

RoofWorld Su-27

RoofWorld RC Plane User Manual

Model: Su-27

1. INTRODUCTION

Thank you for choosing the RoofWorld Su-27 RC Plane. This remote control glider is designed for both adult and beginner pilots, featuring a 2.4 GHz 2-channel control system and an automatic balance gyroscope for stable flight. Inspired by the iconic Su-27 fighter plane, this model offers an engaging and accessible remote control flying experience.



Image: The RoofWorld Su-27 RC Plane and included accessories.

2. SAFETY INFORMATION

To ensure safe operation and prevent damage, please adhere to the following guidelines:

- **Recommended Age:** This product is suitable for individuals aged 14 years and up.
- **Flight Environment:** Always choose an open area for flying, free from people, animals, buildings, and other obstructions. Avoid flying near power lines or busy roads.
- **Wind Conditions:** Do not fly in wind conditions exceeding level 4. Strong winds can lead to loss of control and potential damage to the aircraft.
- **Battery Charging:** Charge the aircraft battery for approximately 50 minutes for a full charge. Do not charge for more than 2 hours to prevent overcharging and potential battery damage.
- **Supervision:** Younger users should always be supervised by an adult during operation.



Image: Illustration of a suitable open flight area.

3. PACKAGE CONTENTS

Please verify that all items listed below are included in your package:

- RC Plane (Su-27 model)
- Remote Control
- 2 x 3.7V 250mAh Lithium Polymer Aircraft Batteries
- USB Charging Cable
- Spare Propellers (AB fan)
- Propeller Removal Tool (Fan key)
- Landing Gear (Undercarriage)
- User Manual (This document)

PRODUCT SIZE



Image: Contents of the product package.

4. SETUP

4.1. Assembly

The Su-27 RC Plane is designed for quick and easy assembly. Simply install the landing gear, aircraft battery, and tail section. No complex tools are required.

4.2. Battery Installation

Locate the battery compartment on the underside of the aircraft. Carefully insert one of the provided 3.7V 250mAh Lithium Polymer batteries, ensuring the polarity is correct. Close the battery compartment securely.

4.3. Charging the Battery

Connect the USB charging cable to the aircraft battery and then to a standard USB power source (e.g., computer USB port, USB wall adapter). The charging indicator light will show the charging status. A full charge typically takes about 50 minutes. Do not exceed 2 hours of charging time.

5. OPERATING INSTRUCTIONS

5.1. Remote Control Functions

The 2.4GHz remote control allows for precise manipulation of the aircraft. The remote controls the plane in four primary directions: up, down, left, and right. Familiarize yourself with the joystick and button layout before flight.



Image: Remote control operation and flight range.

5.2. Takeoff Methods

The Su-27 RC Plane supports two takeoff methods:

- **Ground Takeoff:** Place the aircraft on a flat, smooth surface with sufficient runway length (recommended at least 10 meters). Gradually increase throttle and allow the plane to gain speed for takeoff.
- **Hand Throw:** Hold the aircraft at average shoulder height, with the nose slightly upward. Gently throw the plane forward while simultaneously applying full throttle.

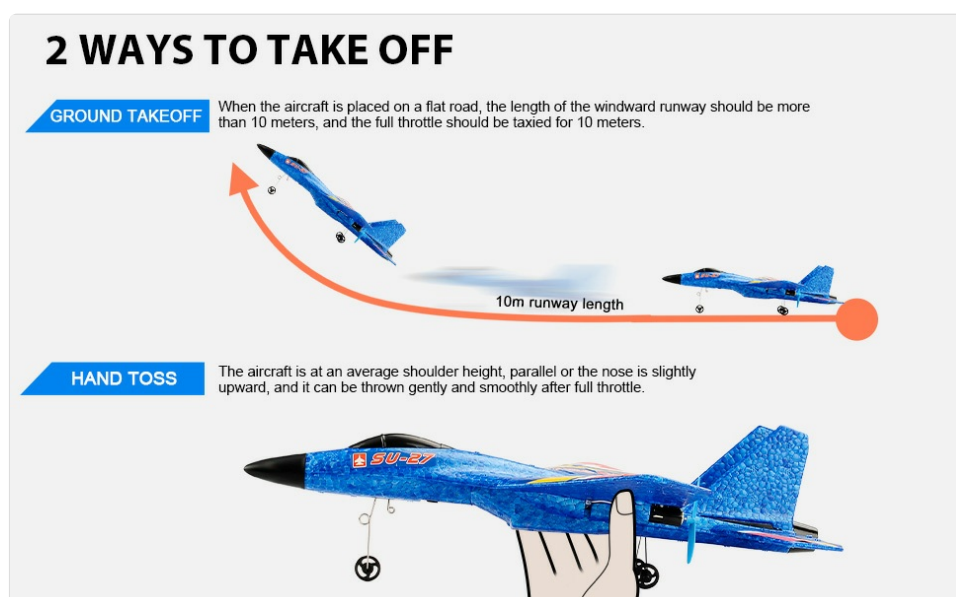


Image: Two methods for launching the RC plane.

5.3. Flying Tips for Beginners

The Su-27 features a built-in automatic flight stabilization system and smart gyroscope, making it easy for beginners to control. For your first flight:

- Start with the throttle at approximately 30%-40%.
- Adjust the throttle lightly and gradually. Avoid immediately setting the throttle to maximum to prevent uncontrolled flight.
- The aircraft has a control range of approximately 150 meters.
- The integrated LED light bar allows for flying even at night, enhancing visibility and enjoyment.



Image: Smart Gyroscope for stable flight.

COLORFUL NIGHT LIGHT

Can fly normally at night



Image: Colorful LED lights for night flying.

6. MAINTENANCE

The Su-27 RC Plane is constructed from durable EPP foam, designed to be crash-resistant. However, proper maintenance will extend its lifespan:

- **Cleaning:** Wipe the aircraft clean with a soft, dry cloth after each use. Avoid using harsh chemicals.
- **Propeller Inspection:** Regularly check the propellers for any damage or cracks. Replace damaged propellers immediately using the provided spare propellers and tool.
- **Storage:** Store the aircraft in a cool, dry place away from direct sunlight and extreme temperatures.
- **Battery Care:** Always disconnect the battery from the aircraft when not in use. Store batteries in a safe, cool place.



Image: Durable construction features of the RC plane.

7. TROUBLESHOOTING

If you encounter issues with your Su-27 RC Plane, please refer to the following common problems and solutions:

Problem	Possible Cause	Solution
Plane does not respond to remote control	Low battery in plane or remote; Not paired correctly; Out of range	Charge plane battery; Replace remote batteries; Re-pair remote and plane; Ensure plane is within 150m range.
Plane flies erratically or crashes easily	Strong wind conditions; Damaged propeller; Incorrect throttle application	Fly in calm conditions (below level 4 wind); Inspect and replace propellers if damaged; Apply throttle gradually, especially for first flights.
Short flight time	Battery not fully charged; Old battery; Over-aggressive flying	Ensure battery is fully charged (approx. 50 mins); Consider replacing battery if old; Practice smoother flight maneuvers.

8. SPECIFICATIONS

Model: Su-27

Brand: RoofWorld

Product Dimensions: 13 x 10 x 4 inches

Item Weight: 14.9 ounces

Control System: 2.4 GHz, 2 Channels

Battery: 2 x 3.7V 250mAh Lithium Polymer (included)

Flight Time: Approximately 15 minutes per charge

Charging Time: Approximately 50 minutes

Control Range: Approximately 150 meters

Material: EPP Foam

Features: Automatic Balance Gyro, LED Night Lights, Crash-resistant design

Manufacturer Recommended Age: 14 years and up



Image: Product dimensions.

9. WARRANTY AND SUPPORT

RoofWorld is committed to providing a better product experience. For technical support or any inquiries regarding your Su-27 RC Plane, please refer to the contact information provided with your purchase or visit the official RoofWorld store page on Amazon. We recommend keeping your purchase receipt for any warranty claims.