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Holy Stone HS420

Holy Stone HS420 Mini Drone User Manual

Model: HS420 | Brand: Holy Stone

INTRODUCTION

Thank you for purchasing the Holy Stone HS420 Mini Drone. This compact and versatile quadcopter is designed for both beginners and experienced pilots, featuring a 1080P HD FPV camera, multiple flight modes, and user-friendly controls. This manual provides essential information for safe operation, setup, maintenance, and troubleshooting to ensure an optimal flying experience. Please read this manual thoroughly before operating the drone.



Image: The Holy Stone HS420 Mini Drone, its remote controller, three modular batteries, and a compact carrying case.

SAFETY GUIDELINES

To ensure safe operation and prevent damage or injury, please adhere to the following guidelines:

- **Age Recommendation:** This drone is recommended for users 14 years and up. Adult supervision is advised for younger users.
- **Flight Environment:** Fly in open, clear areas away from people, animals, buildings, and obstacles. Avoid flying near airports, power lines, or restricted airspace.
- **Weather Conditions:** Do not fly in strong winds, rain, snow, or other adverse weather conditions.
- **Pre-Flight Check:** Always ensure batteries are fully charged, propellers are securely attached, and the drone is free from damage before each flight.
- **Propeller Safety:** Keep hands, face, and loose clothing away from rotating propellers. The drone features propeller guards for added safety, especially for children.



SAFE HAND OPERATED

Full Protection Guards protect kids From hurting fingers when playing



Image: A child holding the Holy Stone HS420 drone, emphasizing the full protection guards designed to prevent finger injuries during play.

- **Battery Safety:** Use only original Holy Stone batteries and charging cables. Do not overcharge or short-circuit batteries. Discontinue use if batteries show signs of swelling or damage.
- **Respect Privacy:** Be mindful of privacy laws when using the camera function.
- **Emergency Stop:** Familiarize yourself with the emergency stop function on the remote control.

PACKAGE CONTENTS

Verify that all items are present in your package:

- Holy Stone HS420 Mini Drone (x1)
- Remote Controller (x1)
- Modular Drone Batteries (x3)
- USB Charging Cables (x2)
- Spare Propellers (x4)

- Propeller Removal Tool (x1)
- Mini Screwdriver (x1)
- Carrying Case (x1)
- User Manual (this document)



Image: A visual representation of the Holy Stone HS420 drone package contents, including the drone, remote, three batteries, charging cables, spare propellers, and tools, all neatly arranged.

PRODUCT OVERVIEW

Drone Components

- **Propellers:** Four rotating blades for lift and thrust.
- **Propeller Guards:** Protective frames around the propellers.
- **Camera:** 1080P HD FPV camera located at the front.
- **Battery Compartment:** Located at the rear underside for modular batteries.
- **Power Button:** On top of the drone.
- **Indicator Lights:** Provide status information.

Remote Controller Components

- **Left Control Stick:** Controls throttle (up/down) and yaw (rotate left/right).
- **Right Control Stick:** Controls pitch (forward/backward) and roll (left/right).
- **One-Key Takeoff/Landing Button:** Initiates automatic takeoff or landing.
- **Speed Mode Button:** Toggles between different speed settings.
- **Headless Mode Button:** Activates headless flight mode.
- **3D Flip Button:** Initiates a 3D flip maneuver.
- **Photo/Video Button:** Captures photos or starts/stops video recording.
- **Power Button:** Turns the remote on/off.
- **Phone Holder:** Adjustable clamp for mounting a smartphone.

SETUP

1. Charging Batteries

The drone comes with three modular batteries. Ensure all batteries are fully charged before first use.

1. Connect the USB charging cable to the drone battery.
2. Plug the other end of the USB cable into a USB adapter (5V/2A recommended) or a computer's USB port.
3. The indicator light on the battery will show charging status (e.g., red for charging, green for fully charged).
4. Charging time is approximately 60-80 minutes per battery.

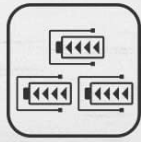
2. Installing Drone Battery

1. Ensure the drone is powered off.
2. Insert a fully charged modular battery into the battery compartment on the rear underside of the drone until it clicks into place.

3. Installing Remote Controller Batteries

The remote controller requires 3 AAA batteries (not included).

1. Open the battery cover on the back of the remote controller.
2. Insert 3 AAA batteries, ensuring correct polarity (+/-).
3. Close the battery cover securely.



THREE BATTERIES TRIPLE FUN



Image: Three modular batteries for the Holy Stone HS420 drone, highlighting their compact design and ease of use.

4. Propeller Installation/Replacement

If propellers need replacement, ensure they are installed correctly. Each propeller is marked with 'A' or 'B' and must match the corresponding motor arm.

1. Use the propeller removal tool to gently pry off the old propeller.
2. Align the new propeller (A or B) with the motor shaft and press down firmly until it is secure.
3. Ensure all propeller guards are securely attached.

5. App Download and Connection (FPV Function)

For FPV (First Person View) and advanced features, download the Holy Stone app.

1. Scan the QR code in the quick start guide or search for "Holy Stone" in your device's app store.
2. Install the app on your smartphone.

3. Power on the drone.
4. Go to your phone's Wi-Fi settings and connect to the Wi-Fi network named "HolyStone-HS420-XXXXXX".
5. Open the Holy Stone app. You should see the live camera feed from the drone.



Image: The Holy Stone HS420 Mini Drone in flight, with a smartphone showing its 1080P FPV camera view and highlighting the gesture selfie feature, demonstrating real-time transmission.

OPERATING

1. Pairing the Drone and Remote Controller

1. Place the drone on a flat, level surface.
2. Power on the drone by pressing and holding the power button until the indicator lights flash.
3. Power on the remote controller. The remote's indicator light will flash.
4. Push the left control stick (throttle) all the way up, then all the way down. The drone and remote lights will become

solid, indicating successful pairing.

2. Gyro Calibration

Calibrate the gyroscope before each flight for stable performance.

- After pairing, push both control sticks down and to the right simultaneously.
- The drone's indicator lights will flash rapidly and then become solid, indicating successful calibration.

3. Take-off and Landing

- **One-Key Takeoff:** Press the One-Key Takeoff/Landing button. The drone will automatically ascend and hover at a certain altitude.
- **Manual Takeoff:** After calibration, push both control sticks down and to the left simultaneously to unlock the motors. Then, slowly push the left control stick (throttle) up to take off.
- **Toss to Launch:** With motors unlocked, gently toss the drone upwards. The propellers will automatically start spinning, and the drone will stabilize.



Image: Demonstration of the "Toss to Launch" feature, where the Holy Stone HS420 drone is gently tossed from a hand and

automatically stabilizes in the air, making it easy to start flying.

- **One-Key Landing:** Press the One-Key Takeoff/Landing button again. The drone will automatically descend and land.
- **Manual Landing:** Slowly pull the left control stick (throttle) down until the drone lands. Once landed, hold the stick down for a few seconds until the motors stop.



Image: The Holy Stone HS420 drone hovering just above a hand, illustrating its stable flight and ease of hand-launch or landing.

4. Basic Flight Controls

Control Stick	Movement	Drone Action
Left Stick (Throttle)	Up/Down	Ascend/Descend
Left Stick (Yaw)	Left/Right	Rotate Left/Right
Right Stick (Pitch)	Up/Down	Fly Forward/Backward
Right Stick (Roll)	Left/Right	Fly Left/Right (Sideways)

5. Advanced Functions

- **Altitude Hold:** The drone automatically maintains its current altitude, making it easier to control and capture stable footage.



EASY FOR BEGINNERS&KIDS



Image: Icons illustrating key features for beginners: One Key Fly, Altitude Hold, and Headless Mode, making the Holy Stone HS420 drone easy and safe for kids and new pilots.

- **Headless Mode:** When activated, the drone's orientation is relative to the pilot, regardless of the drone's actual front. Press the Headless Mode button to activate/deactivate.
- **Speed Modes:** Press the Speed Mode button to cycle through different speed settings (e.g., low, medium, high) to suit your flying skill level.
- **3D Flip:** Fly the drone to a height of at least 2 meters. Press the 3D Flip button, then quickly push the right control stick in any direction (forward, backward, left, or right) to perform a flip.



Image: The Holy Stone HS420 drone in motion, illustrating its agility and speed adjustment capabilities during flight.

- **Circle Fly:** In the app, select the Circle Fly function. The drone will fly in a circular path around a central point.



Image: The Holy Stone HS420 drone executing a "Circle Fly" maneuver, demonstrating its programmed flight capabilities.

- **Waypoints Fly:** In the app, draw a desired flight path on the screen. The drone will follow the path you've drawn.



Image: Two distinct scenes showcasing the Holy Stone HS420 drone's multifunctional features: "Waypoints Fly" where the drone follows a custom path, and "Circle Fly" where it orbits a point.

- **Gesture Selfie:** While in FPV mode, make a specific hand gesture (refer to app instructions) to trigger a photo or video recording.



Image: A child extending their hand towards the Holy Stone HS420 drone, illustrating the gesture control feature for easy interaction.

6. Camera Operation (Photo/Video)

- Ensure your smartphone is connected to the drone's Wi-Fi and the app is open.
- Press the Photo/Video button on the remote or tap the corresponding icon in the app to take a photo.
- Press and hold the Photo/Video button or tap the icon in the app to start video recording. Press again to stop.
- Photos and videos will be saved directly to your smartphone's gallery.



Image: A smartphone screen showing the live FPV feed from the Holy Stone HS420 drone, demonstrating the real-time camera view during flight.

MAINTENANCE

- **Cleaning:** Use a soft, dry cloth to clean the drone and remote controller. Do not use harsh chemicals or solvents.
- **Propellers:** Regularly check propellers for damage (cracks, bends). Replace damaged propellers immediately using the provided spare parts.
- **Motors:** Keep motors free from dust and debris. Avoid flying in sandy or dusty environments.
- **Battery Care:**
 - Store batteries in a cool, dry place away from direct sunlight.
 - Do not store fully charged or completely depleted batteries for extended periods. Charge them to about 50-60% for long-term storage.
 - If a battery swells, leaks, or shows any signs of damage, discontinue use and dispose of it properly.
- **Storage:** When not in use, store the drone and its accessories in the provided carrying case to protect them from dust and physical damage.

TROUBLESHOOTING

Problem	Possible Cause	Solution
Drone not responding to remote.	Not paired or low battery.	Re-pair the drone and remote. Check and charge batteries.
Drone drifts during flight.	Gyro not calibrated or uneven surface at takeoff.	Perform gyro calibration on a flat surface.

Problem	Possible Cause	Solution
Propellers not spinning.	Motors not unlocked or drone not paired.	Ensure drone is paired. Unlock motors (push both sticks down and left).
FPV image is blurry or disconnected.	Weak Wi-Fi signal or app issue.	Ensure strong Wi-Fi connection. Restart app and drone. Fly closer to the drone.
Drone crashes frequently.	Damaged propellers or lack of experience.	Replace damaged propellers. Practice flying in low-speed mode.
Drone won't take off.	Low battery, motors not unlocked, or propellers blocked.	Charge batteries. Unlock motors. Check for propeller obstructions.

SPECIFICATIONS

Feature	Detail
Model	HS420
Dimensions	9 x 8.4 x 3.4 cm
Weight	510 g
Camera	1080P HD FPV
Drone Battery	Modular (Quantity: 3 included)
Remote Control Battery	3 x AAA (not included)
Control Type	Remote Control, Wi-Fi App
Recommended Age	14 years and up
Special Features	360 Degree Flip, High Speed Rotation, Lightweight, Speed Adjustment, Auto-Landing, Toss to Launch, Gesture Selfie, Altitude Hold, Circle Fly, Headless Mode, One-Key Takeoff/Landing



Image: The underside of the Holy Stone HS420 drone, displaying its model number (HS420A) and FCC identification for regulatory compliance.



Image: The back of the Holy Stone HS420 remote control, showing its model number (HS420) and FCC identification.

WARRANTY AND SUPPORT

Holy Stone is committed to customer satisfaction.

- **30-Day Warranty:** A 30-day warranty is provided for quality-related issues on the entire unit.
- **90-Day Warranty:** A 90-day warranty is provided for accessories.
- **Customer Service:** For inquiries, support, or suggestions, please refer to the contact information provided in your product packaging or visit the official Holy Stone website.

HOLY STONE

HS420



Image: A child joyfully observing two Holy Stone drones in flight, symbolizing the fun and accessibility of Holy Stone products.

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For more information, visit www.holystone.com