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Flysky FS-iA6B

Flysky FS-iA6B Receiver User Manual

Model: FS-iA6B | **Brand:** Flysky

1. Introduction

The Flysky FS-iA6B is a compact and reliable 6-channel 2.4G receiver designed for various RC models, including airplanes, gliders, and helicopters. It features i-BUS and data acquisition interfaces, offering versatile connectivity options for your remote control systems.

Package Contents:

- 1x Flysky FS-iA6B 6CH Receiver
- 1x Bind Plug
- 1x 25cm Lipo Battery Strap

Figure 1: Contents of the Flysky FS-iA6B receiver package, including the receiver unit, a bind plug, and a Lipo battery strap.

2. Specifications

Brand Name	Flysky
Item Name	FS-iA6B Receiver
Channels	6
Frequency Range	2.4055 - 2.475 GHz
Band Width Number	140
Transmitting Power	≤ 20dBm
RF Receiver Sensitivity	-105dbm
2.4G Mode	Second generation enhanced automatic FM digital system
Encoding	GFSK

Antenna Length	26mm * 2 (dual antenna)
Input Power	4.0 - 6.5V DC
Dimensions (L x W x H)	47 x 26.2 x 15 mm (1.85 x 1.03 x 0.59 inches)
Weight	14.9g (0.53 oz)
i-Bus Interface	Yes
Data Acquisition Interface	Yes
Model Type	Airplane / Glider / Helicopter
Compatible Transmitters	FS-i4, FS-i6, FS-i10, FS-GT2E, FS-GT2G
Maximum Range	500 Feet

Figure 2: Physical dimensions of the Flysky FS-iA6B receiver, showing its compact size.

3. Setup Guide

3.1. Connecting the Receiver

Connect the receiver to your flight controller or servos using the appropriate cables. Ensure correct polarity when connecting power to the B/VCC port. The receiver operates on 4.0-6.5V DC.

Figure 3: The FS-iA6B receiver with its dual antennas properly connected, ready for installation.

3.2. Binding the Receiver to a Transmitter

To establish communication between the receiver and your Flysky transmitter, follow these binding steps:

1. Ensure your transmitter is turned off.
2. Insert the provided bind plug into the B/VCC port on the FS-iA6B receiver.

Figure 4: Close-up view of the receiver's ports, showing the bind plug inserted into the B/VCC port for binding.

3. Apply power to the receiver (e.g., connect to a flight controller or a 4.0-6.5V DC power source). The LED on the receiver should start flashing rapidly, indicating it is in binding mode.
4. Turn on your compatible Flysky transmitter (e.g., FS-i6, FS-i10) and navigate to the binding function in its menu.
5. Initiate the binding process on the transmitter.
6. Once binding is successful, the LED on the receiver will stop flashing and remain solid.
7. Turn off the receiver's power, then remove the bind plug.
8. Turn off your transmitter.
9. Reconnect power to the receiver and then turn on your transmitter. The receiver LED should be solid, indicating a successful connection.

Note: Always remove the bind plug after successful binding to prevent the receiver from entering binding mode unintentionally during subsequent power-ups.

3.3. Compatible Transmitters

The FS-iA6B receiver is compatible with a range of Flysky transmitters, including:

- FS-i4

- FS-i6
- FS-i10
- FS-GT2E
- FS-GT2G

Receiver	GR3E	R6B	R9B	A3	BS3	BS4	BS6	A6	iA6	iA6B	X6B	A8S	iA8S	iA10	iA10B
FS-GT2	√	√	√												
FS-GT2B	√	√	√												
FS-GT2E	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√
FS-GT2G	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√
FS-GT2F	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√
FS-GT3B	√	√	√												
FS-GT3C	√	√	√												
FS-iT4S	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√
FS-GT5				√	√	√	√	√	√	√	√	√	√	√	√
FS-i4X	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√
FS-i6	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√
FS-i6X	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√
FS-i6S				√	√	√	√	√	√	√	√	√	√	√	√
FS-CT6B	√	√	√												
FS-T6	√	√	√												
FS-TH9X	√	√	√												
FS-TH9A	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√
FS-TM10	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√
FS-i8	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√
FS-i10	√	√	√	√	√	√	√	√	√	√	√	√	√	√	√

Figure 5: A compatibility chart illustrating which Flysky transmitters are compatible with various receivers, including the FS-iA6B.

4. Operating the Receiver

The FS-iA6B receiver supports both PPM (Pulse Position Modulation) and i-BUS (Intelligent Bus) outputs, providing flexibility for different flight controllers and setups.

4.1. PPM Output

PPM combines all channel data into a single signal wire, simplifying wiring to your flight controller. The PPM/CH1 port on the receiver typically outputs the PPM signal.

4.2. i-BUS Output

i-BUS is a digital serial bus system that allows for multiple channels and telemetry data to be transmitted over a single wire. This can reduce wiring clutter and improve signal integrity. The i-BUS port on the receiver is dedicated for this purpose.

4.3. Channel Assignment

The receiver provides 6 physical channels (CH1-CH6) for connecting servos or other components. Ensure your flight controller or servo connections match the channel assignments configured on your transmitter.

5. Maintenance

- **Keep Dry:** Protect the receiver from moisture and humidity, as water can damage electronic components.
- **Avoid Extreme Temperatures:** Do not expose the receiver to excessively high or low temperatures.
- **Clean Gently:** If cleaning is necessary, use a soft, dry cloth. Avoid using solvents or harsh chemicals.
- **Secure Antennas:** Ensure the dual antennas are securely mounted and positioned for optimal signal reception. Avoid bending them sharply.
- **Inspect Connections:** Periodically check all wiring and connections for signs of wear, corrosion, or looseness.

6. Troubleshooting

Problem	Possible Cause	Solution
Receiver LED not solid after binding attempt.	Binding failed; bind plug not removed; incorrect binding procedure.	Re-attempt binding process carefully, ensuring bind plug is removed after successful binding. Check transmitter settings.
No signal/control from transmitter.	Receiver not bound; transmitter off; range issue; antenna damage.	Verify binding status. Ensure transmitter is on and charged. Check antenna placement and condition. Test range in a safe environment.
Intermittent signal loss.	Interference; antenna placement; low battery voltage.	Ensure antennas are clear of carbon fiber or metal. Avoid operating near strong interference sources. Check receiver and transmitter battery voltage.
Servos not responding correctly.	Incorrect channel assignment; faulty servo; wiring issue.	Verify channel assignments on transmitter and flight controller. Check servo connections and test individual servos.

7. Warranty and Support

This product is manufactured by FPVKing. For any issues or support inquiries, please refer to the seller's contact information or the platform where the product was purchased.
The manufacturer provides customer service and support. If you encounter any problems, please do not hesitate to contact customer service for assistance.

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