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GoolRC C129 V2

GoolRC C129 V2 RC Helicopter User Manual

Model: C129 V2 | Brand: GoolRC

Introduction

This manual provides essential information for the safe operation, maintenance, and troubleshooting of your GoolRC C129 V2 RC Helicopter. Please read this manual thoroughly before operating the aircraft to ensure proper function and to prevent damage or injury.

The GoolRC C129 V2 RC Helicopter and its accompanying remote controller.

What's in the Box

Verify that all components are present before proceeding with setup:

- Helicopter (GoolRC C129 V2)
- Remote Controller
- Helicopter Battery (Modular, 300mAh 25C Lipo)
- USB Charging Cable
- Spare Propeller Blades
- Screwdriver
- Wrench
- User Manual (this document)

All components included in the product package.

Setup

1. Battery Installation and Charging

The helicopter uses a modular battery for convenient installation and extended service life.

1. Locate the battery compartment on the underside of the helicopter.
2. Insert the 300mAh 25C Lipo battery into the compartment, ensuring it clicks securely into place. The modular design protects the battery.
3. To charge the helicopter battery, connect the USB charging cable to the battery and a compatible USB power source (e.g., computer USB port, USB wall adapter). The charging indicator light will show charging status (refer to charger for specific light indications).
4. Charging typically takes approximately 60-90 minutes. Disconnect the charger once charging is complete. A full charge provides up to 15 minutes of flight time.

Illustration of the modular battery and its charging method.

2. Remote Controller Setup

The remote controller requires 4x AA batteries (not included).

1. Open the battery compartment on the back of the remote controller.
2. Insert 4x AA batteries, observing the correct polarity (+/-).
3. Close the battery compartment.

3. Binding the Helicopter and Remote Controller

1. Ensure the helicopter battery is fully charged and installed.
2. Place the helicopter on a flat, level surface.
3. Turn on the helicopter's power switch. The helicopter's indicator lights will flash.
4. Turn on the remote controller's power switch. The remote controller's indicator light will flash.
5. Push the left joystick (throttle) all the way up, then pull it all the way down. The indicator lights on both the helicopter and remote controller will become solid, indicating successful binding.
6. If binding fails, repeat the steps. Ensure no other 2.4GHz devices are interfering.

Operating Instructions

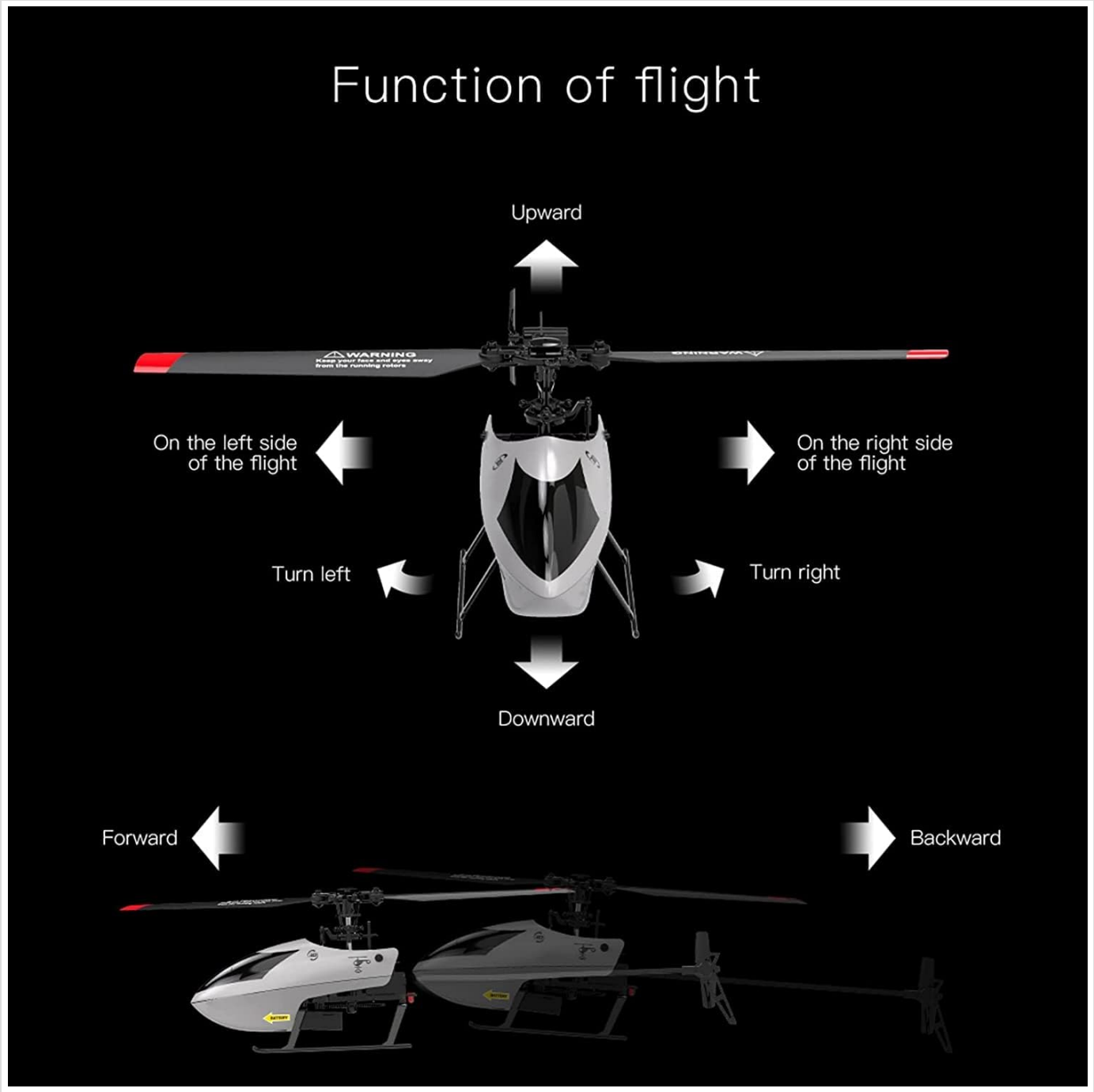
Familiarize yourself with the remote controller functions before flight.

Detailed view of the remote controller with labeled functions.

Basic Flight Controls

The GoolRC C129 V2 features a 4-channel remote controller for comprehensive movement.

- **Up/Down (Throttle):** Left joystick, push up to ascend, pull down to descend.
- **Turn Left/Right (Yaw):** Left joystick, push left to rotate counter-clockwise, push right to rotate clockwise.
- **Forward/Backward (Pitch):** Right joystick, push up to move forward, pull down to move backward.
- **Left/Right Side-fly (Roll):** Right joystick, push left to move left sideways, push right to move right sideways.



Visual representation of the helicopter's flight movements.

One-Key Take-off and Landing

This feature simplifies initial flight and safe landing for beginners.

- **One-Key Take-off:** After binding, press the "One Key Take Off" button on the remote controller. The helicopter will automatically ascend and hover at a stable altitude.
- **One-Key Landing:** During flight, press the "One Key Landing" button. The helicopter will automatically descend and land gently.

Altitude Hold with 6-Axis Gyroscope

The integrated 6-axis gyroscope and automatic air pressure sensing allow the helicopter to maintain a stable altitude, making it easier to control, especially for new pilots.

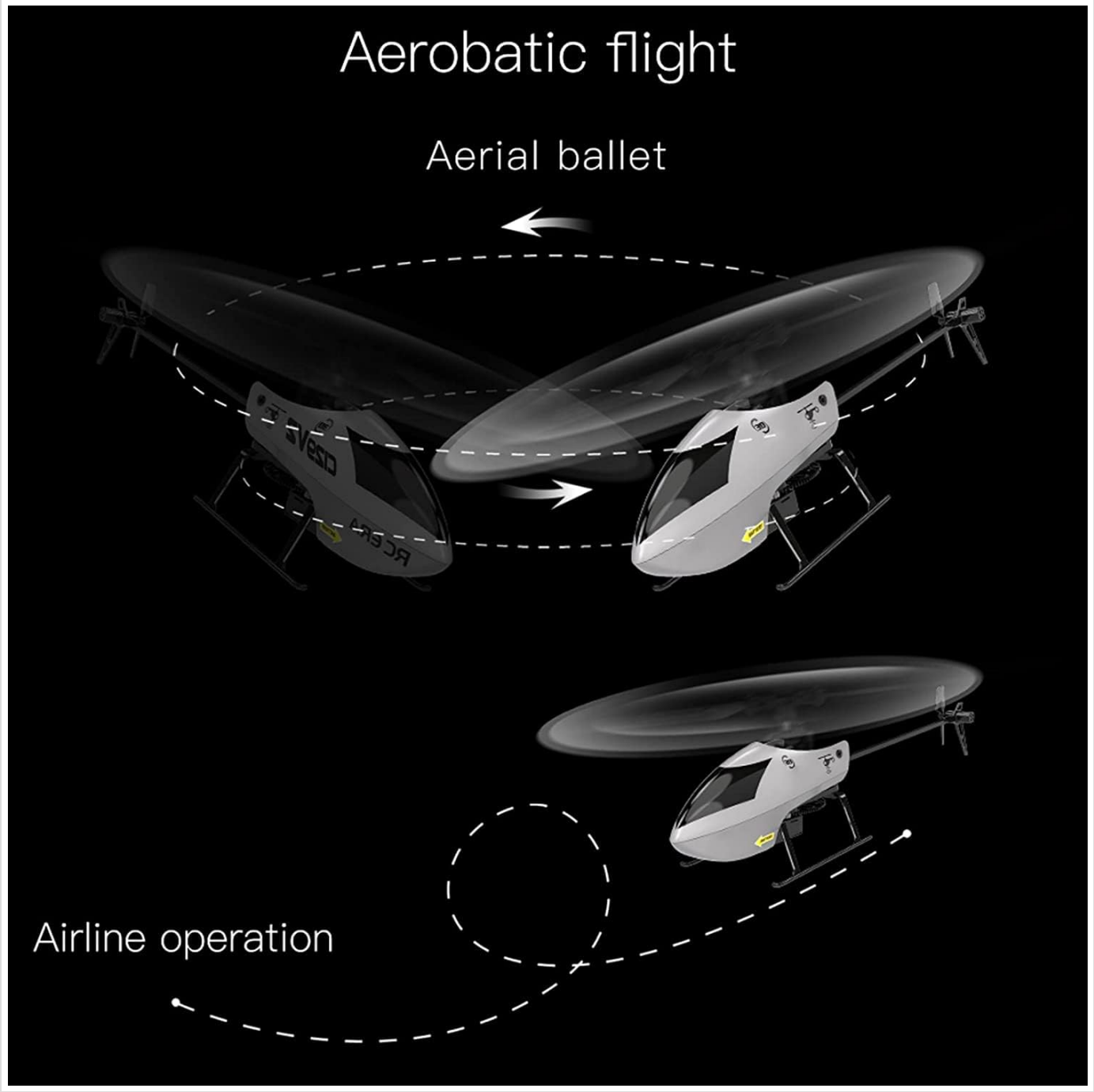
The 6-axis gyroscope provides stable flight and altitude control.

3D Flips and Aerobatic Maneuvers

The C129 V2 supports 360° roll mode for exciting aerobatic displays.

- To perform a 3D flip, press the "3D Tumbling Mode" button (often labeled "Speed" or a dedicated flip button).
- Immediately after pressing the button, push the right joystick in the desired direction (forward, backward, left, or right) to execute the flip.

The helicopter is capable of performing 3D flips with a single button press.



The helicopter's design allows for various aerobatic and precise flight operations.

Maintenance

Cleaning

Regular cleaning helps maintain the helicopter's performance and longevity.

- Use a soft, dry cloth to wipe down the helicopter body and blades after each use.
- Avoid using water or chemical cleaners, as they can damage electronic components.
- Ensure no dust or debris accumulates in the motor or gear areas.

Propeller Replacement

In case of damage, propellers can be replaced using the provided spare blades and tools.

1. Power off the helicopter and remove the battery.
2. Using the provided screwdriver or wrench, carefully loosen the screw(s) holding the damaged propeller in place.

3. Remove the damaged propeller.
4. Align the new propeller with the motor shaft and secure it with the screw(s). Do not overtighten.

Detailed view of the helicopter's main blade, landing gear, and shell construction.

Storage

Store the helicopter and remote controller in a cool, dry place away from direct sunlight and extreme temperatures. Remove batteries from the remote controller if storing for extended periods to prevent leakage.

Troubleshooting

Problem	Possible Cause	Solution
Helicopter does not respond to remote controller.	Not bound, low battery (helicopter or remote), interference.	Re-bind the helicopter and remote controller. Charge helicopter battery. Replace remote controller batteries. Move to an area with less interference.
Unstable flight or drifting.	Not calibrated, damaged propellers, strong wind.	Perform gyroscope calibration (refer to remote controller instructions for specific steps, usually involves holding both joysticks down and to the right). Replace damaged propellers. Fly in calm conditions.
Short flight time.	Battery not fully charged, aging battery.	Ensure battery is fully charged before each flight. Consider replacing the battery if performance significantly degrades over time.
Helicopter crashes frequently.	Pilot inexperience, environmental factors, mechanical issue.	Practice in open, clear areas. Avoid flying near obstacles or in windy conditions. Check for any visible damage to blades or frame.

Specifications

Feature	Detail
Brand	GoolRC
Model Number	C129 V2
Channels	4 Channel
Gyroscope	6-Axis Gyroscope
Frequency	2.4Ghz
Battery Type	300mAh 25C Lipo (Modular)
Approx. Flight Time	Up to 15 minutes
Recommended Age	14 years and up
Item Weight	1.37 pounds
Package Dimensions	12.2 x 9.57 x 3.43 inches

Warranty and Support

GoolRC products are designed for quality and performance. For warranty information, technical support, or replacement parts, please refer to the contact details provided on the product packaging or visit the official GoolRC website. Keep your purchase receipt as proof of purchase for warranty claims.

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