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## FLYSKY DTUS\_FSI6X\_6CH

# FS-i6X 10CH 2.4GHz RC Transmitter Controller User Manual

Brand: FLYSKY | Model: DTUS\_FSI6X\_6CH

## 1. INTRODUCTION

This manual provides detailed instructions for the setup, operation, and maintenance of your FLYSKY FS-i6X 10CH 2.4GHz RC Transmitter Controller with FS-iA6B Receiver. The FS-i6X is designed for fixed-wing aircraft, gliders, and helicopters, offering reliable control through its AFHDS 2A/AFDHS system.

The system features bidirectional communication, allowing for data reception from various sensors, and utilizes multi-channel hopping frequency technology to minimize interference. It is built with low power consumption components for extended battery life.

## 2. WHAT'S IN THE BOX

- FS-i6X RC Transmitter (Mode 2)
- FS-iA6B Receiver
- Upgrade Cable (for PC connection)
- Quick Start Guide



Figure 2.1: FS-i6X Transmitter and FS-iA6B Receiver included in the package.



## Trainer Jack / Update routine Interface:

Through the data line connected to the computer can support Simulation RC Racing drone Flight. Software purchased separately.



**Power: 6V DC 1.5AA\*4**  
Standard configuration without battery

Figure 2.2: The FS-i6X transmitter, FS-iA6B receiver, and USB upgrade cable.

## 3. SETUP

### 3.1. Battery Installation

The FS-i6X transmitter requires 4 AA batteries (not included). Ensure correct polarity when inserting the batteries into the battery compartment located on the back of the transmitter.



## ***The Whole Point Gain Antenna***

Dual-gain antenna, make signal transmission more stable, strongly, enhanced directional stability!



## ***Double-entry Transfer System***

To better grasp the current state of the model work which will add a fun and safer handling control model.

*Figure 3.1: Rear view of the FS-i6X transmitter, highlighting the battery compartment.*

### **3.2. Receiver Connection**

Connect the FS-iA6B receiver to your RC model according to your model's specific wiring diagram. The receiver features multiple channels for connecting servos and other components.

## Using Dot Matrix Backlit LCD Screen

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



## Correction AFHDS 2A Comes Hopping Digital System

Using with self-correcting  
AFHDS 2A hopping digital  
system



Figure 3.2: The FS-iA6B receiver, showing its connection ports and dual antennas.

### 3.3. Binding the Transmitter and Receiver

To establish communication between the transmitter and receiver, a binding process is required. Refer to the Quick Start Guide for detailed binding instructions. Once bound, the system will maintain a strong, reliable connection.

### 3.4. Activating 10 Channels (if applicable)

The FS-i6X is default 6-channel. If you are using a 10-channel receiver like the FS-iA10B, you can activate the additional channels through the transmitter's menu. Navigate to the system settings to enable 10-channel operation.



Figure 3.3: The LCD screen of the FS-i6X, showing channel display and settings.

## 4. OPERATING INSTRUCTIONS

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### 4.1. Basic Controls and Display

The FS-i6X features a clear STN Transflective Display (LCD 128x64 Lattice, VA 73x39mm) with white backlight for easy readability. The main sticks control primary flight surfaces, while various switches and knobs provide additional control over auxiliary functions.



Figure 4.1: Front view of the FS-i6X transmitter, highlighting the control sticks and switches.

## 4.2. Menu Navigation

Use the navigation buttons and scroll wheel to access and adjust settings within the transmitter's menu. The menu allows for customization of various parameters including channel assignments, mixing, and dual rates.

Your browser does not support the video tag.

Video 4.1: A demonstration of navigating the FS-i6X menu and adjusting settings.

### 4.3. Advanced Functions

- **Dual Rate/Exponential:** Adjust the sensitivity of control inputs for different flight phases or pilot preferences.
- **Auxiliary Channels:** Assign switches or knobs to control additional functions on your model beyond the primary flight controls.
- **Throttle Hold:** A safety feature that disengages the throttle, useful for landing or emergencies.
- **Elevon/V-Tail Mixing:** Configure specific mixes for models with elevon or V-tail configurations.



## CORRECTION AFHDS2A COMES HOPPING DIGITAL SYSTEM

Use with self-correcting AFHDS2A hopping digital system

 6 / 10 Channels	 SBUS&IBUS PPM&PWM	 AFHDS 2A	 Mix Control	 Real-time Telemetry
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Figure 4.2: Overview of the AFHDS2A system features, including 6/10 channels, SBUS/iBUS, Mix Control, and Real-time Telemetry.

### 4.4. Trainer Jack / Update Interface

The transmitter includes a PS/2 port for connecting to a PC via the provided upgrade cable. This allows for firmware updates and use with RC flight simulators (software purchased separately).

## Suitable for Multiple Models



Figure 4.3: Rear view of the FS-i6X, indicating the Trainer Jack/Update Interface and power input.

## 5. MAINTENANCE

- Keep the transmitter clean and free from dust and moisture.
- Store in a cool, dry place when not in use.
- Remove batteries if storing for extended periods to prevent leakage.
- Regularly check all switches and sticks for smooth operation.

## 6. TROUBLESHOOTING

Problem	Possible Cause	Solution
Transmitter not powering on	Low or dead batteries; incorrect battery installation.	Replace batteries; ensure correct polarity.
No response from model	Transmitter and receiver not bound; receiver not powered; incorrect wiring.	Perform binding procedure; check receiver power supply; verify all connections.
Limited channels available	Transmitter set to 6-channel mode; receiver is 6-channel.	If using a 10-channel receiver, activate 10 channels in the transmitter menu. Ensure your receiver supports 10 channels.
Interference during operation	Other 2.4GHz devices nearby; environmental factors.	Operate in an open area away from other wireless devices. The AFHDS 2A system is designed to minimize interference.

## 7. SPECIFICATIONS

- **Channels:** 6-10 (Default 6 Channels)

- **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
- **Low Voltage Warning:** <4.2V
- **DSC port:** PS/2 Port PPM
- **Chargeable:** No
- **Antenna Length:** 26mm (Dual Antenna)
- **Weight:** 1.35 pounds (392g)
- **Power:** 6V DC, 4\*AA battery (not included)
- **Display:** STN Transflective Display, LCD 128x64 Lattice, VA 73x39mm, LCD with white backlight
- **Size:** 174x89x190mm (6.85x3.5x7.48 inches)
- **On-line Update:** Yes
- **Color:** Black (FSI6X+IA6B)
- **Material:** Plastic
- **Certificate:** CE0678, FCC ID: N4ZFLYSKYI6X
- **Model:** Mode 2 (left hand throttle)



Figure 7.1: Dimensions of the FS-i6X transmitter.

## 8. WARRANTY AND SUPPORT

This product comes with a **90-day warranty** for manufacturer's product defects. For technical support or warranty claims, please contact FLYSKY customer service or the retailer from whom you purchased the product.