Radio Control Helicopter

Alloy Structure

RC HELICOPTER INSTRUCTION MANUAL

1. Smart R/C system
2. Full scale remote control
3. Omnidirectional flight
4. Smooth hover performance
5. Newly designed electricity saving functionality
6. Longer battery life
7. Helicopter structure is stronger
8. Side-to-side movement control is more accurate

Please read instruction manual carefully before using helicopter. See NOTICEs throughout the manual for important CAUTIONS. Retain instruction manual for future reference.

Included Parts Name:

Ascend/Descend, Turn Left/Turn Right Control , Throttle Stick	Indicator Light
Antenna	Rudder Control – Used to Control the Left/Right Trim
Forward/Backward, Fly Left/Fly Right	Speed Control
Light Control	ON/OFF

Assembly Transmitter

1. Install antenna: To install the antenna, screw it clockwise into the top of the remote controller.
2. Install batteries: Using a small Phillips head screwdriver open the battery case cover. Insert 8 AA batteries following the proper polarity as indicated in the battery case.

NOTICE:
Do not mix old batteries and new batteries.
Do not mix different types of batteries. Use either alkaline batteries or rechargeable batteries, but not both.

Charging the Helicopter

Always turn off the helicopter power before charging. Connect the charge wire on the helicopter to the connector of the charger and plug into a wall socket. When charging, the LED is red; when the charge is complete the LED is green. Charge time is about 2.5 hours.

NOTICE:
When you are finished playing, disconnect the battery to extend battery life.
Make sure the charger that came with your helicopter fits (is compatible with) your local power supply.

Battery Safety

The helicopter is equipped with a Lithium Polymer battery. Please pay attention to the following cautions for safe usage.

1. Do not use or leave the battery near a heat source such as fire or a heater. Doing so can cause damage, fire, or explosion of the battery.
2. Do not immerse the helicopter or the battery in water. Keep the battery in a cool, dry environment.
3. Use only the charger that is made for use with this model helicopter. Use of other chargers can cause damage, fire, or explosion of the battery.
4. Do not disassemble the battery.
5. Never leave the helicopter unattended during charging.

Flight Environment

1. This remote control helicopter is designed for outdoor play. Select a large, wide-open area for flying making sure there are no obstructions, power lines, vehicles, animals or people nearby.
2. Fly on a day with little or no wind. Do not fly in strong wind conditions. Windy conditions will overcome the flight controls of your helicopter causing the possibility of loss or damage.
3. Do not fly in extreme temperature. Do not fly in temperatures above 113° F (45° C) or below 50° F (10° C). Flying the helicopter in extreme temperatures will affect performance and may damage it.

Ready to Fly

1. Set your helicopter on a clear area of ground. Turn on the power switch and the indicator lights.
2. Step about 2 meters away making sure the helicopter's tail is aimed at you.
3. Be sure there are no obstructions, power lines, vehicles, animals or people nearby.
4. Extend the antenna to its full length and make sure the Ascend/Descend (accelerator) control stick (left stick on remote) is at its minimum position (down).
5. Turn on the remote controller. Move the Ascend/Descend (accelerator) control stick to full throttle (all the way up) and return to the minimum position. The indicator light will change to continuously on. This establishes the connection between the remote and the helicopter.
6. Now you can use the remote controller and prepare for taking off.

NOTICE:
If the remote controller power indicator is flashing after establishing a connection with the helicopter, the batteries are low on power and should be replaced. This will ensure maximum range of remote to helicopter and avoid sudden loss of control.

Control Method

Ascend	Push up the left stick (throttle, accelerator, Ascend/Descend), the rotational speed of the main rotor blade is increased and the helicopter begins to ascend.
Descend	Pull down the left stick (throttle, accelerator, Ascend/Descend), the rotational speed of the main rotor blade is decreased and the helicopter begins to descend.
Steering	Moving the right stick (Rudder control) to the left causes the nose of the helicopter to turn left. Moving the Rudder stick to the right causes the nose of the helicopter to turn right.
Forward	Push up the right stick (Rudder control) causes the helicopter's nose to go down and the helicopter to move in a forward direction.
Backward	Push down the right stick (Rudder control) causes the helicopter's nose to go up and the helicopter to move in a backward direction.
Leftward Flight	Moving the right stick (Rudder control) to the left causes the helicopter to fly left.
Rightward Flight	Moving the right stick (Rudder control) to the right causes the helicopter to fly right.

Controlling Spin

If the helicopter tends to spin in one direction more than the other and you are not using the Rudder control, there is a fine-turning knob at the top of the remote control (on the right above the Rudder control). Adjusting this knob a little one way or the other will reduce or eliminate the chaotic spinning and restore control to the helicopter. If this doesn't seem to work, power off the helicopter, power it back on, fly it and try fine tuning the Rudder control again.

Troubleshooting

Problem	Cause	Check This
Remote Controller doesn't work	Controller power switch is OFF	Turn the power switch ON
	Batteries inserted improperly	Check that the batteries are inserted according to their polarity (+, -)
	Weak batteries	Replace with new or freshly charged batteries
Cannot control the helicopter	You haven't operated the controller	Turn controller power switch "ON"
		Turn helicopter power switch "ON"
	Loses control in a short distance	Install antenna to controller and extend it to its full length.
	Loses control in the wind.	Do not play with the helicopter in significant winds (no more than 3 or 4 mph)
Helicopter cannot rise	Main rotor blades are rotating too slowly	Push up on the throttle stick (left)
	Helicopter battery is too weak	Make sure the helicopter battery is fully charged
Helicopter lands too fast	The throttle stick is pulled down too hard or fast	The throttle stick should be pulled down slowly to land the chopper smoothly
	Flying out of range of the remote control	Stay in range of the remote control (200 feet or 60 meters). This range is reduced with weak batteries in the remote.

CAUTIONS

- The control range of the helicopter will be reduced when the batteries are not fully charged or when weak batteries are used in the remote controller.
- When the helicopter batteries are not fully charged the helicopter will have trouble going up.
- If the helicopter becomes damaged, repair it before using it again otherwise it may lead to injury.
- If you don't use the remote controller for a long period of time, remove the batteries to avoid battery leakage that would damage the product.
- Don't allow the helicopter to drop from too high or crash it as this may damage the chopper seriously and shorten its usable life.
- Disconnect the battery cable when not using the helicopter. The battery should be kept between 3.7V to 4.1V in order to prolong its life.

SAFETY

After starting the helicopter, do not touch any moving or turning parts (i.e., blades, rotor, gears) as this may cause injury.

The motor is hot while in operation. Never touch it until it cools down.

WARNING

- This product is not a toy. Be sure that you can control and operate it safely. It is not suitable for children under 14 years of age.
- If you don't have experience controlling and operating the product, it is suggested that you learn it under the guidance of an experienced RC pilot. The manufacturer and dealer do not assume any responsibility for misuse of the product.
- Debugging and flight should be carried out strictly in accordance with the manual. Keep your hands, face, and body away from revolving parts.
- Be sure to fly the helicopter in a windless environment. Keep the moving parts away from other people and objects.
- When you are done flying, turn off the power switch.
- A lithium-polymer battery is included with this helicopter. Users are required to observe the operation instructions for lithium batteries to avoid accidents like fire, explosions, etc.
- Charge the product using the charging system provided with the helicopter and controller.
- Remove the charger from the power outlet when done charging the helicopter.
- Never charge the helicopter while it is unattended.
- Never place the lithium battery in direct sunlight or near fire. Never throw the battery into a fire. Be sure to keep the battery in a dry environment.
- Never transport the battery and metal objects together.
- Never disassemble the battery.
- Never touch the charger or power adapter with wet hands to avoid electric shock.
- While flying the helicopter, keep it away from other electrical equipment, magnetic objects, or radio devices so as to avoid accidents caused by interference with each other.

- When the battery indicator on the remote controller flashes, this indicates that the controller's batteries are weak and should be replaced.
- In the case of not operating, charging the lithium battery may cause fire, personal injury and property loss. Users should be aware of the existence of risk while using such products. It is impossible for the manufacturer, dealers, and retailers to take responsibility for the existence of accidents. Please read the instruction manual for battery usage and charging guidance before using the product.
- If you are not sure how to charge the battery, please consult local RC dealers for assistance.
- Keep the batteries away from children and pets. Users under the age of 18 should use the helicopter with adult supervision. This product is not suggested for use by users under the age of 14.

Parts List

Part-01 Main frame	Part-02 Head cover (body)	Part-03 Skids (landing gear)	Part-04 Main frame	Part-05 Motor cover
Part-06 Blade components - A	Part-07 Blade components - B	Part-08 PCB box	Part-09 Chopper tail unit module	Part-10 Gear set
Part-11 Gear A	Part-12 Li-poly battery	Part-13 Gear protection	Part-14 Tail support pipe	Part-15 Tail decoration
Part-16 Motor protection	Part-17 Charger	Part-18 Rear motor set	Part-19 Front motor set	Part-20 Remote controller antenna
Part-21 Remote Controller				