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Holy Stone HS700D

Holy Stone HS700D FPV Drone Instruction Manual

Model: HS700D | Brand: Holy Stone

1. Introduction

This manual provides essential information for the safe and effective operation of your Holy Stone HS700D FPV Drone. Please read all instructions carefully before use to ensure proper functionality and to prevent damage or injury. The HS700D is equipped with a 4K HD camera, GPS-assisted flight modes, brushless motors, and a modular battery for an enhanced flying experience.

2. Package Contents

Verify that all items listed below are included in your package:

- Holy Stone HS700D Drone
- Remote Control
- Modular Battery (2800mAh)
- Propellers (main set + spare)
- 4K HD Camera
- USB Charging Cable
- Screwdriver and Screws
- Instruction Manual

Figure 2.1: Holy Stone HS700D Drone package contents. Includes the drone, remote control, battery, propellers, camera, and charging accessories.

3. Setup

3.1 Battery Installation and Charging

The drone uses a modular 2800mAh intelligent battery. Ensure the battery is fully charged before each flight.

1. Insert the fully charged modular battery into the drone's battery compartment until it clicks securely into place.
2. To charge, connect the battery to the provided USB charging cable and plug it into a suitable USB power source. The LED indicators on the battery will show the charging status.
3. The remote control also has a rechargeable battery. Use the provided USB cable to charge the remote control.

3.2 Propeller Installation

The HS700D features quick-release propellers for easy installation and replacement.

1. Match the propellers with the corresponding motor arms (A to A, B to B).
2. Place the propeller onto the motor shaft and rotate it until it locks into place.
3. Ensure all propellers are securely attached before flight.

Figure 3.1: Brushless motors and quick-release propellers for the Holy Stone HS700D drone.

3.3 Controller Setup and Phone Connection

The remote control allows for precise drone operation and connects to your smartphone for FPV (First Person View) and advanced features.

1. Extend the phone holder on the remote control and securely place your smartphone.
2. Connect your smartphone to the remote control using the appropriate cable (USB-C, Lightning, or Micro USB). This provides a stable connection for real-time video transmission.
3. Download and install the Holy Stone drone app on your smartphone.
4. Power on the remote control.

3.4 Drone Calibration

Before the first flight and after any significant change in location, calibrate the drone's compass and gyroscope.

1. Place the drone on a flat, level surface.
2. Follow the calibration instructions provided in the Holy Stone app or the detailed user manual. This typically involves rotating the drone horizontally and vertically.

4. Operating Instructions

4.1 Basic Flight Controls

Familiarize yourself with the remote control sticks and buttons for basic flight maneuvers.

- **Quick Launch:** Press the one-key take-off button for automatic ascent.
- **Altitude Hold:** The drone maintains its altitude automatically, allowing you to focus on directional control.
- **Headless Mode:** Simplifies flight by eliminating the need to distinguish the drone's head direction. The drone will move relative to the pilot's orientation.

4.2 GPS-Assisted Flight Modes

The HS700D utilizes GPS for enhanced stability and intelligent flight features.

Figure 4.1: GPS Auto Return Home feature of the Holy Stone HS700D drone.

- **GPS Hover:** The drone maintains a stable position in the air, even in light winds.
- **Return to Home (RTH):** The drone will automatically return to its takeoff point under conditions such as low battery, signal loss, or manual activation. Ensure your RTH altitude is set appropriately in the app to clear obstacles.
- **Follow Me Mode:** The drone will automatically follow the remote control (and thus the pilot's smartphone) and record video with the camera pointed towards you.

Figure 4.2: Holy Stone HS700D drone operating in Follow Me Mode.

- **Custom Flight Path:** Use the app to draw a desired flight path on the map, and the drone will follow it automatically.

Figure 4.3: Custom Flight Path feature of the Holy Stone HS700D drone.

4.3 Camera Operation

The drone is equipped with a 4K HD camera and 5G WiFi transmission for live video feed.

- **Live Video:** View real-time footage on your smartphone via the Holy Stone app.
- **Recording:** Use the app to start/stop video recording and capture photos. Footage is saved to a microSD card (not included) inserted into the camera.
- **5G Transmission:** Ensures fast and high-quality FPV video transmission.

Figure 4.4: Holy Stone HS700D drone's 4K FHD camera and 5G transmission.

5. Maintenance

5.1 Brushless Motors

The HS700D features brushless motors, known for their durability, quiet operation, and minimal maintenance requirements compared to brushed motors.

- Regularly inspect motors for any obstructions or damage.
- Keep motors clean and free of dust or debris.

5.2 Propeller Care

Inspect propellers before and after each flight for cracks, bends, or other damage. Replace damaged propellers immediately using the provided spare parts and screwdriver.

5.3 Battery Care

Proper battery care ensures longevity and safe operation.

- Always use the original charging cable and adapter.
- Do not overcharge or over-discharge the battery.
- Store batteries in a cool, dry place away from direct sunlight.

- If the battery is not used for an extended period, charge it to about 50-60% capacity.

6. Troubleshooting

- **Drone not powering on:** Ensure the battery is fully charged and correctly inserted. Press and hold the power button on the battery.
- **No live video feed:** Check the cable connection between your smartphone and the remote control. Ensure the Holy Stone app is open and connected to the drone's Wi-Fi.
- **Unstable flight/Drifting:** Perform a compass and gyroscope calibration. Ensure you are flying in an open area away from strong magnetic interference.
- **Return to Home not working correctly:** Verify that GPS signal is strong (sufficient satellites locked). Check the RTH altitude setting in the app.
- **Short flight time:** Ensure the battery is fully charged. Flight time can be affected by wind conditions and aggressive flying.

7. Specifications

Feature	Specification
Brand	Holy Stone
Model Name	HS700D
Video Capture Resolution	4K
Connectivity Technology	Wi-Fi (5G)
Battery Capacity	2800 Milliamp Hours
Max Flight Time	Up to 22 minutes
Motor Type	Brushless
Maximum Range	999 Meters
Item Weight	0.01 Ounces
Product Dimensions	15.2"L x 15.2"W x 6.1"H

8. Warranty and Support

For warranty information and customer support, please refer to the official Holy Stone website or contact their customer service directly. Keep your purchase receipt as proof of purchase.

Related Documents - HS700D

	[Holy Stone HS720G Drone User Manual and Instructions] Official user manual and instructions for the Holy Stone HS720G drone. Covers safety, setup, operation, and troubleshooting for users aged 16+.
	[Holy Stone HS720E Drone: Instructions for Use and Safety Guidelines] Comprehensive guide to operating the Holy Stone HS720E drone, covering setup, flight, safety precautions, and maintenance. Learn about its features like 4K camera, GPS, and intelligent flight modes.
	[Holy Stone HS710 Drone: Instructions for Use and Safety Guidelines] Comprehensive guide for the Holy Stone HS710 drone, covering setup, operation, safety, and maintenance. Learn how to fly your drone safely and effectively.
	[Holy Stone HS700E Drone: Instructions for Use and Safety Guidelines] Comprehensive guide for the Holy Stone HS700E drone, covering setup, operation, safety precautions, and maintenance. Learn how to fly your drone safely and effectively.
	[Holy Stone HS710 Drone User Manual] This user manual provides comprehensive instructions for operating the Holy Stone HS710 drone, including setup, safety guidelines, flight operations, and troubleshooting tips.
	[Holy Stone HS720G Drone User Manual and Operating Guide] Comprehensive user manual for the Holy Stone HS720G drone, detailing setup, safe operation, flight modes, maintenance, and troubleshooting. Suitable for users aged 16+.