

Goolsky FS-i6X

Goolsky Flysky FS-i6X RC Transmitter and FS-iA6B Receiver Instruction Manual

Model: FS-i6X with FS-iA6B Receiver

1. INTRODUCTION AND OVERVIEW

The Goolsky Flysky FS-i6X RC Transmitter, paired with the FS-iA6B Receiver, is a 2.4GHz 10-channel remote control system designed for various RC models including drones, airplanes, and helicopters. This system utilizes AFHDS 2A (Automatic Frequency Hopping Digital System Second Generation) technology, providing robust interference protection, low power consumption, and high receiver sensitivity for reliable operation.

Key features include:

- **AFHDS 2A Technology:** Offers superior protection against interference while maintaining lower power consumption and high reliable receiver sensitivity.
- **Telemetry Capabilities:** Capable of receiving data from temperature, altitude, and other types of sensors. Supports servo calibration and i-BUS.
- **Multi-channel Hopping:** Hops between 16 channels (32 for Japanese and Korean versions) to reduce interference from other transmitters.
- **Unique ID Recognition:** Each transmitter and receiver has its own unique ID to prevent interference.
- **Low Power Consumption:** Consumes significantly less power than standard FM systems, extending battery life.
- **Receiver Compatibility:** The FS-iA6B receiver is compatible with FS-i6X, FS-i4, FS-i6, FS-i10, FS-GT2E, and FS-GT2G transmitters.



Figure 1.1: Front view of the FS-i6X Transmitter, showing the dual joysticks, LCD screen, and various switches.

FS-i6X

Transmitter Overview

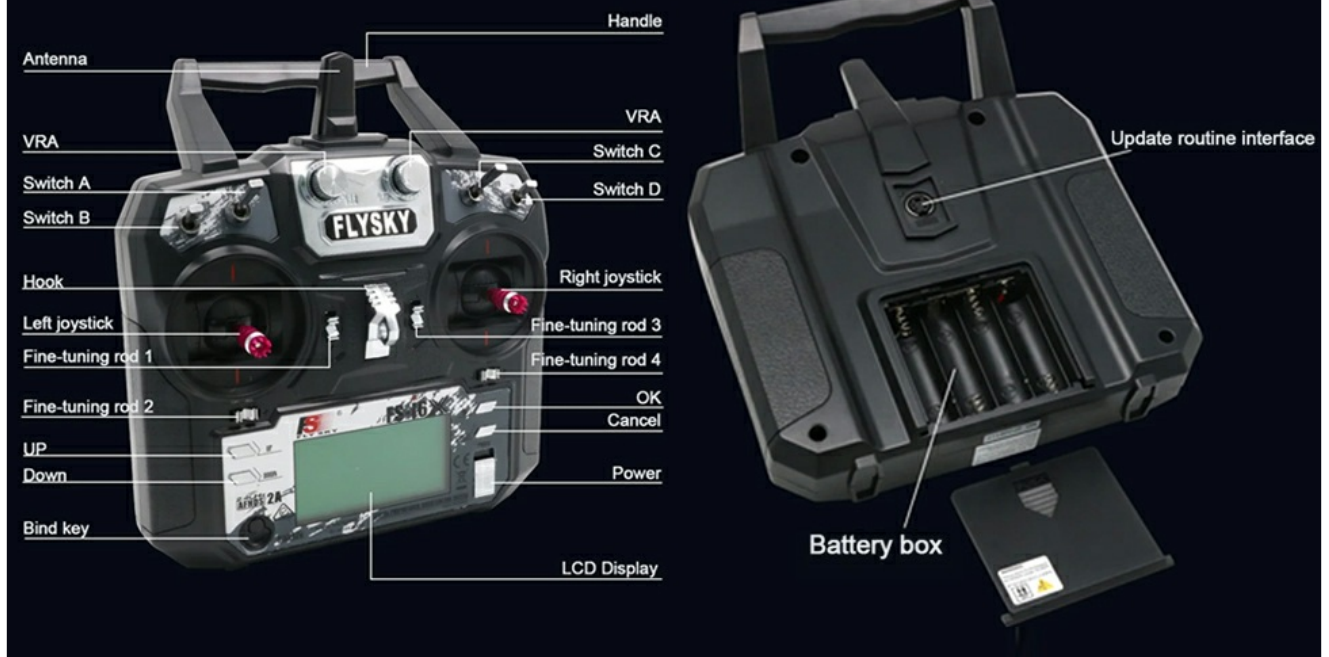


Figure 1.2: Labeled diagram of the FS-i6X Transmitter, highlighting the antenna, handle, switches (A, B, C, D), VRA/VRB knobs, joysticks, fine-tuning rods, OK/Cancel buttons, Power button, Bind key, LCD display, and battery box.

2. SETUP

2.1 Battery Installation

The FS-i6X Transmitter requires 4 AA batteries for operation. To install the batteries:

1. Locate the battery compartment on the back of the transmitter.
2. Slide the battery cover downwards to open it.
3. Insert 4 AA batteries, ensuring correct polarity (+/-).
4. Replace the battery cover by sliding it upwards until it clicks into place.



Figure 2.1: Rear view of the FS-i6X Transmitter with the battery compartment open, showing the slots for 4 AA batteries.

2.2 Receiver Connection (FS-iA6B)

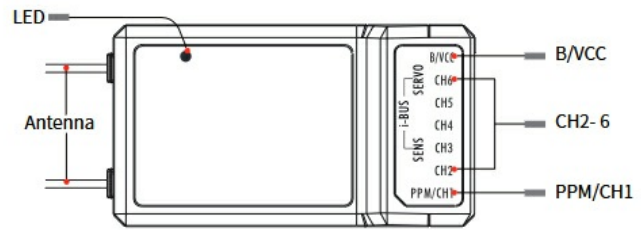
The FS-iA6B receiver connects to your RC model's components (servos, ESCs, etc.).

1. Connect the receiver to your model's power source (e.g., BEC from ESC or separate battery) via the B/VCC port.
2. Connect your servos or other control components to the appropriate channels (CH1-CH6) on the receiver.
3. For i-BUS compatible devices, connect to the i-BUS port.

Flysky FS-iA6B Receiver

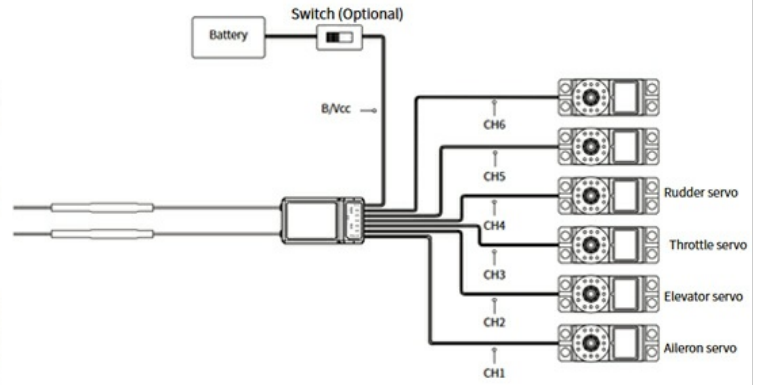


Receiver overview



Connecting the Receiver and Servos

Connect the receiver and the servos as indicated below:



Compatible Transmitters:



Figure 2.2: Diagram illustrating the FS-iA6B Receiver and its connection points for battery, servos (Rudder, Throttle, Elevator, Aileron), and optional switch.

2.3 Binding the Transmitter and Receiver

The transmitter and receiver are typically pre-bound from the factory. If re-binding is necessary:

1. Ensure the transmitter is powered off.
2. Insert the bind plug into the 'BIND' port on the FS-iA6B receiver.
3. Power on the receiver (e.g., connect the flight battery to the ESC, which powers the receiver). The receiver's LED should flash rapidly.
4. Press and hold the 'BIND KEY' button on the transmitter while powering it on.
5. The transmitter's LCD screen will display 'Binding...' and the receiver's LED will stop flashing and remain solid when binding is successful.
6. Release the 'BIND KEY' button on the transmitter and power off both the transmitter and receiver.
7. Remove the bind plug from the receiver.
8. Power on the transmitter first, then the receiver. The receiver's LED should be solid, indicating a successful connection.

3. OPERATING INSTRUCTIONS

3.1 Powering On/Off

Always power on the transmitter before the receiver, and power off the receiver before the transmitter.

- **To Power On:** Ensure all joysticks are in the neutral position. Press and hold the power button on the transmitter until the LCD screen illuminates. Then, power on your RC model's receiver.
- **To Power Off:** Power off your RC model's receiver first. Then, press and hold the power button on the transmitter until the LCD screen turns off.

3.2 Basic Controls

The FS-i6X features two main joysticks for primary control, along with various switches and knobs for auxiliary functions.

- **Left Joystick:** Typically controls throttle (vertical movement) and rudder/yaw (horizontal movement).
- **Right Joystick:** Typically controls elevator/pitch (vertical movement) and aileron/roll (horizontal movement).
- **Switches (A, B, C, D):** Used for various functions such as flight modes, gear retraction, or other auxiliary controls, depending on your model's configuration.
- **VRA/VRB Knobs:** Proportional rotary knobs for fine-tuning or controlling specific functions.
- **Fine-tuning Rods (1-4):** Used for minor adjustments to joystick channels to achieve stable flight or movement.



Figure 3.1: The FS-i6X Transmitter is versatile and can be used with a variety of RC models, including helicopters and fixed-wing airplanes, as well as drones, robots, cars, and boats.

3.3 LCD Display and Menu Navigation

The LCD backlit dot matrix screen provides real-time information and allows for system configuration.

- Use the 'UP' and 'DOWN' buttons to navigate through menu options.
- Use the 'OK' button to select an option or confirm a setting.
- Use the 'CANCEL' button to go back to the previous menu or exit a setting.
- The display shows information such as transmitter voltage, receiver signal strength, and channel values.



Figure 3.2: The LCD screen provides operational data, while the dual-gain antenna ensures stable signal transmission.

4. MAINTENANCE

Proper maintenance ensures the longevity and reliable performance of your FS-i6X Transmitter and FS-iA6B Receiver.

- **Cleaning:** Use a soft, dry cloth to clean the transmitter and receiver. Avoid using solvents or abrasive cleaners.
- **Storage:** Store the system in a cool, dry place away from direct sunlight and extreme temperatures. Remove batteries if storing for extended periods to prevent leakage.
- **Firmware Updates:** Periodically check the official Flysky website for firmware updates. Firmware upgrades can expand channel capabilities and improve performance.
- **Battery Check:** Regularly check battery levels and replace them when low to avoid unexpected power loss during operation. The transmitter features a low voltage alarm.
- **Antenna Care:** Ensure the receiver antennas are properly positioned and not damaged. Avoid bending or cutting the antennas, as this can affect signal range and reliability.

5. TROUBLESHOOTING

If you encounter issues with your FS-i6X system, refer to the following common troubleshooting steps:

- **No Power:** Check battery installation and ensure batteries are fully charged or new. Verify the power switch is in the ON position.
- **No Link/Binding Issues:** Ensure the transmitter and receiver are properly bound (refer to Section 2.3). Check that the bind plug is removed after binding. Ensure the transmitter is powered on before the receiver.
- **Intermittent Signal/Loss of Range:** Check for physical obstructions between the transmitter and receiver. Ensure receiver antennas are correctly positioned and not damaged. Avoid operating near strong electromagnetic interference sources.
- **Incorrect Control Response:** Verify that the correct model profile is selected on the transmitter. Check servo connections to the receiver channels. Perform servo calibration if necessary.

- **Transmitter Warning Messages:** Refer to the transmitter's LCD display for specific warning messages and consult the full user manual for detailed explanations and solutions.

6. SPECIFICATIONS

Feature	Specification
Model	FS-i6X (Transmitter), FS-iA6B (Receiver)
Channels	10 (expandable via firmware)
Frequency	2.4GHz
System	AFHDS 2A (Automatic Frequency Hopping Digital System Second Generation)
Power Supply (Transmitter)	4 x AA Batteries
Recommended Age	16 years and up
Manufacturer	Goolsky

7. OFFICIAL PRODUCT VIDEOS

7.1 Flysky FS-i6X RC Transmitter with FS-iA6B Receiver Overview

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Video 7.1: This video provides a detailed overview of the Flysky FS-i6X RC Transmitter and FS-iA6B Receiver, demonstrating its features and basic functionality. It shows the transmitter in action controlling a custom-built robotic platform, highlighting the ease of setup and control for various applications.

7.2 Goolsky Flysky FS-i6X RC Transmitter with FS-iA6B Receiver Features

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Video 7.2: This video showcases the key features and components of the Goolsky Flysky FS-i6X RC Transmitter and FS-iA6B Receiver. It demonstrates the simple setup process, including battery installation and receiver binding, and highlights the basic control functions and menu navigation. The video also briefly touches upon the expandability and quality of the system.

8. WARRANTY AND SUPPORT

For warranty information, technical support, or further assistance, please refer to the official Goolsky website or contact their customer service. Keep your purchase receipt as proof of purchase for any warranty claims.