Flysky FS-GR3E

Flysky FS-GR3E 3-Channel 2.4GHz Receiver User Manual

Model: FS-GR3E

Introduction

The Flysky FS-GR3E is a reliable 3-channel 2.4GHz receiver designed for use with RC cars and boats. It utilizes Flysky's Automatic Frequency Hopping Digital System (AFHDS) technology to provide a stable and interference-free connection. This receiver is compatible with various Flysky transmitters, including the FS-GT2, FS-GT2B, FS-GT3B, and FS-GT3C. This manual provides essential information for the proper setup, operation, and maintenance of your FS-GR3E receiver.

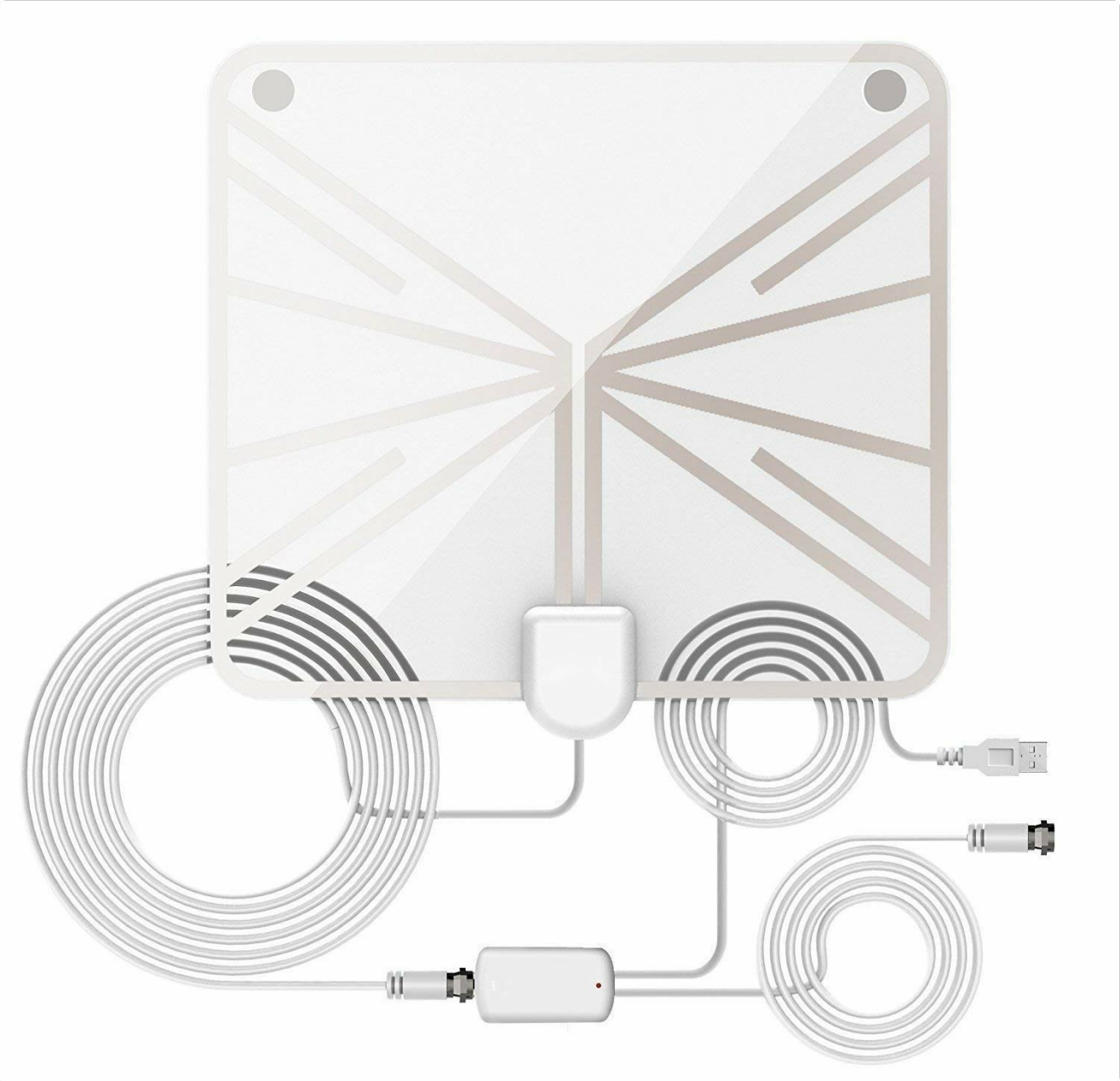

Image: The Flysky FS-GR3E 3-Channel 2.4GHz Receiver. This image displays the compact black receiver unit with its antenna wire and various ports for connection to servos, ESC, and power.

Safety Information

Please read and understand the following safety guidelines before operating your receiver:

- Ensure correct polarity when connecting power to the receiver. Incorrect connections can cause damage.
- Operate your RC model in open areas, away from people, vehicles, and obstacles.
- Avoid exposing the receiver to moisture, extreme temperatures, or direct sunlight for extended periods.
- Always turn on your transmitter first, then the receiver. When powering off, turn off the receiver first, then the transmitter.
- Regularly inspect all wiring and connections for damage or loose contacts.

Package Contents

Verify that all items are present in the package:

- 1 x Flysky FS-GR3E 2.4GHz 3-Channel Receiver

Specifications

Channels	3
Model Type	Car / Boat
RF Receiver Sensitivity	-105dbm
Modulation	GFSK
System Type	AFHDS
Sensitivity	1024
Failsafe	Yes (Channel 2)
Bind Port	Yes (Channel 3)
Power Port	Yes (VCC)
Power Input	4-11V DC
Weight	5g (approx. 0.18 oz)
Antenna Length	26mm
Dimensions (L*W*H)	37.6 x 22.3 x 13 mm (approx. 1.48 x 0.88 x 0.51 inches)
Color	Black

Setup

1. Installation

Mount the FS-GR3E receiver securely in your RC model, ensuring it is protected from vibrations and moisture. Position the antenna wire as straight as possible and away from metal parts or carbon fiber chassis to maximize range and signal quality. Connect your Electronic Speed Controller (ESC) to Channel 2 (throttle), and your steering servo to Channel 1. If using a third channel for auxiliary functions, connect it to Channel 3.

2. Binding the Receiver to the Transmitter

The receiver must be bound to your Flysky transmitter before use. Follow these steps:

1. Ensure your transmitter is powered off.
2. Insert the bind plug (usually included with your transmitter or receiver) into the "BIND" port (Channel 3) on the FS-GR3E receiver.
3. Connect power to the receiver (e.g., via the ESC or a separate battery pack connected to the VCC port). The receiver's LED should start flashing rapidly, indicating it is in binding mode.
4. While holding the bind button on your transmitter (or following its specific binding procedure), power on the transmitter.
5. The receiver's LED should stop flashing and become solid, indicating a successful bind.
6. Turn off the receiver, then turn off the transmitter.
7. Remove the bind plug from the receiver.

8. Power on the transmitter first, then the receiver. Verify that the receiver's LED is solid and that the controls respond correctly.

Note: If binding fails, repeat the steps. Some transmitters may have slightly different binding procedures; refer to your transmitter's manual for specific instructions.

Operating

1. Failsafe Function

The FS-GR3E receiver features a failsafe function on Channel 2 (throttle) to prevent runaway models in case of signal loss. To set the failsafe position:

1. Ensure the receiver is bound to the transmitter and both are powered on.
2. Position the throttle stick on your transmitter to the desired failsafe position (e.g., neutral or brake).
3. Locate the small failsafe button on the receiver. Press and hold this button until the receiver's LED blinks once, then release.
4. The failsafe position is now set. To test, power on the transmitter and receiver, then turn off the transmitter. The throttle should move to the set failsafe position.

It is recommended to set the failsafe to a neutral or brake position for safety.

2. Channel Assignment

The FS-GR3E receiver has 3 channels. Standard assignments are:

- **Channel 1:** Steering (for RC cars/boats)
- **Channel 2:** Throttle (for RC cars/boats)
- **Channel 3:** Auxiliary function (e.g., lights, gear shift, or used as Bind port)

Maintenance

To ensure the longevity and optimal performance of your FS-GR3E receiver, follow these maintenance tips:

- Keep the receiver clean and free from dust, dirt, and debris. Use a soft, dry brush or compressed air for cleaning.
- Avoid exposing the receiver to water or excessive humidity. If it gets wet, disconnect power immediately and allow it to dry completely before re-use.
- Store the receiver in a cool, dry place when not in use.
- Regularly check the antenna wire for any cuts, kinks, or damage. A damaged antenna can significantly reduce range.
- Ensure all connections to the receiver are secure and free from corrosion.

Troubleshooting

Problem	Possible Cause	Solution
Receiver LED not solid after binding attempt.	Binding procedure not followed correctly; transmitter not in bind mode; bind plug not inserted correctly; power issue.	Repeat binding steps carefully. Ensure bind plug is fully inserted into Channel 3. Check power supply to receiver. Refer to transmitter manual for its specific binding process.

No response from model.	Receiver not bound; transmitter off; low battery in transmitter or model; incorrect wiring; damaged receiver/servo/ESC.	Verify receiver is bound (solid LED). Ensure transmitter is on. Check battery levels. Inspect all wiring connections. Test components individually if possible.
Limited range or intermittent signal.	Antenna obstructed or damaged; interference; receiver mounted too close to metal/carbon fiber.	Ensure antenna is straight and clear of obstructions. Check for local interference sources. Relocate receiver if necessary. Inspect antenna wire for damage.
Failsafe not working.	Failsafe not set correctly; signal loss not detected.	Re-set the failsafe position following the instructions in the "Operating" section. Ensure the transmitter is turned off to test signal loss.

Warranty and Support

For warranty information and technical support, please refer to the official Flysky website or contact your authorized Flysky dealer. Keep your purchase receipt as proof of purchase.