

## LICHIFIT S603

# LICHIFIT S603 Aircraft Receiver User Manual

Model: S603 Host + Satellite | Brand: LICHIFIT

## 1. INTRODUCTION

This manual provides essential information for the proper setup, operation, and maintenance of your LICHIFIT S603 6-Channel 2.4GHz Aircraft Receiver. The S603 receiver is designed for use with JR/Spektrum DSM-X and DSM2 remote control systems, offering full-range capabilities, high sensitivity, and stability for various model aircraft applications.

## 2. PRODUCT OVERVIEW

### Key Features:

- Full Range Aircraft Receiver: Suitable for all model aircraft requiring up to 6 channels.
- High Sensitivity and Stability: Ensures reliable performance and precision.
- Enhanced Antenna Design: Features a special 3dBi gain antenna with an internal amplifier for improved anti-interference ability and extended control range (up to 2km).
- PPM Support: Supports PPM range 1-1.5km channel, convenient for Quadcopters, eliminating the need for an extra satellite.
- Channels: 6 channels.
- Frequency Band: 2.4GHz.
- Voltage Range: 3.5-9.6V.
- Compatibility: Applicable for JR/Spektrum DSM-X /DSM2 Remote Control systems.

### Components:



Figure 2.1: The LICHIFIT S603 Receiver Host (bottom) and its accompanying Satellite receiver (top), along with a binding plug (orange tag).

## 3. SETUP

### Binding the Transmitter and Receiver:

Follow these steps to establish a secure connection between your transmitter and the S603 receiver:

1. Insert the binding plug into the "BIND" port on the receiver.
2. Connect the flight battery to the receiver. The LED on the receiver will begin flashing quickly, indicating it is in binding mode.

3. Ensure the throttle stick on your transmitter is in the LOW/OFF position. Then, power on your radio transmitter.
4. Binding is successful when the LED on the receiver turns to a steady light. This indicates a stable connection has been established.
5. Always remove the binding plug from the receiver after the binding process is complete to prevent accidental re-binding or issues during operation.

## 4. OPERATING INSTRUCTIONS

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Once bound, the receiver will maintain its connection with the transmitter. Ensure all control surfaces respond correctly to transmitter inputs before flight. Always perform a range check according to your transmitter's manual to confirm signal integrity.

## 5. MAINTENANCE

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To ensure the longevity and reliable performance of your S603 receiver:

- Keep the receiver clean and free from dust, dirt, and moisture.
- Avoid exposing the receiver to extreme temperatures or direct sunlight for prolonged periods.
- Regularly inspect antenna wires for any damage or kinks. Ensure they are properly routed and secured.
- Store the receiver in a dry, cool place when not in use.

## 6. TROUBLESHOOTING

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If you encounter issues with your S603 receiver, consider the following:

- **No LED activity after power-on:** Check battery connection and voltage. Ensure the battery is charged and connected correctly.
- **LED flashing rapidly but not binding:** Re-verify the binding procedure steps. Ensure the binding plug is fully inserted and the transmitter is in binding mode. Check transmitter compatibility (DSM-X/DSM2).
- **Loss of signal or erratic control:** Perform a range check. Inspect antenna placement and ensure they are not obstructed or damaged. Check for potential sources of interference in the operating environment. Ensure the receiver's voltage supply is stable and within the specified range (3.5-9.6V).
- **Intermittent connection:** Ensure all connections (servo, power) are secure and free from corrosion.

## 7. SPECIFICATIONS

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Specification	Value
Type	Full Range Aircraft Receiver
Modulation	Digital Spread Modulation 2 (DSM2) and X (DSM-X)
Channels	6
Frequency Band	2.4GHz
Voltage Range	3.5-9.6V
Material Type(s)	Plastic, Metal
Color	S603 Host + Satellite

Specification	Value
Manufacturer	LICHIFIT
Parcel Dimensions	14 x 9 x 1.5 cm
Weight	21 g

## 8. SAFETY INFORMATION

Always operate your RC equipment responsibly and safely. Pay attention to all warnings and instructions provided with your model aircraft and related components.

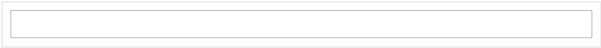


Figure 8.1: Important safety warning regarding plastic bags. This bag is not a toy. To avoid danger of choking or suffocation, keep this bag away from babies and children.

Ensure that all electrical connections are secure and insulated to prevent short circuits. Do not modify the receiver or its components, as this may void the warranty and compromise safety.

## 9. WARRANTY AND SUPPORT

For warranty information or technical support, please refer to the contact details provided by your retailer or the LICHIFIT official website. Keep your purchase receipt as proof of purchase.

