Holy Stone HS440

Holy Stone HS440 Drone User Manual

Model: HS440

1. Introduction

This manual provides essential information for the safe operation, setup, maintenance, and troubleshooting of your Holy Stone HS440 Foldable RC Quadcopter Drone. Please read this manual thoroughly before operating the drone to ensure proper use and to avoid damage or injury.

The Holy Stone HS440 is a compact and versatile drone designed for both beginners and experienced pilots. It features a 1080p camera for impressive aerial photography and video recording, intelligent flight modes, and a portable design.



Image: Holy Stone HS440 Drone with its remote controller, two batteries, spare propellers, and a carrying case.

Key Features:

- **1080p HD Camera:** Capture high-resolution photos and videos. The camera angle is adjustable from 0° to 90° via the remote control.
- **First Person View (FPV):** Stream live video directly to your mobile phone for an immersive flight experience.
- **Intelligent Flight Modes:** Includes automatic rotations, circle flight, and Tap-Fly mode for dynamic aerial shots.
- **Extended Flight Time:** Equipped with two batteries, providing up to 40 minutes of flight time.
- **Portable and Foldable Design:** Easy to fold and store in the included carrying case, ideal for travel.
- **Beginner-Friendly Controls:** Features like Headless Mode, One-Button Take-off/Landing, and Altitude Hold simplify operation for new pilots.
- **Gravity Sensor Control:** Allows for intuitive control by tilting your mobile device.

2. Setup

2.1 Package Contents

Before starting, ensure all components are present in the package:

- Holy Stone HS440 Drone
- Remote Controller
- Drone Batteries (x2)
- USB Charging Cables (x2)
- Spare Propellers (x4)
- Carrying Case
- User Manual (this document)



Image: A visual representation of all included components: the drone, remote, two batteries, two charging cables, four spare propellers, and the instruction manual.

2.2 Battery Charging

The drone comes with two rechargeable Lithium Polymer batteries. Fully charge both batteries before first use.

1. Connect the USB charging cable to the drone battery.
2. Plug the other end of the USB cable into a USB power adapter (e.g., phone charger, computer USB port).
3. The indicator light on the charging cable will show the charging status (e.g., red for charging, green for fully charged).
4. Charging typically takes approximately 90-120 minutes per battery.



Image: Two Holy Stone drone batteries, highlighting the dual battery system for extended flight time.

2.3 Remote Controller Setup

The remote controller requires 3x AAA batteries (not included).

1. Open the battery compartment on the back of the remote controller.
2. Insert 3 AAA batteries, ensuring correct polarity (+/-).
3. Close the battery compartment.

2.4 Drone Preparation

1. **Unfold the Drone Arms:** Gently unfold all four propeller arms until they click into place.
2. **Install Propellers:** If not pre-installed, attach the propellers according to the markings (A/B) on the propellers and motor shafts. Ensure they are securely fastened.
3. **Insert Drone Battery:** Slide a fully charged battery into the battery compartment on the drone until it clicks securely.

2.5 App Installation (Optional for FPV and Advanced Features)

For FPV live video feed and advanced control features, download the Holy Stone app from your mobile device's app store (iOS/Android). Search for "Holy Stone" or refer to the QR code in the quick start guide if available.

3. Operating Instructions

3.1 Powering On and Pairing

1. **Power On Drone:** Press and hold the power button on the drone until the indicator lights turn on.
2. **Power On Remote:** Press the power button on the remote controller.
3. **Pairing:** Push the left joystick (throttle) up to the maximum position, then pull it down to the minimum position. The drone lights will stop flashing and become solid, indicating successful pairing.

3.2 Calibration

For stable flight, it is recommended to calibrate the drone before each flight.

- Place the drone on a flat, level surface.
- Push both joysticks down and to the right simultaneously until the drone lights flash rapidly, then become solid. This indicates successful calibration.

3.3 Take-off and Landing

- **One-Button Take-off:** After pairing and calibration, press the One-Button Take-off/Landing button. The drone will automatically ascend and hover at a certain altitude.
- **Manual Take-off:** Push both joysticks down and outwards to start the propellers. Slowly push the left joystick (throttle) up to ascend.
- **One-Button Landing:** Press the One-Button Take-off/Landing button again. The drone will automatically descend and land.
- **Manual Landing:** Slowly pull the left joystick (throttle) down to descend. Once landed, pull both joysticks down and inwards to stop the propellers.



Image: Visual guide to beginner-friendly features including One-Button Take-off, Altitude Hold, and Headless Mode.

3.4 Basic Flight Controls

- **Left Joystick (Throttle/Yaw):**
  - Up/Down: Ascend/Descend (Throttle)
  - Left/Right: Rotate Left/Right (Yaw)
- **Right Joystick (Forward/Backward/Left/Right):**
  - Up/Down: Fly Forward/Backward (Pitch)
  - Left/Right: Fly Left/Right (Roll)

3.5 Advanced Flight Modes and Features

- **Headless Mode:** Activates a mode where the drone's orientation is relative to the pilot, regardless of the drone's front direction. Ideal for beginners.
- **Altitude Hold:** The drone maintains a stable altitude, allowing you to focus on direction.

- **Gravity Sensor Control:** (Via App) Control the drone's movement by tilting your mobile device.
- **Speed Switch:** The drone has multiple speed modes (e.g., 2 speeds) for different flying conditions and skill levels.
- **Automatic Rotations:** Perform 360-degree rotations in the air.
- **Circle Flight:** The drone flies in a circular path around a central point.
- **Tap-Fly Mode:** (Via App) Draw a path on your mobile screen, and the drone will follow it automatically.
- **Gesture Control:** (Via App) Perform specific hand gestures to trigger photo or video recording.



Image: Illustrations of intelligent flight functions: Quick Rotation, Circle Mode, and Tap-Fly Mode.



Image: Two individuals demonstrating hand gestures that can be used to control the drone's camera functions.

3.6 Camera Operation

The HS440 drone is equipped with a 1080p camera for high-quality aerial imaging.

- **Adjustable Camera Angle:** Use the dedicated button on the remote control to adjust the camera's tilt angle from 0° to 90° during flight.
- **Photo/Video Recording:** Press the photo button to take a picture or the video button to start/stop recording.
- **FPV Live Feed:** Connect your mobile device to the drone's Wi-Fi network and open the Holy Stone app to view a live feed from the camera.



Image: Details of the drone's camera capabilities, including 1080p UHD resolution, 112-degree field of view, and 90-degree adjustable angle.

3.7 Safety Guidelines

- Always fly in open areas, away from people, animals, and obstacles.
- Do not fly near airports or restricted airspace.
- Avoid flying in strong winds or adverse weather conditions.
- Maintain visual line of sight with the drone at all times.
- Ensure propellers are clear of obstructions before take-off.
- In case of emergency, press the emergency stop button on the remote controller.



Image: Overview of the drone's safety and comfort aspects, including its lightweight (166g), foldable design, and emergency stop function.

4. Maintenance

4.1 Propeller Care

- Regularly inspect propellers for any damage (cracks, bends).
- Replace damaged propellers immediately using the provided spare parts.
- Ensure propellers are clean and free of debris before each flight.

4.2 Battery Care

- Do not overcharge or over-discharge batteries.
- Store batteries in a cool, dry place, away from direct sunlight and extreme temperatures.

- If storing for extended periods, charge batteries to approximately 50% capacity.

4.3 Cleaning and Storage

- Clean the drone body with a soft, dry cloth. Avoid using harsh chemicals or solvents.
- Ensure the drone is dry before storing.
- Store the drone and all accessories in the provided carrying case to protect them from dust and damage.

5. Troubleshooting

Problem	Possible Cause	Solution
Drone does not power on.	Battery is not charged or not inserted correctly.	Ensure battery is fully charged and securely inserted.
Remote controller does not respond.	Remote batteries are low or incorrectly installed.	Replace remote batteries, check polarity.
Drone cannot be paired.	Incorrect pairing procedure or interference.	Repeat pairing steps carefully. Ensure no strong Wi-Fi interference.
Drone is unstable or drifts during flight.	Not calibrated, propellers damaged, or strong wind.	Perform calibration. Check and replace damaged propellers. Avoid flying in strong winds.
FPV live feed is laggy or disconnected.	Weak Wi-Fi signal, too far from drone, or app issue.	Ensure mobile device is close to drone. Restart app and drone. Check for app updates.
Drone motors are not spinning.	Drone not armed, or propellers obstructed.	Perform manual take-off arming sequence (joysticks down and outwards). Check for obstructions.

6. Specifications

Feature	Detail
Brand	Holy Stone
Model	HS440
Product Dimensions	28.9 x 19.5 x 5.9 cm
Item Weight	166 g
Batteries	2 Lithium Polymer (included)
Battery Capacity	1900 mAh
Video Resolution	1080p

Feature	Detail
Camera Adjustment	Remote Control (0-90 degrees)
Special Features	First Person View (FPV), Altitude Hold, Headless Mode, Gravity Sensor, One-Key Take-off/Landing
Connectivity Technology	Wi-Fi
Skill Level	All
Material	Plastic



Image: The Holy Stone HS440 drone with its dimensions (28.9 x 19.5 x 5.9 cm) and an illustration of the two batteries providing 40 minutes of flight time.

7. Warranty and Support

Holy Stone is committed to customer satisfaction. If you encounter any issues or have questions regarding your HS440 drone, please do not hesitate to contact our support team.

Contact Information:

- **Phone:** +1 (833) 766-4733
- **Email (USA):** usa@holystone.com
- **Email (EU):** eu@holystone.com
- **Email (CA):** ca@holystone.com
- **Email (AU):** au@holystone.com

We offer prompt responses and friendly support to ensure you have the best experience with your Holy Stone product.

© 2024 Holy Stone. All rights reserved.

Ask a question about this manual

Ask about setup, troubleshooting, compatibility, parts, safety, or missing instructions. Manuals+ will review the question and use this page's manual context to help answer it.

Name

Anonymous

Email

you@example.com

After a successful submission, we securely hash the supplied account or form email before sending it to Microsoft Advertising for conversion attribution. Privacy details.

Question

Example: How do I reset this device or fix this error?

Details

Model number, symptoms, what you tried, or the section of the manual you are using.

Submit question