propellers are assembled in the right orientation according to the image above.

IMPORTANT TIPS

- 1.This model is equipped with powerful, responsive motors. If you are inexperienced in flying drones, begin by flying the model over soft ground, an area of grass for instance. Slowly increase the throttle and fly at low speed until you gain a feel for the model to avoid damage to property or the model itself.
- 2.The internals of the drone, including motors, get hot during use. For long term reliability of your drone, take a 10-minute break between flights to allow the internals to cool down.
- 3.Always take care with the wiring to ensure nothing is loose or becomes disconnected, especially when disconnecting the battery.

REMOTE CONTROLLER



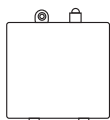
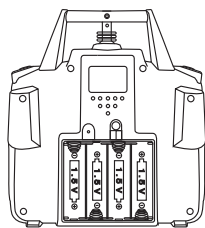
- ① **2.4G Antenna**
- ② **Adjust the angle of camera:** Slide this button up/down to adjust the angle of the camera
- ③ **Power Indicator**
- ④ **Power On/Off**
- ⑤ **3D Flips Mode:** When pressed, the Power Indicator on the remote control will start flashing and beeping continuously. Fly the quadcopter 5 meters above the ground, then push the right control lever to any direction and release. Whatever direction you move the right stick, the drone will flip in that direction.
- ⑥ **Throttle Stick:** Throttle up or down the joystick to fly the quadcopter upward or downward.
- ⑦ **Direction Stick:** Forward/Backward/Left/Right
- ⑧ **Direction Trimmer:** If the nose of the quadcopter rotates left or right during take-off, use this to correct. (Trim right if the nose leans left; trim left if the nose leans right).
- ⑨ **Emergency stop :** Press this button and the quadcopter will stop working immediately. DO NOT use this function unless the emergency occurs.
- ⑩ **Left/Right Trimmer:** If the entire body of the quadcopter drifts left or right during take-off, use this to correct. (Trim right if it drifts left; trim left if it drifts right).
- ⑪ **Forward/Backward Trimmer:** If the entire body of the quadcopter drifts forward or backward during take-off, use this to correct. (Trim forward if it drifts back; Trim back if it drifts forward).

- ⑫ Invalid button for HS400 model.
- ⑬ **One key return:** Press down the One Key Return button, the drone would fly back to the direction where the tail of the drone points to when the drone is being paired.
- ⑭ **Engine Start/Stop:** Press this to start the engine and get ready for take off (when the button pressed, the blades begin to rotate). Press the button to land the quad when it is flying.
- ⑮ Invalid button for HS400 model.
- ⑯ **Speed Control:** Press this button to switch three different speed modes. The remote controller sounds one beep, two beeps, three beeps separately after each press, indicating that the quad enters into low/mediate/high speed modes.
- ⑰ **Headless mode**

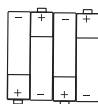
Headless Mode makes it easier to control the steering of the quadcopter. When headless mode is off, the direction that the head of the quadcopter faces would be the forward direction. In headless mode, the direction the pilot faces would be the forward direction. When pairing the drone, make sure that the head of the drone is facing forward while the tail is facing towards the pilot. (For more detail, please read Page 10)

BATTERY INSTALLATION

Open the battery cover on the back of the remote control, install 4 AA batteries according to electrode instructions. DO NOT mix new and old batteries, and do NOT use different types of batteries. (Batteries not included in the box)



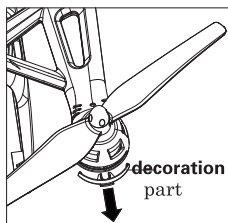
Battery Cover



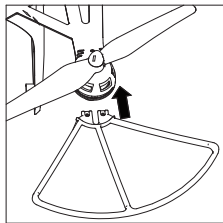
AA Batteries

QUADCOPTER ASSEMBLING

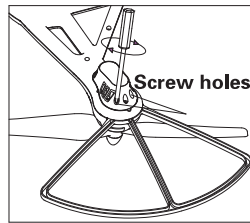
1. Be prepared with a screw driver and the four propeller guards. Then pull out the four decoration parts and keep them well.
2. Insert all the four propeller guards into the holes which locate on the motor houses, lock the screws tightly.



step 1

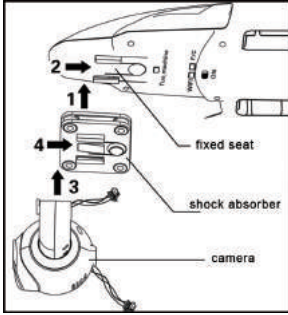


step 2



step 3

HOW TO ASSEMBLE THE CAMERA



STEP 1.2



STEP 3.4

Please make sure the foot of the camera points to the very landing gear shown in the picture.

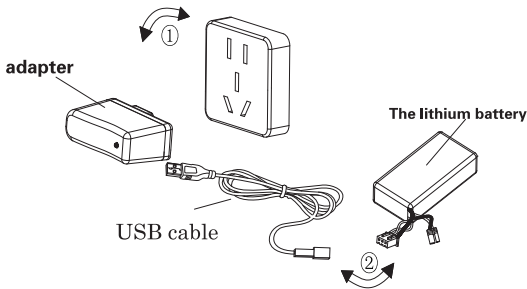
Please note that the shock absorber and camera should be installed in the correct orientation.

CHARGING THE BATTERY(See picture on next page)

Please take out the battery from the drone before charging.

1. Insert the adapter (not included) into the socket.
2. Connect the USB cable (5V/1-2A) with the adapter. The red indicator light will flash.
3. Connect the wire of battery with USB cable. The red indicator light will go solid, indicating that the quadcopter is in charging process. The indicator light will turn off when the battery is fully charged. It takes around 300 minutes to fully charge the battery.

Tip: The flight time is about 8-10 minutes on each full charge.

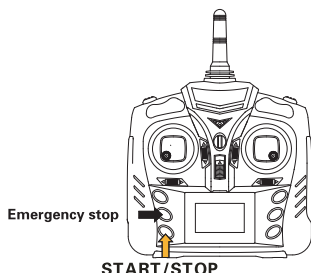


FLYING THE QUADCOPTER

Important Tips:

The control range of the transmitter is about 100 meters, and the range of Wi-Fi signal is about 30-50 meters. The range was measured in the condition of no wind or other radio signal interference. Operating the drone beyond the ranges might cause loss or damage of the drone.

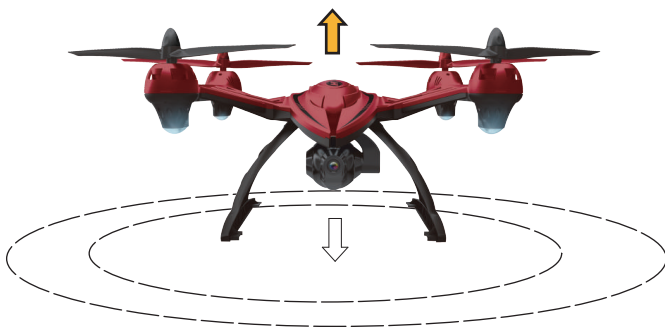
1. Fly the quadcopter in a spacious indoors area, or an outdoors area free of obstacles, rain, snow, animals, and people. When flying outdoors, make sure there isn't too much wind.
2. Insert the battery into the quadcopter and connect it. Turn on the remote control, and then turn on the power switch of quadcopter. Place the quadcopter on a level surface for takeoff.
3. Quickly shift the throttle stick (left stick) up and down. If done correctly, the transmitter will sound beep, and the LED indicator will turn solid, indicating that the remote control is connected to the quadcopter.
4. Press the Engine Start/Stop button, and now the quadcopter is ready to fly, all the blades should spin in the same speed at this point.
5. Throttle up carefully and the quadcopter will take off and hover in the sky.
6. When flying, press the Engine Start/Stop button and the drone will land.
7. If you want to urgently stop the engine, press the Emergency Stop and the quadcopter will stop working at once. **(The function should be used only in emergency.)**



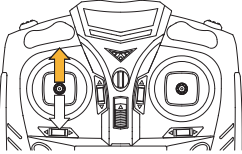
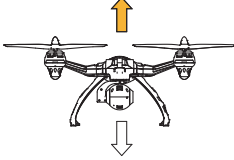

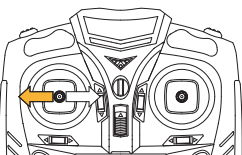


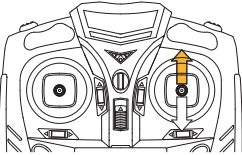


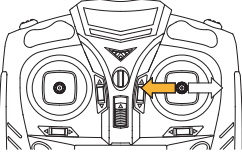
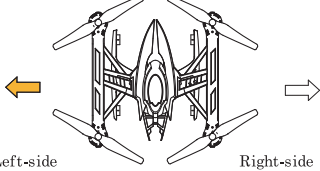
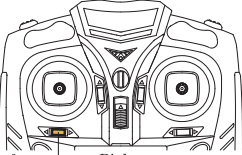


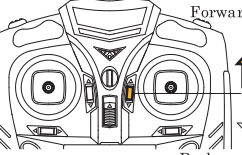


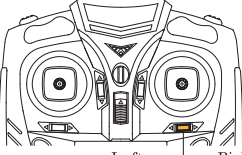
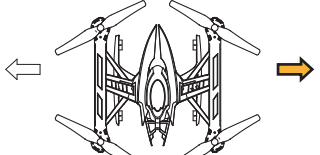
HOVER CONTROL

The model is designed with Altitude Hold function so the quadcopter can maintain its altitude after you release the throttle stick.

1. Throttle up the left stick, the drone will be ascending.
2. Move the left stick downward, the drone will be descending.
3. When the throttle stick returns back to the neutral position, the drone will stay hovering at the same altitude.



OPERATION

	<p>Up</p>  <p>Down</p> 	<p>Push the throttle up or down, the quadcopter flies upward or downward.</p>
	<p>Turn-left</p>  <p>Turn-right</p> 	<p>Pull the throttle left or right, the quadcopter turns to left or right.</p>
	<p>Forward</p>  <p>Backward</p> 	<p>Push the direction lever up or down, the quadcopter flies forward or backward.</p>
	<p>Left-side</p>  <p>Right-side</p>	<p>Pull the direction lever left or right, the quadcopter leans to left side or right side.</p>
 <p>Left</p> <p>Right</p>	<p>Turn-left</p>  <p>Turn-right</p> 	<p>When the nose of the quadcopter rotates left or right during take-off, use this to correct. (Trim right if the nose leans left; trim left if the nose leans right).</p>
 <p>Forward</p> <p>Backward</p>	<p>Forward</p>  <p>Backward</p> 	<p>If the entire body of the quadcopter drifts forward or backward during take-off, use this to correct. (Trim forward if it drifts back; Trim back if it drifts forward).</p>
 <p>Left</p> <p>Right</p>	<p>Fly to left side</p>  <p>Fly to right side</p>	<p>If the entire body of the quadcopter drifts left or right during take-off, use this to correct. (Trim right if it drifts left; trim left if it drifts right).</p>