

Actualia K170 UH60L

Actualia K170 UH60L RC Helicopter User Manual

Model: K170 UH60L

INTRODUCTION

This manual provides detailed instructions for the safe operation, setup, maintenance, and troubleshooting of your Actualia K170 UH60L RC Helicopter. Please read this manual thoroughly before operating the helicopter to ensure proper function and to prevent damage or injury. This model is a highly simulated four-propeller helicopter designed for both beginners and experienced users, featuring a 6-axis gyroscope for stable flight and a 2.4G 4-channel remote control system.

SAFETY GUIDELINES

Always prioritize safety when operating the RC helicopter. Failure to follow these guidelines may result in injury or damage to the product.

- **Age Recommendation:** This product is recommended for users aged 12 months to 17 years. Adult supervision is advised for younger users.
- **Flight Environment:** Operate the helicopter in open, clear areas, away from people, animals, buildings, power lines, and water. Avoid flying in strong winds or adverse weather conditions.
- **Pre-Flight Check:** Before each flight, ensure all components are securely attached, batteries are fully charged, and the remote control is functioning correctly.
- **Battery Safety:** Use only the specified batteries. Do not overcharge, short-circuit, or expose batteries to extreme temperatures. Discontinue use if batteries show signs of damage or swelling.
- **Propeller Safety:** Keep hands, face, and loose clothing away from rotating propellers. Never attempt to catch a flying helicopter.
- **Signal Loss Prevention:** Be aware of the remote control's range. The helicopter has a signal loss prevention function that initiates a slow landing if control is lost.
- **Post-Flight:** Disconnect batteries after use and store the helicopter and remote control in a safe, dry place.

PACKAGE CONTENTS

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

- K170 UH60L RC Helicopter

- Remote Control
- Rechargeable Batteries (Quantity: 2, 3.8V 800mAh 20c)
- USB Charging Cable
- Spare Propeller Blades
- Screwdriver and Hex Wrench
- Landing Pad (Optional accessory, may vary by package)
- Display Stand (Optional accessory, may vary by package)



Image: Contents of the Actualia K170 UH60L RC Helicopter package, including the helicopter, remote control, batteries, charging cable, and tools.

COMPONENTS OVERVIEW

Helicopter



Image: Top-down view of the K170 UH60L RC Helicopter, showing the four main rotor blades and tail rotor.

- **Main Rotor Blades:** Four blades for lift and propulsion.
- **Tail Rotor:** Provides anti-torque and directional control.
- **Brushless Motor:** Powers the main rotor for efficient flight.
- **Landing Gear:** For safe takeoffs and landings.
- **Battery Compartment:** Houses the flight battery.
- **Signal Lights:** For visibility, especially during night flight.

Remote Control



Image: Diagram illustrating the various buttons and joysticks on the remote control for the K170 UH60L RC Helicopter.

1. **Power Switch:** Turns the remote control on/off.
2. **Power LED:** Indicates power status.

3. **Speed Conversion:** Adjusts flight speed mode.
4. **A Key Take-off / A Key Landing:** Initiates automatic takeoff or landing.
5. **Antenna:** Transmits control signals.
6. **Throttle/Directional Rocker:** Controls altitude (throttle) and forward/backward movement.
7. **Left / Right / Front / Rear Joystick:** Controls left/right steering and left/right side flight.
8. **Front and Rear Trim Key:** Fine-tunes forward/backward drift.
9. **Fine Tune Keys Around:** Fine-tunes left/right drift.
10. **Long Press to the Right to Boot / Left and Right Hand Switch:** Used for initial pairing and switching control modes.
11. **Emergency Stop:** Immediately stops the helicopter.

SETUP

1. Charging the Flight Battery

The helicopter uses a 3.8V 800mAh 20c high-rate high-voltage battery. Ensure the battery is fully charged before each flight.

- Connect the flight battery to the provided USB charging cable.
- Plug the USB charging cable into a suitable USB power source (e.g., computer USB port, USB wall adapter).
- The charging indicator light on the USB cable will show the charging status (refer to charger instructions for specific light patterns).
- Charging typically takes approximately 60-90 minutes. Do not leave batteries unattended while charging.

2. Installing Remote Control Batteries

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

- Open the battery compartment on the back of the remote control.
- Insert 4x AA batteries, ensuring correct polarity (+/-).
- Close the battery compartment securely.

3. Pairing the Helicopter and Remote Control

Follow these steps to establish a connection between the helicopter and the remote control:

1. Place the helicopter on a flat, level surface.
2. Connect the fully charged flight battery to the helicopter. The helicopter's indicator lights will flash.
3. Turn on the remote control using the Power Switch (1). The remote control's Power LED (2) will flash.
4. Push the Throttle/Directional Rocker (6) all the way up, then pull it all the way down.
5. The indicator lights on both the helicopter and the remote control will become solid, indicating successful pairing.
6. If pairing fails, turn off both devices and repeat the process.

OPERATING INSTRUCTIONS

Basic Flight Controls

- **Takeoff:** After pairing, press the "A Key Take-off" button (4) for automatic takeoff, or slowly push the Throttle/Directional Rocker (6) upwards to manually lift off.
- **Landing:** Press the "A Key Landing" button (4) for automatic landing, or slowly pull the Throttle/Directional Rocker (6) downwards to manually descend.

- **Altitude Control (Throttle):** Use the Throttle/Directional Rocker (6) to increase (up) or decrease (down) altitude.
- **Forward/Backward:** Push the Throttle/Directional Rocker (6) forward or backward to move the helicopter in those directions.
- **Turn Left/Right (Yaw):** Push the Left / Right / Front / Rear Joystick (7) left or right to rotate the helicopter horizontally.
- **Side Flight (Roll):** Push the Left / Right / Front / Rear Joystick (7) left or right to move the helicopter sideways.

6G Mode (Stabilized Flight)

The 6G mode utilizes a 6-axis gyroscope for enhanced flight stability, making it ideal for beginners. This mode helps maintain a stable hover and simplifies control inputs.

Advanced Features

- **One-Key Takeoff/Landing:** Simplifies starting and ending flights with a single button press.
- **Signal Loss & Crash Prevention Function:** If the remote control signal is lost or out of range, the helicopter will maintain its current altitude for 2 seconds, then slowly descend and land automatically. To regain control, restart the remote control and re-pair before the helicopter lands.
- **Low Voltage Prompt:** The remote control and helicopter will provide an indication when their respective batteries are running low, prompting you to land.
- **Left/Right Hand Switch:** The remote control supports free switching between left and right-hand throttle modes. Refer to the remote control diagram for the specific button (10) to activate this feature.
- **Night Flight Capability:** The helicopter is equipped with signal lights for improved visibility during night operations.

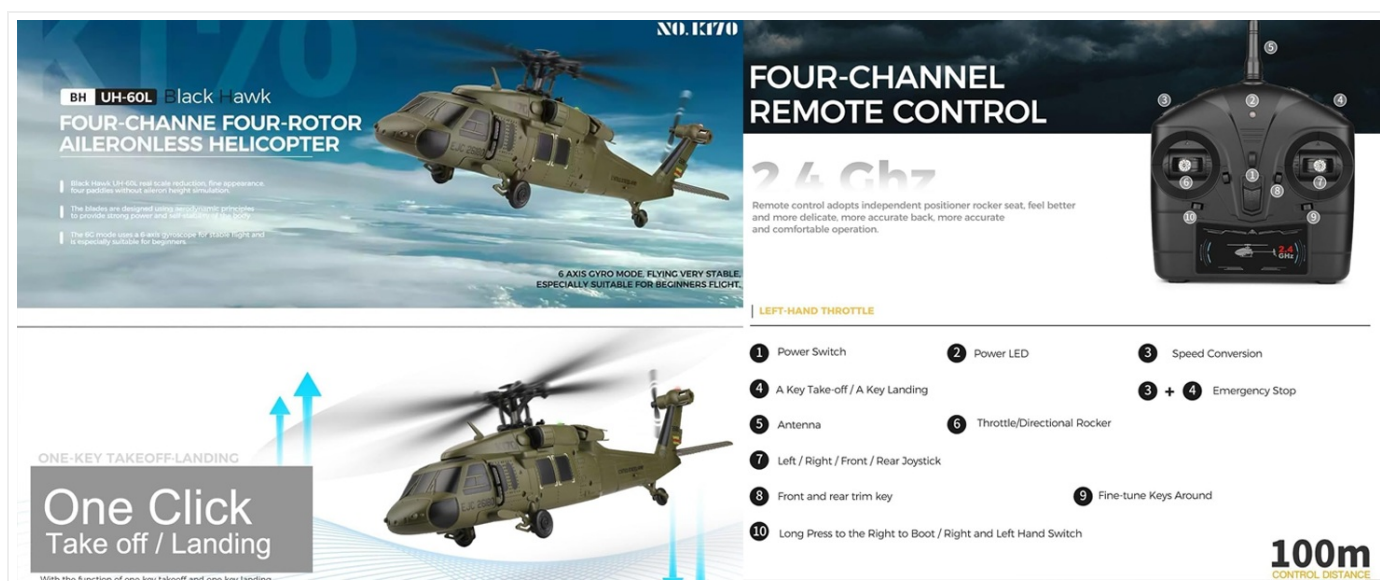


Image: The K170 UH60L RC Helicopter demonstrating its signal lights for night flight, enhancing visibility in low-light conditions.



Image: The K170 UH60L RC Helicopter positioned on a designated landing pad, ready for flight or after landing.

MAINTENANCE

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

- **Cleaning:** Gently wipe the helicopter body with a soft, dry cloth after each use to remove dust and debris. Avoid using water or chemical cleaners.
- **Propeller Inspection:** Regularly check propeller blades for any cracks, bends, or damage. Replace damaged blades immediately using the provided spare parts and screwdriver.
- **Motor Care:** Keep the brushless motor free from dust and obstructions. Do not attempt to lubricate the motor unless specifically instructed.
- **Battery Storage:** For long-term storage, charge batteries to approximately 50% capacity. Store batteries and the helicopter in a cool, dry place away from direct sunlight and extreme temperatures. Remove batteries from the remote control if not in use for extended periods.
- **Landing Gear:** Inspect landing gear for any damage or looseness.

TROUBLESHOOTING

This section addresses common issues you might encounter with your K170 UH60L RC Helicopter.

Problem	Possible Cause	Solution
Helicopter does not respond to remote control.	Not paired, low battery (helicopter or remote), out of range.	Ensure both devices are powered on and paired correctly. Charge helicopter battery. Replace remote control batteries. Operate within control range.
Helicopter flies erratically or drifts.	Improper calibration, damaged propellers, strong wind.	Ensure helicopter is placed on a flat surface during pairing. Use trim keys on remote control to correct drift. Inspect and replace damaged propellers. Avoid flying in windy conditions.
Short flight time.	Battery not fully charged, old battery, aggressive flying.	Ensure battery is fully charged. Consider replacing old batteries. Practice smoother flight maneuvers.
Helicopter does not take off.	Low battery, propellers obstructed, throttle not advanced.	Charge helicopter battery. Clear any obstructions from propellers. Push throttle stick up.
Signal loss during flight.	Out of range, interference.	Operate within the specified control range (approximately 100m). Avoid areas with strong electromagnetic interference. The helicopter will attempt a slow landing.

SPECIFICATIONS

Feature	Detail
Model	K170 UH60L
Brand	Actualia
Dimensions (L x W x H)	10.24 x 10.43 x 2.83 inches
Item Weight	2.07 pounds
Control Channels	4 Channels
Gyroscope	6-Axis Gyro
Motor Type	1106 External Brushless Motor
Flight Battery	3.8V 800mAh 20c High-Rate High-Voltage Battery
Remote Control Battery	4x AA Batteries (not included)
Flight Time	Approximately 8 minutes
Control Distance	Approximately 100 meters
Recommended Age	12 months - 17 years

WARRANTY AND SUPPORT

This Actualia K170 UH60L RC Helicopter is manufactured by Actualia.
For specific warranty information, please refer to the documentation provided with your purchase or contact the retailer.
Details regarding warranty periods and coverage may vary.

© 2023 Actualia. All rights reserved.

Related Documents - K170 UH60L

<div><div>KOOLAIRE</div><div>Undercounter Ice Machines</div><div><div>Technician's Handbook</div><div>This manual is updated as new information and models are released. Visit our website for the latest manual. www.koolair.com</div></div><div><div>Part Number SH454 T S 16 </div></div></div>	<p>Koolaire Undercounter Ice Machines Technician's Handbook</p> <p>Comprehensive technician's handbook for Koolaire undercounter ice machines, covering installation, maintenance, operation, troubleshooting, and component specifications. Includes safety guidelines and diagnostic procedures.</p>
<div><div>KOOLAIRE</div><div>Koolaire Ice Machines UnderCounter Models</div><div>Installation, Operation and Maintenance Manual</div><div><div>Part Number SH454B S 16 </div></div></div>	<p>Koolaire UnderCounter Ice Machine Installation, Operation & Maintenance Manual</p> <p>Comprehensive installation, operation, and maintenance manual for Koolaire UnderCounter ice machines. Covers setup, usage, cleaning, troubleshooting, and warranty for models including K130, K170, K210, K270, and KD/KY/KR series. Essential guide for food service professionals.</p>
<div><div>KOOLAIRE</div><div>Undercounter Ice Machines</div><div><div>Technician's Handbook</div><div>This manual is updated as new information and models are released. Visit our website for the latest manual. www.koolair.com</div></div><div><div>Part Number SH454 T S 16 </div></div></div>	<p>Koolaire Undercounter Ice Machines Technician's Handbook</p> <p>Comprehensive technician's handbook for Koolaire Undercounter Ice Machines, covering installation, operation, maintenance, troubleshooting, and component specifications. Includes safety guidelines and diagrams.</p>
<div><div>SAMSUNG</div><div>СЕРВИСНАЯ СИСТЕМА С ПРОЕКЦИОННЫМ ДВД-ПЛЕЙЕРЕМ DVD-K170</div><div>Инструкция для пользователя</div><div><div>DVD-RW CD-R/DW MP3 USB iPod FireWire LAN</div></div></div>	<p>Samsung DVD-K170: Руководство пользователя</p> <p>Полное руководство пользователя для DVD-караоке системы Samsung DVD-K170, охватывающее установку, эксплуатацию, настройки и устранение неполадок.</p>

