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## SYMA S107G-R

# Syma S107/S107G R/C Helicopter User Manual

Model: S107G-R

## INTRODUCTION

The Syma S107/S107G R/C Helicopter is a 3.5-channel infrared remote-controlled helicopter designed for indoor flight. It features a durable aluminum frame and a built-in gyroscope for stable flight characteristics, making it suitable for beginners. This manual provides essential information for the safe operation, setup, and maintenance of your helicopter.



Image: The Syma S107G R/C Helicopter, showcasing its red body, metal frame, and dual rotor design.

## SAFETY INFORMATION

Please read and understand all safety warnings before operating the helicopter to prevent injury or damage.

- **Indoor Use Only:** This helicopter is designed exclusively for indoor use due to its infrared control system, which can be affected by direct sunlight or strong outdoor winds.
- **Adult Supervision:** Recommended for ages 8 and up with adult supervision.
- **Battery Safety:** Do not overcharge the helicopter's Lithium Polymer (LiPO) battery. Always use the provided USB charger. Do not expose batteries to extreme temperatures or direct sunlight.
- **Avoid Obstacles:** Fly in an open area free from people, pets, furniture, and other obstacles.
- **Rotor Blades:** Keep fingers, hair, and loose clothing away from the rotating blades. Do not touch the helicopter while the blades are spinning.
- **Impacts:** While durable, repeated hard impacts can cause damage. Inspect the helicopter for damage after any crash.

## PACKAGE CONTENTS

Verify that all items are present in your package:

- Syma S107/S107G R/C Helicopter (with built-in LiPO battery)
- Infrared Remote Controller
- USB Charging Cable
- Spare Tail Blade
- Instruction Manual (this document)



Image: The complete package contents, including the red helicopter, remote control, USB charging cable, and product box.

## COMPONENTS OVERVIEW

### Helicopter Components

- **Main Rotor Blades:** Provide lift and control.
- **Tail Rotor:** Controls yaw (left/right rotation).
- **Landing Skids:** Support the helicopter on the ground.
- **Infrared Receiver:** Receives signals from the remote control.
- **Charging Port:** For connecting the USB charging cable.
- **Power Switch:** Turns the helicopter on/off.



Image: A detailed side view of the Syma S107G helicopter, highlighting its main body, tail boom, and landing gear.

## Remote Controller Components

- **Power Indicator Light:** Shows if the remote is on.
- **Power Switch:** Turns the remote on/off.
- **Throttle Stick (Left):** Controls altitude (Up/Down).
- **Direction Stick (Right):** Controls forward/backward and left/right turns.
- **Trimmer Buttons:** Adjust for stable hovering (left/right trim).
- **Charging Cable Storage:** Compartment for the helicopter charging cable.
- **Battery Compartment:** Holds AA batteries for the remote.

## SETUP

### 1. Charging the Helicopter Battery

1. Ensure the helicopter's power switch is in the OFF position.
2. Connect the small end of the USB charging cable to the helicopter's charging port.
3. Connect the large end of the USB charging cable to a USB power source (e.g., computer USB port, USB wall adapter).
4. The indicator light on the USB cable will illuminate during charging and turn off when charging is complete.
5. Charging time is approximately 40-50 minutes for a full charge. Do not overcharge.

### 2. Installing Remote Controller Batteries

1. Open the battery compartment cover on the back of the remote controller.
2. Insert 6 x AA batteries (not included) according to the polarity markings (+/-).
3. Close the battery compartment cover securely.

### 3. Pairing the Helicopter and Remote

1. Place the helicopter on a flat, level surface.
2. Turn on the helicopter's power switch. The helicopter's indicator light will flash.
3. Turn on the remote controller's power switch. The remote's indicator light will flash.
4. Push the throttle stick (left stick) all the way up, then pull it all the way down.
5. Both the helicopter and remote indicator lights will become solid, indicating successful pairing. You are now ready to fly.

## OPERATING

### Basic Flight Controls

- **Throttle (Left Stick Up/Down):** Increases or decreases the main rotor speed, controlling the helicopter's altitude (ascend/descend).
- **Direction (Right Stick Up/Down):** Moves the helicopter forward or backward.
- **Direction (Right Stick Left/Right):** Rotates the helicopter left or right (yaw).

### Trimming for Stable Flight

If the helicopter rotates left or right uncontrollably while hovering, use the trim buttons on the remote control to correct it.

- If the helicopter spins to the left, press the right trim button repeatedly until it hovers steadily.
- If the helicopter spins to the right, press the left trim button repeatedly until it hovers steadily.

### First Flight Tips

- Start by practicing hovering at a low altitude (about 1 meter) to get a feel for the controls.
- Make small, gentle adjustments to the sticks. Sudden movements can cause instability.
- If you lose control, immediately cut the throttle to minimize potential damage from a crash.
- Ensure the flight area is clear of drafts from windows, fans, or air conditioning, as these can affect stability.

## MAINTENANCE

- **Cleaning:** Use a soft, dry cloth to clean the helicopter. Do not use water or chemical cleaners.
- **Blade Inspection:** Regularly check the main and tail rotor blades for cracks or damage. Replace damaged blades with the provided spare or genuine replacement parts.
- **Storage:** When not in use, store the helicopter and remote in a cool, dry place away from direct sunlight and extreme temperatures.
- **Battery Care:** For long-term storage, ensure the helicopter's battery is partially charged (around 50%) to prolong its lifespan. Remove batteries from the remote controller if not used for extended periods.

## TROUBLESHOOTING

| Problem                                      | Possible Cause   | Solution  |
|--|--|---|
| Helicopter does not respond to remote.       | Not paired; low battery in helicopter or remote; power switches off. | Ensure both are on and paired correctly. Charge helicopter battery. Replace remote batteries. |
| Helicopter spins uncontrollably.             | Needs trimming; damaged tail rotor.                                  | Use trim buttons to stabilize. Check and replace tail rotor if damaged.                       |
| Helicopter cannot lift off or has weak lift. | Low helicopter battery; damaged main rotor blades.                   | Fully charge helicopter battery. Inspect and replace main rotor blades if bent or cracked.    |
| Short flight time.                           | Battery not fully charged; battery degradation.                      | Ensure full charge. LiPO batteries have a limited lifespan and may degrade over time.         |
| Remote indicator light flashes continuously. | Low remote battery.  | Replace AA batteries in the remote controller.  |

## SPECIFICATIONS

| Feature                   | Detail  |
|---------------------------|---|
| Model Number              | S107G-R   |
| Dimensions (L x W x H)    | 8.7 in (220.98mm) x 3.9 in (99.06mm) x 1.5 in (38.1mm)    |
| Weight                    | 8 ounces  |
| Control Channels          | 3.5 Channels (Up/Down, Left/Right Turn, Forward/Backward) |
| Control Type              | Infrared (IR)   |
| Battery Type (Helicopter) | Lithium Polymer (LiPO), 3.7V, 150mAh, 1S, 15C             |
| Charging Method           | USB Charger   |
| Motor Type                | Brushed   |
| Recommended Age           | 8 years and up (with adult supervision)                   |

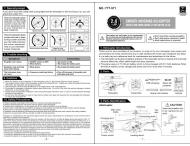
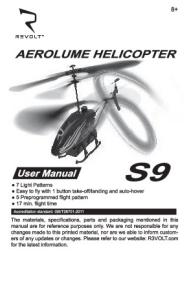
## WARRANTY AND SUPPORT

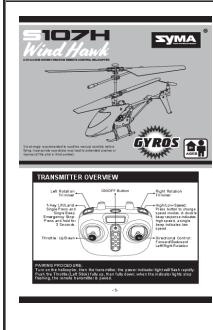
Specific warranty details and direct support contact information are not provided within this manual. For warranty claims, technical support, or to purchase replacement parts, please refer to the original point of purchase or visit the official SYMA website for the most current information and contact options.

Please retain your purchase receipt as proof of purchase for any warranty-related inquiries.

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## Related Documents - S107G-R

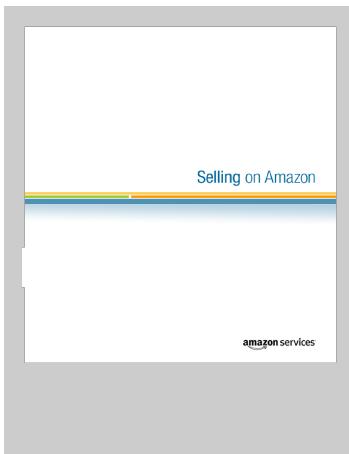
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|---|--|
|    | <p><a href="#">Lucky Group 777-571 Smooth Hovering Helicopter: User Manual &amp; Controls</a></p> <p>Comprehensive user manual for the Lucky Group 777-571 Smooth Hovering Helicopter. Learn about setup, controls, troubleshooting, and safety precautions for this 2.4GHz RC helicopter.</p>   |
|   | <p><a href="#">SYMA S026H Chinook Style Military Helicopter User Manual</a></p> <p>Comprehensive user manual for the SYMA S026H Chinook Style Military Helicopter, detailing safety information, specifications, operation, charging, and troubleshooting. Learn how to fly your RC helicopter safely and effectively.</p>   |
|  | <p><a href="#">REVOLT Aerolume Helicopter S9 User Manual - Features, Safety, and Operation Guide</a></p> <p>Comprehensive user manual for the REVOLT Aerolume Helicopter S9. Learn about its features, safety precautions, charging, flight preparation, operation, troubleshooting, and technical specifications. Includes FCC and EU compliance information.</p> |
|  | <p><a href="#">SKIDZRC 2.4G R/C Helicopter Instruction Manual</a></p> <p>Comprehensive instruction manual for the SKIDZRC 2.4G R/C Helicopter, covering assembly, operation, flying practice, troubleshooting, and safety guidelines. Learn how to safely operate your remote control helicopter.</p>  |
|  | <p><a href="#">Gyro Flyer X11C R/C Helicopter Instruction Manual</a></p> <p>Comprehensive instruction manual for the Gyro Flyer X11C R/C Helicopter, covering charging, flight instructions, controls, safety precautions, and regulatory information.</p>   |



### [Syma S107H Wind Hawk RC Helicopter User Manual](#)

Comprehensive user manual for the Syma S107H Wind Hawk 3 CH 2.4 GHz Hover Function Remote Control Helicopter, covering setup, operation, safety guidelines, and troubleshooting.

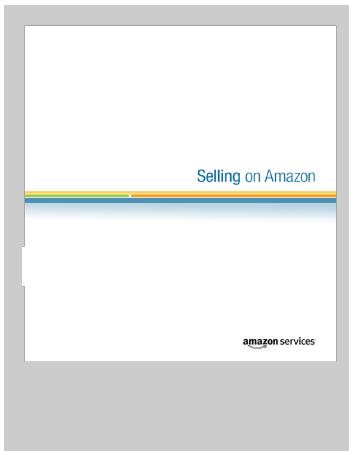
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