Flysky FS-i4

Flysky FS-i4 AFHDS 2A 2.4GHz 4CH Radio System Instruction Manual

Model: FS-i4 Transmitter, FS-A6 Receiver

Introduction

The Flysky FS-i4 is an affordable and reliable 4-channel 2.4GHz radio system designed for various RC models, including fixed-wing aircraft, gliders, and helicopters. It utilizes the advanced Automatic Frequency Hopping Digital System (AFHDS 2A) to ensure a strong, interference-free signal, providing precise control over your RC vehicle. This manual provides essential information for setting up, operating, and maintaining your FS-i4 radio system.

Package Contents

This image displays the complete package contents, including the FS-i4 transmitter, the FS-A6 6-channel receiver, a bind plug, and an instruction CD. These are the essential components you should find in your product box.

Please verify that all items listed below are present in your package:

- 1 x FS-i4 Transmitter
- 1 x FS-A6 6CH Receiver
- 1 x Bind Plug

- Instruction Manual (this document)

Product Overview

The Flysky FS-i4 radio system consists of the FS-i4 transmitter and the FS-A6 receiver. Understanding the components and their functions is crucial for proper operation.

FS-i4 Transmitter

This image shows the front view of the FS-i4 transmitter, highlighting its ergonomic design and control layout. Key features include the dual gimbals for control, various switches, and the control panel with indicators.

This collage provides detailed close-up views of various parts of the FS-i4 transmitter. It illustrates the precision gimbals, the servo reversing switches, the power switch, the trainer port, and the battery compartment, giving a comprehensive look at the controls and interfaces.

- **Gimbals:** Used for primary control inputs (throttle, aileron, elevator, rudder).
- **Switches:** Various switches for channel assignment and auxiliary functions.
- **Servo Reversers:** Switches to reverse the direction of servo travel for each channel.
- **Power Indicator LEDs:** Indicate power status and low voltage warning.
- **Bind Button:** Used for pairing the transmitter with the receiver.
- **Trainer Port (DSC):** For connecting to a simulator or another transmitter for training.
- **Battery Compartment:** Located at the back for 4x AA batteries.

FS-A6 Receiver

The FS-A6 is a compact 6-channel receiver designed to work seamlessly with the FS-i4 transmitter. It receives the 2.4GHz signal from the transmitter and translates it into control signals for your RC model's servos and electronic speed controller (ESC).

- **Channels:** 6 channels for connecting servos and ESC.
- **Antenna:** Single antenna for signal reception.
- **Bind Port:** Used for the binding process.

Setup

1. Transmitter Battery Installation

This image displays the rear of the FS-i4 transmitter, with a clear view of the battery compartment cover. The "PUSH" indicator shows where to press to open the compartment for battery installation.

1. Locate the battery compartment on the back of the FS-i4 transmitter.
2. Press the "PUSH" tab and slide the battery cover downwards to open.
3. Insert four (4) AA batteries into the battery holder, ensuring correct polarity (+/-).
4. Slide the battery cover back into place until it clicks securely.
5. Turn on the transmitter using the power switch. The power indicator LEDs should illuminate.

Note: *The transmitter requires 6V (4 x 1.5V AA batteries). Do not use rechargeable batteries with a lower nominal voltage unless specifically designed for this voltage range.*

2. Receiver Connection

Connect the FS-A6 receiver to your RC model's components (servos, ESC) according to your model's specific wiring diagram. Ensure correct polarity for all connections.

- Connect the ESC (Electronic Speed Controller) to Channel 3 (Throttle) on the receiver.
- Connect servos to their respective channels (e.g., Aileron to Channel 1, Elevator to Channel 2, Rudder to Channel 4).
- Ensure the receiver is powered correctly, typically through the ESC's BEC (Battery Eliminator Circuit) or a separate receiver battery. The receiver's operating voltage is 4.5V to 6.5V DC.

3. Binding Procedure (Transmitter and Receiver Pairing)

Binding is the process of linking the transmitter and receiver so they can communicate. This procedure needs to be performed only once per transmitter/receiver pair.

1. Ensure the transmitter is turned OFF.
2. Insert the bind plug into the B/VCC port on the FS-A6 receiver.
3. Apply power to the receiver (e.g., connect the main battery to the ESC, or a separate receiver battery). The receiver's LED should flash rapidly, indicating it's in binding mode.
4. While holding down the "BIND RANGE TEST" button on the FS-i4 transmitter, turn on the transmitter.
5. The transmitter's power indicator LEDs will flash, and the receiver's LED should stop flashing and remain solid, indicating successful binding.
6. Release the "BIND RANGE TEST" button on the transmitter.
7. Turn off both the receiver and the transmitter.
8. Remove the bind plug from the receiver.
9. Turn on the transmitter first, then power on the receiver. The receiver's LED should be solid, confirming a successful connection.

Important: *Always turn on the transmitter before the receiver and turn off the receiver before the transmitter to prevent loss of control.*

Operating

Basic Controls

This image provides a detailed close-up of one of the control gimbals on the FS-i4 transmitter, showing the textured grip and the range of motion. The gimbals are central to controlling your RC model.

The FS-i4 transmitter provides 4 channels of control:

- **Channel 1 (Aileron):** Controls roll (left/right tilt).
- **Channel 2 (Elevator):** Controls pitch (nose up/down).
- **Channel 3 (Throttle):** Controls motor speed/power.
- **Channel 4 (Rudder):** Controls yaw (left/right turn).

Move the gimbals smoothly to control your model. Familiarize yourself with the controls in a safe environment before flying.

Servo Reversing

The FS-i4 features physical switches for servo reversing, allowing you to change the direction of travel for each channel if needed. These switches are located on the front panel of the transmitter, labeled V.MIR, RUD, THR, ELL, AIL, REV, NOR.

- **V.MIR (Vertical Mirror):** Likely for vertical stabilizer/rudder.
- **RUD (Rudder):** Reverses rudder channel.
- **THR (Throttle):** Reverses throttle channel.
- **ELL (Elevator):** Reverses elevator channel.
- **AIL (Aileron):** Reverses aileron channel.

Before operating your model, always check that all control surfaces move in the correct direction relative to your stick inputs. Adjust the servo reversing switches as necessary.

Low Voltage Warning

The transmitter is equipped with a low voltage warning system. When the transmitter battery voltage drops below 4.2V, the power indicator LEDs will flash, alerting you to replace the batteries. Operating the transmitter with low voltage can lead to loss of control.

Maintenance

- **Cleaning:** Use a soft, dry cloth to clean the transmitter and receiver. Do not use solvents or abrasive cleaners.
- **Storage:** Store the radio system in a cool, dry place away from direct sunlight and extreme temperatures.
- **Battery Removal:** If storing the transmitter for an extended period, remove the AA batteries to prevent leakage and damage.
- **Inspection:** Periodically inspect all cables and connectors for signs of wear or damage.

Troubleshooting

Problem	Possible Cause	Solution
Transmitter does not power on.	Batteries are dead or incorrectly installed. Power switch is faulty.	Check battery polarity and replace with fresh AA batteries. Contact Flysky support if switch is faulty.
Receiver LED flashes rapidly.	Receiver is not bound to the transmitter. Transmitter is off or out of range.	Perform the binding procedure. Ensure transmitter is on and within range.
No control response from model.	Receiver not powered. Receiver not bound. Servos/ESC incorrectly connected. Damaged receiver or servos.	Check power supply to receiver. Re-bind transmitter and receiver. Verify all connections are correct and secure. Test components individually if possible.
Control surfaces move in wrong direction.	Servo reversing switches are set incorrectly.	Adjust the corresponding servo reversing switches on the transmitter.

Specifications

FS-i4 Transmitter Specifications

- **Channels:** 4

- **Model Type:** Fixed-wing / Glider / Helicopter
- **RF Range:** 2.405-2.475GHz
- **Bandwidth:** 500KHz
- **Bands:** 142
- **RF Power:** Less than 20dBm
- **2.4G System:** AFHDS 2A and AFHDS
- **Code Type:** GFSK
- **Sensitivity:** 1024
- **Low Voltage Warning:** Less than 4.2V
- **DSC Port:** PS2; Output: PPM
- **Charger Port:** No
- **ANT Length:** 26mm * 2 (dual antenna)
- **Power:** 6V (4 x 1.5V AA batteries)
- **Display Mode:** LED indicator
- **Size:** 174 x 89 x 190mm
- **Weight:** 335g
- **Color:** Black

FS-A6 Receiver Specifications

- **Channels:** 6 Channels
- **Model Type:** Airplane / Glider / Helicopter
- **RF Range:** 2.405-2.475GHz
- **Bandwidth:** 500KHz
- **Band Sum:** 142
- **RF Receiver Sensitivity:** -105dBm
- **2.4G System:** AFHDS 2A
- **Code Type:** GFSK
- **Sensitivity:** 1024
- **Power:** 4.5~6.5V DC
- **ANT Length:** 26mm
- **Dimensions:** 45 x 23 x 9mm
- **Weight:** 13g
- **Color:** Gray (transparent)

Warranty and Support

Flysky products are manufactured to high quality standards. For warranty information, technical support, or service inquiries, please contact your original point of purchase or visit the official Flysky website. Keep your purchase receipt as proof of purchase for warranty claims.
For further assistance, you may visit the Flysky Store on Amazon.

Product Model: FS-i4