

SPINORBITOR EC170

SPINORBITOR EC170 Mini RC Quadcopter Toy User Manual

Model: EC170

1. INTRODUCTION

The SPINORBITOR EC170 is a versatile 2-in-1 remote-controlled toy designed for indoor use, functioning as both a flying quadcopter and a jumping car. It features easy-to-use controls, including one-key take-off/landing, altitude hold, and headless mode, making it suitable for various skill levels. This manual provides essential information for safe operation, setup, maintenance, and troubleshooting.



Image 1.1: The SPINORBITOR EC170 Mini RC Quadcopter Toy, showcasing its compact design and included remote control, spare propellers, and batteries.

2. SAFETY INFORMATION

- **Indoor Use Only:** This product is designed for indoor operation. It is not wind-resistant and will not perform well outdoors.
- **Age Recommendation:** Suitable for users aged 8-12, or 10-15, 12-14 as a toy. Adult supervision is recommended for younger users.
- **Battery Safety:** Use only the provided Lithium Polymer batteries and charging cables. Do not overcharge or puncture batteries. Discontinue use if batteries show signs of damage or swelling.
- **Propeller Safety:** Keep fingers, hair, and loose clothing away from rotating propellers. Ensure propellers are securely attached before operation.
- **Obstacle Avoidance:** Operate in open areas free from obstacles, people, and pets.
- **Emergency Stop:** Familiarize yourself with the emergency stop function on the remote control to prevent injury or damage.

3. PACKAGE CONTENTS

Verify that all items are present in the package:

- SPINORBITOR EC170 Quadcopter Toy
- Remote Control
- Lithium Polymer Batteries (2 included)
- Spare Propellers
- Screwdriver
- User Manual (this document)

4. COMPONENTS OVERVIEW

4.1 Quadcopter Toy

The EC170 features four propellers for flight and two large wheels for ground movement. It includes a detachable action figure on top and LED lights for visibility, which can be turned off to conserve battery.

4.2 Remote Control

The 2.4GHz remote control operates the quadcopter. It includes joysticks for movement, buttons for special functions (e.g., one-key take-off/landing, 360° flip, circle fly), and trim adjustments.

5. SETUP

5.1 Battery Installation and Charging

1. **Quadcopter Battery:** Insert one of the provided Lithium Polymer batteries into the battery compartment of the quadcopter. Ensure it is securely connected.
2. **Remote Control Battery:** Open the battery compartment on the remote control and insert the required batteries (not specified in product details, typically AA or AAA, refer to remote for markings).
3. **Charging:** Connect the quadcopter battery to the charging cable and a suitable USB power source. Charging typically takes 60-90 minutes. The indicator light on the charger will show charging status (e.g., red for charging, green for fully charged).

5.2 Propeller Installation/Replacement

If propellers are not pre-installed or need replacement, use the included screwdriver to gently attach or detach them. Ensure each propeller is placed on the correct motor shaft as indicated in the diagram (if provided on the drone or in packaging). The product features full propeller guards for protection.



Image 5.1: The EC170 features full propeller guards for enhanced durability and a detachable action figure.

5.3 Action Figure Attachment/Detachment

The small block doll action figure attached to the top of the quadcopter can be detached if desired. Simply pull it gently from its base.

6. OPERATING INSTRUCTIONS

6.1 Power On and Pairing

1. Turn on the quadcopter by pressing its power button. The indicator lights will flash.
2. Turn on the remote control.
3. Move the left joystick up and then down. The quadcopter lights will become solid, indicating successful pairing.

6.2 Calibration

If the quadcopter drifts upon take-off, perform a calibration. Place the quadcopter on a flat surface. Refer to the remote control's specific button for one-key calibration or use the trimmer buttons to adjust balance.

6.3 Flight and Drive Modes



Image 6.1: The EC170 can be operated in Race Car Mode on the ground or Fly Mode in the air.

- **Flying Quadcopter Mode:** Use the joysticks to control altitude and direction in the air.
- **Jumping Car / Race on Land Mode:** The two wheels allow the toy to drive smoothly on land. Use the remote to control ground movement.

6.4 Basic Controls

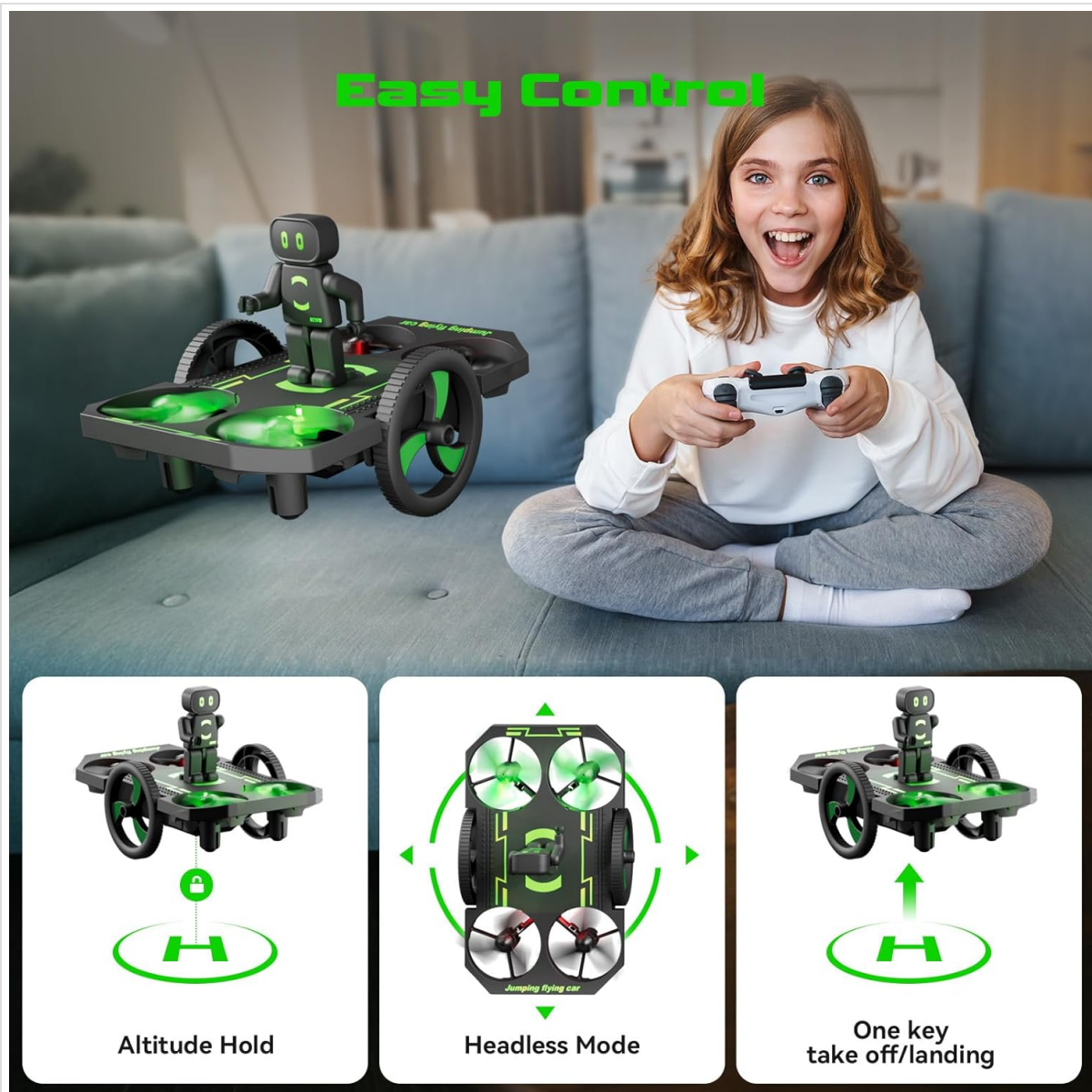


Image 6.2: Key features for easy control include Altitude Hold, Headless Mode, and One Key Take-off/Landing.

- **One Key Take-off/Land:** Press the designated button to initiate automatic take-off or landing.
- **Altitude Hold:** The quadcopter will maintain its current altitude when no vertical input is given, allowing for stable hovering.
- **Headless Mode:** This mode simplifies control by orienting the quadcopter's movement relative to the pilot, regardless of the drone's front direction.
- **Emergency Stop:** In case of an emergency, press the emergency stop button on the remote to immediately halt all motor activity.

6.5 Special Functions



Image 6.3: The EC170 can perform dynamic maneuvers such as jumping over obstacles, 360-degree flips, and circular flight patterns.

- **Jumping:** Utilize the jumping feature to navigate over small obstacles in car mode.
- **360° Flip:** Press the designated button and move the right joystick in the desired direction to perform an aerial flip.
- **Circle Fly:** Activate this function to make the quadcopter fly in a circular pattern.

6.6 Drone Lights

The drone's lights assist with direction identification, especially in low light. These lights can be turned off via the remote control to conserve battery power when not needed.

7. MAINTENANCE

- **Cleaning:** Use a soft, dry cloth to clean the quadcopter and remote control. Avoid using water or harsh chemicals.
- **Propeller Inspection:** Regularly check propellers for damage (bends, cracks). Replace any damaged propellers immediately using the spare parts provided.
- **Battery Care:** Store batteries in a cool, dry place when not in use. Do not leave batteries fully discharged for extended periods.

- **Storage:** When storing the toy for extended periods, remove batteries from both the quadcopter and the remote control.

8. TROUBLESHOOTING

Problem	Possible Cause	Solution
Quadcopter does not respond to remote.	Not paired, low battery, out of range.	Ensure both devices are powered on and paired correctly. Charge batteries. Operate within 98 feet (30 meters) range.
Quadcopter drifts during flight.	Needs calibration, uneven surface at take-off, damaged propeller.	Perform one-key calibration. Ensure take-off from a flat surface. Check and replace damaged propellers. Use trimmer buttons for fine adjustment.
Short battery life.	Frequent use of special functions (flips, circle fly), battery degradation.	Special functions consume more power. Use the second included battery. Ensure full charge before use.
Quadcopter performs poorly outdoors.	Not designed for outdoor use.	This product is intended for indoor use only and is not wind-resistant.
Action figure falls off.	Loose attachment.	Reattach the action figure firmly. If it continues to fall, it may be detached for play.

9. SPECIFICATIONS

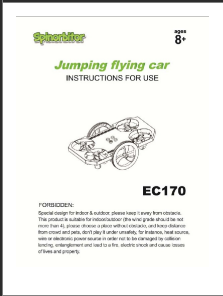
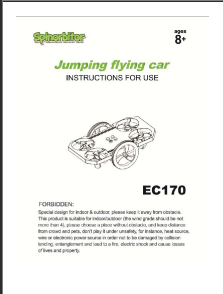


- **Brand:** SPINORBITOR
- **Model Name:** EC170
- **Item Weight:** 43 Grams (1.52 ounces)
- **Product Dimensions:** 3.15"L x 1.77"W x 4.72"H
- **Age Range (Description):** Kid
- **Color:** BLACK
- **Connectivity Technology:** REMOTE
- **Remote Control Technology:** 2.4GHZ Radio Frequency
- **Control Type:** Remote Control
- **Maximum Range:** 98 Feet (30 meters)
- **Battery Cell Composition:** Lithium Polymer
- **Batteries Included:** Yes (2 Lithium Polymer batteries)
- **Rechargeable Battery Included:** Yes
- **Special Feature:** Fast Response

10. WARRANTY AND SUPPORT

For warranty information, product support, or to purchase replacement parts, please refer to the contact information provided with your purchase or visit the official SPINORBITOR website. Keep your purchase receipt as proof of purchase.

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Related Documents - EC170

	<p>Spinorboritor EC170 Jumping Flying Car: User Manual and Instructions</p> <p>Comprehensive user manual for the Spinorboritor EC170 Jumping Flying Car, covering setup, operation, safety guidelines, troubleshooting, and features like headless mode and 360° flips. Suitable for ages 8+.</p>
	<p>Spinorboritor EC170 Jumping Flying Car: User Manual and Instructions</p> <p>Comprehensive user manual for the Spinorboritor EC170 Jumping Flying Car, covering setup, operation, safety guidelines, troubleshooting, and features like headless mode and 360° flips. Suitable for ages 8+.</p>
	<p>Extech pH, Conductivity, TDS, and Salinity Meters</p> <p>Detailed information on Extech's PH60 pH Pens and EC150/EC170 Conductivity/TDS/Salinity Meters, including features, specifications, and ordering information.</p>
	<p>Emerson SmartSet® Dual Alarm Clock Radio User Manual and Features</p> <p>Detailed information and user guide for the Emerson SmartSet® Dual Alarm Clock Radio, covering setup, operation, features, safety, and troubleshooting. Includes SmartSet® technology, dual alarms, and AM/FM radio.</p>