



NINE EAGLES

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## User Handbook

**Nine Eagles NE R/C 106A Helicopter**



[www.nineeagle.com](http://www.nineeagle.com)



## **Nine Eagles NE R/C 106A Helicopter User Handbook**

Safer, Steadier and Easier to Control.

Thank you for purchase of our products.

To ensure safety, please read this manual thoroughly before flying the model.

This instruction manual helps you to learn how to fly.

## **Catalogue**

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## Warnings

NE R/C 106A is not a toy. You must ensure handle safely. Children under 14 years old are strictly forbidden from flying the helicopter.

If you do not have rich experience in flying, please ask experienced man for guidance. Manufacturer and dealers are not liable any use of the helicopter.

Debugging and flying shall strictly adhere to the instruction, and it be-ensured that hands, face are kept away from the rotating parts.

Always use the helicopter indoors or outdoors free of wind. Never fly close to or fly over others.

When flying the helicopter, please make sure there is no remote control of the same frequency in the area, otherwise mutual interference would arise.

Always unplug the helicopter battery before turning off the transmitter when the helicopter is stopped.

NE R/C 106A uses lithium polymer battery. Always adhere to operating rules of lithium polymer battery, or it might cause accidents, like combustion and explosion.

Always use the charger and power adaptor special for the helicopter.

Always unplug the charger and adapter from the electrical outlet after completion of each charge.

Never overcharge the battery unwanted for too a long time for fear of accident.

Never use or leave the battery in the sun or near fire. Never throw battery into the fire.

Ensure the battery is in dry condition.

Never store or transport the battery with metal things.



Never disassemble the battery.

Never touch power or charger with wet hand.

Always keep away from other electronic equipment, magnetic items, wireless devices, etc. in flying to avoid accidents resulting from mutual influence and impact.

When you hear 'Du, Du' alarm sound from the transmitter, it suggests the battery is low. Please stop flying and change the transmitter battery.

## Nine Eagles NE R/C 106A Helicopter

### Introduction for NE R/C 106A

#### ① Characteristics

NE R/C 106A which is of double-blade-sharing-one-axis structure emulates original LAMA helicopter and has a beautiful outline.

The exclusive patent design of rotor has excellent aerodynamics characteristics which enable it to fly more stable, save more electricity and fly much longer.

The special swash-plate design and patent design for inner and outer ball make flying more stable. Beginner can operate the helicopter more stably by using the out ball of swash-plate, and experienced pilot can operate it more flexibly by using the inner ball of swash-plate.

Through the instructions, you can be familiar with NE R/C 106A's operating way within a short time and enjoy the flying.



## ② Packing List



- 1 ) 1 transmitter
- 2 ) 1 7.4v800mAh lithium polymer battery
- 3 ) 1 balance charger
- 4 ) 1 power adaptor
- 5 ) 1 set of standby rotor blades
- 6 ) 1 copy of user handbook
- 7 ) 1 helicopter



## ③ Specifications

Flying Weight : 220g  
Overall Length : 435mm  
Blades Diameter : 340mm  
Power System : 180 motor\*2  
Transmitter : 4 CH  
Mix controller : 4 in 1 controller (W/gyro, mixer, ESC, receiver)  
Servo : 8g, 1.3kg/CM, 0.12s/60  
Battery : 7.4V 800mAh 10C Li-polymer battery

## Battery Mounting, Charging and Maintenance

- 1 ) The transmitter is mounted with 8 No.5 "AA" alkaline battery.
- 2 ) The helicopter uses 7.4V 800mAh 10C Li-polymer battery.
- 3 ) Charging: Connect the Li-polymer battery, adaptor and charger with power outlet. The red light indicates power on. The green light indicates charging. When the green light is off, the battery is fully charged.
- 4 ) In charging, please keep the battery away from the combustible. Do not cover the charger or battery. Always keep it ventilated.
- 5 ) Always unplug the charger and power adaptor away from the electrical outlet after completion of each charging.
- 6 ) Put the charged battery into the battery frame. Before turning on power supply for the helicopter, switch on the transmitter first to ensure that the helicopter system is in the control of the transmitter once power is put through.
- 7 ) Please stop flying once you feel the battery runs low.
- 8 ) When flying is stopped, always unplug the helicopter battery immediately and then turn off the transmitter.



## Flying Guide

### Transmitter Features



### Using the Transmitter

		Mode I	Mode II
Throttle			
Rudder			
Elevator			
Aileron			



## Flight Preparation

### ① Flight Field

Find a field which is suitable for flying. Choose a big room without any obstacle. If flying outdoors, make sure an open field free of trees, wires, wind and other obstacles.

### ② Preflight operation

1. Charge the battery
2. Install the battery
3. Open the transmitter
4. Connect power
5. The green light on shows ready to fly

#### Blade Adjustment

Both blades shall trace the same path and appear to overlap. If not, it is referred to as 'Double Blades'. This will not only cause vibration, affecting stability, but also reduce pneumatic efficiency.

If Double Blades arise in the upper blade, adjust the control link on stabilizer set. Make the higher blade at a lower angle.

If Double Blades arise in the lower blade, adjust the blade. Make the higher blade at a lower angle, and make the lower blade at a higher angle.

#### The Center of Gravity

The center of gravity shall be in the main bearing. shift the battery back or forward to adjust the center of gravity.

## Flight Training Course



### ① Trim Adjustment

Turn on the transmitter and plug the helicopter battery into the power outlet. Position yourself 1.5 to 2 meters behind the helicopter. Push up the Throttle/aileron stick, the blades rotating speed increase, until the helicopter takes off. Observe the helicopter carefully. If the tail turns left or right or the helicopter tends to move forward, backward, left or, right, please trim it. If the tail begins to rotate to the left, slide the rudder trim lever to the left. If the helicopter begins to move forward, slide the elevator trim lever back. If the helicopter begins to move left, slide the aileron trim lever to the right. Otherwise, slide the trim lever to the opposite direction.

### ② Sometimes, to slide the trim lever cannot solve the problem. For example,

1. If the rudder trim lever slides to the end of right, yet the helicopter still moves to the left (tail moves to the right), then you shall adjust the Gyro position, that is to adjust the angle of the potentiometer on the electronic board.

2. If the elevator trim slides to the end of back, yet the helicopter still moves forward, then you shall shorten slightly the length of control link. If the aileron trim slides to the end of left, yet the helicopter still moves right, then you should adjust the length of control link slightly longer. Vice versa.

### ③ Take Off The Ground

The helicopter can take off the ground after trimming. Push the throttle stick up, the rotating speed increase. Push the throttle stick up quickly before the helicopter takes off the ground. When the helicopter takes off, slow down the pushing speed and stay the helicopter 0.5 meters high above ground.

Observe how the helicopter is moving and trim it correspondingly till it is at its best.



④ The beginner shall concentrate their efforts on two sticks first. The throttle stick for vertical control and the rudder stick for horizontal control. First, you shall control the throttle stick. After the helicopter takes off, push up or down the stick slowly gear by gear to avoid crash onto the roof. Please control the sticks to keep the tail facing you. Then, you shall get familiar with the rudder and aileron sticks.

⑤ Do not fly fewer than 0.3 meters high above the ground, because the airflow under the rotating blades would cause the ground effect and affect normal fly and operation.

⑥ The first step you shall learn after getting familiar with taking off is suspending the helicopter. Control the helicopter at a height of 0.5 to 1 meter above the ground, with the tail directed at you.

⑦ It is recommended that you learn the movements according to procedure below after you have learned how to take off and suspend the helicopter. forward/backward flying at a beeline, left/right flying, left/right suspending (the left/right of the helicopter facing you), nose-facing-you suspending (directing the helicopter nose at you, and the left/right operation direction is just the opposite, please note), fixed-point landing (line out a 30cm circle on the ground and land the helicopter in this circle), left/right hovering, eight-character-shaped flying and course flying.

## Flying Principles

When you take off, push the throttle stick quickly. After the helicopter takes off, push it slowly.

Always direct the tail at you until you are familiar with this and then continue the step.

In case of any accident, quickly push down the throttle stick to the end.

NOTE: More information, please refer to our website <http://www.nineeagle.com>

