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## Flysky FS-BS4

# Flysky FS-BS4 Receiver with Gyro Stabilization System User Manual

Model: FS-BS4

## 1. INTRODUCTION

This manual provides detailed instructions for the installation, setup, and operation of your Flysky FS-BS4 4-channel receiver with integrated gyro stabilization. The FS-BS4 is designed to enhance the control stability of your remote-controlled vehicle, especially on challenging terrains or during high-speed maneuvers. Please read this manual thoroughly before using the product to ensure proper function and safety.

## 2. PRODUCT OVERVIEW

The Flysky FS-BS4 is a 4-channel receiver featuring a built-in gyro stabilization system. This system, when paired with a compatible transmitter (such as Flysky FS-IT4S or FS-GT5) utilizing S.V.C. (Smart Vehicle Control) functionality, helps maintain the vehicle's intended direction. This is particularly beneficial on uneven or slippery surfaces and during cornering, providing a more stable and predictable driving experience.



**Image 2.1:** Front view of the Flysky FS-BS4 receiver, showing the LED indicator, SENS and SERVO adjustment ports, BIND/VCC port, and channels CH1-CH4.

## 3. SPECIFICATIONS

Feature	Detail
Model Number	MC28053-4
Dimensions	35.4 mm x 29.6 mm x 13 mm
Weight	20 g
PWM Channels	4 Channels
Wireless Frequency	2.4 GHz
Wireless Protocol	AFHDS 2A
Ground Range	100 - 300 meters
Antenna Type	Single antenna (150 mm)
Input Voltage	4.0 - 6.5 V
RSSI Support	Supported
Data Ports	PWM / PPM / i.bus / s.bus
Operating Temperature	-10 °C to +60 °C
Operating Humidity	20% - 95%
Online Update	Yes
Certification	CE

#### 4. SETUP: BINDING THE RECEIVER

Binding is the process of linking your FS-BS4 receiver to your Flysky transmitter. Follow these steps carefully:



**Image 4.1:** The Flysky FS-BS4 receiver shown with its antenna and a bind plug, which is used during the binding process.

1. **Prepare Transmitter:** Turn on your transmitter. Verify its RF standard and, if necessary, change it to **AFHDS 2A 2-way**. Refer to your transmitter's specific manual for detailed instructions on this setting.
2. **Transmitter Bind Mode:** Set your transmitter to bind mode. Consult your transmitter's manual for the exact procedure.
3. **Power Off Receiver:** Ensure the FS-BS4 receiver is powered off before proceeding.
4. **Connect Bind Cable:** Connect the provided bind cable to the **BIND/VCC** port on the receiver.
5. **Apply Power:** Connect the power source (e.g., battery) to any other available port on the receiver (not the BIND/VCC port). The red indicator light on the receiver will begin to flash rapidly, indicating it is in bind mode.
6. **Complete Binding:** Wait for the red indicator light to stop flashing. A solid light or no light (depending on the transmitter/receiver combination) typically signifies that the binding process is complete.
7. **Disconnect Cables:** Disconnect both the bind cable and the power source from the receiver.
8. **Reconnect Power:** Reconnect the power source to the **BIND/VCC** port on the receiver.
9. **Test Functionality:** Verify that all connected servos and other components operate as expected. If any issues arise, restart the binding procedure from step 1.

**Note:** Always refer to your specific transmitter's manual for detailed instructions regarding its binding procedure and RF settings.

## 5. OPERATING THE GYRO STABILIZATION SYSTEM

The FS-BS4's integrated gyro stabilization system works in conjunction with compatible Flysky transmitters that support S.V.C. (Smart Vehicle Control). This system automatically detects and corrects unwanted vehicle movements, providing enhanced stability.

- **Smart Vehicle Control (S.V.C.):** When enabled on your transmitter, S.V.C. utilizes the receiver's gyro data to make real-time adjustments to steering, helping the vehicle maintain its intended path.
- **Adjusting Gyro Sensitivity:** The receiver features a **SENS** port, which can be used to adjust the sensitivity of the gyro. This adjustment is typically done via a channel on your transmitter, allowing you to fine-tune the level of stabilization to suit your driving style and terrain. Refer to your transmitter's manual for details on assigning and adjusting gyro sensitivity.
- **Servo Output:** The **SERVO** port is used for connecting a servo that controls the gyro's operational mode or other related functions, depending on your transmitter's capabilities.

Ensure your transmitter is configured correctly to utilize the gyro stabilization features for optimal performance.

## 6. MAINTENANCE

To ensure the longevity and reliable performance of your Flysky FS-BS4 receiver, follow these general maintenance guidelines:

- **Keep Clean:** Regularly clean the receiver's exterior with a soft, dry cloth. Avoid using solvents or harsh chemicals.
- **Protect from Elements:** Keep the receiver away from moisture, dust, and extreme temperatures. If operating in damp conditions, ensure the receiver is adequately protected (e.g., in a waterproof enclosure).
- **Inspect Connections:** Periodically check all wire connections to ensure they are secure and free from damage. Loose connections can lead to intermittent operation.

- **Antenna Care:** Ensure the antenna is not kinked or damaged. A properly positioned and undamaged antenna is crucial for optimal signal reception.
- **Storage:** When not in use for extended periods, store the receiver in a dry, cool place.

## 7. TROUBLESHOOTING

If you encounter issues with your FS-BS4 receiver, consider the following troubleshooting steps:

- **No Power/Indicator Light Off:**
  - Check power source connection and battery charge.
  - Ensure power polarity is correct.
- **No Response from Servos/Motors:**
  - Verify successful binding (refer to Section 4).
  - Check all servo/ESC connections to the receiver channels.
  - Ensure the transmitter is powered on and functioning correctly.
  - Confirm the correct channel assignments on your transmitter.
- **Intermittent Signal/Loss of Range:**
  - Inspect the receiver antenna for damage or improper routing.
  - Ensure there are no major obstructions between the transmitter and receiver.
  - Check for potential sources of 2.4GHz interference in the operating environment.
  - Verify transmitter battery level.
- **Gyro Stabilization Issues:**
  - Ensure S.V.C. is enabled and configured correctly on your transmitter.
  - Adjust gyro sensitivity (SENS port) to an appropriate level.
  - Confirm the receiver is mounted securely and free from excessive vibration.

For further assistance, consult your transmitter's manual or contact Flysky customer support.

## 8. WARRANTY INFORMATION

Flysky products are manufactured to high-quality standards. Specific warranty terms and conditions may vary by region and retailer. Please retain your proof of purchase for any warranty claims.


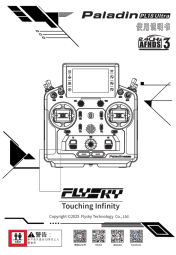
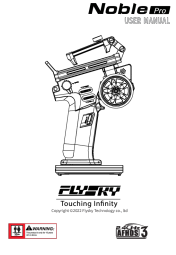
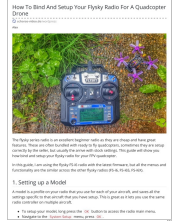

For detailed warranty information, please refer to the documentation included with your purchase or visit the official Flysky website.

## 9. SUPPORT

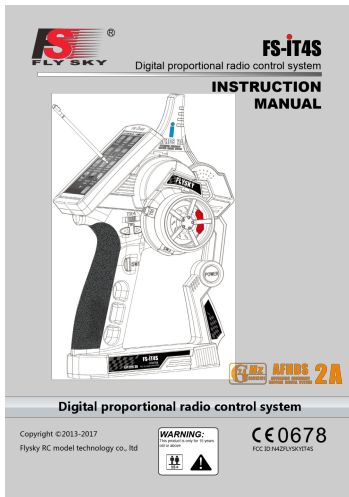
Should you require technical assistance or have questions not covered in this manual, please contact Flysky customer support through their official website or the retailer from whom you purchased the product.

When contacting support, please have your product model (FS-BS4) and any relevant purchase information ready.

Related Documents - FS-BS4

	<p><a href="#">FlySky FS-GT5 Digital Proportional Radio Control System User Manual</a></p> <p>Comprehensive user manual for the FlySky FS-GT5 Digital Proportional Radio Control System, covering setup, operation, function settings, and product specifications. Learn how to use your RC system for cars, boats, and other models.</p>
	<p><a href="#">Paladin PL18 Ultra   Flysky 18</a></p> <p>Flysky Paladin PL18 Ultra 18 2.4GHz AFHDS 3</p> <p>Paladin PL18 Ultra</p> <p>Paladin PL18</p>
	<p><a href="#">Flysky Noble Pro User Manual - Advanced Radio Control System Guide</a></p> <p>Comprehensive user manual for the Flysky Noble Pro radio control system, detailing setup, operation, functions, specifications, and safety guidelines for RC models. Learn to use the transmitter, receivers, and advanced features for optimal performance.</p>
	<p><a href="#">How to Bind and Set Up Your Flysky Radio for a Quadcopter Drone</a></p> <p>A comprehensive guide on how to bind and set up your Flysky FS-16 radio transmitter for quadcopter drones, covering model setup, auxiliary switches, receiver binding, and failsafe configuration.</p>
	<p><a href="#">Instrukcja Obsługi FlySky FS-GT3B: Nadajnik i Odbiornik RC</a></p> <p>Kompletny przewodnik po obsłudze zestawu nadajnika i odbiornika FlySky FS-GT3B (FS-GR3E), przeznaczonego do sterowania modelami zdalnie sterowanymi (RC). Zawiera informacje o specyfikacji, konfiguracji, funkcjach i bezpieczeństwie.</p>



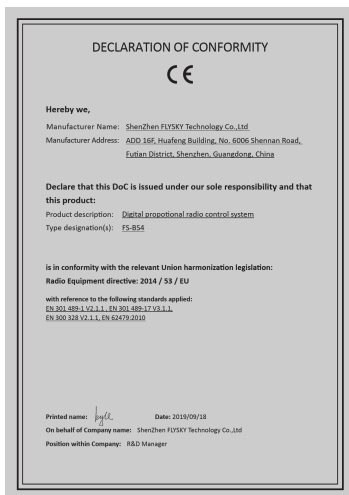


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FS-IT4S Digital proportional radio control system INSTRUCTION MANUAL Digital proportional radio con ... omputerized R/C system, compatible with model cars and boats. This system may also be used with the **FS-BS4** receiver to take advantage of Smart Vehicle Control, FLYSKY s state of the art gyro stabiliza...

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DECLARATION OF CONFORMITY Hereby we, Manufacturer Name: ShenZhen FLYSKY Technology Co.,Ltd Manufactu ... at this product: Product description: Digital propotional radio control system Type designation s : **FS-BS4** is in conformity with the relevant Union harmonization legislation: Radio Equipment directive...

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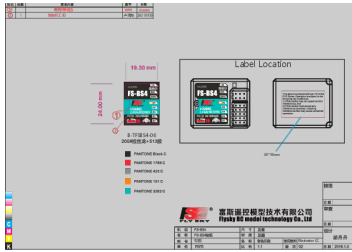


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