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› [Holy Stone HS600D Drone User Manual: 4K/30fps Video, 48MP/8K Photo, 3-Axis Gimbal](#)

Holy Stone HS600D

Holy Stone HS600D Drone User Manual

Model: HS600D

1. INTRODUCTION

This manual provides essential instructions for the safe operation and maintenance of your Holy Stone HS600D Drone. The HS600D is an advanced drone equipped with a 1/2.3" Sony CMOS sensor, capable of capturing 4K HDR video at 30 frames per second and crisp 8K/48MP photos. It features a 3-axis brushless gimbal with Electronic Image Stabilization (EIS) for smooth footage, and boasts Level-6 wind resistance. Designed for both beginners and experienced pilots, it includes multi-sensor safety features (TOF + GPS + optical flow positioning) for enhanced stability and reduced risk. The drone offers an impressive 6KM long-range transmission and up to 80 minutes of flight time with two included batteries.

2. WHAT'S IN THE Box

The Holy Stone HS600D Advanced Flight Kit includes the following components:

- Aircraft (Drone) x1
- Relay Remote Controller x1
- User Manual x1
- Drone Battery x2
- Type-C Charging Cable x2
- Gimbal Protector x1
- Propeller Holder x1
- Relay Device Connection Cables (Lightning, Micro-USB, Type-C interfaces) x3
- Spare Propellers x1 set (2A+2B)



Figure 1: All components included in the Holy Stone HS600D Advanced Flight Kit.

3. COMPONENTS OVERVIEW

3.1. HS600D Aircraft

The HS600D drone features a robust design with foldable arms for portability. It integrates a high-resolution camera with a 3-axis gimbal for stable imaging. The drone is equipped with powerful brushless motors for efficient flight and Level-6 wind resistance.



Figure 2: The Holy Stone HS600D Drone with its arms unfolded, ready for flight.

3.2. Remote Controller

The relay remote controller provides precise control over the drone. It features a built-in display for basic flight telemetry and a smartphone holder for live video feed and advanced controls via the Holy Stone app. The controller connects to your smartphone via wired relay cables for stable transmission.

20000ft Transmission Range

Wired Connection Technology



Figure 3: The Holy Stone HS600D Remote Controller with a smartphone displaying the live video feed.

4. SETUP

4.1. Battery Charging and Installation

1. Charge both drone batteries using the provided Type-C charging cables. The batteries feature a power-up button on top with indicator lights to show charge level.
2. Insert a fully charged battery into the drone's battery compartment until it clicks securely into place.

4.2. Propeller Attachment

Attach the spare propellers (2A+2B) to the corresponding motor arms if replacement is needed. Ensure correct propeller type (A or B) is matched to the motor for proper flight.

4.3. Controller and App Connection

1. Power on the drone first, then power on the remote controller.

2. Allow the drone and controller to connect automatically.
3. Connect your smartphone to the remote controller using one of the provided wired relay cables (Lightning, Micro-USB, or Type-C).
4. Launch the Holy Stone app on your smartphone to establish the video feed and access advanced flight controls.

4.4. FAA Registration

As the Holy Stone HS600D weighs over 249 grams, it requires registration with the FAA. Please visit the FAA website to register your drone and obtain your Remote ID serial number. This number should be affixed to your drone as required by regulations.

5. OPERATING THE DRONE

5.1. Basic Flight Controls

The drone is designed for ease of use with one-button takeoff and smart-return functions. An intelligent beginner mode and automatic altitude limits are in place to ensure stress-free initial flights. Multi-sensor safety, including TOF, GPS, and optical flow positioning, enhances low-altitude stability, reducing the risk of loss of control or collisions.

5.2. Smart Flight Modes

The HS600D features advanced GPS Smart Modes that automate cinematic flight paths:

- **Follow Me:** The drone automatically follows the subject, maintaining a set distance and altitude.
- **Smart Tracking:** Similar to Follow Me, but with enhanced tracking capabilities for dynamic subjects.
- **Time-Lapse:** Captures a series of photos over time to create a time-lapse video.
- **Panorama:** Automatically captures multiple images to stitch together a wide panoramic shot.
- **One-Key Return:** Initiates an automatic return to the takeoff point. This feature is activated in cases of low battery, loss of signal, or manual command.

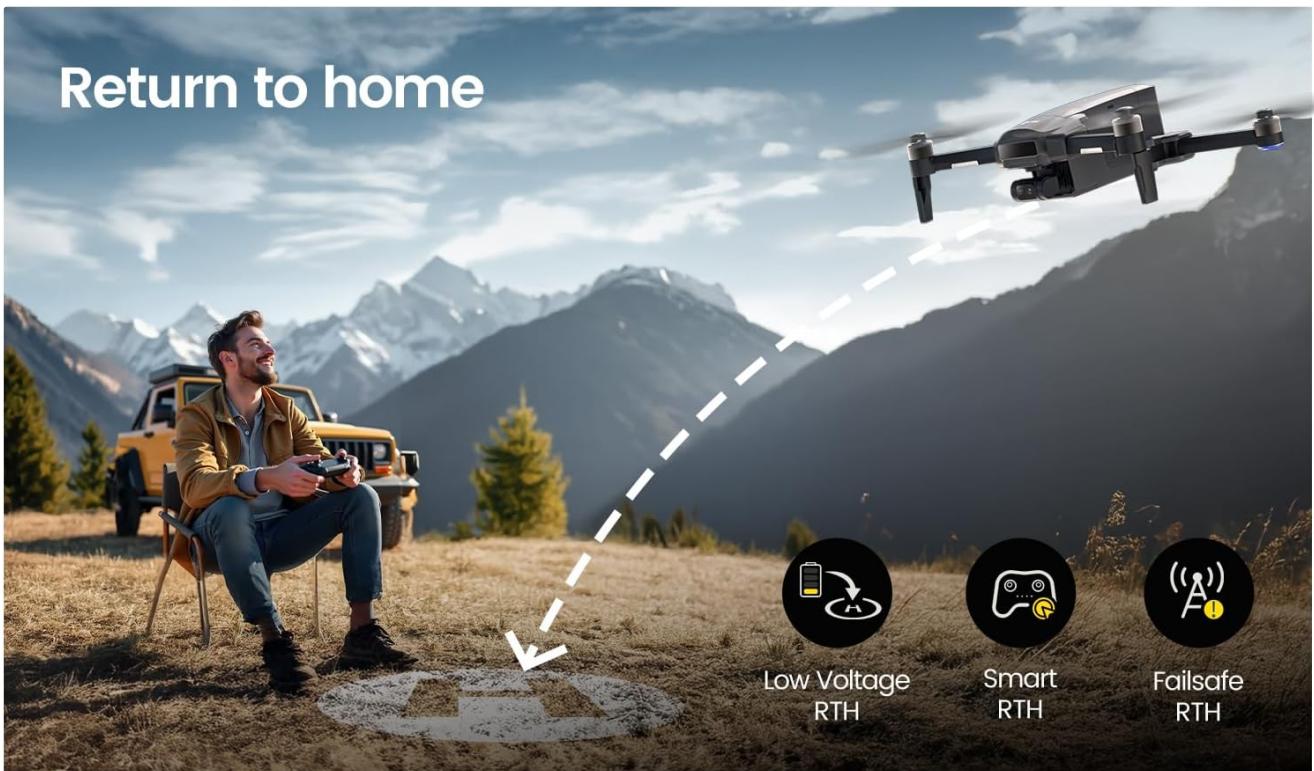


Figure 4: Visual representation of smart flight modes including Return to Home and Follow Me.

5.3. Flight Performance

The HS600D offers up to 80 minutes of flight time with two included batteries, providing extended operational periods. Its wired-relay digital image transmission technology ensures a stable, low-latency, and interference-resistant HD video feed over a 6KM (20,000ft) range. The drone's robust frame and powerful motors contribute to Level-6 wind resistance, maintaining stability even in challenging weather conditions.

Video 1: Official Holy Stone video showcasing the HS600D GPS Professional Drone's features and flight capabilities.

Video 2: Official Holy Stone video highlighting the HS600D GPS Drone's camera and flight features for adults.

6. CAMERA FEATURES

The HS600D is equipped with a 1/2.3" Sony CMOS sensor and a bright f/1.8 aperture, enabling it to capture high-quality visuals. It supports 4K HDR video recording at 30 frames per second and produces crisp 8K/48MP photos with rich detail and improved low-light performance. The 3-axis brushless gimbal combined with Electronic Image Stabilization (EIS) ensures smooth and stable footage, even in windy conditions.

8K Camera with Sony CMOS Sensor

Stable Visuals, Cinematic Moments Anywhere



Figure 5: Detail of the HS600D's 8K camera with Sony CMOS sensor and 3-axis brushless gimbal.

6.1. Photo and Video Modes

Beyond standard photo and video capture, the drone supports specialized modes like Time-Lapse and Panorama. While the camera offers excellent quality for its price point, advanced users may note limitations in adjusting exposure time, ISO, and the absence of a RAW photo mode.



3-Axis
Brushless
Gimbal



80-Min
Flight Time



Level 6 Wind
Resistance

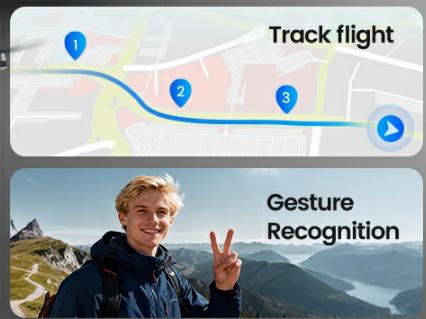


Figure 6: The Holy Stone HS600D drone supports panoramic and time-lapse shooting modes.

7. MAINTENANCE

- Regularly inspect propellers for damage and replace if necessary.
- Keep the camera lens clean and free from dust or smudges.
- Store the drone and batteries in a cool, dry place away from direct sunlight.
- Ensure batteries are charged periodically even when not in use to maintain their health.

8. TROUBLESHOOTING

- **Drone not powering on:** Ensure the battery is fully charged and correctly installed.
- **Loss of video feed:** Check the wired connection between your smartphone and the remote controller. Ensure the Holy Stone app is running correctly.
- **Unstable flight:** Perform compass and IMU calibration as per the user manual. Ensure flight is conducted in suitable weather conditions (within Level-6 wind resistance).
- **GPS tracking issues:** Ensure strong GPS signal before initiating smart flight modes.

For more detailed troubleshooting or persistent issues, please refer to the full user manual or contact Holy Stone customer support.

9. SPECIFICATIONS

Brand	Holy Stone
Model Name	HS600D
Item Weight	603 Grams (1.33 pounds)
Product Dimensions	14.8" L x 3.3" W x 10.2" H

Video Capture Resolution	4K
Effective Still Resolution	48 MP
Optical Sensor Technology	CMOS (Sony sensor)
Connectivity Technology	Wired Relay
Maximum Range	20000 Feet (6KM)
Battery Capacity	3500 Milliamp Hours (per battery)
Flight Time	Up to 80 minutes (with 2 batteries)
Special Features	3-Axis Brushless Gimbal + EIS, GPS + Optical Flow + TOF Positioning, Level-6 Wind Resistance

10. WARRANTY AND SUPPORT

Holy Stone is committed to providing dedicated support for its products. A professional support team is available to assist with setup, operation, and troubleshooting. Step-by-step video guides and prompt technical assistance are offered to ensure a smooth flying experience.

Multifunction GPS Drone
Longer flight times
Great Support for Drone

Slow motion shooting

The HS600D drone has a slow-motion shooting function, allowing you to relive the beauty of sports




Figure 7: Holy Stone customer support details.

For specific warranty details, please refer to the warranty card included in your product packaging or visit the official Holy Stone website.