HOLY STONE

Dare to fly.Soar to live.

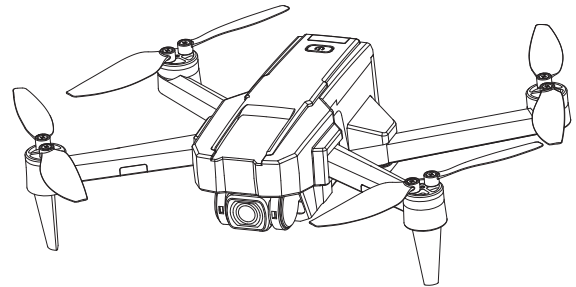
HOLY STONE

WARNING
Only intended for ages 14+

HS440G

User Manual
Gebrauchsanweisung

V 1.0



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CONTENTS

Reading Guidance

Icon

"⚠" essential precautions. "💡" tips for operation and usage.

Recommended Steps

Our product offers both tutorial videos and the following resources:

- Disclaimer and Safety Guidelines
- Quick Start Guide
- User Manual

For a smooth start, we suggest watching the tutorial videos and reviewing the "Disclaimer and Safety Guidelines" first. Then, familiarize yourself with the basics through the "Quick Start Guide". For a comprehensive understanding, delve into the "User Manual".

Access Tutorial Videos

To ensure you're using the product safely and correctly, scan the QR code below to view our tutorial videos.

Download the HS GPS V4 App

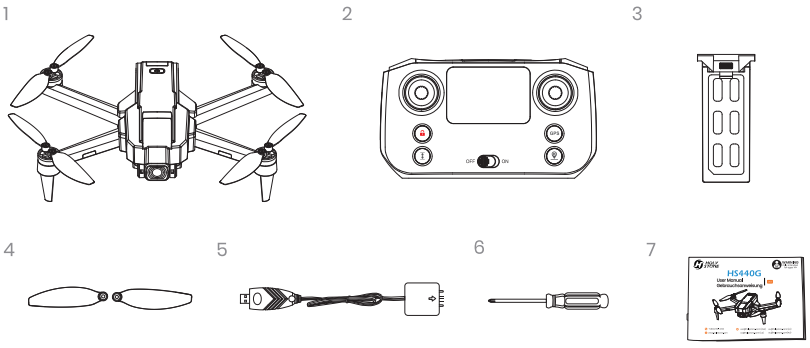
Simply scan the QR code below.

iOS

Android APP on Google play

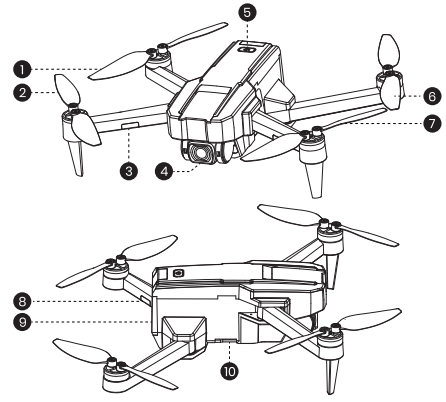
💡 Required Operating Systems: iOS 12.0 or later/Android 7.0 or later.

1.1 Package Contents >>



1 Drone
2 Transmitter
3 Drone Battery
4 Propellers
5 USB Charging Cable
6 Screwdriver
7 User Manual

1.2 Diagram of the Drone >>



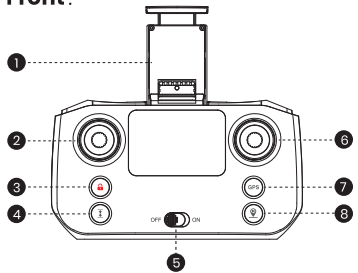
1 Propeller A
2 Propeller B
3 Front Arm Lights
4 Camera
5 Power Switch
6 Propeller B
7 Propeller A
8 Rear Arm Lights
9 Drone Battery
10 TF Card Slot

Turning on/off: Long press the power switch (⏻)on the drone to turn it on/off.

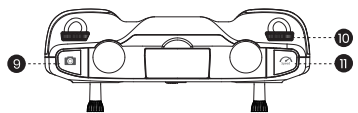
1.3 Diagram of the Transmitter >>

The Transmitter

- **Front**:



- **Top**:

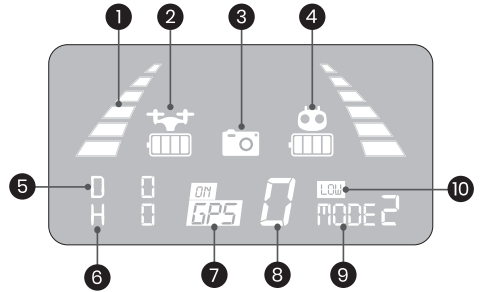


1. Phone Holder
2. Left Joystick
3. Unlocking/locking the Motors: short press
   Emergency Stop: long press
4. Takeoff/Landing: short press
5. Power Switch
6. Right Joystick
7. GPS Switch: long press
8. Return to Home: short press
9. Take Photo: short press
   Record Video: long press
10. Camera Angle Adjustment
11. Speed Switch:short press

Turning on: Slide the power switch to the right to power on the transmitter.

1.3 Diagram of the Transmitter >>

LCD Screen

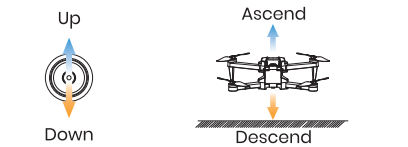


1. Transmitter Signal Strength
2. Drone Battery Level
3. Camera Status
4. Transmitter Battery Level
5. Distance from Home Point
6. Altitude from Home Point
7. GPS Mode
8. Satellite Count
9. Transmitter Throttle Mode
10. Speed Mode（High/Low）

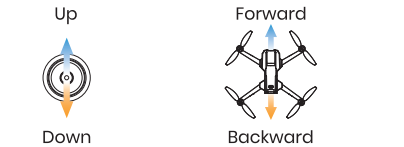
1.3 Diagram of the Transmitter >>

Joystick Mode

- **MODE 2 :** (The default setting, i.e., left joystick as the throttle joystick.)

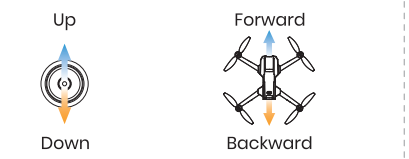


Left Joystick

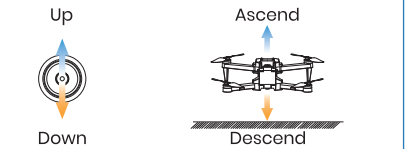


Right Joystick

- **MODE 1 :** To enter MODE 1, turn on the transmitter while holding the ↕ button. You will see MODE 1 displayed on the LCD screen.(Please do not release the ↕ button until the transmitter is powered on.)



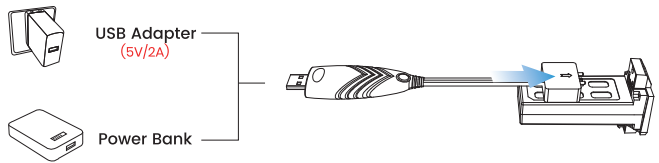
Left Joystick



Right Joystick

2.1 Battery Preparation >>

Drone Battery

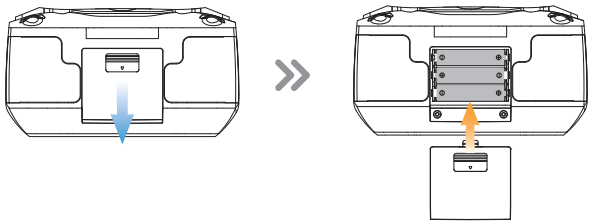


1. Remove the battery from the drone and connect it to a USB charging cable.
2. Plug the USB charging cable into a USB charging port on a power bank or a USB adapter (5V/2A).
3. When charging, the red light on the USB charging cable is solid, and the green light keeps flashing; when fully charged, both lights are solid.
4. Charging time: About 180 minutes.

· Before charging, please read the instructions in the "Battery Safety" section of the "Disclaimer and Safety Guidelines" carefully!
· DO NOT charge a battery immediately after a flight as the temperature may be too high. Please wait until it cools down to room temperature before charging again.
· Please use the original charging cable to charge the battery.

2.1 Battery Preparation >>

Changing Transmitter Batteries



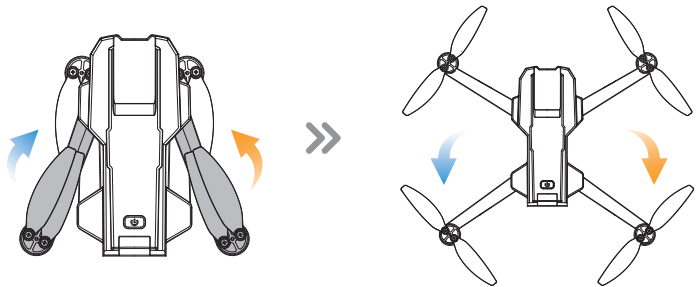
Open the battery cover on the back of the transmitter. Put in three AAA batteries (not included). Then, close the cover.

***Low Battery Signal:** The transmitter battery level icon on the LCD screen will keep flashing.

· Install batteries carefully.
· Do not mix old and new batteries.
· Do not mix different types of batteries.

2.2 Pre-Flight Preparations >>

Arms

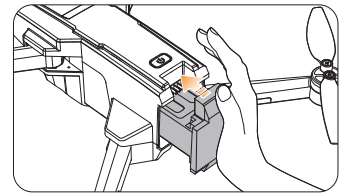


All arms of the drone are folded when it is packaged at the factory. First, unfold the front arms, then unfold the rear arms.

2.2 Pre-Flight Preparations >>

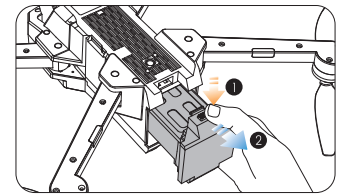
Drone Battery

- **Installation:**



Insert the battery into the compartment located at the rear of the drone. Make sure that you hear a click sound, which indicates that the battery is firmly installed.

- **Removal:**



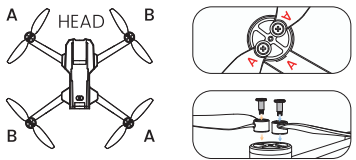
Press the battery locks on the battery and carefully pull to extract the battery.

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

2.2 Pre-Flight Preparations >>

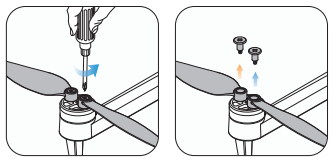
Propellers

- **Installation:**



The drone will not fly unless the correct propeller is installed on the correct motor shaft. Each propeller is labeled with either an "**A**" or "**B**". Secure the propeller onto the motor shaft using screws, turning each screw clockwise.

- **Removal:**



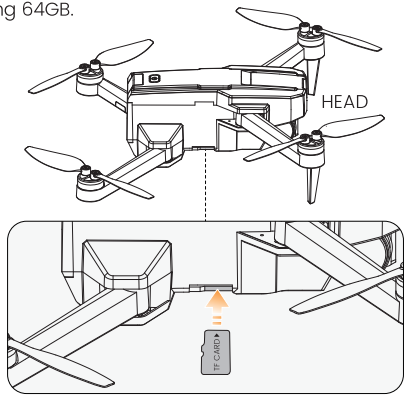
For propeller removal, use a screwdriver (provided) to rotate the screws counter-clockwise and remove the propellers. Be sure to hold the motor while detaching the propeller.

⚠ · Please check that the propellers are properly installed and tightened before each flight.
· Exercise caution when attaching/detaching the propellers to prevent any cuts or injuries.
· The propellers are installed before the drone is packaged at the factory.

2.2 Pre-Flight Preparations >>

TF Card

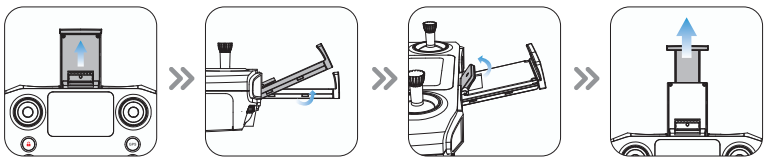
To store your photos and videos, insert a TF card **(not included)** into the slot before turning on the drone. This drone supports TF cards**(Class 10 or above)** with capacities up to and including 64GB.



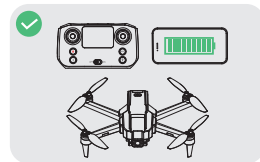
2.2 Pre-Flight Preparations >>

Phone Holder

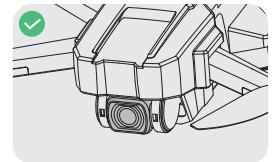
Pull the phone holders out completely and place your mobile phone in them. Adjust the clamp to secure your mobile phone. You can adjust the tilt of the phone holder as needed.



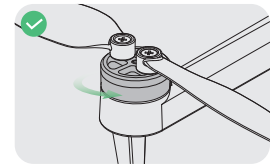
2.3 Pre-Flight Checklist >>



Make sure the transmitter, the mobile phone and the drone battery are fully charged.

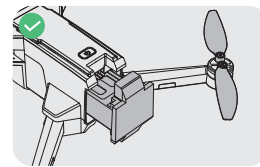


Make sure that the camera is clean.



Make sure that there is nothing obstructing the motors.

Make sure the drone arms are unfolded.



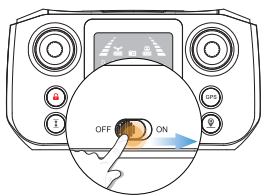
Make sure the drone battery and the propellers are mounted securely.

Make sure you use accessories provided by this company.

2.4 Flight >>

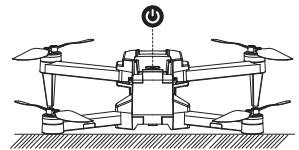
Pairing

· All of the operations shown in this manual are demonstrated using **MODE 2.**
· Ensure that you are in an open, outdoor area before operating the drone.



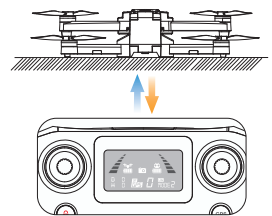
1 Turn on the transmitte

Slide the to the right to power on the transmitter. The transmitter will beep twice.



2 Turn on the drone

Place the drone on a flat, level surface with its head facing forward and the tail facing the operator. Long press the button to turn on the drone.



3 Auto-pairing

Successful pairing is confirmed when the transmitter emits a prolonged beep, and the transmitter signal strength icon( ) on the LCD screen is at full bars.

2.4 Flight >>

Connect to Wi-Fi

Make sure the pairing has finished before going to the Wi-Fi settings on your phone.

1. Go to the **Wi-Fi** settings on your phone.
2. Connect to the drone's Wi-Fi network: **HolyStoneGPS-******.**
3. Run the **HS GPS V4** app. A successful connection is confirmed when the drone's live video feed is displayed within the app interface.

· Connecting your phone to the drone's Wi-Fi may take some time. Please remain patient and wait for the connection to be established successfully.

· For optimal connectivity, if you're experiencing issues with the WIFI connection or the image transmission in the APP isn't displaying, it's advised to disable your phone's Bluetooth, Mobile Data, and VPN. Alternatively, switch your phone to airplane mode and attempt to reconnect.

· **Please ensure that all permissions requested by the app are granted.**

⚠

The Wi-Fi network created by the drone does not have internet access. As a result, your cellphone might:

- Notify you that the connection isn't secure,
- Indicate there's no internet connection, or
- Suggest switching to cellular data.

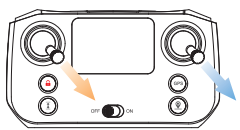
(The exact wording may vary based on cellphone models.)

Please disregard these messages. If prompted, select the option to remain connected to the current Wi-Fi.

2.4 Flight >>

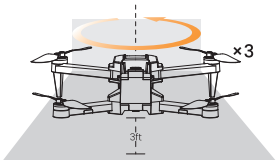
Compass Calibration

* The drone will perform a mandatory compass calibration before the initial flight. So you can skip step 1 if this is the first time you fly your drone. At this moment, the four drone arm lights are alternately flashing in yellow.



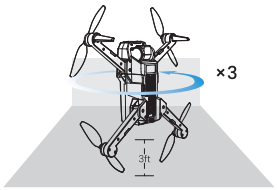
• STEP 1:

Push both joysticks down to the bottom right corner at the same time to enter the compass calibration. The transmitter will beep twice and will appear on the LCD screen, indicating that the calibration has started. You can now proceed with Step 2.



• STEP 2:

Keep the drone parallel to the floor, and spin the drone three times. Once the transmitter beeps once. You can proceed to step 3.



• STEP 3:

Point the head of the drone upward, and spin the drone three times. Once the transmitter long beeps which means that you have successfully performed a compass calibration.

⚠

· To ensure a stable flight, we recommend that pilots perform a compass calibration before each flight.

· We recommend that the pilot hold the drone approximately 3 ft above the ground while performing the compass calibration.

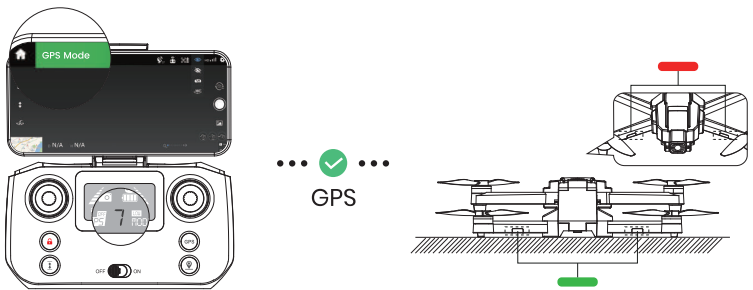
· DO NOT calibrate the compass in locations where magnetic interference may occur, such as close to magnetite deposits or large metallic structures such as parking structures, steel reinforced basements, bridges, cars, or scaffolding.

· DO NOT carry objects (such as mobile phones) that contain ferromagnetic materials near the drone during calibration.

2.4 Flight >>

GPS Signal Search

Please don't use the GPS mode when you are indoors.



After calibrating the compass, put the drone on a flat surface. Make sure there are no external sources of signal interference around. The drone will automatically perform a search for GPS signals. The search will last for about 1 minute.

When the front arm lights are solid RED, the rear ones are solid GREEN, and the LCD screen shows a satellite connection count of 7 or more, it indicates a successful GPS signal search.

· When the lights on the front drone arms are solid RED, and the lights on the rear drone arms are solid YELLOW, it indicates that the drone is searching for GPS signals.

· If the GPS signal is weak or if you intend to fly this drone indoors. If you want it to take off, you can hold the GPS switch(**GPS**)button on the transmitter for 2 seconds to exit GPS mode. The LCD screen will show **"GPS OFF"** at this time. However, please note that all GPS-related functions will be unavailable when the drone is in this mode.

2.4 Flight >>

Gyro-Calibration

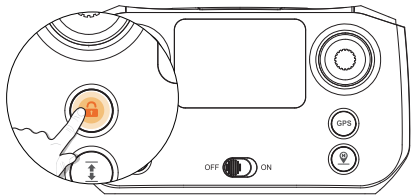
Make sure to place the drone on a level surface before calibrating the gyro. Simultaneously push the left joystick and the right joystick to the bottom left corner to calibrate the gyro. All drone lights will blink, then turn solid, which indicates that the calibration is completed.

We suggest that the pilot perform a gyro-calibration before each takeoff and after any crash.

2.4 Flight >>

Unlock the Motors

Short press the button. The motors rotate, and the drone is unlocked.

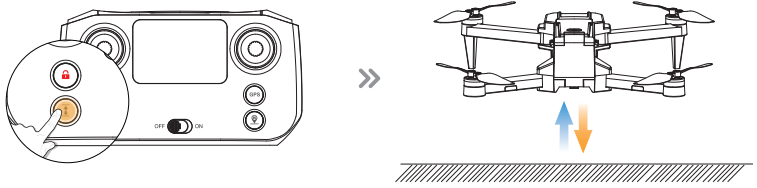


Locking the Motors: Short press the ( ) button again, and the motors stop immediately. The drone is locked.

2.4 Flight >>

Takeoff/Landing

Please unlock the motor before takeoff.



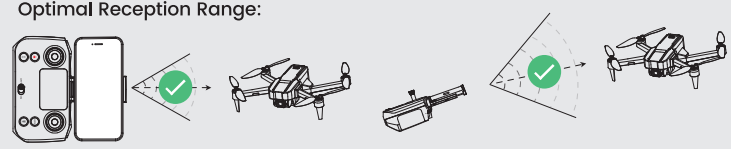
Takeoff Short press the button, the drone will automatically take off and hover at 5 ft.

Landing When the drone is flying, short press the button, the drone will automatically land on the ground.

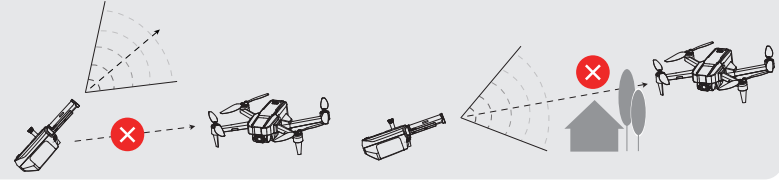
* Transmitter Reception Range

When controlling the drone, promptly adjust the orientation and distance between the transmitter and the drone to ensure that the drone always remains within the optimal reception range.

Optimal Reception Range:



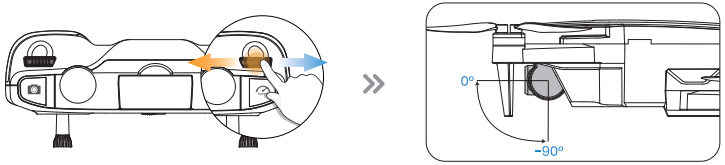
Weaker Signal:



3.1 Flight Functions >>

Camera Angle Adjustment

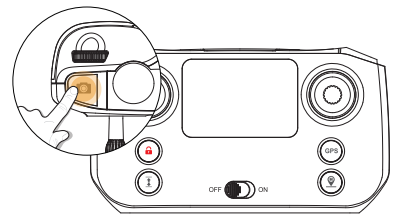
Adjust the camera angle by scrolling the camera adjustment dial . (tilt range: -90°~ 0°)



The lens houses delicate components. Handle with care, avoiding any impacts or forceful adjustments.

3.1 Flight Functions >>

Photo/Video

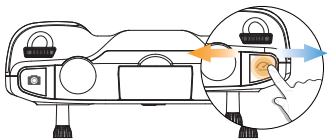


Take photo : Short press the button. The transmitter will beep once, and the icon on the LCD screen will flash once. The camera will take one picture.

Record Video : Press and hold the button. The transmitter will emit a long beep once, and the icon on the LCD screen will start flashing, indicating that the camera has begun recording. To stop the recording, press and hold the button again.

3.1 Flight Functions >>

Speed Switch



This drone offers two speed modes: Low and High. By default, it's set to Low speed. Short press the Speed once to toggle between different speeds.

- **Low**:

The transmitter beeps once.
The LCD screen displays LOW.

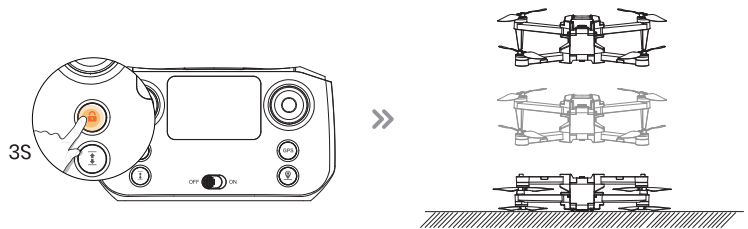
- **High**:

The transmitter beeps twice.
The LCD screen displays HIGH.

3.1 Flight Functions >>

Emergency Stop

This Emergency Stop function should only be used in case of emergency to avoid damages or injuries. Keep in mind that the fall may damage the drone. Press and hold the button to initiate the emergency stop. The transmitter will produce a long beep, and the drone will fall down immediately.



⚠ Be aware that you risk breakage of the drone if it falls from a large distance or hits anything at a high rate of speed.

3.1 Flight Functions >>

Return to Home(RTH)

- The Return to Home function brings the drone back to the recorded Home Point. This function can only be triggered when the drone is in GPS mode.
- The drone's default home point is the location where it first receives a strong GPS signal (this is indicated when the satellite connection count displayed on the LCD screen is '7' or higher). The drone will record its takeoff position at that moment as the home point. During flight, if the drone lands at a new location, the position of the next takeoff will become the newly recorded home point.

*** RA: the Return Altitude set in the app setting. (The default RA is 49 ft.)**

1 Smart RTH :

When the GPS signal is strong (satellite connections ≥ 7), press the button. The transmitter will produce a prolonged beep, indicating that the Smart RTH is activated. The drone will start flying back to the Home Point automatically.
During the RTH procedure, if the pilot presses the button again, the drone will exit the RTH procedure immediately.

2 Failsafe RTH :

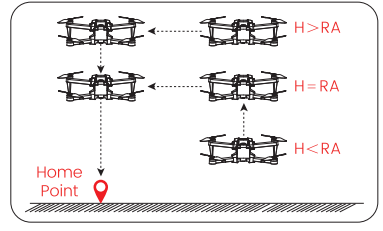
The Failsafe RTH will be activated when:
1. The drone receives a strong GPS signal (satellite connections ≥ 7); and
2. There is a pre-recorded Home Point; and
3. The connection between the transmitter and the drone is lost for more than 6 seconds.
4. The compass receives no interference.

Once the Failsafe RTH is activated, the drone will start to to fly back to the pre-recorded Home Point automatically. If the connection between the drone and the transmitter is re-established during the Failsafe RTH procedure, the drone will stop flying back to the Home Point, and the pilot will regain control of the drone.

The following are 2 possible returning procedures for Smart RTH and Failsafe RTH

a **Flight altitude≥RA**: When the drone' s current altitude is higher than or equal to **RA**, the drone will maintain its current altitude, fly back above the Home Point, then descend to the ground.

b **Flight altitude<RA**: When the drone' s current altitude is lower than **RA**, the drone will first ascend to **RA**, fly back above the Home Point, then descend to the ground.



3.1 Flight Functions >>

Return to Home(RTH)

3 Low Voltage RTH :

When the flight battery is too low or there is not enough power to return home, the user should land the drone as soon as possible to avoid damage to the drone or other hazards.
To prevent unnecessary risks due to insufficient battery power, the low voltage return-to-home (RTH) function will be automatically triggered when the drone battery is low. According to the remaining power, there are two scenarios:

The First Stage of Low Voltage RTH ( ) : The drone will return and hover at 49ft above the Home Point. While the drone is returning, the transmitter will produce short beeps. The LCD screen displays " " .
After the drone returns, you will be restricted to flying it within a 'safety zone,' which is centered around the Home Point and has a radius of 164 ft and a height of 98 ft. The drone will not be able to exit this zone.

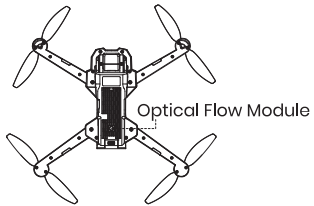
*** If the flight distance is within 16 ft, the drone does not execute the return.**

The Second Stage of Low Voltage RTH ( ) : The drone will automatically return to the Home Point. While the drone is returning, the transmitter will produce prolonged beeps. The LCD screen displays " " .

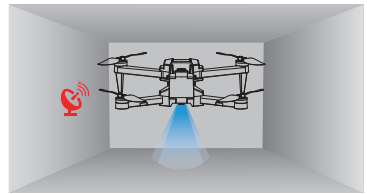
· During the RTH procedure, the drone can NOT avoid obstacles.
· If the GPS signal is weak or unavailable, the RTH cannot be activated.

3.2 Stabilization Functions >>

Optical Flow Positioning



The Optical Flow Positioning System consists of a camera module, which acquires the position information of the drone through visual images to ensure precise positioning of the drone.

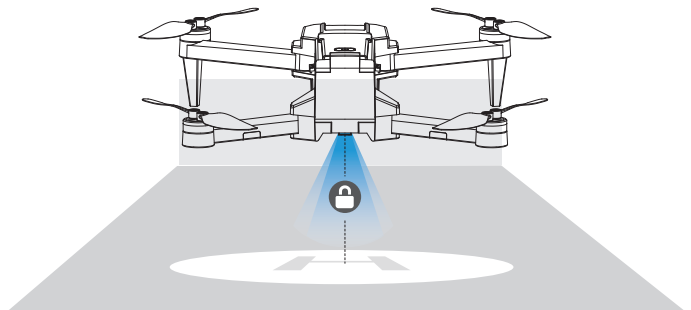


The Optical Flow Positioning System is typically used in an indoor environment when the GPS signal is weak or unavailable. The optimal usage height for Optical Flow Mode is **1.6-9.8 ft**.

⚠
- The precision of the Optical Flow Positioning System is easily affected by the light intensity and features of the surface textures. Once the image sensor is not available, your drone will switch on the altitude-hold function automatically. Please exercise utmost caution when operating the drone under these circumstances:
  - Fly over surfaces without clear patterns or textures.
  - Fly over extremely dark or bright surfaces.
  - Fly in an area where the lighting changes dramatically and frequently.
  - Fly over moving surfaces or objects. (e.g., above crowds, above bushes or grasses swayed by strong winds).
  - Fly over water or transparent surfaces.
  - Fly over highly light reflective surfaces. (e.g., mirrors).
  - Fly over monochrome surfaces (e.g, pure black, red, or green).
  - Flying over surfaces with repeating identical patterns or textures (e.g., tiles with the same design).
  - Flying speed should be controlled not to be too fast.
- Keep sensors clean at all times.
- DO NOT scratch or tamper with the sensors. DO NOT use the aircraft in dusty or humid environments.
- Make sure that the light is bright enough and the surface is with clear textures so that the Optical Flow Positioning can acquire the movement information through recognizing the ground textures.

3.2 Stabilization Functions >>

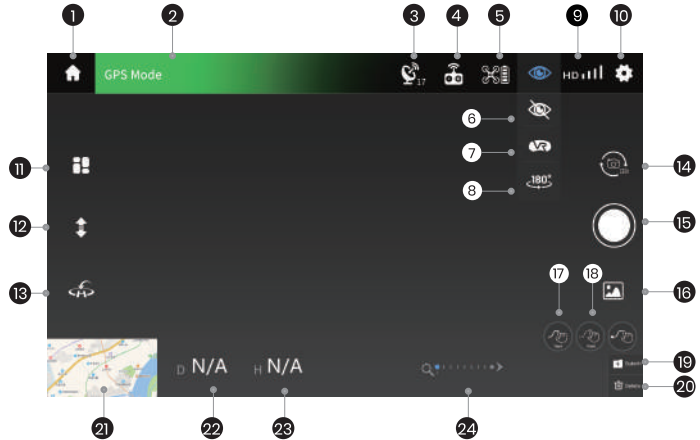
Altitude-Hold Function



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

3.3 APP Functions >>

App Interface



3.3 APP Functions >>

App Interface

1 Return ( ) : Tap to return to the home screen.

2 System Status (GPS Mode) : Displays the flight status and various warning messages.

3 Signal Strength ( ) : Display the strength of the GPS signal.

4 Transmitter Signal ( ) : Displays the signal strength of the transmitter.

5 Battery Level ( ) : Realtime display of the current battery level of the drone.

6 Hide ( ) : Tap to hide the icons on the interface.

7 VR ( ) : Tap to split the screen. Then place the mobile phone into a VR headset (not included) to watch the live-feed in 3D.

8 180° Screen Rotation ( ) : Tap to rotate the screen 180°.

9 WiFi Signal ( ) : Display of the signal strength between the cellphone and the drone.

10 Flight Setting ( ) : Tap to enter the settings menu. From here, you can modify parameters such as flight height/distance, return altitude, and other related settings.

11 Multifunction ( ) : Tap to choose from various flight functions.

12 One-Key Takeoff/Landing ( ) : After unlocking the motors with the transmitter, tap once to take off and hover. Tap again to land on the ground.

13 Return to Home ( ) : Tap to bring the drone back to the Home Point.

14 Photo/Video ( ) : Tap to switch between photo taking and video recording.

15 Shutter (/) : Tap to take a picture or start or stop recording a video.

16 Gallery ( ) : Tap to view the photos and videos taken by the drone camera.

17 TapFly-Track ( ) : Draw a line on the screen to create a route. The drone will fly along the path.

18 TapFly-Point ( ) : Tap a few points on the screen. The drone will fly along the route created by connecting the points you tap in order.

19 Submit ( ) : Tap to submit the route.

20 Delete ( ) : Tap to delete the route.

21 Map ( ) : Tap to switch between Camera View and Map View.

22 Distance (D N/A) : Drone' s horizontal distance from the Home Point.

23 Height (H N/A) : Drone' s vertical distance from the Home Point.

24 Zoom Dial ( ) : Scroll left and right to zoom in and out.

3.3 APP Functions >>

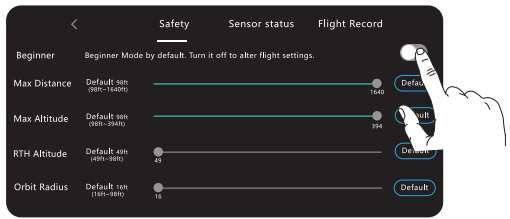
Beginner Mode

It's recommended that beginner pilots first familiarize themselves with the drone by using beginner mode. In Beginner mode, which is the default operating mode, the following settings.

1. Flight Distance is capped between 0-98 ft.
2. Flight Height is restricted to a range of 0-98 ft.
3. RTH Altitude is set to 49 ft by default.
4. The default setting for Orbit Radius is 16 ft.

To alter the settings mentioned above, you'll need to turn off beginner mode first.

Flight Settings On APP



3.3 APP Functions >>

Circle Flight

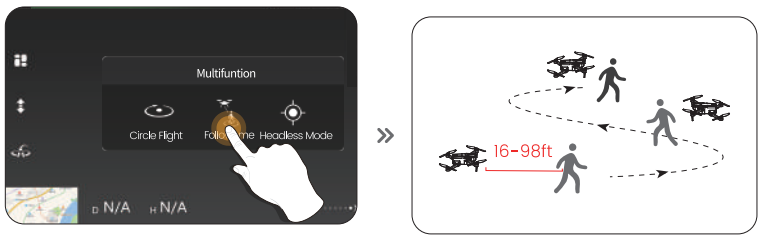
1. Tap the icon first, then select the icon, and follow the prompt box to enter the Circle Flight function.
2. The moment you enter this function, the drone will record its current flight position as the "Circle Flight". It will then continuously circle around that point clockwise. (The default radius is 16 ft).
3. To exit Circle Flight mode, simply tap the icon on the app interface again.

This drone is NOT equipped with obstacle avoidance. Please make sure that there are no obstacles within the circling radius and fly with caution.

3.3 APP Functions >>

Follow Me

When the Follow Me function is enabled, the drone will track your movement by following the GPS signal of your mobile phone.



1. Ensure the drone's flight range is within 16~98 ft.
2. Tap the icon first, then select the icon, and follow the prompt box to enter the Follow Me function — the drone will now follow the mobile phone's coordinates.
3. To exit Follow Me Mode, simply tap the icon on the app interface again.

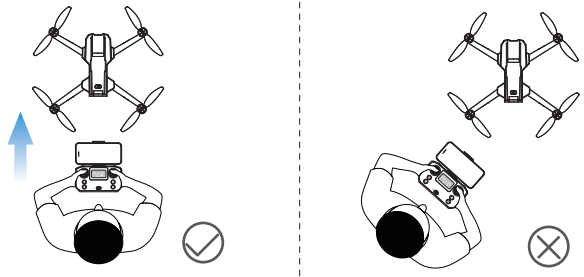
⚠ · The Follow Me function can only be used if the flight range is within 16~98 ft.
· Follow Me function may be difficult to activate if the mobile phone's GPS signal is too weak. This could be caused by signal interference from surrounding buildings, trees, mobile network congestion etc.
· Please use Follow Me function in an open area and be mindful of your surroundings. The drone is NOT equipped with obstacle avoidance.

3.3 APP Functions >>

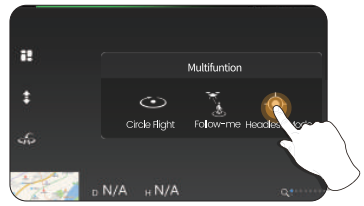
3.3 APP Functions >>

Headless Mode

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



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



1. First tap the icon on the app interface, then select icon by tapping on it. Follow the instructions in the prompt box to activate Headless Mode.
2. Tap the icon again. The drone exits Headless Mode.

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

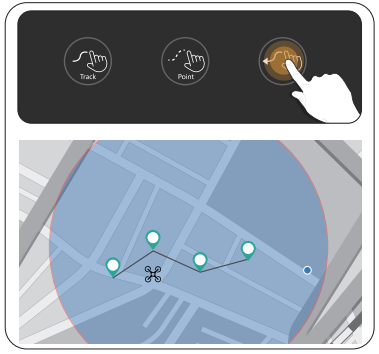
In normal flying mode, the control of the drone movement can sometimes be counter-intuitive for beginners. For instance, when the drone is in the air with its head pointing to your right, if you push the right joystick forward, the drone will fly to your right, instead of flying forward.

With the headless mode, the drone has a fixed "head." In Headless Mode, the drone always remembers the side its head points to during takeoff as the front side. This means that if the drone takes off with its head pointing forward, it doesn't matter how the drone is oriented in the air, when you push the right joystick forward, the drone will fly forward. Or, when its head is pointing to you, if you push the right joystick to the left, the drone will fly to your left. The Headless Mode is a great training tool for beginner pilots. It is also useful when the drone is too far from the pilot (which makes it difficult to tell its orientation). It keeps the drone traveling forward, backward, left, or right when you move the right joystick in those directions, regardless of which way the front of the drone is pointed.Headless Mode

3.3 APP Functions >>

Tap Fly

Before using TapFly, pre-load the map by connecting your phone to the internet and tapping the map icon; auto-loading occurs. Enlarging the map for TapFly is advised.



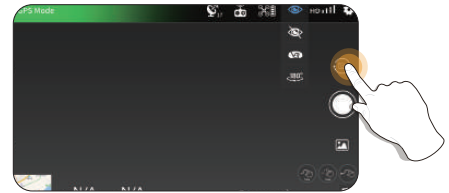
1. Tap on the map first, then tap the icon. Follow the prompt box to enter the TapFly function.
2. **Method 1 :** Tap the icon on the app interface. Draw a line on the screen to create a flight path, tap icon to submit the path. The drone will then fly along this path.

   Method 2 : Tap the icon on the app interface, then tap a few points on the screen. Tap the icon to submit the path. The drone will then fly along the path created by connecting the points you tap in order.
3. Exit the TapFly function by tapping the icon again.

⚠ DO NOT fly the drone towards people, animals, or small/thin objects (e.g. tree branches and power lines) or transparent objects (e.g. glass or water).

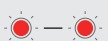
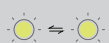
3.3 APP Functions >>

Take Photo/Record Video



1. Tap the icon to switch between photo and video recording modes.
2. Tap the icon to take a photo.
3. Tap the icon to start recording a video. Tap again to stop recording.
4. To view the photos and videos, tap the icon to enter the album.
5. If a TF card is inserted into the drone previously, the photos and the videos will be saved to the app album, the cellphone album and the TF card.
6. If no TF card is inserted, the photos and the videos will be saved to the app album and the cellphone album.

3.4 Drone Status Indicator >>

Indicator Status	Meanings
 Fast flashing yellow	Unsuccessful pairing after powering on the drone.
 Front arm light steady red, rear arm light steady yellow.	Searching for GPS signals/Successfully exited GPS mode
 Front arm light steady red, rear arm light steady green.	GPS signal search successful.
 Front arm light steady red, rear arm light slow flashing red.	Entered first stage of Low Voltage RTH.
 Front arm light steady red, rear arm light fast flashing red.	Entered second stage of Low Voltage RTH.
 Front and rear arm lights alternately flashing yellow	Entered compass calibration

4.1 Specifications >>

- **DRONE**:

Model: HS440G	Weight:227g/8oz
Max Flight Time (per battery) : 23 minutes (in a windless environment)	Max Flight Height: 394ft
Max Wind Speed Resistance: 3.4m/s	Max Takeoff Altitude: 11483 ft/3500m
Operating Temperature Range: 32° bis 104°F	
Size: 135* 75 * 52 mm(folded)	272* 196 * 52 mm(unfold)

- **DRONE BATTERY**:

Capacity: 1700 mAh	Voltage: 7.7 V
Battery Type: Lithium-ion Polymer Battery	Energy: 13.09Wh
Charging Temperature Range: 41° to 104°F	Charging Time: about 180 minutes

- **USB CHARGING CABLE**:

Input: 5V/2A	Rated Power: ≤10W

4.1 Specifications >>

- **TRANSMITTER**:

Operating Frequency: 2452-2474 MHz	Max Flight Distance: 1640ft/500 m (outdoor and unobstructed)
Battery Type: 3 x 1.5V AAA	Operating Temperature Range: 32° to 104°F

- **CAMERA**:

Operating Frequency: 5500-5700MHz	Max Transmission Distance: 1640 ft/500m (outdoor and unobstructed)
Photo Resolution: 3840*2160P (when stored in TF card)	3840*2160P (when stored in cellphone)
Video Resolution: 3840*2160P@25fps (when stored in TF card)	1920*1080P@20fps (when stored in cellphone)
Lens: FOV 105°	Manually Adjustable Range: -90° to 0°
Photo Formats: JPG	Video Formats: MP4
Supported TF Cards: Supports a TF Card (Class 10 or above) with capacity of up to 64 GB.	
Supported File Systems: FAT32	

4.2 Contact Us >>

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

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

+1 (833) 766-4733

www.holystone.com

4.3 Troubleshootings >>

Probleme	Suggested Solutions
Drone is connected to transmitter's Wi-Fi, but no live-feed.	Please make sure only one device is connected to the Wi-Fi.
	Try restarting the drone/cellphone, or pairing them again.
Instable flight/abnormal posture.	Operate the drone in open spaces free from obstructions.
	(1)Manually land the drone immediately and recalibrate the compass (2)Try operating in a different location, ensuring you're away from buildings, power lines, and signal towers.
	Replace with new propellers.
No map shown in app.	Please make sure the map is pre-loaded in the app. If not, run the app first, then disconnect the drone's Wi-Fi and use mobile data to load the map of the current location by tapping the map icon.
Drone cannot execute the Follow-me function.	Ensure both smartphone GPS and drone GPS are turned on and have found a GPS signal.
	Please operate the drone in an open area. Environmental interference may lead to inaccurate GPS positioning of the cellphone.
	Make sure you are within a safe following distance.
Drone cannot take off.	Ensure that the drone and the transmitter are successfully paired.
	Ensure that the battery is full.
	If this is your first time flying the drone, make sure you have completed the compass calibration. (see page 19)
	If you intend to fly indoor, turn off the GPS mode. The LCD screen will show "GPS OFF." (see page 22)
Front lights flash red, rear lights are solid green.	Internal parts malfunctioning, please contact customer service.

4.4 Compliance Information >>

FCC Notice:
This device complies with part 15 of the FCC Rules. Operation is subject to the following two conditions:
(1) This device may not cause harmful interference, and
(2)This device must accept any interference received, including interference that may cause undesired operation.
The Supplier's Declaration of Conformity is available at the following address:
https://www.holystone.com/Download/US/HS440G_FCC_sDoC.pdf
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.
Changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

4.4 Compliance Information >>

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 is restricted to indoor use when operating in the 5150 to 5250 MHz frequency range.
This device complies with Canada Industry licence-exempt RSS standard(s).
Operation is subject to the following two conditions:
(1) this device may not cause interference; and
(2) this device must accept any interference. Including interference that may cause undesired operation of the device.

CAN ICES-003 (B):
Avis d'Industrie Canada
Le présent appareil est conforme aux CNR d'industrie Canada applicables aux appareils radio 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.

4.4 Compliance Information >>

CAN NMB-003 (B):
RF Exposure
Radiation Exposure Statement:
This equipment complies with IC radiation exposure limits set forth for an uncontrolled environment. This equipment should be installed and operated with a minimum distance of 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.

EU RF Power(EIRP): <14 dBm (2452MHz-2474 MHz)

Caution

1. The max operating of the EUT is 40°C, and shouldn't be lower than 0°C.
2. The device complies with RF specifications when the device used at 0mm from your body.
3. Declaration of Conformity.
We, Xiamen Huoshiquan Import & Export CO.,LTD
hereby, declare that the compliance of the essential requirements with the
Directive 2014/53/EU, the RoHS Directive 2011/65/EU and Safety
Directive 2009/48/EC have been fully fulfilled on our product with

4.4 Compliance Information >>

indication below:
Product Name: Remote control four axis series
Model/Mark:HS440G/HolyStone
The Statement of compliance is available at the following address:
http://www.holystone.com/Download/CE/HS440G_EU_DOC.pdf
This product can be used among EU member states.

MANUFACTURER INFORMATION:
Manufactured by
Xiamen Huoshiquan Import & Export CO.,LTD.
Address: Unit 1, Room 501, Hongxiang Building, No.258 Hubin Nan Road, Siming District, Xiamen, China
+1 (833) 766-4733

MTOM Statement:
HS440G is a quadrotor drone. The MTOM of HS440G is 227g, including the propellers, the Flight Battery, TF card, which is compliant with C0 requirements.
Users must follow the instructions below to comply with the MTOM C0 requirements. Otherwise, the drone cannot be used as a C0 aircraft:
1. DO NOT add any payload to the aircraft except the items listed in the List of Items including qualified accessories section.
2. DO NOT use any non-qualified replacement parts, such as flight batteries or propellers, etc.
3. DO NOT retrofit the aircraft.

4.4 Compliance Information >>

List of Items including qualified accessories
1. HS440G Propellers (0.5g each propeller)
2. HS440G Flight Battery (approx. 73 g)
3. HS440G TF card (approx. 0.3 g)

List of Spare and Replacement Parts
1. HS440G Propellers (0.5g each propeller)
2. HS440G Flight Battery (approx. 73 g)

List of Safe Guards
Below is the list of the mechanical safeguards and operation safeguards for HS440G.
1. Emergency Stop function can be performed to stop the motors in case of an emergency. Refer to the Emergency Stop section for details.
2. Prevent the drone from flying in restricted airspace. Refer to the Flight Environment Requirements section for details.
3. The Return to Home (RTH) function. Refer to the GPS Return to Home section for details.
4. The Optical Flow Positioning. Refer to the Optical Flow Positioning section for details.

MADE IN CHINA(CN)