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## Flysky FS-A6

# Flysky FS-A6 Receiver User Manual

Model: FS-A6

## 1. INTRODUCTION

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This manual provides detailed instructions for the proper use, setup, and maintenance of your Flysky FS-A6 2.4G 6CH receiver. The FS-A6 is designed for use with various RC models, including airplanes, gliders, and helicopters, utilizing Flysky's advanced AFHDS 2A system for reliable communication.

## 2. KEY FEATURES

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- 2.4GHz AFHDS 2A (Automatic Frequency Hopping Digital System Second Generation) technology for enhanced anti-interference capabilities.
- 6 Channels for comprehensive control of your RC model.
- GFSK modulation for robust signal transmission.
- Compact and lightweight design, suitable for a wide range of RC applications.
- Compatible with Flysky i4, i6, i10, GT2E, GT2F, and GT2G series transmitters.
- Designed for fixed-wing aircraft, gliders, and helicopters.

## 3. PACKAGE CONTENTS

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Please verify that all items are present in your package:

- 1 x FlySky FS-A6 Receiver
- 1 x Remote Control (Note: This refers to the transmitter required for operation, not included with the receiver itself unless specified in the product bundle.)
- 1 x Charger (Note: This refers to a charger for the transmitter or receiver battery, if applicable, and may not be included with the receiver unit alone.)



Image: The Flysky FS-A6 receiver being weighed on a digital scale, indicating a weight of 0.010kg (10 grams). This highlights the lightweight nature of the receiver.

## 4. PRODUCT OVERVIEW

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The Flysky FS-A6 receiver features a compact design with clearly labeled ports for easy connection.



Image: A top-down view of the Flysky FS-A6 receiver, showing its compact black casing, the integrated antenna wire, and a separate binding plug. The labels for channels CH1 through CH6, BAT, and B/V are visible on the receiver's surface.



Image: An angled close-up view of the Flysky FS-A6 receiver, highlighting the six channel ports (CH1-CH6) and the battery/voltage port (BAT/B/V) on the side. The receiver's model number FS-A6 and certification marks are clearly visible.

## 5. SETUP AND BINDING

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Before operating your RC model, the FS-A6 receiver must be properly connected and bound to a compatible Flysky transmitter.

### 5.1 Connecting the Receiver

- Connect your servos and ESC (Electronic Speed Controller) to the corresponding channels on the receiver (CH1-CH6). Refer to your model's specific wiring diagram.
- Connect the battery or power source to the 'BAT' port. Ensure correct polarity. The receiver operates on 4.0-6.5V DC.
- Position the antenna for optimal signal reception, away from metal objects and carbon fiber structures.

### 5.2 Binding Procedure

Binding links the receiver to your specific transmitter, preventing interference from other radio signals.

1. Ensure your compatible Flysky transmitter (e.g., i6, i10) is turned off.
2. Insert the binding plug (often included with the receiver or transmitter) into the 'B/V' (Bind/Voltage) port on the FS-A6 receiver.
3. Connect power to the receiver. The receiver's LED should start flashing rapidly, indicating it is in binding mode.
4. Turn on your transmitter while holding down the 'BIND' button (location varies by transmitter model). Refer to your transmitter's manual for exact binding button location.
5. The receiver's LED should stop flashing and become solid, indicating successful binding.
6. Release the 'BIND' button on the transmitter, then turn off both the receiver and the transmitter.
7. Remove the binding plug from the receiver.
8. Turn on the transmitter first, then power on the receiver. The receiver's LED should be solid, confirming the link. Test all controls before flight.

## 6. OPERATING INSTRUCTIONS

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Once the FS-A6 receiver is successfully bound to your transmitter and installed in your RC model, operation is straightforward.

- Always power on your transmitter first, then the receiver. Power off the receiver first, then the transmitter. This sequence prevents unintended control inputs.
- Ensure all control surfaces (ailerons, elevator, rudder) and throttle respond correctly to transmitter inputs before each use.
- Regularly check the receiver's power supply to ensure it is within the specified voltage range (4.0-6.5V DC) for stable operation.
- Maintain line of sight with your RC model during operation to ensure continuous signal reception.

## 7. MAINTENANCE

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Proper maintenance will extend the lifespan of your FS-A6 receiver.

- Keep the receiver clean and free from dust, dirt, and moisture. Use a soft, dry cloth for cleaning.
- Avoid exposing the receiver to extreme temperatures or direct sunlight for prolonged periods.
- Inspect the antenna wire regularly for any damage or kinks. A damaged antenna can significantly reduce range.
- Ensure all connections to the receiver ports are secure and free from corrosion.
- Store the receiver in a dry, cool environment when not in use.

## 8. TROUBLESHOOTING

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If you encounter issues with your FS-A6 receiver, refer to the following common problems and solutions:

- **No Signal / Receiver LED Off:**
  - Check power connections to the receiver. Ensure the battery is charged and connected with correct polarity.
  - Verify the transmitter is turned on and fully charged.
  - Re-perform the binding procedure.
  - Ensure the receiver is within range of the transmitter.
- **Intermittent Signal / Glitching:**
  - Check for sources of interference (e.g., other 2.4GHz devices, large metal objects).
  - Inspect the receiver antenna for damage or improper routing. Ensure it is not shielded by carbon fiber or metal.
  - Verify the receiver's power supply is stable and not dropping voltage under load.
  - Ensure the transmitter and receiver are properly bound.
- **Controls Not Responding Correctly:**
  - Check servo and ESC connections to the correct receiver channels.
  - Verify servo and ESC functionality independently.
  - Ensure transmitter settings (e.g., channel mapping, sub-trims, endpoints) are correctly configured for your model.

## 9. TECHNICAL SPECIFICATIONS

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Feature	Specification
Channels	6
Model Type	Fixed-Wing / Glider / Helicopter
RF Range	2.4055-2.475GHz
RF Channel	140
RF Receiver Sensitivity	-105dBm
Bandwidth	500KHz
Modulation Type	GFSK
Power Input	4.0-6.5V DC
Antenna Length	26mm
Color	Grey (Transparent)
Dimensions (L*W*H)	45mm * 22mm * 13mm (excluding cable length)
Cable Length	180mm
Certification	CE0678, FCC

## 10. SAFETY INFORMATION

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Adhering to safety guidelines is crucial when operating RC equipment.

- Always operate RC models in open areas, away from people, animals, and property.
- Ensure all components are securely fastened before operation. Loose parts can cause accidents.
- Never operate RC equipment near power lines, roads, or bodies of water.
- Disconnect the battery from the receiver when not in use to prevent accidental activation.
- Children operating RC models should always be supervised by an adult. Recommended age for this product is 14 years and up.
- Be aware of your surroundings and local regulations regarding RC model operation.

## 11. WARRANTY AND SUPPORT

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For warranty information or technical support regarding your Flysky FS-A6 receiver, please refer to the official Flysky website or contact your authorized dealer. Keep your purchase receipt as proof of purchase.

