Holy Stone HS900

Holy Stone HS900 GPS Drone

User Manual

1. Introduction

Welcome to the Holy Stone HS900 GPS Drone User Manual. This guide provides comprehensive instructions for the safe operation, setup, maintenance, and troubleshooting of your new Holy Stone HS900 drone. Designed for both novice pilots and seasoned enthusiasts, the HS900 combines cutting-edge technology with intuitive features to offer an unparalleled aerial experience, allowing you to capture the world from breathtaking heights.

The Holy Stone HS900 is a lightweight, FAA-compliant drone weighing only 249 grams, eliminating the need for FAA registration or a Remote ID in the United States. It features a 3-axis brushless gimbal for stable filming, a professional 4K camera capable of 48MP photos and 4K/30FPS video, and an enhanced GPS positioning system for accurate visual tracking and smart return functions.

2. Safety Guidelines

Always prioritize safety when operating your drone. Failure to follow these guidelines may result in injury, damage to property, or legal consequences.

- **Pre-Flight Check:** Before each flight, inspect the drone, propellers, battery, and remote control for any damage. Ensure all components are securely attached.
- **Flight Environment:** Fly in open areas, away from people, buildings, trees, and power lines. Avoid flying over crowds or private property.
- **Weather Conditions:** Do not fly in strong winds (the HS900 has Level 5 wind resistance, but extreme conditions should be avoided), rain, snow, or fog.
- **Battery Safety:** Use only original Holy Stone batteries and charging equipment. Do not overcharge or over-discharge batteries. Store batteries in a cool, dry place.
- **Maintain Visual Line of Sight:** Always keep the drone within your visual line of sight during flight.
- **Respect Local Regulations:** Be aware of and comply with all local aviation laws and regulations, including no-fly zones.
- **Emergency Procedures:** Familiarize yourself with the drone's emergency landing and return-to-home functions.

3. Package Contents

Verify that all items are present in your package:

- Holy Stone HS900 Drone
- Remote Control
- Intelligent Flight Battery (Quantity: 1, as per product description)
- Charging Hub
- Spare Propellers
- USB Charging Cable
- User Manual (this document)
- Carrying Case (as implied by reviews)



Figure 3.1: Complete Holy Stone HS900 package contents, including the drone, remote, batteries, charging hub, and carrying case.

4. Product Overview

4.1 Drone Components



Figure 4.1: The Holy Stone HS900 drone featuring its 3-axis brushless gimbal for ultra-stable shooting.

- **Propellers:** Four foldable propellers for flight.
- **Motors:** Brushless motors for efficient and powerful flight.
- **Camera & Gimbal:** Integrated 4K camera with a 3-axis brushless gimbal for stable video and photo capture.
- **Battery Compartment:** Located at the rear of the drone for the intelligent flight battery.
- **Sensors:** GPS module and visual sensors for precise positioning and tracking.



Figure 4.2: Detailed view of the HS900's professional 4K camera, highlighting its SONY 1/2.3" CMOS sensor, 48MP photo capability, and 4K/30FPS video recording.

4.2 Remote Control

The remote control provides intuitive command over the drone's flight and camera functions.



Figure 4.3: The Holy Stone HS900 remote control with a smartphone displaying the live feed, demonstrating the impressive 20,000 feet transmission range.

- **Control Sticks:** For controlling drone movement (throttle, yaw, pitch, roll).
- **Power Button:** To turn the remote control on/off.
- **Return-to-Home Button:** Initiates the automatic return-to-home function.
- **Photo/Video Button:** To capture photos or start/stop video recording.
- **Gimbal Dial:** To adjust the camera's tilt angle.
- **Phone Holder:** To mount your smartphone for live video feed and app control.

5. Setup

5.1 Battery Charging

Ensure the intelligent flight battery is fully charged before use. The Holy Stone HS900 Charging Hub allows for rapid charging.

- Connect the charging hub to a power source using the provided USB cable.
- Insert the intelligent flight battery into the charging hub.
- The battery can be fully charged in approximately 70 minutes. Refer to the charging hub's indicators for charging status.



Figure 5.1: The Holy Stone HS900 intelligent flight battery and compatible charging manager, highlighting its 30-minute flight time and QC3.0 rapid charge capability.

5.2 Propeller Installation

The HS900 features foldable propellers. Ensure they are unfolded and securely locked into place before flight. If replacing, match the marked propellers (e.g., A and B) to their corresponding motor arms.

5.3 Remote Control and App Setup

- Download the official Holy Stone app from your device's app store.
- Power on the remote control.

- Insert the charged battery into the drone and power it on.
- Connect your smartphone to the remote control via the phone holder and connect to the drone's Wi-Fi network as instructed in the app.
- Follow the on-screen instructions in the app to calibrate the drone and prepare for flight.

6. Operating the Drone

6.1 Pre-Flight Checks

- Ensure GPS signal is strong (indicated in the app).
- Check battery levels of both drone and remote control.
- Verify propellers are unfolded and secure.
- Confirm the camera gimbal is free to move.

6.2 Takeoff and Landing

- **Automatic Takeoff:** Press the auto-takeoff button in the app or on the remote control. The drone will ascend to a safe height and hover.
- **Manual Takeoff:** Push both control sticks down and out to start the motors, then slowly push the left stick up to ascend.
- **Automatic Landing:** Press the auto-landing button. The drone will descend and land automatically.
- **Manual Landing:** Slowly pull the left stick down to descend. Once landed, pull both sticks down and in to stop the motors.

6.3 Flight Modes and Intelligent Features

- **GPS Positioning:** The enhanced GPS system ensures stable hovering and precise positioning.
- **Visual Tracking Follow Me:** The drone can intelligently recognize and follow a designated object. Ensure clear line of sight for optimal performance.
- **Smart Return:** The drone will automatically return to its takeoff point if the battery is low, connection is lost, or the Return-to-Home button is pressed.



Figure 6.1: The Holy Stone HS900 utilizing its visual tracking feature to follow a subject, supported by GPS navigation and cruise control.

6.4 Camera Operation and QuickShots

The HS900's 4K camera captures stunning aerial footage and photos.

- **Photo Capture:** Press the photo button on the remote or in the app to take 48MP still images. Supported formats include JPEG and DNG (RAW).
- **Video Recording:** Press the video button to start/stop recording 4K/30FPS or 1080P/60FPS video. Video is saved in MP4 format.
- **Gimbal Control:** Use the gimbal dial on the remote to adjust the camera's vertical angle.



Figure 6.2: Overview of the Holy Stone HS900's QuickShots shooting modes: 1-Key Soaring, 1-Key Ascension, Continuous Shooting, and Time-Lapse Shooting.

- **1-Key Soaring:** Automatic flight path for a smooth upward shot.
- **1-Key Ascension:** Drone ascends vertically while recording.
- **Continuous Shooting:** Captures multiple photos in quick succession.
- **Time-Lapse Shooting:** Records a series of images over time to create a time-lapse video.

7. Maintenance

Proper maintenance ensures the longevity and optimal performance of your Holy Stone HS900 drone.

- **Cleaning:** Regularly clean the drone body, propellers, and camera lens with a soft, dry cloth. Avoid using liquids or solvents.
- **Propeller Inspection:** Check propellers for cracks, bends, or damage before each flight. Replace damaged propellers immediately.
- **Battery Care:** Store batteries at approximately 50-60% charge if not used for extended periods. Do not expose batteries to extreme temperatures.

- **Gimbal Protection:** Always use the gimbal protector when transporting or storing the drone to prevent damage.
- **Firmware Updates:** Periodically check the Holy Stone app for firmware updates to ensure your drone has the latest features and bug fixes.



Figure 7.1: The Holy Stone HS900 incorporates multiple protection features, including shut-down, battery overcharge/over-discharge, tilt, and blade-stuck protection.

8. Troubleshooting

This section addresses common issues you might encounter with your Holy Stone HS900 drone.

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. Press and hold the power button for a few seconds.

Problem	Possible Cause	Solution
Cannot connect to the drone's Wi-Fi.	Drone not powered on; Wi-Fi disabled on phone; incorrect Wi-Fi network selected.	Ensure drone is on. Enable Wi-Fi on your phone and select the correct drone network. Restart both drone and phone if necessary.
Drone drifts or is unstable during flight.	Insufficient GPS signal; compass not calibrated; strong winds.	Fly in an open area with clear sky for strong GPS. Perform compass calibration as per app instructions. Avoid flying in strong winds.
Poor image/video quality or no recording.	SD card issue; dirty lens; incorrect camera settings; gimbal obstruction.	Ensure a compatible micro SD card is inserted and formatted. Clean the camera lens. Check camera settings in the app. Ensure gimbal is not obstructed.
Visual Tracking is unreliable.	Subject too far or moving too fast; poor lighting; complex background.	Ensure the subject is within optimal range and moving at a moderate speed. Fly in well-lit conditions with a clear background.

9. Specifications

Feature	Detail
Product Weight	249g / 8.7 ounces
Product Size (Folded)	5.6in x 3.2in x 2.4in (143mm x 82.8mm x 62mm)
Product Size (Unfolded)	6.5in x 8.5in x 2.4in (167.4mm x 217.8mm x 62mm)
Drone Battery	Lithium ion polymer, 7.7V, 2250mAh, 17.32Wh
Flight Time	Up to 30 minutes
Battery Charging Time	Approx. 70 minutes (with Charging Hub)
Remote Control Frequency	2.4GHz
Remote Control Distance	Up to 20,000 feet
Photo Resolution	8192*4608 / 3840*2160 (48MP)
Video Resolution	FHD: 1920*1080 (1080P 60fps), UHD: 3840*2160 (4K 30fps)
Camera Sensor	SONY 1/2.3" CMOS Sensor
Gimbal	3-Axis Brushless Gimbal
Wind Resistance	Level 5 (up to 38kph)
Supported Image Format	JPEG, DNG
Video Capture Format	MP4

Feature	Detail
Media Type	SD Card (Micro SD)

10. Warranty and Support

For detailed warranty information, please refer to the warranty card included with your product or visit the official Holy Stone website. Holy Stone provides customer support for product inquiries, technical assistance, and warranty claims. You can find more information and contact support through the official Holy Stone Store: Holy Stone Store on Amazon.

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