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› GoolRC Flysky FS-i6 AFHDS 2A 2.4GHz 6CH Radio System Transmitter User Manual

GoolRC 3ZA1427703604116RM

GoolRC Flysky FS-i6 AFHDS 2A 2.4GHz 6CH Radio System Transmitter User Manual

Model: FS-i6 (3ZA1427703604116RM)

INTRODUCTION

This manual provides detailed instructions for the GoolRC Flysky FS-i6 AFHDS 2A 2.4GHz 6CH Radio System Transmitter and its accompanying FS-iA6 Receiver. Please read this manual thoroughly before operating the device to ensure proper setup, safe operation, and optimal performance. This radio system is designed for use with various RC models, including helicopters, gliders, airplanes, and drones.

PRODUCT OVERVIEW

The GoolRC Flysky FS-i6 is a 6-channel 2.4GHz radio system featuring AFHDS 2A (Automatic Frequency Hopping Digital System Second Generation) technology, which ensures reliable and interference-free signal operation. It offers quick and stable performance for various remote-controlled applications.



Image: The GoolRC Flysky FS-i6 transmitter, FS-IA6 receiver, and bind plug. This image displays the primary components included in the radio system package.



Code Channels BIND



2 Antennas

6CH Receiver

Image: Various angles of the FS-i6 transmitter, showcasing its front, back, and side profiles. This provides a comprehensive view of the device's physical design.

Key Features:

- **Reliable AFHDS 2A Technology:** Ensures stable and interference-free 2.4GHz signal operation.
- **6 Channels:** Provides ample control for various RC models.
- **Digital Receiver System:** Offers quick and stable performance.
- **Low Voltage Alarm:** Alerts the user when battery power is low.
- **Ergonomic Design:** Comfortable to hold and operate.
- **Dot Matrix LCD Backlit Screen:** For clear display of operational data and settings.

SETUP

1. Battery Installation

The FS-i6 transmitter requires four (4) AA batteries for operation. Ensure batteries are inserted with correct polarity.

1. Open the battery compartment cover located on the back of the transmitter.
2. Insert four AA batteries, observing the polarity markings (+/-).
3. Close the battery compartment cover securely.



Image: The open battery compartment of the FS-i6 transmitter, showing the slots for four AA batteries. This illustrates where to insert the power source.

2. Binding Procedure

Binding is the process of linking the transmitter to the receiver, establishing a unique communication link. This procedure is simple and ensures secure control of your RC model.

1. Ensure the transmitter is powered off.
2. Insert the bind plug into the B/VCC port on the FS-iA6 receiver.
3. Connect power to the receiver (e.g., from an ESC or separate battery). The receiver's LED should flash rapidly.
4. While holding down the 'BIND KEY' button on the transmitter, power on the transmitter.
5. Release the 'BIND KEY' button once the transmitter's screen illuminates.
6. The receiver's LED should now be solid, indicating a successful bind.
7. Power off both the receiver and transmitter.
8. Remove the bind plug from the receiver.
9. Power on the transmitter first, then the receiver. The receiver's LED should be solid, confirming the bind.



Image: A close-up view of the FS-iA6 receiver with the bind plug inserted into the B/VCC port. This illustrates the initial step for the binding process.

3. Connecting Receiver and Servos

Connect your servos and other components to the FS-iA6 receiver according to the diagram below. Ensure correct polarity for all connections.

It can be equipped with a variety of helicopter and fixed-wing airplane

- * Stylish, ultra-thin, low-power
- * Firmware upgrades are available to expand the channel
- * External sensor module can transmit information



 RC Plane	 RC Drone
 RC Robot	 RC Car
 RC Helicopter	 RC Boat

Image: A detailed diagram illustrating how to connect various servos (aileron, elevator, throttle, rudder, auxiliary channels) to the FS-iA6 receiver. It also shows the connection for the battery and switch.



Channels: 6

RF Channel: 140

Bandwidth: 500KHz

Power: 4.0-6.5V DC

i-BUS Port: No

Certificate: CE0678, FCC

2.4GHz System: AFHDS 2A

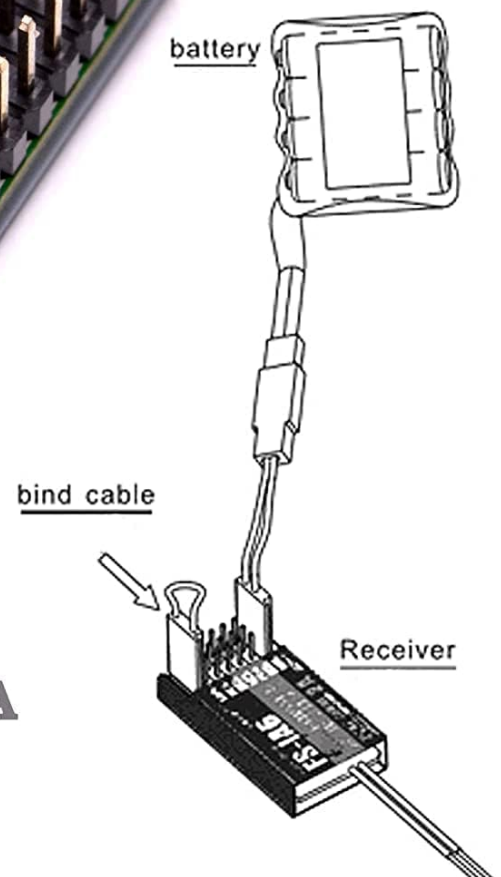


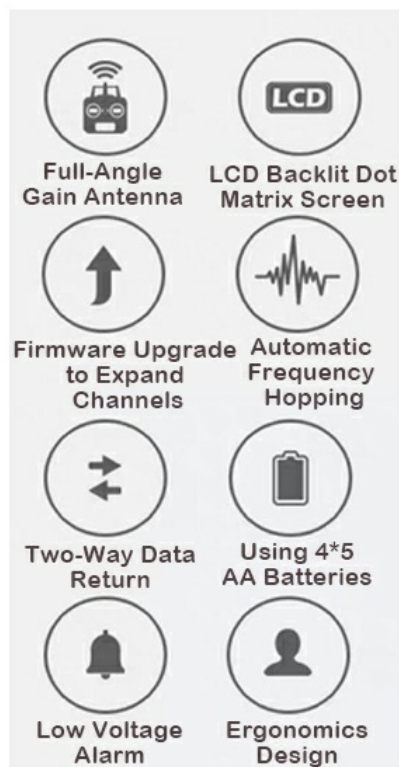
Image: A close-up view of the FS-iA6 receiver, highlighting the channel ports (CH1-CH6) and the B/VCC port. This image helps identify where to plug in servos and the bind plug.

OPERATING INSTRUCTIONS

1. Transmitter Controls Overview

Familiarize yourself with the various controls on the FS-i6 transmitter for effective operation.

FS-i6



RC Transmitter with FS-iA6 Receiver

Image: A diagram of the FS-i6 transmitter with labels pointing to its various components, including antenna, handle, gimbals, trim levers, switches (VrA, VrB, SwA, SwB, SwC, SwD), UP/DOWN buttons, OK/CANCEL buttons, BIND KEY, and POWER button.

- **Gimbals (Left and Right):** Control primary flight/movement functions (e.g., throttle, aileron, elevator, rudder).
- **Trim Levers (Trim 1-4):** Fine-tune the neutral position of control surfaces.
- **Switches (SwA, SwB, SwC, SwD):** Assignable switches for various functions like flight modes, gear, or flaps.
- **Variable Knobs (VrA, VrB):** Assignable rotary knobs for proportional control of auxiliary functions.
- **UP/DOWN Buttons:** Navigate through menu options.
- **OK/CANCEL Buttons:** Confirm selections or exit menus.
- **Power Button:** Turns the transmitter on/off.

2. Menu Navigation and Settings

The FS-i6 features a Dot Matrix LCD Backlit Screen for accessing and adjusting various settings. The menu system allows for configuration of model types, channel mixing, servo reversing, and more.

USING DOT MATRIX LCD BACKLIT SCREEN

LCD controller for different data operation, you can get different results

With to record digital information in English or Chinese characters shape



Image: A close-up of the FS-i6 transmitter's LCD screen, showing operational data such as AFHDS2A protocol, model number (M01), Flysky logo, transmitter voltage (Tx.V), and error rate (Err). The screen is backlit for visibility.

- Use the **UP** and **DOWN** buttons to scroll through menu options.
- Press the **OK** button to enter a submenu or confirm a selection.
- Press the **CANCEL** button to go back to the previous menu or exit a setting without saving.
- To save settings, typically you will need to press and hold the **CANCEL** button as indicated in the menu.

3. Model Memory

The FS-i6 transmitter can store multiple model configurations, allowing you to easily switch between different RC aircraft or vehicles without reconfiguring settings each time. Refer to the transmitter's menu for managing model memory slots.

4. Low Voltage Alarm

The transmitter is equipped with a low voltage alarm system. If the transmitter battery voltage drops below 4.2V, an audible and/or visual alarm will activate, indicating that the batteries need to be replaced or recharged. This feature helps prevent unexpected power loss during operation.

MAINTENANCE

- **Cleaning:** Use a soft, dry cloth to clean the transmitter and receiver. Avoid using harsh chemicals or solvents.
- **Storage:** Store the radio system in a cool, dry place away from direct sunlight and extreme temperatures. Remove batteries from the transmitter if it will not be used for an extended period.
- **Battery Care:** Always use fresh, high-quality AA batteries. If using rechargeable batteries, ensure they are fully charged before use.
- **Inspection:** Periodically check all switches, gimbals, and connections for any signs of wear or damage.

TROUBLESHOOTING

Problem	Possible Cause	Solution
Transmitter does not power on	Dead or incorrectly installed batteries	Replace batteries with fresh ones, ensuring correct polarity.
Receiver LED not solid after binding	Binding failed or bind plug still inserted	Repeat the binding procedure carefully. Ensure the bind plug is removed after successful binding.
Loss of control/short range	Interference, low battery voltage, or damaged antenna	Check transmitter and receiver battery levels. Ensure no strong interference sources are nearby. Inspect antennas for damage.
Servos not responding	Incorrect servo connection, power issue, or damaged servo	Verify servo connections to the receiver. Check power supply to the receiver and servos. Test servos individually if possible.
Low voltage alarm activates frequently	Weak or old batteries	Replace transmitter batteries with new, high-quality AA batteries.

SPECIFICATIONS

FS-i6 Transmitter Specifications:

Support Data Return



Two-way transmission, add remote control fun to you, safer control.

2.4GHz High Frequency Signal



Automatic frequency hopping, the control distance can be up to 500m.

Using Dot Matrix LCD Backlit Screen



Low Voltage Alarm



Use 4x5 AA batteries



Multiple models of receivers are supported and there are many options for installing model receivers. Any receiver other than the standard needs to be purchased separately.



Image: A table detailing the technical specifications of the FS-i6 transmitter, including model, channels, wireless frequency, antenna type, transmission power, low voltage alarm, wireless protocol, data port, charging port, online update capability, battery requirements, language support, display type, temperature and humidity ranges, dimensions, body weight, and certifications.

- **Product Model:** FS-i6
- **Channels:** 6
- **Models Supported:** Fixed wing, glider, helicopter, boat
- **Wireless Frequency:** 2.4GHz

- **Antenna Type:** Dual antenna
- **Transmission Power:** < 20dBm
- **Low Voltage Alarm:** < 4.2V
- **Wireless Protocol:** AFHDS 2A
- **Data Port:** PS/2 (PPM)
- **Charging Port:** None
- **Online Update:** Yes
- **Battery:** 1.5AA * 4
- **Language:** Chinese and English
- **Display:** STN transfective display, LCD 128x64 dot matrix
- **Temperature Range:** -10°C to +60°C
- **Humidity Range:** 20% - 95%
- **Dimensions:** 174 x 89 x 190 mm
- **Body Weight:** 392g
- **Certification:** CE, RCM, PAHS, FCC ID: N4ZFLYSKYI6

FS-iA6 Receiver Specifications:

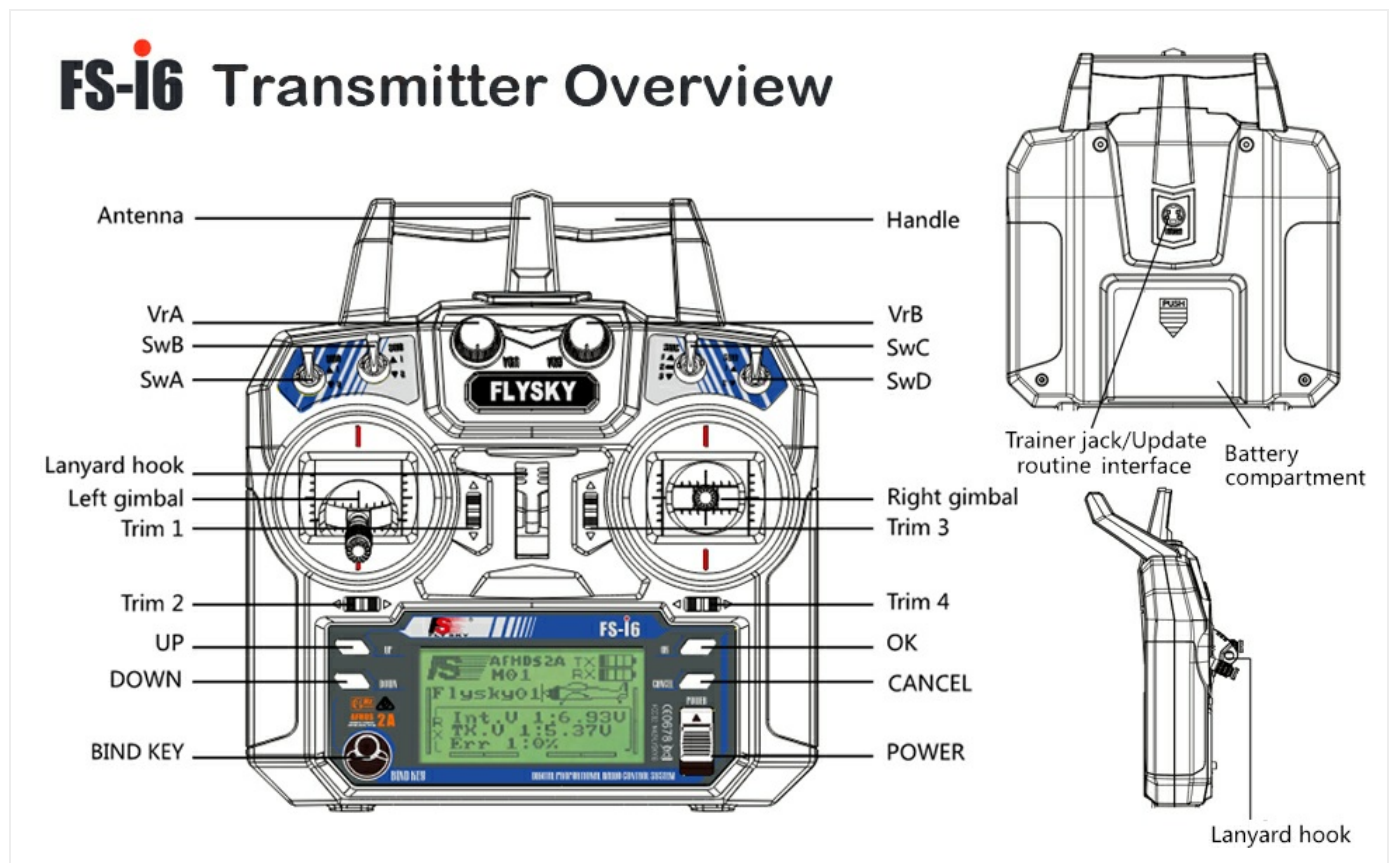


Image: A table detailing the technical specifications of the FS-iA6 receiver, including product model, PWM channels, wireless frequency, wireless protocol, range, antenna type, power requirements, RSSI support, data port, temperature and humidity ranges, online update capability, dimensions, weight, and certifications.

- **Product Model:** FS-iA6
- **PWM Channels:** 6
- **Wireless Frequency:** 2.4GHz
- **Wireless Protocol:** AFHDS 2A
- **Range:** 500 ~ 1500m (in the air)
- **Antenna Type:** Dual antenna (150mm * 2)

- **Power:** 4.0-6.5V DC
- **RSSI:** Not supported
- **Data Port:** PWM
- **Temperature Range:** 0°C to +60°C
- **Humidity Range:** 20% - 95%
- **Online Update:** Yes
- **Dimensions:** 40.4 * 21.1 * 7.3 mm
- **Weight:** 7g
- **Certification:** CE, FCC ID: N4ZFLYSKYIA6

WHAT'S IN THE BOX

The GoolRC Flysky FS-i6 Radio System package typically includes the following items:

- FS-i6 Transmitter
- FS-iA6 6CH Receiver
- Bind Plug



Image: The retail packaging for the GoolRC Flysky FS-i6 radio system, showing the transmitter, receiver, and bind plug alongside the box. This illustrates the complete product package.

WARRANTY AND SUPPORT

For warranty information, technical support, or service inquiries, please refer to the documentation provided with your purchase or contact GoolRC customer service directly. Keep your proof of purchase for warranty claims.

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