

GoolRC FS-iA10B

GoolRC Flysky FS-iA10B Receiver User Manual

Model: FS-iA10B

1. INTRODUCTION

The GoolRC Flysky FS-iA10B is a 2.4G 10-channel receiver designed for use with various Flysky transmitters, including the FS-i6, FS-i6S, FS-i6X, FS-i10, FS-GT2E, FS-GT2F, FS-GT2G, FS-it4S, FS-GT5, FS-i8, and FS-TM10. This receiver utilizes the AFHDS 2A (Automatic Frequency Hopping Digital System Second Generation) protocol, providing a reliable and stable connection for remote control models such as airplanes, gliders, and helicopters. It offers a remote control distance of 500~1500m in the air and supports multiple data interfaces including PWM, PPM, i.bus, and s.bus.

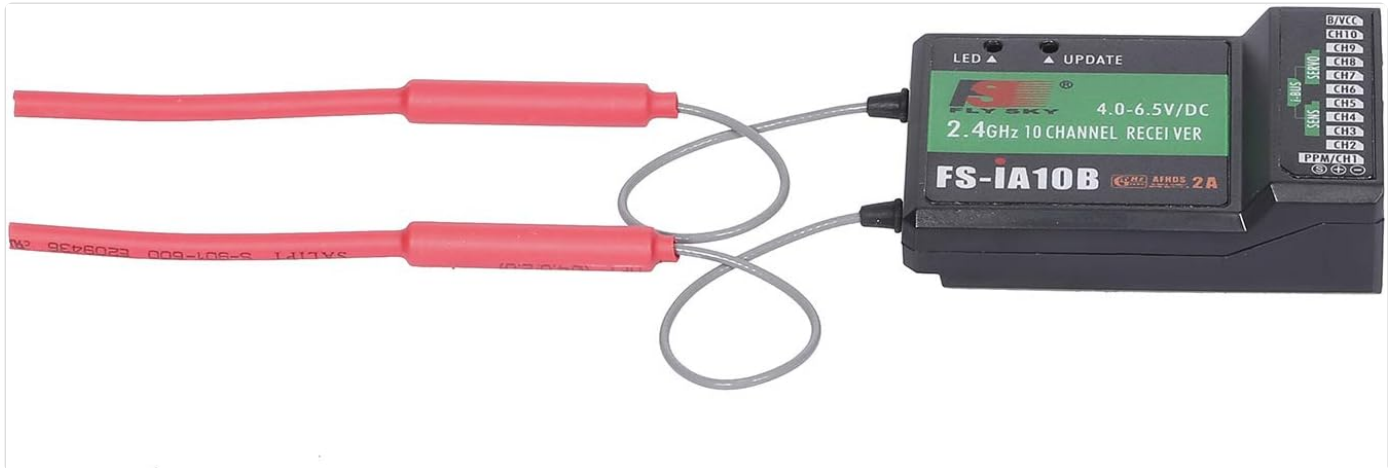


Figure 1.1: GoolRC Flysky FS-iA10B Receiver with its dual antennas.

2. SETUP

Proper setup is crucial for optimal performance and safety. Follow these steps carefully:

2.1. Binding the Receiver

To establish communication between the receiver and your transmitter, a binding process is required. Refer to your specific Flysky transmitter's manual for detailed binding instructions. Generally, this involves putting both the transmitter

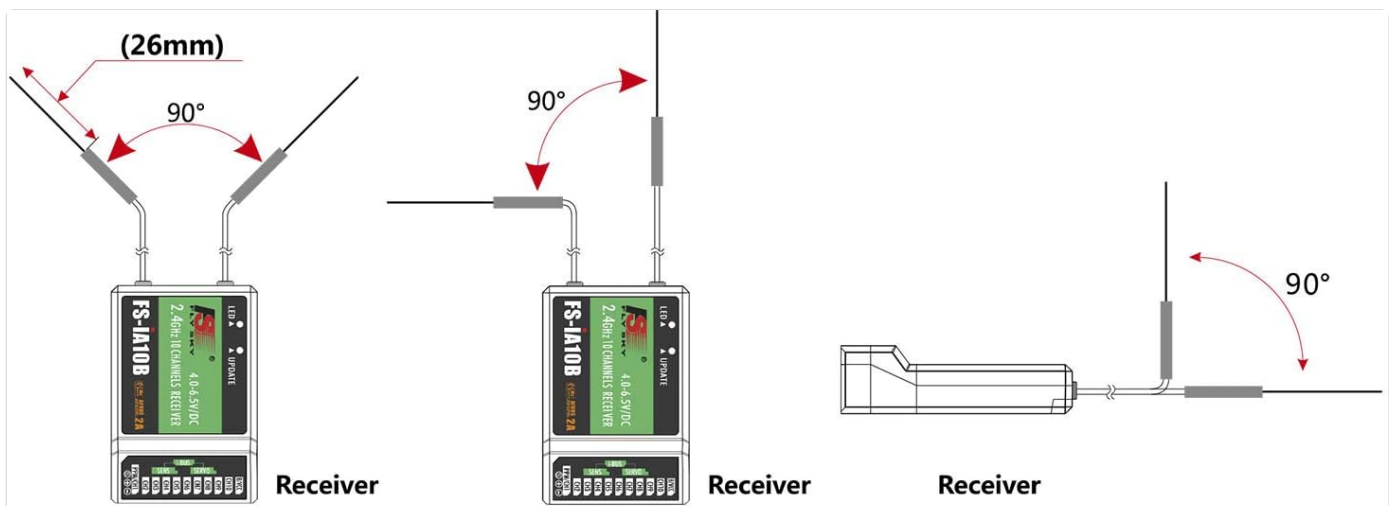
and receiver into binding mode. The FS-iA10B receiver features an 'UPDATE' button which may also serve as a bind button, or a bind plug may be used with the B/VCC port.



Figure 2.1: Detailed connection diagram of the FS-iA10B receiver, illustrating connections for channels, i.bus, PPM, and power.

2.2. Antenna Placement

The FS-iA10B receiver is equipped with two 150mm copper tube antennas. Proper antenna placement is vital for maintaining a strong and reliable signal. Ensure the antennas are positioned at a 90-degree angle to each other and away from carbon fiber or metal parts that could shield the signal.



Note

- Do not power on the receiver during the setup process to prevent loss of control.

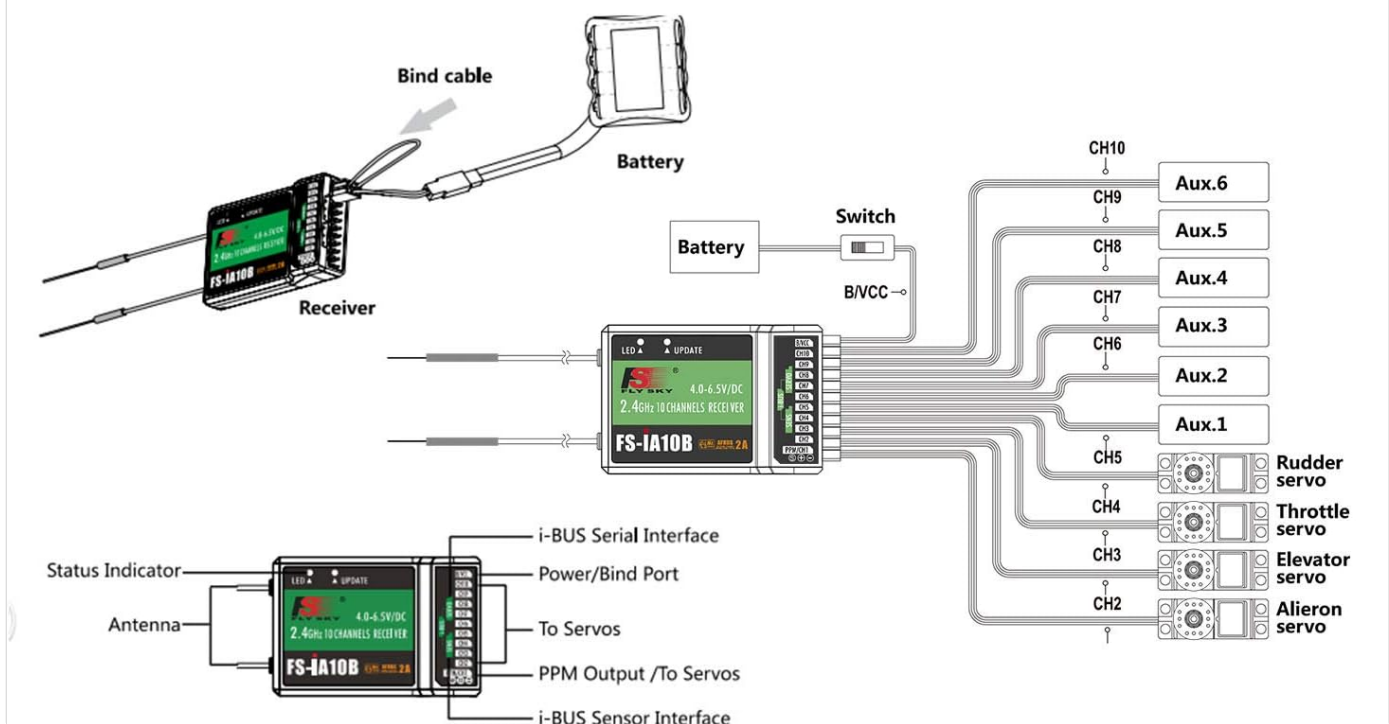


Figure 2.2: Recommended antenna orientation for optimal signal reception.

2.3. Power Connection

The receiver operates on a power input of 4.0-6.5V. Connect the power source (e.g., battery or ESC's BEC) to the B/VCC port or any available channel port that provides power. Ensure correct polarity to prevent damage.



Figure 2.3: Close-up of the receiver's servo and data ports.

3. OPERATING INSTRUCTIONS

Once the receiver is successfully bound and powered, it will receive signals from your compatible Flysky transmitter. The FS-IA10B provides 10 PWM channels for direct servo connections, as well as PPM, i.bus, and s.bus data interfaces for more advanced setups and flight controllers.

3.1. Channel Output

The receiver outputs signals for up to 10 channels. Connect your servos or other control devices to the corresponding PWM pins (CH1-CH10). The specific function of each channel (e.g., aileron, elevator, throttle, rudder) is determined by your transmitter's configuration.

3.2. Data Interfaces

- **PWM:** Standard Pulse Width Modulation output for individual servo control.
- **PPM:** Pulse Position Modulation, a single wire output carrying all channel data, often used for flight controllers.
- **i.bus / s.bus:** Digital serial bus protocols that transmit all channel data and telemetry over a single wire, offering reduced wiring complexity.

3.3. Compatibility

This receiver is compatible with a wide range of Flysky transmitters and suitable for various RC models. Ensure your transmitter is updated to the latest firmware for optimal compatibility.

SUITABLE TRANSMITTER FLYSKY
FS-I6 FS-I6S FS-I6X FS-I10 FS-GT2E
FS-GT2F FS-GT2G FS-IT4S FS-GT5
FS-I8 FS-TM10 TRANSMITTER;

SUITABLE MODELS:
AIRPLANE / GLIDER / HELICOPTER



Figure 3.1: The FS-iA10B receiver is compatible with a range of Flysky transmitters and suitable for airplanes, gliders, and helicopters.

4. MAINTENANCE

To ensure the longevity and reliable operation of your FS-iA10B receiver, follow these maintenance guidelines:

- **Storage:** Store the receiver in a dry environment, away from direct sunlight and extreme temperatures.
- **Cleaning:** Use a soft, dry cloth to clean the receiver. Avoid using solvents or harsh chemicals.
- **Environmental Conditions:** The receiver is designed to operate within a temperature range of -10 °C to +60 °C and a humidity range of 20% to 95%. Avoid exposing it to conditions outside these ranges.
- **Physical Protection:** Protect the receiver from physical impact and excessive vibration. Consider using foam or other dampening materials when mounting it in your model.

5. TROUBLESHOOTING

If you encounter issues with your FS-iA10B receiver, consider the following common troubleshooting steps:

- **No Signal/Loss of Control:**

- Ensure the receiver is properly bound to the transmitter. Re-bind if necessary.
- Check antenna placement and ensure they are not obstructed or damaged.
- Verify the power supply to the receiver is within the specified 4.0-6.5V range and is stable.
- Ensure the transmitter is powered on and operating correctly.
- **Important Note:** Do not power on the receiver during the setup process to prevent loss of control. Power it on only after all connections are secure and the binding process is initiated from the transmitter.

- **Intermittent Connection:**

- Check for sources of interference (e.g., other 2.4GHz devices, high-power electronics).
- Inspect all wiring connections for looseness or damage.
- Ensure the receiver is not mounted too close to noisy electronic components (e.g., ESC, motor).

- **Servos Not Responding:**

- Verify that servos are correctly plugged into the appropriate channels on the receiver.
- Check the servo itself for damage or malfunction.
- Confirm that the transmitter's channel assignments match the intended servo functions.

6. SPECIFICATIONS

Detailed technical specifications for the GoolRC Flysky FS-iA10B Receiver:

PRODUCT MODEL: **FS-IA10B**



Wireless protocol: AFHDS 2A
Remote control distance:
500~1500m (in the air)
Antenna type: Double copper
tube antenna (150mm * 2)
Power: 4.0-6.5V
RSSI: Supported
Data interface: PWM / PPM /
i.bus / s.bus
Temperature range:
-10 °C — + 60 °C
Humidity range: 20% -95%
Online Update: Support

Figure 6.1: Overview of FS-IA10B technical specifications.

Feature	Detail
Product Model	FS-IA10B
PWM Channels	10
Wireless Frequency	2.4G
Wireless Protocol	AFHDS 2A
Remote Control Distance	500~1500m (in the air)
Antenna Type	Double copper tube antenna (150mm * 2)
Power Input	4.0-6.5V
RSSI	Supported

Feature	Detail
Data Interface	PWM / PPM / i.bus / s.bus
Temperature Range	-10 °C — + 60 °C
Humidity Range	20% -95%
Online Update	Support
Dimensions	5cm x 3.2cm x 1.5cm
Item Weight	0.933 ounces (approx. 26.45g)

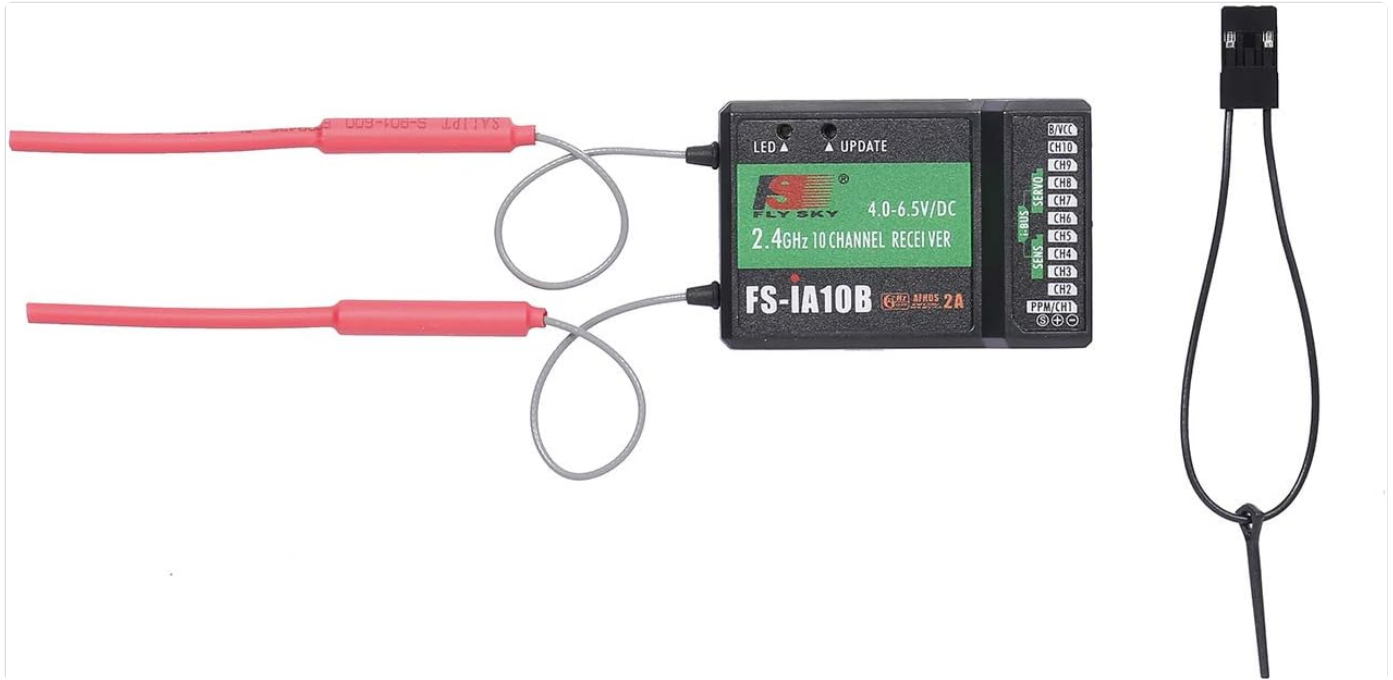


Figure 6.2: Physical dimensions of the FS-IA10B receiver.

7. WARRANTY AND SUPPORT

GoolRC is committed to providing quality products and customer satisfaction. If you encounter any problems with your FS-IA10B receiver, please contact the store where you purchased the product. They will assist you in resolving any issues and provide a satisfactory solution.

For further assistance or technical inquiries, please refer to the official GoolRC website or contact their customer support channels.

ASK A QUESTION ABOUT THIS MANUAL

Ask about setup, troubleshooting, compatibility, parts, safety, or missing instructions. Manuals+ will review the question and use this page's manual context to help answer it.

Name

Anonymous

Email

you@example.com

After a successful submission, we securely hash the supplied account or form email before sending it to Microsoft Advertising for conversion attribution. [Privacy details](#).

Question

Example: How do I reset this device or fix this error?

Details

Model number, symptoms, what you tried, or the section of the manual you are using.

Submit question