Holy Stone HS280D

Holy Stone HS280D FPV Drone User Manual

Model: HS280D | Brand: Holy Stone

1. Introduction

Welcome to the Holy Stone HS280D FPV Drone user manual. This guide provides essential information for setting up, operating, maintaining, and troubleshooting your new drone. The HS280D is a foldable RC quadcopter designed for both beginner adults and kids, featuring a 1080P HD camera, brushless motors, optical flow positioning, and intelligent control options for an enjoyable flying experience.

2. What's in the Box

Carefully unpack your Holy Stone HS280D drone and ensure all components are present:

- Holy Stone HS280D Drone
- Remote Control
- 2 x Modular Batteries
- USB Charging Cable
- Spare Propellers (4 pieces)
- Screwdriver
- User Manual



Image: All components included in the Holy Stone HS280D drone package.

3. Product Features

- **Powerful Brushless Motors:** Equipped with durable brushless motors for better wind resistance, providing faster, quieter, and more powerful flight. These motors are designed for longevity, avoiding burnout common with ordinary motors during extended use.



Image: Detail of the brushless motor and optical flow sensor for stable flight.

- **Safe and Long Flight Time:** Comes with 2 rechargeable modular batteries, extending the total flight time up to 28 minutes. The modular design makes batteries easy to charge and replace. The remote controller provides a low battery warning to prevent unexpected power loss.



Image: The drone's modular battery system, offering extended flight duration.

- **Super Easy for Beginners:** Features like One Key Take-off/Landing, Tap Fly, Altitude Hold, Headless Mode, 2 Speed Modes, and Emergency Stop Functions make this FPV drone exceptionally user-friendly for new pilots.

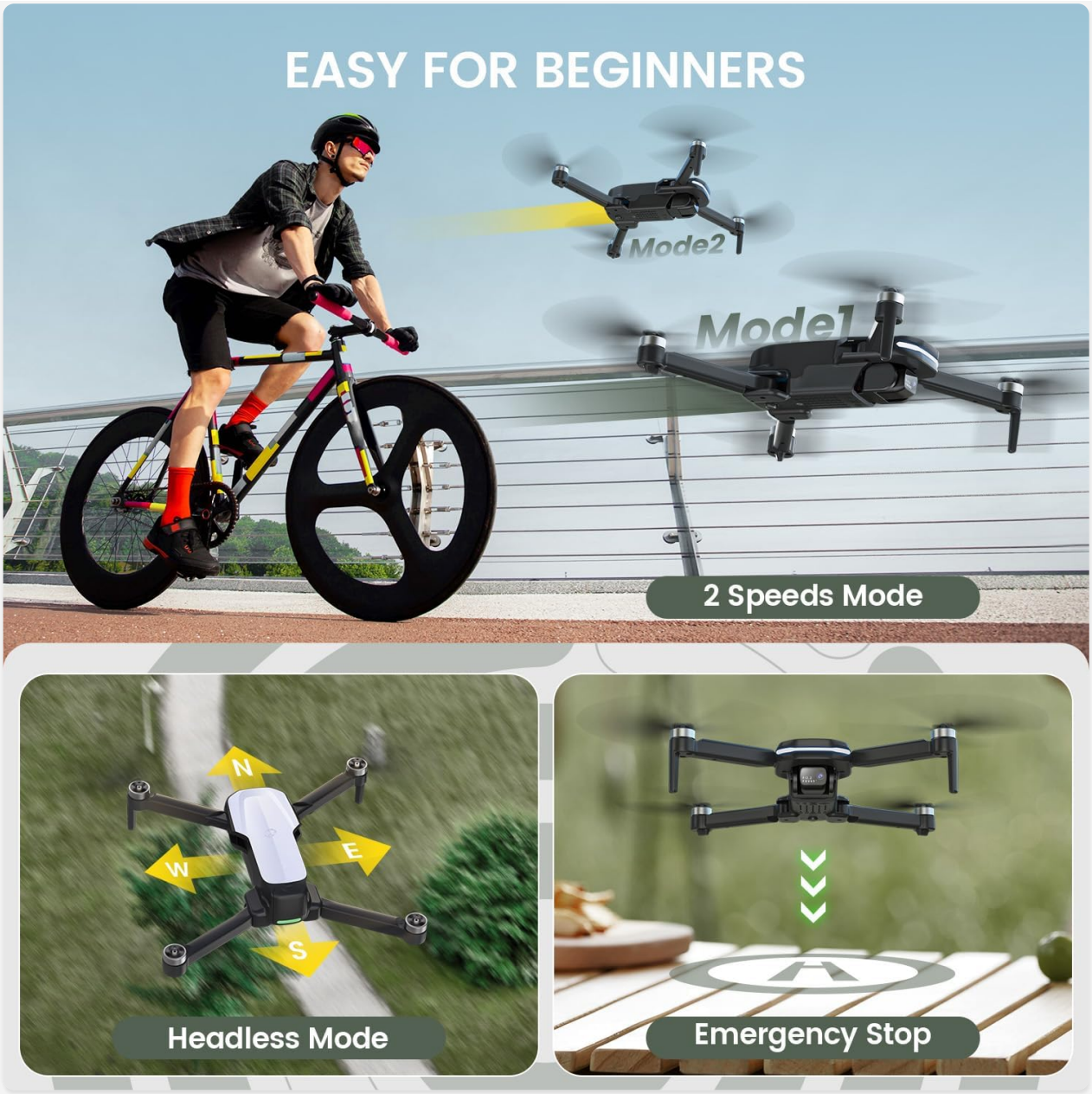


Image: Features designed for ease of use, including Headless Mode and Emergency Stop.

- **Intelligent and Fun Control:** Utilize Gesture Control for quick photos and videos by simply posing a V sign or raising your hand. The Tap Fly feature allows you to draw a custom flight path on your phone screen for the drone to follow automatically. More exciting features are available via the dedicated app.



Image: Demonstrating intelligent control features like Gesture Control and Voice Control.



Image: The Tap Fly feature allows users to draw custom flight paths on their smartphone.

- **1080P HD Camera:** Capture clear aerial footage with the integrated 1080P HD camera. The camera's angle is remotely adjustable from 0° to 70° for versatile shooting perspectives.



Image: The 1080P HD FPV camera with adjustable angle for high-quality video and photo capture.

- **Foldable Design & Portable:** Weighing only 164g (5.8oz), the HS280D does not require CAA registration in many regions. Its foldable design ensures easy portability, making it an ideal travel companion.



Image: The Holy Stone HS280D drone in its compact, folded state for easy transport.



Image: Dimensions of the drone, illustrating its compact folded size.

4. Setup Guide

4.1 Unfolding the Drone

Gently unfold the drone arms until they lock into place. Ensure all four arms are fully extended before flight.

4.2 Battery Installation

Insert a fully charged modular battery into the battery compartment on the rear of the drone until it clicks securely. Ensure the battery is oriented correctly.

4.3 Remote Control Setup

Install 4 AAA batteries (not included) into the remote control. Extend the phone holder on the remote control if you plan to use your smartphone for FPV viewing and advanced features.

4.4 App Download and Connection

Download the Holy Stone app (refer to the QR code in the included quick start guide or search in your app store). Turn on the drone and then the remote control. Connect your smartphone to the drone's Wi-Fi network (usually named 'HolyStone_HS280D_XXXX'). Open the app to establish connection and view the FPV feed.

Your browser does not support the video tag.

Video: An official Holy Stone video demonstrating the features and setup of the HS280D drone.

5. Operating Instructions

5.1 Pairing the Drone and Remote

After powering on both the drone and remote, push the left joystick up then down to pair them. The drone's indicator lights will become solid when successfully paired.

5.2 One-Key Take-off and Landing

Press the One-Key Take-off button on the remote control or in the app to automatically launch the drone to a stable hovering height. Press the One-Key Landing button to initiate an automatic landing.

5.3 Basic Flight Controls

- **Left Joystick (Throttle/Yaw):** Push up/down to control altitude. Push left/right to rotate the drone (yaw).
- **Right Joystick (Forward/Backward/Left/Right):** Push up/down to move forward/backward. Push left/right to move sideways.

5.4 Advanced Features

- **Altitude Hold:** The drone maintains a stable altitude automatically, making it easier to control.
- **Headless Mode:** In this mode, the drone's orientation is relative to the pilot, eliminating the need to adjust its position before flying.
- **Speed Modes:** Switch between 2 speed modes (low/high) to suit your flying skill level and environment.
- **Tap Fly:** Draw a desired flight path on the app's screen, and the drone will follow it automatically.
- **Gesture Control:** Perform specific hand gestures (e.g., V-sign, open palm) in front of the camera to trigger photo or video recording.
- **Voice Control:** Use simple voice commands through the app to control basic drone movements.
- **Emergency Stop:** In case of an emergency, press the emergency stop button to immediately cut power to the motors.

6. Maintenance

Regular maintenance ensures the longevity and optimal performance of your HS280D drone:

- **Cleaning:** Use a soft, dry cloth to clean the drone body and camera lens after each flight. Avoid using harsh chemicals.
- **Propeller Inspection:** Regularly check propellers for any damage (cracks, bends). Replace damaged propellers immediately using the provided spare parts and screwdriver.
- **Battery Care:** Store batteries in a cool, dry place. Do not overcharge or over-discharge. If storing for extended periods, charge them to about 50% capacity.
- **Motor Care:** Keep motors free from dust and debris. Avoid flying in sandy or dusty environments.

7. Troubleshooting

Problem	Possible Cause	Solution
Drone does not power on	Battery not charged or improperly installed.	Ensure battery is fully charged and correctly inserted.
Drone cannot be paired with remote	Incorrect pairing sequence or low remote battery.	Follow pairing instructions (left joystick up then down). Replace remote batteries.
Unstable flight/Drifting	Drone not calibrated or strong wind interference.	Perform gyroscope calibration (refer to app instructions). Avoid flying in strong winds.
No FPV feed in app	Wi-Fi not connected or app not launched correctly.	Ensure phone is connected to drone's Wi-Fi. Restart app and drone.
Camera image blurry or distorted	Lens dirty or damaged.	Clean the camera lens gently. Check for physical damage.

8. Specifications

Feature	Detail
Brand	Holy Stone
Model Name	HS280D
Video Capture Resolution	1080p
Connectivity Technology	Wi-Fi
Skill Level	Beginner
Item Weight	164 Grams (5.8 ounces)
Product Dimensions	13.19 x 8.27 x 2.05 inches (unfolded)
Batteries	3 Lithium Ion batteries required (2 for drone, 1 for remote - included)
Flight Time	Up to 28 minutes (with 2 batteries)
Control Type	Remote Control, App Control
Special Features	Extended Flight Time, Portable, Foldable, Adjustable FPV Camera, Optical Flow, Tap Fly, Voice Control, Gesture Selfie

9. Safety Information

WARNING: CHOKING HAZARD – Small parts. Not for children under 3 years.
Always operate the drone in open, clear areas, away from people, animals, and obstacles. Do not fly near airports or restricted airspace. Adhere to local drone regulations and laws. Never fly the drone in adverse weather conditions (strong winds, rain, snow). Always maintain visual line of sight with the drone during flight. Ensure propellers are clear of obstructions before and during flight. Do not touch propellers when they are spinning.

10. Warranty and Support

For warranty information, technical support, or replacement parts, please refer to the contact information provided in your product packaging or visit the official Holy Stone website. Holy Stone is dedicated to providing excellent customer service and support for your drone experience.

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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.

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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