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› [GoolRC Flysky FS-CT6B 2.4GHz 6-Channel RC Transmitter and FS-R6B Receiver User Manual](#)

GoolRC FS-CT6B

GoolRC Flysky FS-CT6B 2.4GHz 6-Channel RC Transmitter and FS-R6B Receiver User Manual

1. INTRODUCTION AND OVERVIEW

This manual provides detailed instructions for the GoolRC Flysky FS-CT6B 2.4GHz 6-channel remote controller and its accompanying FS-R6B receiver. Designed for various radio control models including cars, boats, quadcopters, gliders, and helicopters, this system offers reliable control with advanced anti-jamming capabilities, low power consumption, and high receiving sensitivity. Please read this manual thoroughly before operating the device to ensure proper setup and safe use.



Figure 1: Front view of the FS-CT6B Transmitter.

2. PRODUCT FEATURES

- Super active and passive anti-jamming capabilities for reliable signal transmission.
- Very low power consumption, extending battery life.
- High receiving sensitivity for consistent control.
- 8 model memory for storing multiple model configurations.
- Digital control with PC programmability via included software and USB cable.
- Full range 2.4GHz 6-channel radio system.
- Supports 4 model types: Airplane, Heli90, Heli120, Heli140.
- Integrated timer for flight duration tracking.
- Adjustable contrast for the display.
- Throttle cut function for enhanced safety.
- Utilizes a linear spread spectrum antenna for broad bandwidth coverage.
- High quality and stability in operation.

3. PACKAGE CONTENTS

Upon opening the package, please verify that all the following items are included:

- 1 x GoolRC Flysky FS-CT6B Transmitter
- 1 x Flysky FS-R6B Receiver
- 1 x USB Cable for PC programming



Figure 2: Package contents including the transmitter, receiver, and USB cable.

4. SETUP

4.1 Battery Installation (Transmitter)

1. Locate the battery compartment on the back of the FS-CT6B transmitter.
2. Slide the battery cover downwards and remove it.

3. Insert 8 AA batteries (not included) into the compartment, ensuring correct polarity (+/-) as indicated inside the compartment.
4. Replace the battery cover, sliding it upwards until it clicks securely into place.



Figure 3: Battery compartment with cover removed.

4.2 Receiver Connection (FS-R6B)

Connect the FS-R6B receiver to your RC model's electronic speed controller (ESC), servos, and other components according to your model's specific wiring diagram. Ensure that each channel output from the receiver is connected to the corresponding input on your model's components (e.g., Channel 1 to Aileron, Channel 2 to Elevator, etc.).

4.3 Binding the Transmitter and Receiver

The binding process establishes a unique communication link between your transmitter and receiver. Follow these steps:

1. Ensure both the transmitter and receiver are powered off.
2. Connect the bind plug (usually included with the receiver or model) to the B/VCC port on the FS-R6B receiver.
3. Apply power to the receiver (e.g., connect the ESC with a battery). The receiver's LED should flash rapidly, indicating it is in binding mode.
4. While holding down the 'BIND RANGE TEST' button on the front of the FS-CT6B transmitter, turn on the transmitter.
5. Release the 'BIND RANGE TEST' button after the transmitter powers on.
6. The receiver's LED should stop flashing and remain solid, indicating a successful bind.
7. Turn off both the receiver and transmitter.
8. Remove the bind plug from the receiver.
9. Power on the transmitter first, then the receiver. Verify that the receiver's LED is solid and that the controls respond correctly.



Figure 4: Front panel of the transmitter showing the 'BIND RANGE TEST' button.

5. OPERATING INSTRUCTIONS

5.1 Power On/Off Sequence

1. **To Power On:** First, turn on the FS-CT6B transmitter using the ON/OFF switch. Then, power on your RC model's receiver.
2. **To Power Off:** First, power off your RC model's receiver. Then, turn off the FS-CT6B transmitter. This sequence prevents unintended control inputs.

5.2 Basic Control Functions

The FS-CT6B is a 6-channel transmitter. The primary control sticks (gimbals) provide proportional control over typically four channels, while switches and potentiometers provide control for the remaining channels.

- **Left Stick (Mode 2 - Throttle/Rudder):** Controls throttle (vertical movement) and rudder (horizontal movement).
- **Right Stick (Mode 2 - Aileron/Elevator):** Controls ailerons (horizontal movement) and elevator (vertical movement).
- **Switches (SW.A, SW.B):** Typically used for auxiliary functions such as landing gear, flaps, or flight modes.
- **Potentiometers (VR.A, VR.B):** Provide proportional control for additional auxiliary channels.



Figure 5: Close-up of a control stick.

5.3 Model Memory and Programming

The transmitter features 8 model memory slots, allowing you to save and quickly switch between configurations for different RC models. Advanced settings, including channel mixing, servo reverse, endpoint adjustments, and more, can be programmed using the included PC software via the USB cable. Refer to the software's documentation for detailed programming instructions.

5.4 Throttle Cut

The throttle cut function provides an immediate way to disable the throttle output, preventing accidental motor activation. Consult your model's setup and the PC programming software to configure and utilize this safety feature.

6. MAINTENANCE

- **Cleaning:** Use a soft, dry cloth to clean the transmitter and receiver. Avoid using solvents or abrasive cleaners.
- **Storage:** Store the unit 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 batteries. Do not mix old and new batteries or different types of batteries. Dispose of used batteries responsibly.
- **Antenna:** Ensure the transmitter antenna is not bent or damaged. Always extend the antenna fully before operation.

7. TROUBLESHOOTING

- **No Power to Transmitter:** Check battery installation and polarity. Ensure batteries are charged.
- **No Signal/No Control:** Verify that the transmitter and receiver are properly bound. Ensure both units are powered on in the correct sequence (transmitter first, then receiver). Check for interference sources.

- **Erratic Control:** Check for loose connections between the receiver and servos/ESC. Ensure the receiver antenna is not obstructed or damaged.
- **Binding Failure:** Re-attempt the binding process carefully, ensuring the bind plug is correctly inserted and the power sequence is followed.
- **PC Programming Issues:** Ensure the USB cable is securely connected and the correct drivers are installed on your computer. Refer to the software's help documentation.

8. SPECIFICATIONS

Feature	Specification
Transmitter/Receiver Frequency	2.4GHz
Channels	6 Channels
Mode Type	Airplane, Helicopter, Glider
Stick Mode	Left Hand or Right Hand (configurable)
Modulation	Frequency Modulation (FM)
Antenna Length	115cm / 26mm (likely referring to different antenna types or measurements)
Code Type	PPM/GFSK
Transmitter Power	12V DC (8x AA batteries)
RF Power	Less Than 0.8W
Certificates	CE, FCC
Item Weight (Transmitter)	575g (1.27 lbs)
Item Dimensions (Transmitter)	180 x 220 x 70mm (7.09 x 8.66 x 2.76 inches)
Recommended Age	16 years and up

9. SAFETY INFORMATION

- Always operate your RC model in open areas, away from people, animals, and obstacles.
- Never operate your RC model near power lines, roads, or water.
- Ensure all batteries are fully charged before operation. Low battery voltage can lead to loss of control.
- Always turn on the transmitter first and turn off the receiver first to prevent accidental activation.
- Keep the transmitter and receiver dry. Exposure to moisture can damage the electronics.
- This product is recommended for users 16 years of age and older. Younger users should have adult supervision.
- Do not modify the transmitter or receiver. Unauthorized modifications can lead to malfunction and void the warranty.

10. WARRANTY AND SUPPORT

This product comes with a standard manufacturer's warranty. For specific warranty terms, duration, and claim

procedures, please refer to the documentation provided with your purchase or contact the seller/manufacturer directly. For technical support or assistance with product operation, please reach out to GoolRC customer service.

