Holy Stone HS110D

Holy Stone HS110D FPV RC Drone User Manual

Model: HS110D

1. Introduction

Welcome to the world of aerial exploration with your new Holy Stone HS110D FPV RC Drone. This manual provides essential information for safe operation, setup, and maintenance of your quadcopter. Please read it thoroughly before your first flight to ensure optimal performance and safety.
The HS110D is designed for ease of use, featuring a 1080P HD camera for stunning aerial footage, intelligent flight modes like Altitude Hold and Headless Mode, and intuitive controls including Voice and Gesture control. Enjoy capturing memorable moments and exploring the skies!

2. Key Features

- **1080P FOV 120° HD FPV Camera:** Capture distortion-free images and live video directly on your smartphone with a wide-angle lens.
- **Altitude Hold:** Maintain a stable hover at a set altitude, allowing for easier focus on photography and video recording.
- **Headless Mode:** Simplifies flight control by orienting the drone relative to the pilot, regardless of the drone's front direction.
- **Mobile Control:** Utilize the dedicated APP for advanced functions including Voice Control, Gesture Control (Scissor for photos, Paper for videos), Trajectory Flight, and Gravity Sensor Control.
- **3D Flip:** Perform exciting aerial stunts with a single button press.
- **2 Modular Batteries:** Provides approximately 20 minutes of flight time per battery, with easy and safe replacement.

3. What's in the Box

Your Holy Stone HS110D package includes:

- 1 x Holy Stone HS110D FPV RC Drone
- 1 x Remote Control
- 2 x Modular Batteries (1 pre-installed, 1 separate)
- 4 x Propellers (pre-installed)
- 4 x Spare Propellers
- 1 x USB to Micro USB Charging Cable
- 4 x Propeller Guards
- 2 x Landing Gear (pre-installed)
- 2 x Spare Landing Gear
- 1 x Screwdriver
- 1 x User Manual (this document)
- 2 x Spare Light Covers



Image: Complete package contents of the Holy Stone HS110D drone.

4. Setup Guide

4.1. Battery Charging

Before your first flight, ensure both drone batteries are fully charged. Each modular battery provides approximately 20 minutes of flight time and takes about 2 hours to charge. Batteries must be charged one at a time by inserting them into the drone and connecting the drone to a USB power source using the provided Micro USB cable.



Image: Modular battery being inserted into the Holy Stone HS110D drone.

4.2. Propeller Installation

The drone comes with propellers pre-installed. If replacement is needed, use the provided screwdriver to attach new propellers, ensuring they are correctly oriented (indicated by markings on the propellers and drone arms).

4.3. Remote Control Pairing

To pair the remote control with the drone, power on both devices. Move the left throttle stick on the remote control up and then down once. The drone's lights will indicate successful pairing.

5. Operating Instructions

5.1. Takeoff and Landing

After pairing, press the 'engine start' button on the remote. The drone will instantly start its propellers. To take off, gently push the throttle stick upwards. For automatic landing, press the designated landing button. You can also land manually by slowly pulling the throttle stick down.

5.2. Flight Modes and Controls

The HS110D offers several intelligent flight modes for enhanced control and experience:

- **Altitude Hold:** The drone will automatically maintain its current altitude, allowing you to focus on directional control.
- **Headless Mode:** When activated, the drone's forward direction will always be the same as the pilot's forward direction, simplifying control, especially when the drone is out of sight.
- **Voice Control:** Use simple voice commands through the app to control basic flight functions (e.g., "Fly", "Land", "Forward", "Backward", "Left", "Right").
- **Gesture Control:** Perform specific hand gestures in front of the camera to trigger photo or video recording. A "Scissor" gesture takes a photo, and a "Paper" gesture starts video recording.
- **Trajectory Flight:** Draw a flight path on your smartphone screen, and the drone will automatically follow it.
- **Gravity Sensor Control:** Tilt your smartphone to control the drone's movement, providing an intuitive flying experience.



Image: Smart Control features including Voice Control and Trajectory Flight.



Image: Gravity Control in action, allowing intuitive drone movement by tilting the smartphone.



Image: Gesture Control feature for hands-free photo and video capture.

5.3. Speed Modes

The drone features 4 adjustable speed modes. Speed 1 is the slowest, ideal for beginners or detailed video recording. Speeds 2 and 3 offer increased agility for general flying. Speed 4 is the fastest, suitable for experienced pilots or flying in windy conditions, though it requires more precise control.

6. Camera and FPV Functionality

The Holy Stone HS110D is equipped with a 1080P HD camera with a 120-degree Field of View (FOV) for capturing high-quality photos and videos. The camera is fixed and points forward. Live video feed (FPV) is transmitted to your smartphone via the Holy Stone app, allowing you to see what the drone sees in real-time. While the live feed is generally good quality, minor delays may occur. The camera also supports Micro SD card recording (card not included) for higher quality captures.



Image: The 1080P FPV Camera with 120-degree wide angle lens.

7. Maintenance

7.1. Battery Care

To prolong battery life, allow batteries to cool down before recharging. Store batteries in a cool, dry place away from direct sunlight. Do not overcharge or over-discharge the batteries.

7.2. General Cleaning

Regularly inspect and clean the drone, especially the propellers and motors, to remove any dust, dirt, or debris that could affect performance. Use a soft, dry cloth for cleaning. Avoid using harsh chemicals or solvents.

8. Troubleshooting

If you encounter issues with your Holy Stone HS110D, consider the following common solutions:

- **Drone not responding:** Ensure the remote control and drone are fully charged and properly paired. Re-pair if necessary.
- **Propellers not spinning:** After syncing, ensure you press the "engine start" button. If propellers are fouled (e.g., by tall grass), the drone may enter a "fault" condition (all four lights flashing red) and require re-syncing after clearing the obstruction.
- **Short flight time:** Ensure batteries are fully charged. Battery performance can diminish over time; consider replacing older batteries.
- **Unstable flight:** Perform a calibration of the drone's gyroscopes as per the quick start guide. Ensure there is no strong wind interference.
- **FPV connection issues:** Ensure your smartphone's Wi-Fi is connected to the drone's network. Restart the app and the drone if connection is lost.

For more detailed troubleshooting or persistent issues, please refer to the official Holy Stone support channels.

9. Specifications

Attribute	Value
Brand	Holy Stone
Model Name	HS110D
Age Range (Description)	14 years and up
Color	Black
Video Capture Resolution	1080p
Effective Still Resolution	250 MP
Connectivity Technology	Wi-Fi
Included Components	Camera, Remote Control, Battery
Skill Level	Beginner
Item Weight	149 Grams (5.3 ounces)
Battery Capacity	1000 Milliamp Hours
Video Capture Format	MP4
Remote Control Technology	Wi-Fi
Control Type	Remote Control
Media Type	SDHC
Maximum Range	100 Meters

Material	Plastic
Wireless Communication Technology	Wi-Fi
Battery Cell Composition	Lithium Polymer
Are Batteries Included	Yes
Supported Image Format	JPEG
Video Output Resolution	1920x1080 pixels
Remote Control Included?	Yes
Optical Sensor Technology	CMOS
Rechargeable Battery Included	Yes
Product Dimensions	12.6"L x 12.6"W x 3.54"H
Manufacturer	Holy Stone

10. Warranty and Support

Holy Stone is committed to customer satisfaction. For any product-related inquiries, technical support, or warranty claims, please contact Holy Stone customer service directly. Information can be found in the included documentation or via the official Holy Stone website.
Optional protection plans are available for purchase to extend coverage beyond the standard warranty. These plans may include:

- 2-Year Protection Plan
- 3-Year Protection Plan
- Complete Protect (monthly plan covering eligible purchases)

For additional resources, you may refer to the official User Guide PDF:Holy Stone HS110D User Guide (PDF)

11. Safety Guidelines

Always prioritize safety when operating your drone. Adhere to the following guidelines:

- Fly in open, clear areas away from people, animals, and obstacles.
- Avoid flying in strong winds or adverse weather conditions.
- Maintain visual line of sight with the drone at all times.
- Do not fly near airports or restricted airspace.
- Ensure all propellers are securely attached before flight.
- Keep fingers and loose clothing away from spinning propellers.
- Follow all local regulations and laws regarding drone operation.

- Perform pre-flight checks, including battery levels and drone calibration.

An emergency shutdown can be executed by simultaneously pressing two specific buttons on the remote control (refer to the quick start guide for exact button combination).

© 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