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GoolRC C186

GoolRC C186 Remote Control Helicopter User Manual

Model: C186 | Brand: GoolRC

Introduction

This manual provides comprehensive instructions for the safe and effective operation, maintenance, and troubleshooting of your GoolRC C186 Remote Control Helicopter. Please read this manual thoroughly before first use to ensure optimal performance and longevity of your product.



Figure 1: GoolRC C186 Remote Control Helicopter, remote controller, and three flight batteries.

Package Contents

Verify that all items listed below are included in your package:

- Remote Control Helicopter (C186)
- Remote Controller
- Flight Battery (x3)
- USB Charging Cable
- Spare Propeller
- Wrench
- Screwdriver
- Tail Propeller
- User Manual (this document)

Setup

1. Battery Installation and Charging

The GoolRC C186 helicopter utilizes a modular battery system for easy installation and replacement. Ensure all flight batteries are

fully charged before first use.

1. Connect the flight battery to the USB charging cable.
2. Plug the USB charging cable into a compatible USB power source (e.g., computer USB port, USB wall adapter).
3. The charging indicator on the USB cable will show charging status (refer to charger's specific light indicators).
4. Once fully charged, disconnect the battery from the charger.
5. Insert the charged flight battery into the helicopter's battery compartment. Ensure it clicks securely into place.

The remote controller requires 3 AA batteries (not included). Open the battery compartment on the back of the remote controller and insert the batteries, observing polarity.



Figure 2: Modular battery design for quick and easy replacement. Each 350mAh lithium battery provides approximately 15 minutes of flight time.

2. Pairing the Helicopter and Remote Controller

Follow these steps to pair your helicopter with the remote controller:

1. Ensure both the helicopter and the remote controller have charged batteries installed.
2. Place the helicopter on a flat, level surface.

3. Turn on the helicopter's power switch. The indicator light on the helicopter will flash.
4. Turn on the remote controller's power switch.
5. Push the left joystick (throttle) all the way up, then all the way down. The indicator lights on both the helicopter and the remote controller will become solid, indicating successful pairing.
6. The helicopter is now ready for flight.

Operating Instructions

The GoolRC C186 features an aileronless design and a 6-axis gyroscope for enhanced stability, making it suitable for beginners.

Flight Modes and Features

- **6G Mode:** Utilizes a 6-axis gyroscope for stable flight, providing excellent control and making it ideal for novice pilots. The deflection can be corrected effectively to maintain stable flight.
- **Altitude Hold:** The helicopter can maintain a stable altitude, simplifying control and allowing pilots to focus on directional movements.
- **One-Key Take-off and Landing:** Simplifies the flight experience with automated take-off and landing functions, accessible via a single button on the remote controller.
- **4-Channel Design:** Offers full control over ascent/descent, forward/backward, left/right turn, and left/right sideward flight.
- **Speed Regulation:** Adjust the flight speed (slow, medium, high) to match your skill level and environment.
- **Nose Searchlight:** Equipped with a front searchlight for improved visibility during night flying or in low-light conditions.



Figure 3: The 6-axis gyroscope ensures stable flight and effective deflection correction.



Figure 4: Easy to use one-key take-off and landing function, suitable for beginners.



Figure 5: The altitude hold feature allows the helicopter to maintain a consistent height.



Figure 6: Adjustable speed modes (slow, medium, high) for varied flight experiences.



Figure 7: Nose searchlight for enhanced visibility during night flights.

Flight Controls (Remote Controller)

Familiarize yourself with the remote controller's layout and functions:

Control	Function
Left Joystick (Throttle)	Up/Down: Ascend/Descend
Right Joystick (Directional)	Up/Down: Forward/Backward Left/Right: Left/Right Sideward Flight
Rudder Trim Button	Adjusts yaw to correct unwanted rotation.
One-Key Take-off/Landing Button	Initiates automatic take-off or landing.
Speed Switch Button	Toggles between slow, medium, and high-speed modes.

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Video 1: Demonstration of the GoolRC C186 RC Helicopter's 6-axis gyro stabilization and altitude hold features during flight. This video showcases the helicopter's stable performance and ease of control.

Maintenance

Regular maintenance ensures the longevity and optimal performance of your GoolRC C186 helicopter.

- **Cleaning:** Use a soft, dry cloth to wipe down the helicopter after each use. Avoid using water or harsh chemicals.
- **Propeller Inspection:** Regularly check the main and tail propellers for any damage (cracks, bends). Replace damaged propellers immediately using the provided spare parts and tools.
- **Battery Care:**
  - Always use the original USB charging cable.
  - Do not overcharge or over-discharge batteries.
  - Store batteries in a cool, dry place away from direct sunlight and extreme temperatures.
  - If the helicopter will not be used for an extended period, remove batteries from both the helicopter and the remote controller.
- **Motor and Gear Inspection:** Periodically check for any debris or obstructions around the motors and gears. Ensure smooth rotation of all moving parts.

Troubleshooting

This section addresses common issues you might encounter with your GoolRC C186 helicopter.

Problem	Possible Cause	Solution
Helicopter does not respond to remote.	Not paired; low battery in remote or helicopter.	Re-pair the helicopter and remote. Check and replace/charge batteries.
Helicopter flies erratically or drifts.	Improper calibration; damaged propeller; strong wind.	Recalibrate the gyroscope (refer to specific remote instructions). Check and replace propellers. Fly in calm conditions.
Short flight time.	Battery not fully charged; aging battery.	Ensure batteries are fully charged. Consider replacing old batteries.
Helicopter does not take off.	Low battery; propellers obstructed; motor issue.	Charge batteries. Clear any obstructions. Contact support if motor issue persists.
Low voltage alarm activates.	Flight battery is low.	Land the helicopter immediately and charge the flight battery.
Locked rotor protection activates.	Propeller is jammed or obstructed.	Turn off the helicopter, clear the obstruction, then restart.
Runaway protection activates.	Loss of signal from remote controller.	Ensure remote controller is within range and has sufficient battery. Re-pair if necessary.

Specifications

Key technical specifications for the GoolRC C186 Remote Control Helicopter:

- **Model:** C186
- **Item Model Number:** IEX7415952294022CC
- **Brand:** GoolRC
- **Design:** Aileronless, Single Propeller
- **Stabilization:** 6-axis Gyroscope
- **Channels:** 4-Channel
- **Flight Features:** Altitude Hold, One-Key Take-off/Landing, Speed Regulation, Nose Searchlight
- **Battery (Helicopter):** 350mAh Lithium Battery (approx. 15 minutes flight time per battery)
- **Battery (Remote Controller):** 3 AA batteries (not included)

- **Recommended Age:** 14 years and up
- **Item Weight:** 1.7 pounds
- **Package Dimensions:** 13.15 x 10.55 x 3.46 inches



Figure 8: Approximate dimensions of the GoolRC C186 helicopter.

Warranty and Support

GoolRC provides a warranty for this product. If you encounter any problems or require assistance, please contact the GoolRC store or customer support team in a timely manner. They are committed to providing a satisfactory solution.
For further information or to explore other GoolRC products, visit the officialGoolRC Store on Amazon.

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