SYMA ES107H-E-R

SYMA S107H-E RC Helicopter User Manual

Model: ES107H-E-R

Introduction

The SYMA S107H-E RC Helicopter is designed for beginners and enthusiasts, offering stable flight and durable construction. Its full alloy metal body is built to withstand impacts, making it suitable for learning to fly. This manual provides essential information for safe operation, setup, maintenance, and troubleshooting.

What's in the Box

Upon unboxing your SYMA S107H-E RC Helicopter, please ensure all the following components are present:

- SYMA S107H-E RC Helicopter (1)
- Remote Control (1)
- USB Charging Cable (1)
- Built-in Lithium Ion Battery (1)
- Spare Tail Blade (1)
- Screwdriver (1)
- Coaster (1)

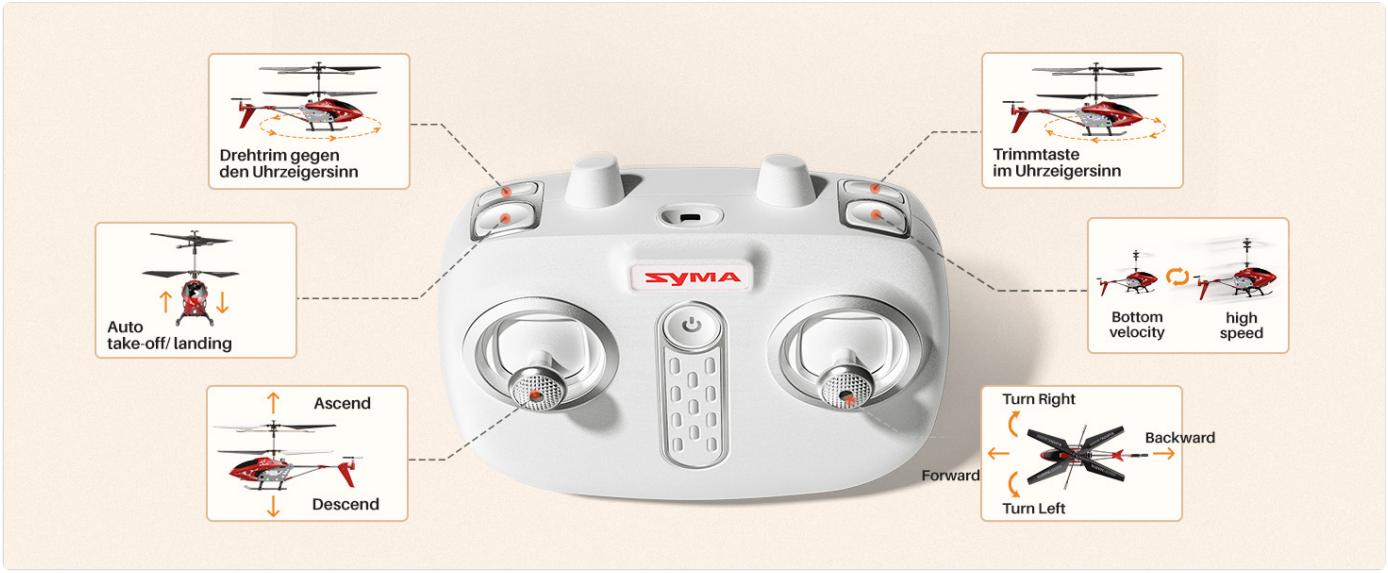

Image: All components included in the SYMA S107H-E RC Helicopter package, neatly arranged.

Setup

1. Charging the Helicopter Battery

The SYMA S107H-E helicopter comes with a built-in 3.7V/350mAh Lithium Ion battery. Before first use, fully charge the helicopter.

1. Connect the USB charging cable to the helicopter's charging port.
2. Plug the other end of the USB cable into a USB 5V power source (e.g., computer USB port, USB wall adapter).
3. The charging indicator light on the helicopter will illuminate during charging and turn off or change color when fully charged.
4. Charging typically takes approximately 60 minutes.

Important: For safety reasons, do not use an AC charger to charge the helicopter directly. Always use the provided USB cable with a compatible USB 5V power source.

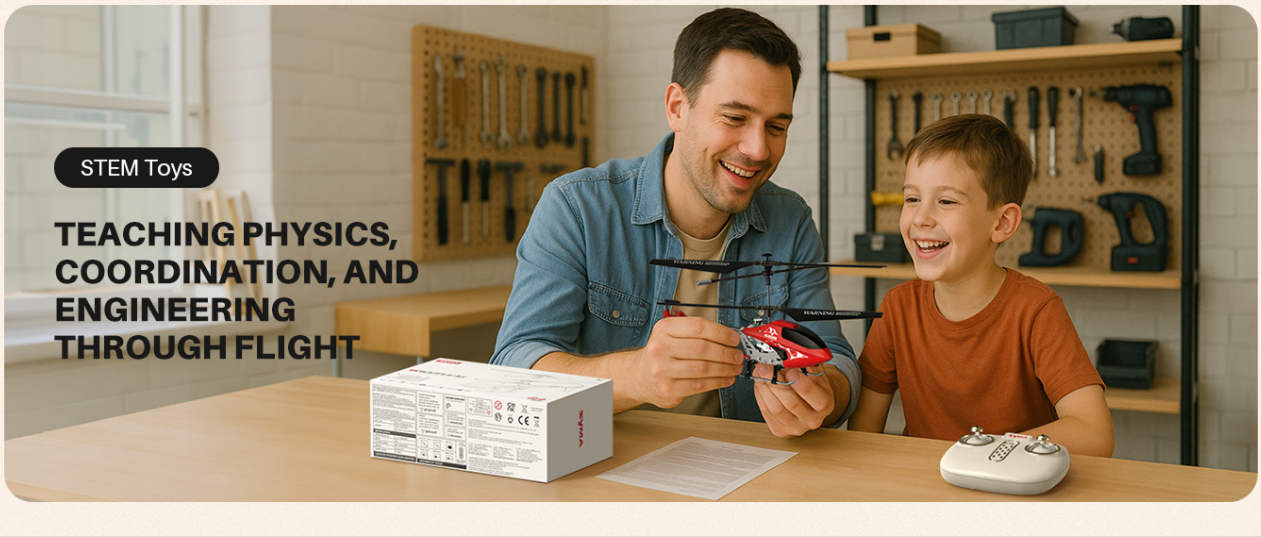

Image: The helicopter being charged directly via a USB connection, without removing the battery.

2. Installing Remote Control Batteries

The remote control requires batteries (not included in the provided product information, but typically 2xAA or 3xAAA). Open the battery compartment on the back of the remote control and insert the required batteries, observing correct

polarity.

3. Pairing the Helicopter and Remote Control

To establish a connection between the helicopter and the remote control:

1. Ensure the helicopter is fully charged and powered off.
2. Turn on the remote control.
3. Place the helicopter on a flat, level surface.
4. Turn on the helicopter. The indicator lights on the helicopter will flash.
5. On the remote control, push the left joystick (throttle) all the way up and then all the way down.
6. The indicator lights on the helicopter will become solid, indicating successful pairing.

Operating the Helicopter

The SYMA S107H-E features intuitive controls and a 2.4GHz frequency for stable flight. It is recommended for indoor use or outdoors in calm weather conditions due to its lightweight design.

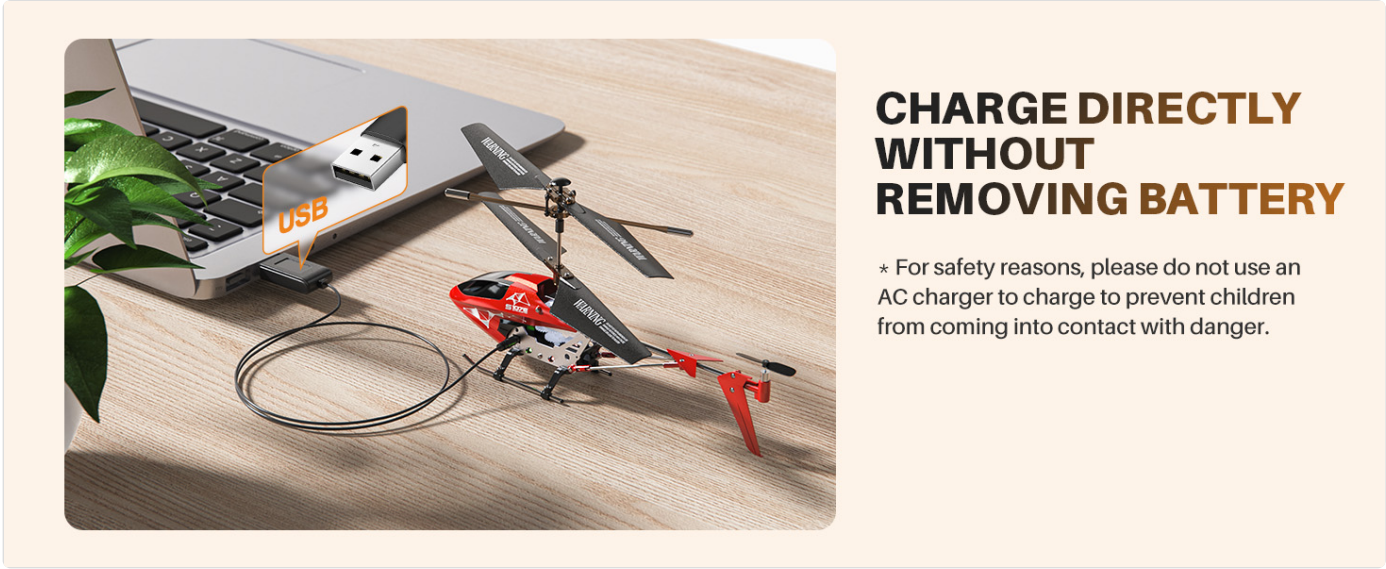

Image: Overview of the remote control layout and its various functions for helicopter operation.

Basic Flight Controls

- **Left Joystick (Throttle):** Push up to ascend, pull down to descend.
- **Right Joystick (Directional):** Push forward to move forward, pull back to move backward. Push left to turn left, push right to turn right.
- **One-Key Takeoff/Landing Button:** Press once for automatic takeoff or landing.
- **Altitude Hold:** The helicopter will automatically maintain its current altitude for stable hovering.
- **Dual Speed Modes:** Switch between low speed (for beginners and small spaces) and high speed (for experienced pilots and larger areas).

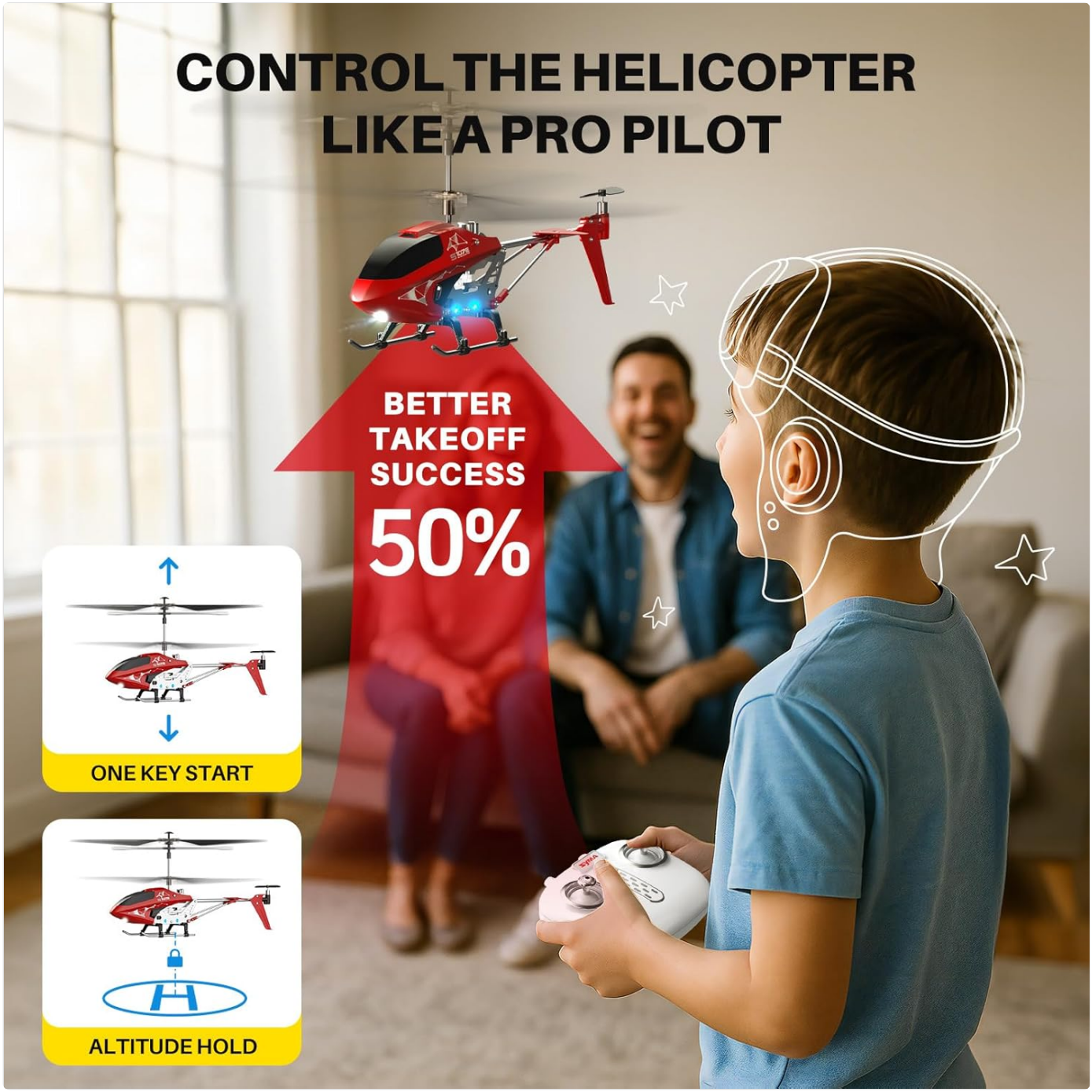

Image: Demonstrates the ease of control with one-key start and altitude hold, making it suitable for beginners.

Advanced Features

- **Advanced Gyro Stabilization:** Provides enhanced stability and smooth flight control.
- **Durable Alloy Construction:** The metal body helps the helicopter withstand minor crashes and impacts.
- **2.4GHz Frequency:** Allows multiple helicopters to fly simultaneously without interference.
- **LED Lights:** Equipped with bright LED lights for visibility, especially in low-light conditions.

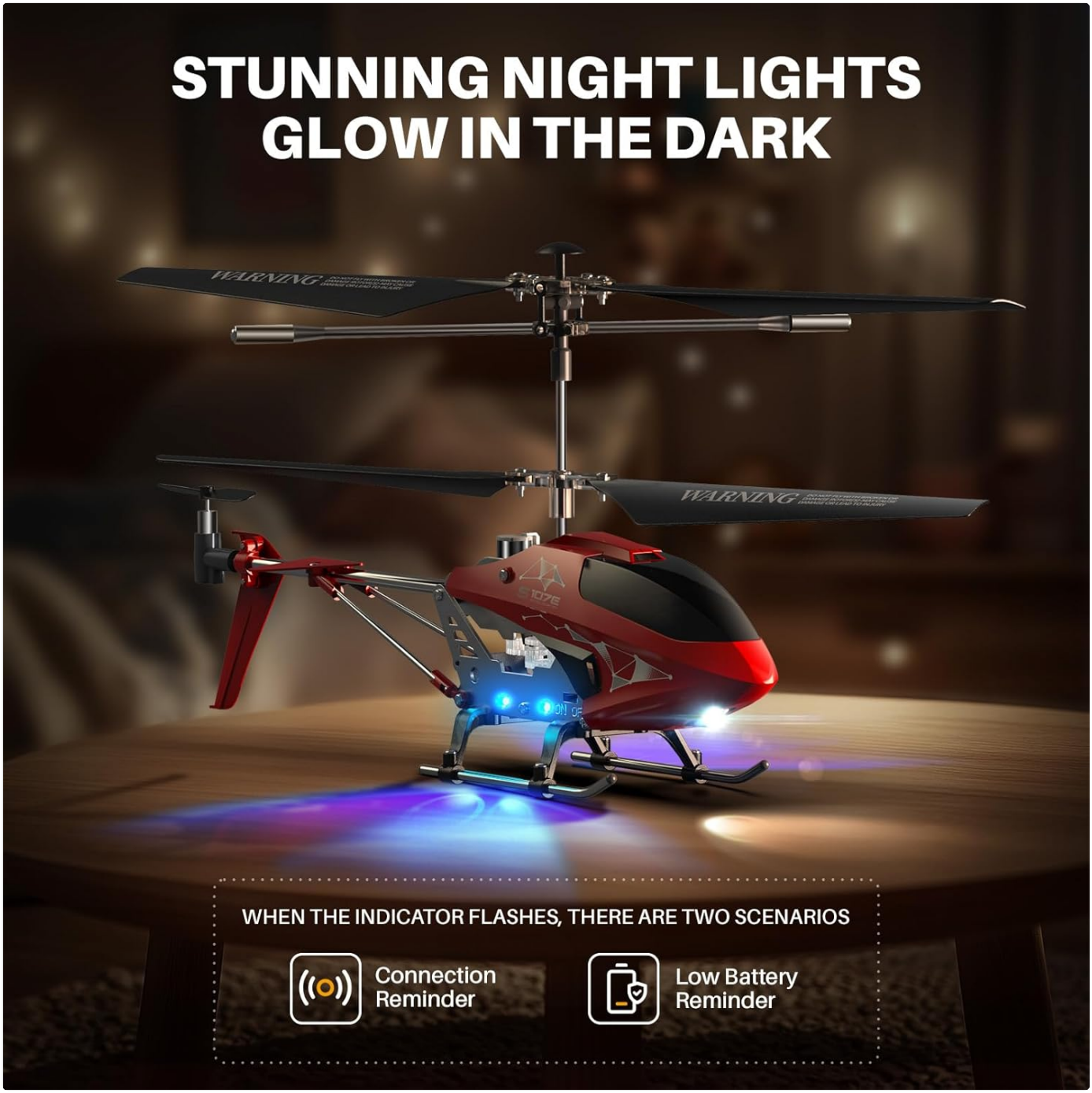

Image: The helicopter's LED lights illuminate, providing visibility and enhancing the flying experience in darker environments.

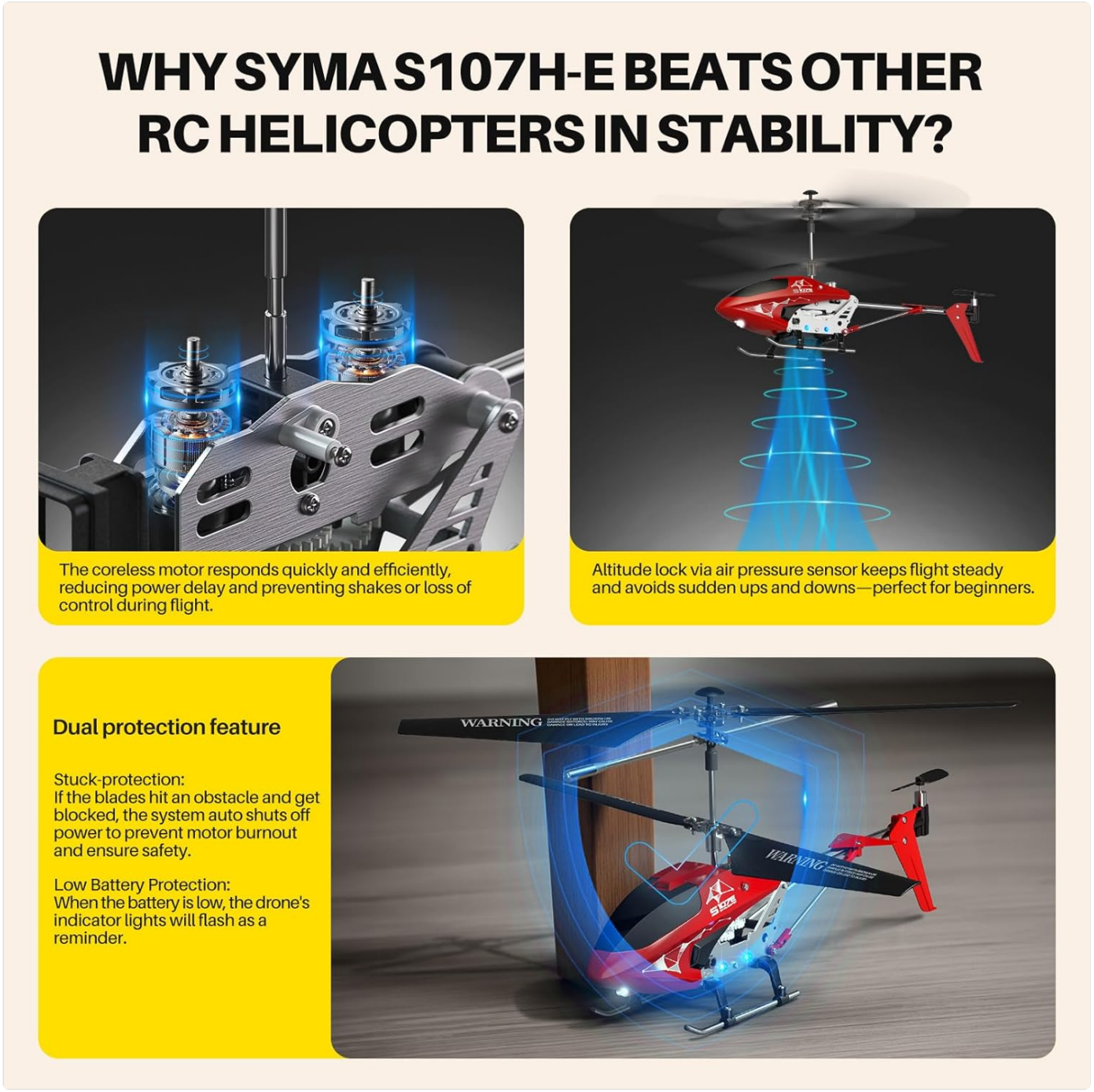

Image: Explains the internal mechanisms contributing to the helicopter's stability and durability, including the responsive coreless motor and protective features.

Maintenance

- **Cleaning:** Use a soft, dry cloth to clean the helicopter. Avoid water or harsh chemicals.
- **Blade Inspection:** Regularly check the main and tail rotor blades for any damage (cracks, bends). Replace damaged blades using the provided screwdriver and spare parts.
- **Battery Care:** Do not overcharge or over-discharge the battery. Store the helicopter with a partially charged battery if not used for extended periods.
- **Storage:** Store the helicopter and remote control in a cool, dry place, away from direct sunlight and extreme temperatures.

Troubleshooting

Problem	Possible Cause	Solution
Helicopter does not respond to remote control.	Not paired; low battery in remote or helicopter; out of range.	Re-pair the devices. Check/replace remote batteries. Charge helicopter. Ensure within 98.43 ft range.
Helicopter flies erratically or is unstable.	Damaged blades; gyroscope calibration needed; strong wind.	Inspect and replace damaged blades. Place on a flat surface and re-calibrate gyroscope (refer to remote control instructions for specific button combination, usually holding both joysticks down and inward). Fly indoors or in calm conditions.
Short flight time.	Battery not fully charged; aging battery.	Ensure full charge (approx. 60 mins). Battery life is 8-10 minutes per charge. If flight time significantly decreases, battery may need replacement.
Helicopter does not take off.	Low battery; blades obstructed; one-key takeoff not pressed.	Charge helicopter. Clear any obstructions from blades. Press the one-key takeoff button.

Specifications

Feature	Detail
Model Number	ES107H-E-R
Brand	SYMA
Product Dimensions	8.66 x 1.5 x 4.1 inches
Item Weight	12 ounces
Recommended Age	14 years and up
Battery Type	1 Lithium Ion (included), 3.7V/350mAh
Charging Time	Approx. 60 minutes
Flight Time	8-10 minutes
Control Distance	Greater than 98.43 feet
Frequency	2.4GHz
Use Environment	Indoors or no wind outdoors

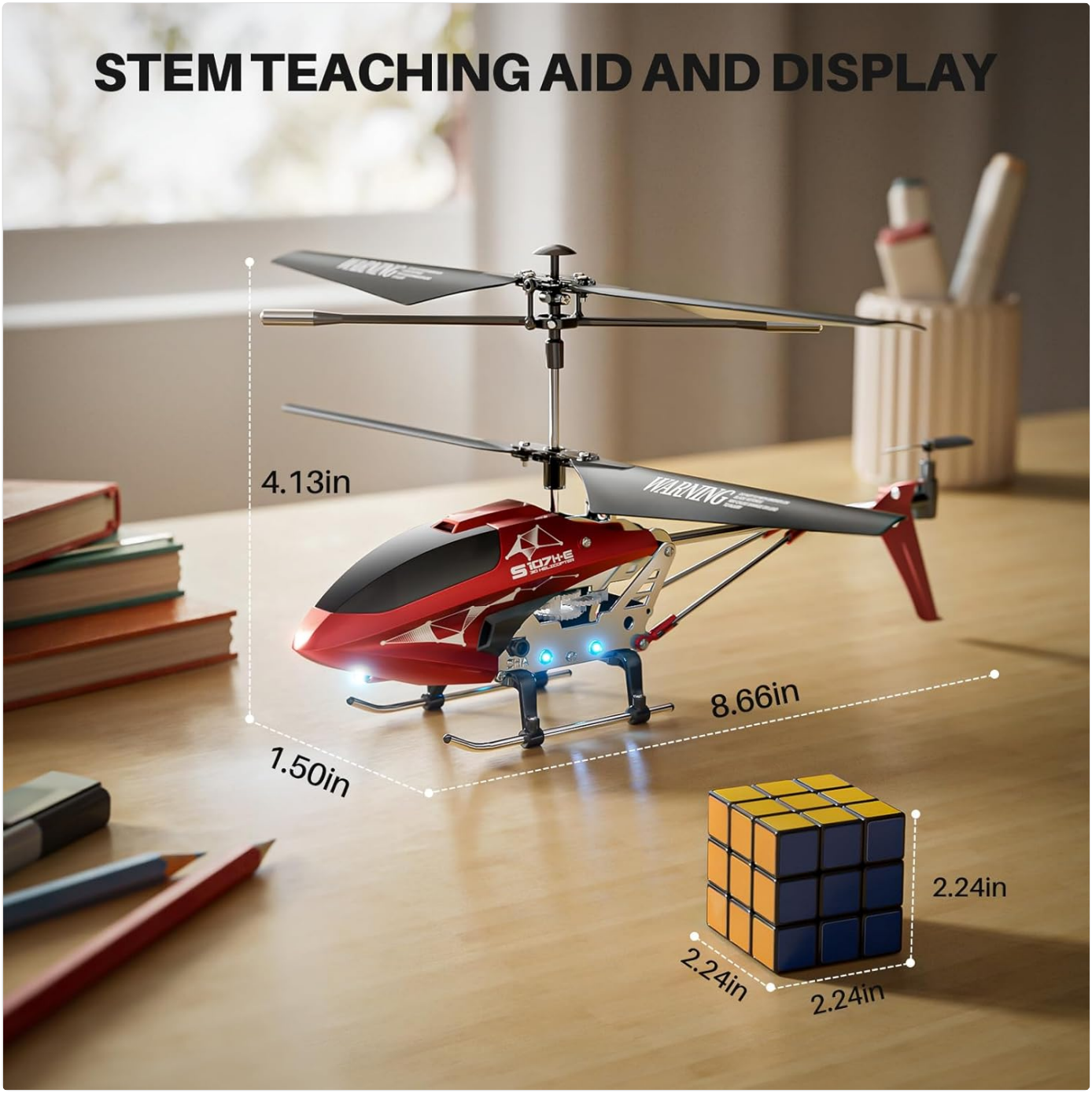

Image: The helicopter's physical dimensions are displayed, providing a clear understanding of its size.

Warranty and Support

For specific warranty information, please refer to the warranty card included with your product or visit the official SYMA website. For technical support or inquiries, please contact SYMA customer service. Contact details may be found in the included user manual (PDF) or on the manufacturer's official website.
You can also refer to the official user manual PDF for more detailed instructionsSYMA S107H-E User Manual (PDF)