Holy Stone HSRID02

Holy Stone HSRID02 FAA Compliant Remote ID Module Instruction Manual

Brand: Holy Stone | Model: HSRID02

1. INTRODUCTION

The Holy Stone HSRID02 is an FAA-compliant Remote ID (RID) broadcast module designed to enable legal flight for various drones and RC aircraft. This compact and lightweight module features a built-in strobe light, a buzzer for easy location, and GPS tracking capabilities. It is designed to meet FAA requirements for drones over 250g (0.55lb) that do not have built-in Remote ID functionality.

2. WHAT'S IN THE BOX

Upon unboxing your Holy Stone HSRID02 Remote ID Module, you will find the following components:

- 1 x Remote ID Module (HSRID02)
- 1 x Type-C Charging Cable
- 3 x Velcro Straps
- 12 x Self-Locking Zip Ties
- 1 x Adjustable Zip Tie Mount
- 1 x User Manual
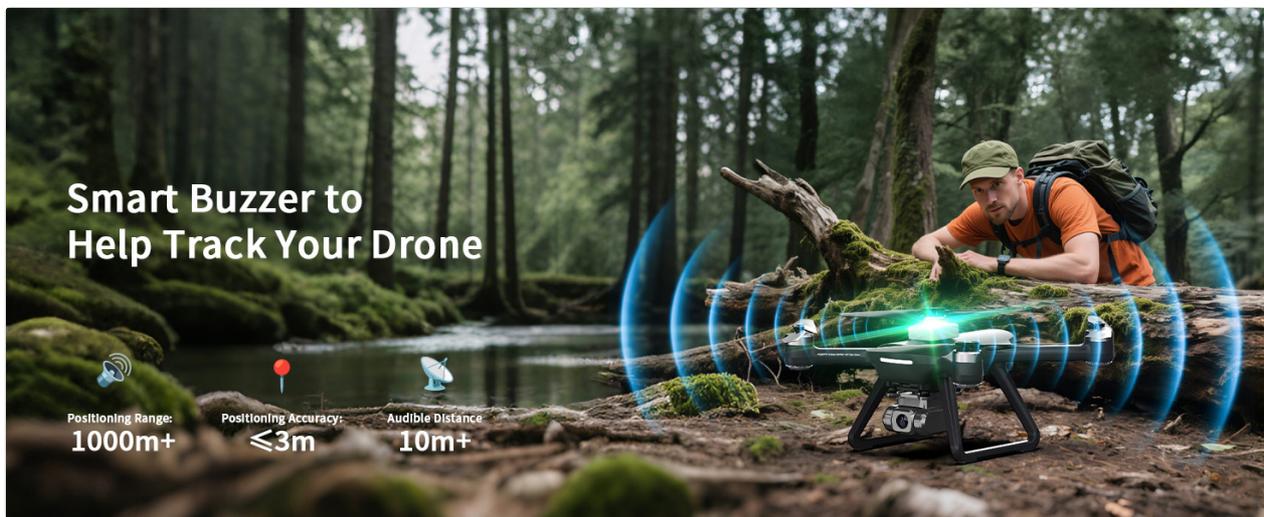- 1 x Quick Start Guide Card

Image: All components included in the Holy Stone HSRID02 package.

3. SETUP

3.1 Charging the Module

Before initial use, fully charge the HSRID02 module. The charging port is protected by a silicone cover; gently open it to access the Type-C port. Connect the module to a power source using the included Type-C charging cable. A full charge typically takes approximately 60 minutes and provides up to 4 hours of continuous operation.

Image: The HSRID02 module being charged via its Type-C port, highlighting its 60-minute charging time and 4-hour battery life.

3.2 App Download and FAA Registration

To configure and register your HSRID02 module, follow these steps:

1. Download the **Drone Finder** app from your smartphone's app store.
2. Turn on your phone's Bluetooth.
3. Open the Drone Finder app and allow necessary permissions.
4. Locate the serial number on your HSRID02 module.
5. Register this serial number on the official FAA website to ensure compliance. Refer to the module's manual for specific registration methods.
6. In the app, tap the device serial number to connect and access settings.
7. Select "RID Settings" to enter the write-in interface. Fill in the required information (e.g., Aircraft Model, Weight, UAS Class) and tap "SAVE".
8. Restart the RID module by holding the power switch. Binding succeeds only after restarting.

Video: A step-by-step tutorial on setting up the Holy Stone HSRID02 module, including app download, registration, and initial configuration.

4. INSTALLATION

The HSRID02 module is designed for versatile installation on various drones and RC aircraft. It is ultra-lightweight, weighing just 16g (0.56oz), ensuring minimal impact on your aircraft's flight performance.

4.1 Mounting Options

The module comes with multiple accessories for secure attachment:

- **Velcro Straps:** Use the provided Velcro straps for quick and secure attachment and removal.
- **Self-Locking Zip Ties:** For a more permanent or robust attachment, utilize the self-locking zip ties.
- **Adjustable Zip Tie Mount:** This mount offers flexibility for positioning the module on different parts of your aircraft.

Image: The HSRID02 module being attached to a drone using Velcro, illustrating the ease of installation.
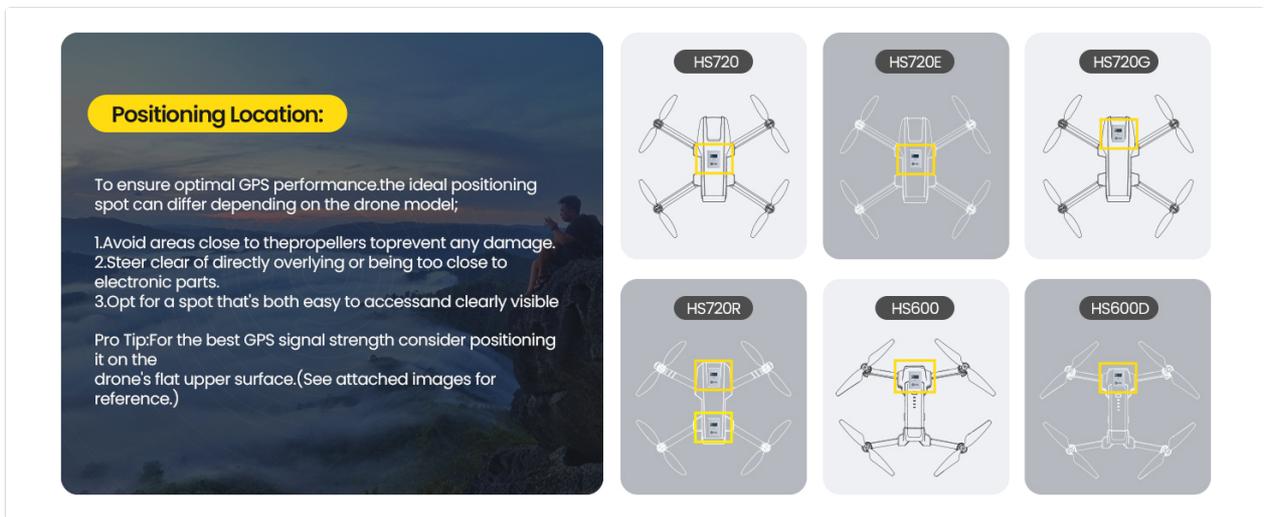
Image: Step-by-step guide for easy installation of the RID module using Velcro.

4.2 Placement Guidelines

Proper placement is crucial for optimal performance and safety:

- **Avoid Propellers:** Ensure the module is placed where it will not interfere with propeller rotation or flight path.
- **GPS Signal:** Position the module on the drone's flat upper surface to ensure optimal GPS signal strength and avoid blocking the signal. The ideal positioning spot can differ depending on the drone model.
- **Center of Gravity:** Place the module to maintain the drone's center of gravity, preventing flight instability.
- **Clearance:** Keep the module clear of direct overlying components or areas too close to electronic parts.
- **Visibility:** Choose a spot that is both easy to access and clearly visible.

Image: Recommended positioning locations for the HSRID02 module on different drone models to ensure optimal GPS performance.

5. OPERATING THE MODULE

5.1 Power On/Off

To power on the HSRID02 module, press and hold the power switch for 3 seconds. The indicator lights will alternate between red and green during startup. To power off, press and hold the power switch again for 3 seconds.

5.2 Strobe Light Modes

The HSRID02 is equipped with bright strobe lights for enhanced visibility, especially during night flights. After powering on, short press the power button to cycle through the light modes:

- **Green Flash Mode:** A steady green flash.
- **Red-Green-White Alternating Mode:** Lights alternate between red, green, and white.
- **Custom Pattern Mode:** You can set your own pattern through the Drone Finder app's LED settings. This function is available only when the module is in write mode.

Image: The HSRID02 module's bright strobe light in action on a drone, demonstrating customizable LED colors for night visibility.

Easy Installation

Step 1 — Stick one Velcro pad on the drone

Step 2 — Stick the other Velcro pad on the RID module

Step 3 — Mount the RID module onto the drone

Image: The Drone Finder app interface for customizing the HSRID02's strobe light patterns.

5.3 Buzzer Mode

The built-in buzzer assists in locating your drone, especially after an unexpected landing. This function is available only when the module is in broadcast mode.

- In the Drone Finder app, tap the location icon to enter the Location Services interface.
- Tap the bell icon to activate continuous beeping from the module.

Image: The HSRID02 module's buzzer function, useful for fast recovery of a drone, with an audible range of up to 10m.

Video: Demonstration of the Holy Stone FAA Compliant RID module's strobe light and buzzer features.

5.4 GPS Tracking and Takeoff Point Refresh

The HSRID02 module provides real-time GPS tracking with an accuracy of within 3 meters, enhancing flight safety and reliability. It is crucial to ensure the module completes its GPS signal search before takeoff.

- Before takeoff, ensure the module has acquired a stable GPS signal (indicated by solid blue lights).
- Double-press the settings button on the module to refresh the takeoff point. This step is recommended before takeoff or after any change in the drone's position.

Image: The HSRID02 module ensuring FAA compliance by broadcasting drone identification and location data.

6. IMPORTANT CONSIDERATIONS

To ensure safe and effective operation of your HSRID02 module, please observe the following:

- **Propeller Clearance:** During installation, ensure the RID module avoids colliding with the drone's arms or propellers.
- **GPS Signal Integrity:** Do not install the RID module in a location that blocks the GPS signal of the drone or the module itself. The GPS module may be located differently on each drone model.
- **Module Orientation:** Avoid installing the RID module at the bottom of the drone, as this may hinder signal transmission or reception.
- **Water Resistance:** The HSRID02 has an IP54 dust- and splash-resistant design, making it suitable for outdoor use in various conditions. However, it is not fully waterproof and should not be submerged.

Video: Demonstration of the HSRID02 module's IP54 dust- and splash-resistant design.

7. SPECIFICATIONS

Feature	Detail
Model	HSRID02
Item Weight	16g (0.56 ounces)
Product Dimensions	1.67 × 1.19 × 0.55 inches
Battery Life	Up to 4 hours
Charging Time	Approx. 60 minutes (5V/0.2A)
Special Features	FAA Compliance, GPS Tracking, Strobe Light, Buzzer, IP54 Dust- and Splash-Resistant
Connection Method	Bluetooth
Compatible Devices	Drones, FPV drones, RC gliders, helicopters, fixed-wing aircraft

8. TROUBLESHOOTING

No specific troubleshooting information is provided in the available product details. For issues not covered in this manual, please refer to the official Holy Stone support channels.

9. WARRANTY AND SUPPORT

Specific warranty details are not provided in the available product information. For warranty claims, technical support, or further assistance, please contact Holy Stone customer service or visit their official website.