

GoolRC C129 V2

GoolRC C129 V2 RC Helicopter Instruction Manual

Model: C129 V2

1. INTRODUCTION

This manual provides essential information for the safe operation and maintenance 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. Keep this manual for future reference.

2. SAFETY PRECAUTIONS

- **Read Instructions:** Always read the entire instruction manual before operating the helicopter.
- **Age Recommendation:** This product is recommended for users aged 16 years and up.
- **Flight Environment:** Operate in open, clear areas away from people, animals, buildings, and power lines. Avoid flying in windy conditions.
- **Battery Safety:** Use only the provided charger and batteries. Do not overcharge or short-circuit batteries. Discontinue use if batteries show signs of damage or swelling.
- **Rotor Blades:** Keep hands, face, and loose clothing away from rotating blades. The blades can cause serious injury.
- **Water Exposure:** Avoid contact with water or moisture to prevent damage to electronic components.
- **Supervision:** Adult supervision is recommended for younger operators.
- **Maintenance:** Regularly inspect the helicopter for any damage or loose parts before each flight.

3. PACKAGE CONTENTS

Verify that all items are present in the package:

- GoolRC C129 V2 RC Helicopter
- Remote Controller (2.4GHz)
- Lithium Ion Batteries (3 included)
- USB Charger
- Spare Main Blades
- Screwdriver
- Instruction Manual (this document)



Figure 3.1: Contents of the GoolRC C129 V2 RC Helicopter package, including the helicopter, remote controller, three batteries, USB charger, spare blades, and screwdriver.

4. PRODUCT OVERVIEW

The GoolRC C129 V2 is a 4-channel remote control helicopter featuring a 6-axis gyroscope for stable flight. It is designed with an aileronless structure for increased flexibility and stability, making it suitable for beginners.



Figure 4.1: The GoolRC C129 V2 RC Helicopter, remote controller, and modular batteries.

4.1 Key Components

- **Main Rotor Blades:** Designed with aerodynamic principles for strong power and self-stability. Made from PC

engineering materials for strength and impact resistance.

- **Tail Rotor:** Provides yaw control and counteracts main rotor torque.
- **Helicopter Shell:** Made of blister material (0.5mm thickness) for toughness and resilience.
- **Landing Gear:** Provides stable support during takeoff and landing.
- **Modular Battery:** 300mAh 25C High Performance Lipo battery, designed for convenient installation and extended service life (up to 15 minutes flight time).
- **6-Axis Gyroscope:** Ensures flight stability and altitude hold.



Figure 4.2: Detailed view of the helicopter's propellers, main blade clip, and durable shell design.

Super long endurance Modular battery cell



300mAh 25C High
Performance Lipo battery



The high-performance customized lithium battery of 300mAh 25C provides adequate power, an extended battery life and guarantees a long service life. Generally, the flight time of a traditional helicopters approximately 7 minutes, while the C129 professional design and high-efficiency power system extends the time to 15 minutes.

The battery comes with modular design, convenient installation and has a long service life.



Figure 4.3: Illustration of the modular battery and its easy installation, highlighting its 300mAh 25C capacity.

5. REMOTE CONTROLLER FUNCTIONS

The 2.4GHz remote controller provides precise control over the helicopter. Familiarize yourself with the controls before flight.

Function Introduction of R/C



Figure 5.1: Remote Controller layout with labels for Speed, 3D Tumbling mode, Up/Down/Left/Right Rotation, One Key Take Off/Landing, Fine-tuning, Forward/Backward/Left/Right Side Fly, and Power Switch.

- **Left Stick:** Controls throttle (up/down) and yaw (left/right rotation).
- **Right Stick:** Controls pitch (forward/backward) and roll (left/right side-fly).
- **One Key Take Off/Landing Button:** Initiates automatic takeoff or landing.
- **Speed Switch:** Adjusts flight speed modes.
- **3D Tumbling Mode Button:** Activates 3D flip function.
- **Fine-tuning Trimmers:** Used to adjust the helicopter's stability if it drifts in any direction during hover.
- **Power Switch:** Turns the remote controller on/off.

6. BATTERY INSTALLATION AND CHARGING

6.1 Helicopter Battery

1. Insert the modular battery into the designated slot on the helicopter until it clicks into place.
2. To charge, connect the USB charger to a power source and then connect the battery. The indicator light on the charger will show charging status.
3. Charging time is approximately 60-90 minutes for a full charge. Do not leave batteries unattended while charging.

6.2 Remote Controller Batteries

The remote controller requires 4x AA batteries (not included). Ensure correct polarity when inserting the batteries.

7. SETUP AND PRE-FLIGHT CHECKS

7.1 Binding the Helicopter to the 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 remote controller. The indicator light will flash.

4. Connect the helicopter battery. The helicopter's lights will flash.
5. Push the left throttle stick all the way up, then all the way down. The remote controller and helicopter lights will become solid, indicating successful binding.

7.2 Pre-Flight Checks

- Check that all batteries are fully charged.
- Ensure all blades are securely attached and undamaged.
- Verify that the remote controller and helicopter are properly bound.
- Choose a safe, open flying area.

8. OPERATING INSTRUCTIONS

8.1 Basic Flight Controls

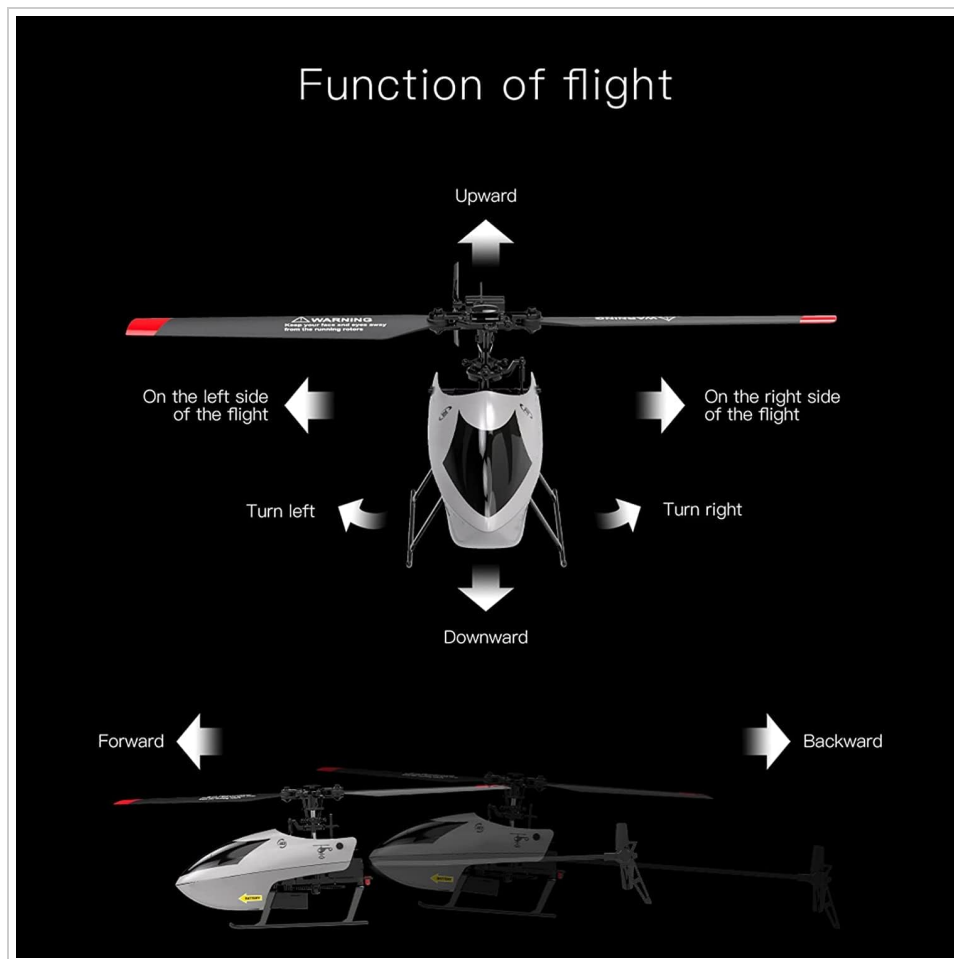


Figure 8.1: Illustration of the helicopter's basic flight movements controlled by the remote.

- **Take Off:** Press the "One Key Take Off" button. The helicopter will automatically ascend and hover. Alternatively, slowly push the left throttle stick up to manually take off.
- **Landing:** Press the "One Key Landing" button. The helicopter will automatically descend and land. Alternatively, slowly pull the left throttle stick down to manually land.
- **Altitude Hold:** The 6-axis gyroscope and automatic air pressure sensing allow the helicopter to maintain its altitude, simplifying control for beginners.
- **Forward/Backward:** Push the right stick forward or backward.
- **Left/Right Side-Fly:** Push the right stick left or right.
- **Turn Left/Right:** Push the left stick left or right.

8.2 Special Functions

- **3D Flips/Rolls:** Press the "3D Tumbling Mode" button. The helicopter will perform a 360° flip. Ensure sufficient altitude (above 3 meters) before attempting 3D flips.



Figure 8.2: Visual representation of the one-key 3D flip function, making flight more dynamic.



Figure 8.3: The helicopter maintaining stable altitude through its 6-axis electronic gyroscope and altitude control feature.

8.3 Official Product Video: Flight Demonstration



Video 8.1: A demonstration of the GoolRC C129 V2 RC Helicopter's flight capabilities, including one-key takeoff, altitude control, and 3D rollover maneuvers. This video showcases the helicopter's stability and ease of control.

9. MAINTENANCE

- **Cleaning:** Use a soft, dry cloth to clean the helicopter after each use. Avoid using water or solvents.
- **Blade Inspection:** Regularly check main and tail rotor blades for cracks, bends, or damage. Replace damaged blades immediately using the provided spare parts.
- **Motor Care:** Keep motors free from dust and debris. Avoid prolonged operation in dusty environments.
- **Storage:** Store the helicopter and remote controller in a cool, dry place away from direct sunlight. Remove batteries from the remote controller during long periods of non-use.
- **Battery Storage:** Store LiPo batteries at approximately 50% charge if not used for an extended period.

10. TROUBLESHOOTING

Problem	Possible Cause	Solution
Helicopter does not respond to remote.	Not bound, low battery (helicopter or remote), out of range.	Re-bind the helicopter. Charge/replace batteries. Ensure within operating range.

Problem	Possible Cause	Solution
Helicopter drifts during hover.	Trimmers not adjusted, uneven surface during calibration.	Use fine-tuning trimmers to correct drift. Ensure helicopter is on a flat surface during power-on for proper gyroscope calibration.
Short flight time.	Battery not fully charged, old battery, aggressive flying.	Ensure battery is fully charged. Consider replacing old batteries. Fly less aggressively.
Blades not spinning.	Obstruction, motor issue, loose connection.	Check for obstructions. Inspect motor and connections. Contact support if issue persists.
Loss of control.	Out of range, interference, damaged components.	Fly within range. Avoid areas with strong interference. Inspect for damage.



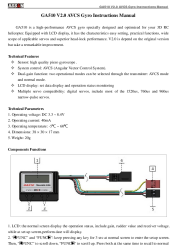
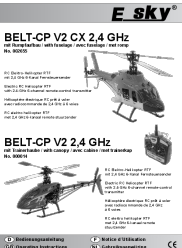
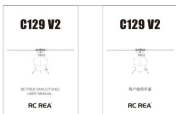

11. SPECIFICATIONS

Feature	Detail
Model Number	C129 V2
Brand	GoolRC
Channels	4 Channel
Gyroscope	6-Axis Gyroscope
Frequency	2.4GHz
Battery Type	Lithium Ion (300mAh 25C)
Flight Time	Up to 15 minutes (approximate)
Recommended Age	16 years and up
Item Weight	1.41 pounds
Package Dimensions	12.28 x 9.53 x 3.58 inches

12. WARRANTY AND SUPPORT

For warranty information or technical support, please refer to the contact details provided with your purchase or visit the official GoolRC website. Keep your proof of purchase for warranty claims.

GoolRC Store: [Visit the GoolRC Store on Amazon](#)

	<p>FIREFOX 6-Axis Gyro 4 Channel RC Helicopter Instruction Manual</p> <p>Comprehensive instruction manual for the FIREFOX 6-AXIS GYRO 4 CHANNEL SERIES RC Helicopter, covering setup, operation, safety precautions, battery usage, parts replacement, and troubleshooting.</p>
	<p>Reely C129 V2 RC Helicopter RtF: Operating Instructions</p> <p>Comprehensive operating instructions for the Reely C129 V2 RC Helicopter RtF, covering setup, flight, maintenance, and safety.</p>
	<p>ASSAN GA510 V2.0 AVCS Gyro: Setup and Operation Guide</p> <p>ASSAN GA510 V2.0 is a high-performance AVCS gyro for 3D RC helicopters, featuring an LCD display for easy setting and monitoring. This guide covers technical features, parameters, installation, and detailed setup procedures for optimal helicopter control.</p>
	<p>E_sky BELT-CP V2 CX 2.4 GHz RC Helicopter Bedienungsanleitung</p> <p>Umfassende Bedienungsanleitung für den E_sky BELT-CP V2 CX 2,4 GHz RC Helikopter. Dieses Handbuch enthält detaillierte Informationen zu Sicherheit, Inbetriebnahme, technischen Daten und Flugvorbereitung für Modellbau-Enthusiasten.</p>
	<p>RC ERA C129 V2 User Manual and Operation Guide</p> <p>Comprehensive user manual for the RC ERA C129 V2 remote control helicopter, covering safety precautions, operation instructions, battery charging, troubleshooting, and parts replacement.</p>
	<p>A3 Super 3 6-Axis Airplane Gyro & Stabilizer Instruction Manual</p> <p>Comprehensive instruction manual for the HobbyEagle A3 Super 3, a high-performance 6-axis gyro and stabilizer for RC airplanes. Covers installation, setup, flight modes, gain settings, software configuration, and specifications.</p>