RCXTechPro A61 Air-Wolf

RC ERA A61 Air-Wolf RC Helicopter Instruction Manual

Model: A61 Air-Wolf | Brand: RCXTechPro

1. Introduction

Thank you for purchasing the RC ERA A61 Air-Wolf RC Helicopter. This manual provides essential information for the safe operation, setup, and maintenance of your new remote control helicopter. Please read this manual thoroughly before operating the product to ensure proper function and to prevent damage.

1.1 Safety Warnings

No specific safety warnings are applicable beyond general remote control toy safety. Always operate in open spaces, away from people, animals, and obstacles. Keep fingers clear of rotating blades. Adult supervision is recommended for younger users. Do not modify the product. Use only original parts and accessories.

2. Package Contents

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

- 1 x RC ERA A61 Air-Wolf Helicopter
- 1 x Remote Control
- 1 x User Manual
- 1 x USB Charger
- 1 x Li-ion Battery (for helicopter)
- 2 x Main Rotor Blades (spare)
- 1 x Rear Rotor Blade (spare)
- 1 x Screwdriver
- 1 x Rear Wing (spare)

Image: The RC ERA A61 Air-Wolf helicopter with its remote control, showcasing the product's design.

3. Product Features

- **Realistic 1/52 Scale Design:** Replicates the iconic 'Little Flying Wolf' with authentic proportions (227mm rotor, 242mm body, 77mm height).
- **Stable Single Rotor Flight:** Features a true single rotor system, altitude hold, and optical flow positioning for smooth hovering and precise control.
- **Flexible 4-Channel Control:** Supports comprehensive movements including up/down, forward/backward, and left/right turns.
- **One-Key Take-off and Landing:** Simplifies operation for both new and experienced pilots.
- **Three-Speed Adjustment:** Allows selection of flight speed based on pilot proficiency.
- **Modular Battery:** Designed for easy installation and replacement.
- **Six-Axis Gyroscope:** Enhances flight stability and control.
- **Easy to Fly and Maintain:** User-friendly design for enjoyable operation and straightforward upkeep.

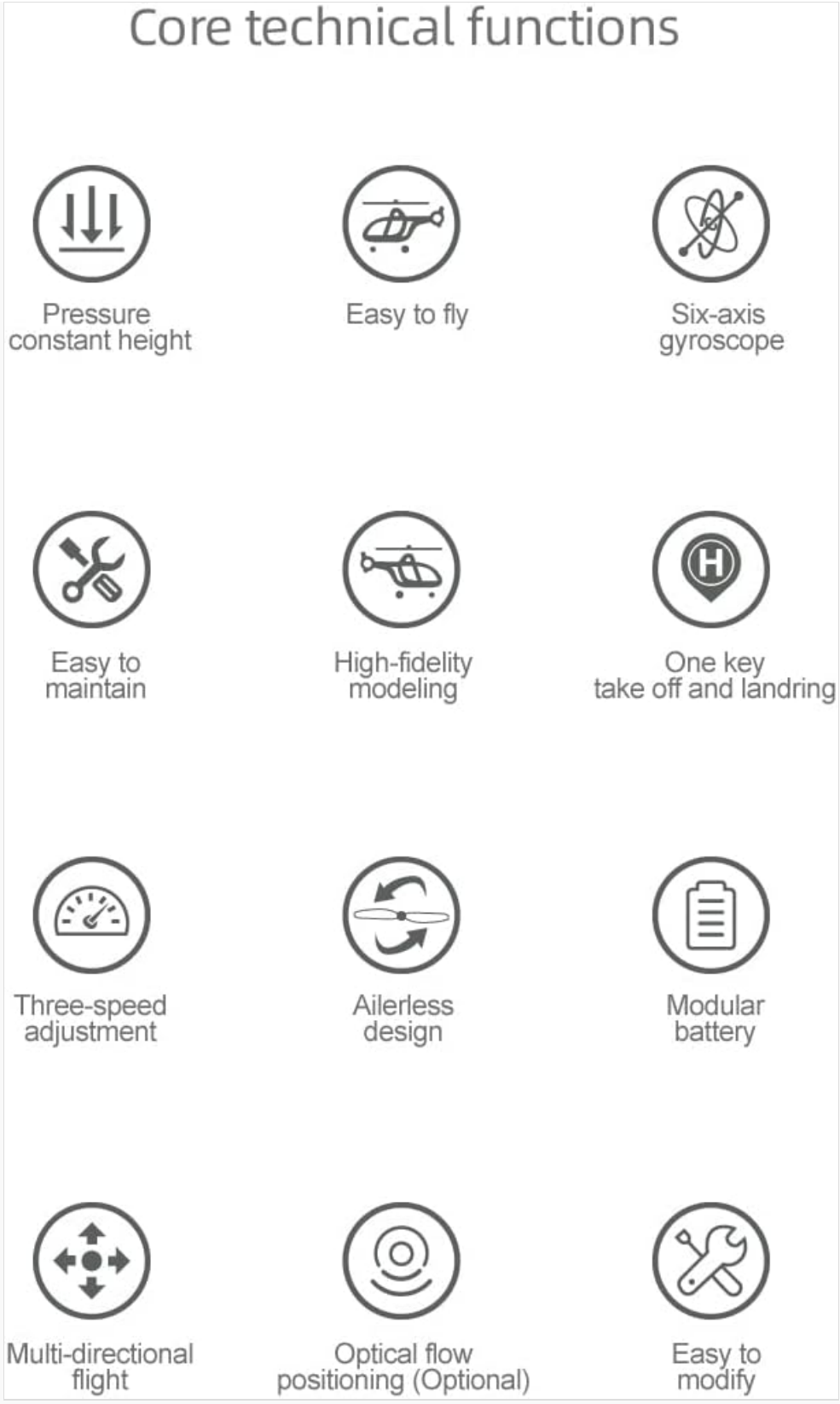

Image: Visual representation of the helicopter's core technical functions, including pressure constant height, easy to fly, six-axis gyroscope, easy to maintain, high-fidelity modeling, one-key take-off and landing, three-speed adjustment, ailerless design, modular battery, multi-directional flight, optical flow positioning, and easy to modify.

4. Setup

4.1 Battery Installation

1. **Helicopter Battery:** Insert the provided 3.7V Li-ion battery into the helicopter's battery compartment. Ensure it is securely connected.

2. **Remote Control Batteries:** Open the battery compartment on the back of the remote control. Insert 4 x 1.5V AA batteries (not included), observing correct polarity. Close the compartment.

Image: The RC ERA A61 Air-Wolf helicopter with an illustration highlighting the modular battery compartment and the direction of one-key take-off and landing.

4.2 Charging the Helicopter Battery

1. Connect the USB charger to a power source (e.g., computer USB port, USB wall adapter).

2. Connect the helicopter's Li-ion battery to the USB charger.
3. The charging indicator light on the USB charger will illuminate (color may vary) during charging.
4. Charging typically takes approximately 40 minutes. The indicator light will change or turn off once charging is complete.
5. Do not overcharge the battery. Disconnect the charger once charging is complete.

5. Operating Instructions

5.1 Pairing the Remote Control

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 indicator light on the helicopter will flash.
4. Turn on the remote control. The indicator light on the remote control 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 control will become solid, indicating successful pairing.

5.2 Take-off and Landing

- **One-Key Take-off:** After pairing, press the one-key take-off button on the remote control. The helicopter will automatically ascend to a stable hovering height.
- **One-Key Landing:** During flight, press the one-key landing button. The helicopter will slowly descend and land automatically.

5.3 Basic Flight Controls (4-Channel)

- **Throttle (Left Joystick Up/Down):** Controls altitude (ascend/descend).
- **Yaw (Left Joystick Left/Right):** Controls rotation of the helicopter around its vertical axis (turn left/right).
- **Pitch (Right Joystick Up/Down):** Controls forward/backward movement.
- **Roll (Right Joystick Left/Right):** Controls sideways movement (left/right).

Image: The RC ERA A61 Air-Wolf helicopter illustrating its capability for multi-directional flight once the flight mode is activated.

5.4 Speed Adjustment

The helicopter features three-speed modes (Low, Medium, High) to accommodate different skill levels. Press the speed adjustment button on the remote control to cycle through the speeds. Start with low speed for beginners and gradually increase as you gain proficiency.

Image: The RC ERA A61 Air-Wolf helicopter demonstrating its three-speed adjustment feature, with indicators for Low, Medium, and High speeds.

5.5 Altitude Hold and Optical Flow Positioning

The helicopter is equipped with an altitude hold function and optical flow positioning for enhanced stability. This allows the helicopter to maintain a consistent height and position, making it easier to control and reducing the risk of collisions due to instability.

Image: The RC ERA A61 Air-Wolf helicopter illustrating its pressure constant height and optical flow positioning for stable hovering.

6. Maintenance

- **Cleaning:** Use a soft, dry cloth to clean the helicopter and remote control. Do not use water or chemical cleaners.
- **Rotor Blade Replacement:** If main or rear rotor blades are damaged, use the provided screwdriver to

carefully replace them with the spare blades included in the package. Ensure they are securely fastened.

- **Battery Care:** Always disconnect the helicopter battery after use. Store batteries in a cool, dry place. If not used for an extended period, charge the battery periodically to maintain its health.
- **Storage:** Store the helicopter and remote control in a safe place, away from direct sunlight and extreme temperatures.

7. Troubleshooting

- **Helicopter not responding:** Ensure both the helicopter and remote control are powered on and successfully paired. Check remote control batteries.
- **Helicopter not taking off or flying weakly:** The helicopter battery may be low. Recharge the battery fully. Check for any obstructions or damage to the rotor blades.
- **Unstable flight:** Ensure the helicopter is placed on a flat surface before take-off for proper gyroscope calibration. Check for damaged rotor blades.
- **Remote control indicator flashing:** Remote control batteries may be low or it's not paired. Replace batteries or re-pair the device.
- **Battery not charging:** Ensure the USB charger is properly connected to a power source and the battery. Try a different USB port or adapter.

8. Specifications

Model	A61 Air-Wolf
Brand	RCXTechPro
Material	Acrylonitrile Butadiene Styrene (ABS)
Scale	1/52
Rotor Diameter	227 mm
Body Length	242 mm
Body Width	67 mm
Body Height	77 mm
Weight	55 g
Flight Time	8-10 minutes
Charging Time	Approx. 40 minutes
Control Mode	2.4G Remote Control
Control Distance	80-120 m
Motor Quantity	2
Helicopter Battery	3.7V Li-ion battery
Remote Control Battery	4 x 1.5V AA batteries (not included)