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## Futaba 6L Sport

# Futaba 6L Sport 2.4GHz R3106GF TFHSS Mono RC Air System Radio Transmitter User Manual

Model: 6L Sport (FUTK5000)

## 1. INTRODUCTION

This manual provides essential instructions for the safe and effective operation of your Futaba 6L Sport 2.4GHz R3106GF TFHSS Mono RC Air System Radio Transmitter. Please read this manual thoroughly before use to ensure proper setup, operation, and maintenance of your equipment. This system is designed for remote control aircraft applications.

## 2. PRODUCT OVERVIEW

### 2.1 Key Features

- Futaba's T-FHSS Mono Directional 6-channel Air system.
- Includes R3106GF high voltage receiver with failsafe functionality.
- Integrated full-range antenna for a streamlined design.
- Supports V-Tail, elevon, and flaperon mixing.
- Features a 2-position switch and a rotary dial for auxiliary functions.
- Servo reversing capability.
- Low battery alarm for safety.
- Buddy box capabilities for training.
- Range check function.
- Configurable for Mode 1 or Mode 2 operation.

### 2.2 Package Contents

- Futaba 6L Sport 6-Channel T-FHSS Air Radio System Transmitter
- R3106GF Receiver
- Instruction Manual (this document)

### 2.3 Items Required (Not Included)

- AA Batteries: Four for transmitter power.

- Servos: As required by the pilot's aircraft choice.



Image 1: The Futaba 6L Sport 2.4GHz Radio Transmitter, showcasing its ergonomic design and control sticks.

### 3. SETUP

#### 3.1 Transmitter Battery Installation

1. Open the battery compartment cover located on the back of the transmitter.
2. Insert four AA batteries, ensuring correct polarity (+/-) as indicated inside the compartment.
3. Close the battery compartment cover securely.

### 3.2 Receiver Connection (R3106GF)

1. Connect your servos to the corresponding channels on the R3106GF receiver. Refer to your aircraft's manual for specific servo assignments.
2. Connect the power source (e.g., battery pack or ESC with regulated output) to the receiver's power input. Ensure the power requirement of 4.8-7.4V is met.
3. Mount the receiver securely within your aircraft, ensuring the antenna is positioned for optimal signal reception.



Image 2: The Futaba 6L Sport Transmitter shown alongside the compact R3106GF Receiver, illustrating their relative sizes.

### 3.3 Binding (Linking) the Transmitter and Receiver

The transmitter and receiver must be linked (bound) to establish communication. Follow the instructions provided with your R3106GF receiver for the specific binding procedure. Generally, this involves powering on

the receiver in binding mode and then powering on the transmitter while holding a specific button or sequence.

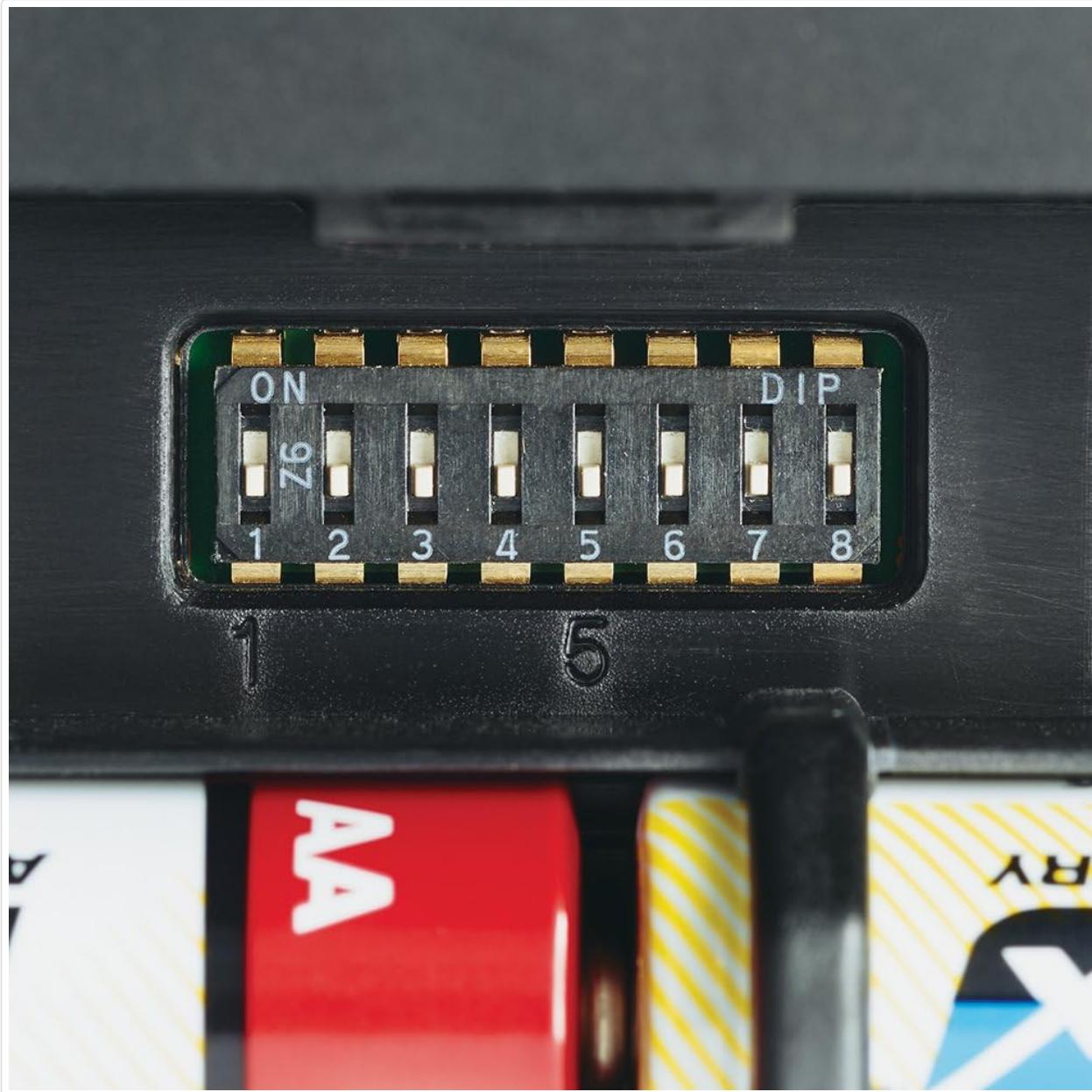


Image 3: A close-up view of the DIP switches, which may be used for specific configuration settings or binding procedures depending on the model and receiver.

## 4. OPERATING INSTRUCTIONS

### 4.1 Basic Controls

- **Control Sticks:** The primary control sticks operate the aircraft's main flight surfaces (aileron, elevator, rudder, throttle). The specific function of each stick depends on whether the transmitter is set to Mode 1 or Mode 2.
- **Power Switch:** Located on the front panel, used to turn the transmitter ON or OFF.
- **Monitor LED:** Indicates transmitter status, including power and low battery warnings.

### 4.2 Auxiliary Controls

- **2-Position Switch:** This switch can be assigned to control functions such as landing gear, flaps (two positions), or other on/off auxiliary functions.
- **Rotary Dial:** Provides variable control for functions like flaps (proportional control), gyros, or other auxiliary

channels requiring fine adjustment.



Image 4: A close-up of one of the 2-position switches on the transmitter, used for activating or deactivating specific aircraft functions.



Image 5: A close-up of a rotary dial on the transmitter, providing proportional control for auxiliary channels.

### 4.3 Mixing Functions

The 6L Sport transmitter includes pre-programmed mixing functions to simplify control for certain aircraft types:

- **V-Tail Mixing:** Combines elevator and rudder control for aircraft with V-tail configurations.
- **Elevon Mixing:** Combines elevator and aileron control for delta wing or flying wing aircraft.
- **Flaperon Mixing:** Allows ailerons to function as both ailerons and flaps.

Refer to the detailed instructions within the full product manual for how to activate and configure these mixing functions.

### 4.4 Servo Reversing

If a servo operates in the incorrect direction, its travel can be reversed using the servo reversing function. Consult the full product manual for the procedure to reverse servo direction for each channel.

## 5. MAINTENANCE

- **Cleaning:** Use a soft, dry cloth to clean the transmitter and receiver. Avoid using solvents or abrasive

cleaners.

- **Storage:** Store the transmitter and receiver 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 batteries. Do not mix old and new batteries or different types of batteries. Dispose of used batteries responsibly.
- **Inspection:** Periodically inspect all cables, connectors, and the antenna for any signs of damage or wear.

## 6. TROUBLESHOOTING

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- **No Power:** Ensure batteries are correctly installed with proper polarity and are fully charged. Check the power switch position.
- **Low Battery Alarm:** If the low battery alarm sounds, immediately land your aircraft and replace the transmitter batteries. Do not continue flying with low battery power.
- **Loss of Control/Range Issues:** Perform a range check before each flight session. Ensure the receiver antenna is not obstructed or damaged. Verify the transmitter and receiver are properly bound. Avoid operating near sources of strong radio interference.
- **Incorrect Servo Movement:** Check servo reversing settings. Ensure servos are connected to the correct channels on the receiver.

## 7. SPECIFICATIONS

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### 7.1 T6L Sport Transmitter

- **Type:** 2-stick, 6-channel, T-FHSS Air (Mono Directional) 2.4GHz system
- **Transmitting Frequency:** 2.4GHz
- **System:** T-FHSS Air (Mono Directional), no telemetry
- **Power Supply:** 6.0V dry battery (4 x AA)
- **Item Model Number:** FUTK5000
- **Product Dimensions:** 10.25 x 10.13 x 4.63 inches
- **Item Weight:** 2 pounds

### 7.2 R3106GF Receiver

- **Type:** T-FHSS Air (Mono Directional) 2.4GHz system, no telemetry
- **Power Requirement:** 4.8-7.4V battery, or regulated output from ESC\*
- **Dimensions:** 1.7 x 0.98 x 0.35 inches (43.1 x 25.0 x 8.8 millimeters)
- **Weight:** 0.3 ounces (7.8 grams)

\*When using ESC, ensure that regulated output capacity meets usage application.

## 8. WARRANTY AND SUPPORT

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For warranty information, technical support, or service inquiries, please refer to the official Futaba website or contact your authorized Futaba dealer. Keep your proof of purchase for warranty claims.

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|  <p><b>INSTRUCTION MANUAL</b><br/>Futaba. Digital Proportional R/C System<br/>8J 8-Channel Digital Proportional R/C System<br/>S-FHSS</p>  | <p><a href="#"><u>Futaba 8J-2.4GHz 8-Channel Radio Control System Instruction Manual</u></a><br/>Comprehensive instruction manual for the Futaba 8J-2.4GHz 8-Channel Radio Control System. Covers setup, operation, programming, and safety for both ACRO (airplane) and HELI modes.</p>  |
|  <p><b>T6K-V3S</b><br/>Charger in TAK-Y3S<br/>Model data transfer<br/>INSTRUCTION MANUAL</p>   | <p><a href="#"><u>Futaba T6K-V3S: Key Software Updates and Features Guide</u></a><br/>This document supplements the original instruction manual for the Futaba T6K-V3S radio control transmitter, detailing significant software updates and introducing new functionalities for enhanced operational control.</p>  |
|  <p><b>T4PM PLUS</b><br/>取扱説明書<br/>Futaba.</p>   | <p><a href="#"><u>Futaba T4PM PLUS 2.4GHz System User Manual</u></a><br/>This user manual provides comprehensive instructions for the Futaba T4PM PLUS 2.4GHz system, covering setup, operation, safety precautions, and advanced features. Learn about system settings, servo compatibility, transmitter and receiver handling, and various mixing functions for optimal RC performance.</p> |
|  <p><b>3PV</b><br/>Frequency Hopping Spread Spectrum<br/><b>3PV-2.4G</b><br/>3(1+1) channel, T-FHSS<br/>Radio control system for Cars<br/>INSTRUCTION MANUAL<br/>Futaba. Digital Proportional R/C System</p> | <p><a href="#"><u>Futaba T-FHSS 3PV 2.4GHz System User Manual</u></a><br/>Comprehensive user manual for the Futaba T-FHSS 3PV 2.4GHz radio control system, covering safety precautions, operation, setup, functions, and specifications for transmitters and receivers.</p>   |
|  <p><b>Futaba.</b><br/><b>4EX</b><br/>INSTRUCTION MANUAL<br/>Futaba. FM radio control system for aircraft</p>  | <p><a href="#"><u>Futaba 4EX 4-Channel FM Radio Control System Instruction Manual</u></a><br/>Comprehensive instruction manual for the Futaba 4EX 4-channel FM radio control system for aircraft. Covers setup, programming, safety guidelines, and accessories for RC model enthusiasts. Visit <a href="http://www.futaba-rc.com">http://www.futaba-rc.com</a> for updates.</p>              |
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INSTRUCTION MANUAL Ripmax manual carefully If you have any difficulties while using your system please consult the our online Frequently Asked Questions on web pages referenced below hobby dealer or Futaba Service Center Due to unforeseen changes in production procedures information contained this is subject change without p cb6l ripmax Instructions

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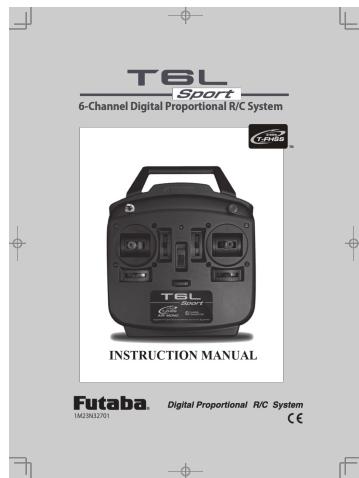
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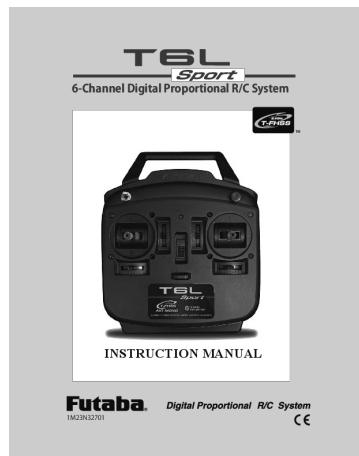
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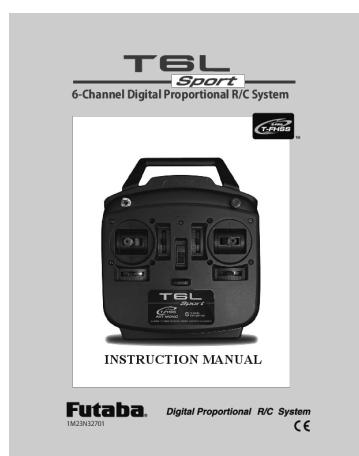
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**Transmitter Specifications**

- Futaba's T-FHSS Mono Directional 6-channel system
- Transmitter: Futaba 6L Sport T-FHSS Mono 2.4GHz
- Receiver: Futaba 6L Receiver
- Modem: Futaba 6L Modem
- Antennas: 2x RHCP (Right Hand Circular Polarized)
- Transmitter: 6L Sport
- Receiver: 6L Receiver
- Modem: 6L Modem
- Antennas: 2x RHCP (Right Hand Circular Polarized)
- Power: 4x AA batteries (Required)
- Dimensions: 100 x 100 x 30 mm
- Weight: 180g
- Battery life: 10 hours
- Range: 100m
- Modus: 1 or Mod 2

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