Flysky FS-i6X

Flysky FS-i6X 10CH 2.4GHz AFHDS 2A RC Transmitter User Manual

Model: FS-i6X Transmitter & FS-iA10B Receiver
Brand: Flysky

1. INTRODUCTION

This manual provides detailed instructions for the operation, setup, and maintenance of your Flysky FS-i6X 10-channel 2.4GHz AFHDS 2A RC Transmitter and FS-iA10B Receiver. This system is designed for use with fixed-wing aircraft, gliders, and helicopters, offering reliable and precise control.
The FS-i6X transmitter and FS-iA10B receiver are pre-bound at the factory. Therefore, re-binding is generally not required upon initial receipt. Please read this manual thoroughly before operating the device to ensure safe and correct usage.

2. PACKAGE CONTENTS

Verify that all items listed below are included in your package:

- 1x Flysky FS-i6X Transmitter
- 1x FS-iA10B Receiver
- 1x Bind Plug
- 1x Upgrade Cable

Note: Batteries are not included and must be purchased separately.

3. PRODUCT OVERVIEW

Figure 3.1: Flysky FS-i6X Transmitter and FS-iA10B Receiver included in the package.
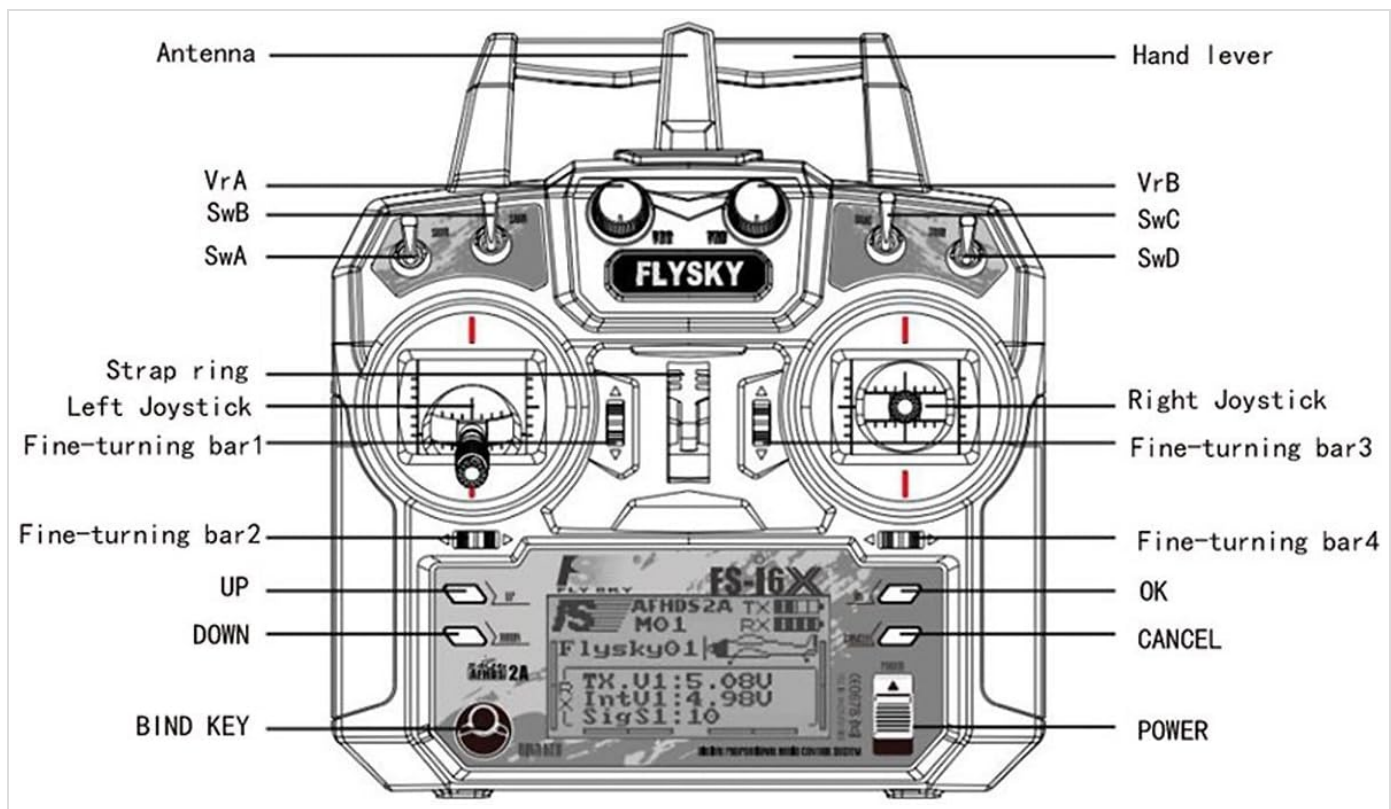
3.1 FS-i6X Transmitter Components

Figure 3.2: Front view of the FS-i6X Transmitter with key components labeled.

Antenna: Transmits the radio signal to the receiver.

Hand Lever: For carrying the transmitter.

VrA, VrB: Rotary potentiometers for auxiliary channel control.

SwA, SwB, SwC, SwD: Two-position switches for auxiliary channel control.

Strap Ring: Attachment point for a neck strap.

Left Joystick: Controls elevator and rudder (Mode 2 default).

Right Joystick: Controls aileron and throttle (Mode 2 default).

Fine-tuning bars (1-4): Used for precise adjustment of joystick center points.

UP/DOWN Buttons: Navigate menu options.

OK Button: Confirms selections in the menu.

CANCEL Button: Exits menu or cancels current operation.

BIND KEY: Initiates the binding process.

POWER Button: Turns the transmitter on/off.

Display: LCD screen showing system information and menu.

3.2 FS-iA10B Receiver Components

Figure 3.3: Close-up view of the FS-iA10B Receiver showing servo ports and antenna.

Channels 1-10 (CH1-CH10): Ports for connecting servos and other control devices.

i-BUS Port: For digital serial data output.

Data Acquisition Port: For connecting sensors and telemetry modules.

Antenna (Dual): Receives radio signals from the transmitter.

Power Input (VCC): Connects to the power source (4.0-6.5V DC).

4. SETUP

4.1 Battery Installation (Transmitter)

The FS-i6X Transmitter requires four (4) AA batteries (1.5V each) for a total of 6V DC power. Ensure correct polarity when inserting batteries.

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

Figure 4.1: Rear view of the FS-i6X Transmitter showing the battery compartment.

4.2 Receiver Connection

Connect your servos and other control devices to the appropriate channels on the FS-iA10B receiver. Ensure that the power supply for the receiver is within the specified range of 4.0-6.5V DC.

4.3 Binding Procedure

The FS-i6X transmitter and FS-iA10B receiver are pre-bound from the factory. You do not need to bind them again upon receipt. However, if you need to re-bind or bind to a new receiver, follow these steps:

1. Ensure the transmitter is turned off.
2. Insert the bind plug into the B/VCC port on the FS-iA10B receiver.
3. Connect power to the receiver. The receiver's LED should flash rapidly, indicating it is in binding mode.
4. While holding down the BIND KEY on the transmitter, turn on the transmitter.
5. Release the BIND KEY once the transmitter display shows "RX Binding" or similar.
6. The receiver's LED should turn solid, indicating successful binding.
7. Turn off both the transmitter and receiver.

8. Remove the bind plug from the receiver.
9. Turn on the transmitter first, then the receiver. The system should now be bound and operational.

5. OPERATING INSTRUCTIONS

5.1 Powering On/Off

- **To Power On:** Press and hold the POWER button on the transmitter until the display illuminates.
- **To Power Off:** Press and hold the POWER button until the display turns off.

5.2 Channel Setup (Enabling 10 Channels)

The FS-i6X transmitter defaults to 6 channels. To enable all 10 channels, follow these steps:

1. Long press the **OK** button for 2 seconds to enter the main menu setting.
2. Navigate to and select **System setup**.
3. Scroll down to the last item, **Aux SWitches** (auxiliary switch setting), and select it to enter.
4. For switches **SwA, SwB, SwC, SwD**, set their selection to **On** to activate them.
5. Change the channel assignment from **Ch6** to **Ch10**.
6. Long press the **CANCEL** button to automatically save the settings and exit the menu.

5.3 Low Voltage Warning

The transmitter features a low voltage warning system. If the battery voltage drops below 4.2V, an alert will be displayed on the LCD screen, indicating that the batteries need to be replaced or recharged (if using rechargeable batteries).

6. SPECIFICATIONS

6.1 FS-i6X RC Transmitter Specifications

Feature	Detail
Channel	6-10 (Default 6)
Model Type	Fixed-Wing/Glider/Helicopter
RF Range	2.408-2.475GHz
RF Power	<20dBm
RF Channel	135
Bandwidth	500KHz
2.4GHz System	AFHDS 2A/AFDHS
Modulation Type	GFSK
Stick Resolution	4096
Low Voltage Warning	<4.2V
DSC port	PS/2 Port PPM

Feature	Detail
Chargeable	No
Antenna Length	26mm (Dual Antenna)
Weight	392g
Power	6V DC 1.5AA*4
Display	STNTransflective Display, LCD 128x64 Lattice, VA 73x39mm, LCD with white backlight
Size	174x89x190mm
On-line Update	Yes
Color	Black
Certificate	CE0678, FCC ID: N4ZFLYSKYI6X
Model	Model 2 (left hand throttle)

6.2 FS-iA10B Receiver Specifications

Feature	Detail
Channels	10
Model Type	Fixed-Wing/Glider/Helicopter
RF Range	2.4055-2.475GHz
RF Channel	140
RF Receiver Sensitivity	-105dBm
Bandwidth	500KHz
2.4GHz System	AFHDS 2A
Modulation Type	GFSK
Power	4.0-6.5V DC
Antenna Length	26mm (Dual Antenna)
Weight	17.6g
Size	50.6*34.9*14.9mm
i-BUS Port	Yes
Data Acquisition Port	Yes
Color	Black
Certificate	CE0678, FCC

7. MAINTENANCE

- Keep the transmitter and receiver clean and free from dust and moisture. Use a soft, dry cloth for cleaning.
- Avoid exposing the devices to extreme temperatures, direct sunlight, or corrosive materials.
- Remove batteries from the transmitter if it will not be used for an extended period to prevent leakage.
- Regularly check all connections for secure fit.

8. TROUBLESHOOTING

Problem	Solution
Transmitter does not power on.	Check battery installation and ensure batteries are fresh or fully charged. Verify correct polarity.
Receiver LED flashes rapidly, not binding.	Ensure the bind plug is correctly inserted into the B/VCC port. Confirm the transmitter is in binding mode (holding BIND KEY while powering on). Ensure the receiver is powered.
No control response after binding.	Verify that the receiver is receiving power and its LED is solid. Check all servo connections to the receiver. Ensure the transmitter and receiver are within range and not experiencing interference. Re-bind the system if necessary.
Only 6 channels are active.	Follow the "Channel Setup (Enabling 10 Channels)" instructions in Section 5.2 to activate all 10 channels.
Low voltage warning on display.	Replace the transmitter batteries immediately.

9. SUPPORT AND ONLINE RESOURCES

For further assistance, firmware updates, or additional product information, please visit the official Flysky website. Online communities and forums dedicated to RC hobbies can also provide valuable support and tips.

The FS-i6X supports online updates. Refer to the official Flysky website for instructions on how to perform firmware updates using the provided upgrade cable.