

User manual



Art.-Nr. 95000015RMHE

R/C Helicopter „Rocky Mountain“ RZ-903



Take note of all safety instructions in this manual before and during use of the helicopter!

In the case of damages which are caused due to failure to observe these operating instructions, the guarantee will expire. We do not assume any liability for resulting damage! Nor we do not assume any liability for damage to property or personal injury caused by improper use or the failure to observe the safety instructions.

This helicopter is no toy – and not suitable for persons under 14 years of age!

IMPORTANT NOTES

- This electrically driven model helicopter is only suitable for children older than 14 years. Please keep it away from infants and children to avoid that small pieces are swallowed.
- The unauthorized conversion and/or modification of the product is inadmissible because of safety and approval reasons (CE).
- Keep the helicopter away from excessive solar radiation, humidity, moisture or dust.
- The helicopter may only be used outdoor in case of good weather conditions and if there is no wind. The operating distance has to be observed. Otherwise you risk to lose control over the remote controlled model.
- For security reasons make sure that the fly area is far away from any obstacles. Any objects have to be kept away from the helicopter. Take care on your hands, hair or loose parts of your clothes.
- Ensure that there is not any equipment with the same frequency working to avoid interference.
- The operation and use of remote control model helicopters has to be learned. If you do not have sufficient knowledge yet as how to deal with remote-controlled models, please seek the advice of an experienced model sportsman or a model construction club.
- Store the packaging and this instruction of use carefully.

NOTE:

In some countries you must have a special private liability insurance for the operation of a model helicopter. Get some information whether the operation of a model is covered by your insurance. Taking out a private liability insurance is recommended.

Declaration of Conformity

CE The product „Rocky Mountain RZ-903“ complies with the essential requirements and regulations of the applicable guidelines of EC.

Disposal



At the end of its service life, dispose of the product according to the relevant statutory regulations.



You can return used batteries/rechargeable batteries free of charge to any collecting point in your local community or in a store. Disposing of them in the domestic waste is not permitted.

Information relevant to LiPo-rechargeable batteries



Important Safety Instructions

- **Avoid batteries/rechargeable batteries to be short-circuited** and keep it away from fire. There is danger of explosion! Observe correct polarity when inserting.
- Charge and store Lithium-Polymer-batteries only on **fire-proof support/ground**. Supervise the battery when it is charging.
- Leaking or damaged batteries/rechargeable batteries might cause acid burns when getting into contact with skin. Do not touch leaking batteries and use suitable protective gloves.
- Insert battery properly and avoid any damaging/deformation of the battery. Never damage the envelop of the Li/Po battery pack, do not tear the foil cover, do not prick into the battery with sharp objects. Danger of fire and explosion!
- Do not expose the battery to direct sunlight in heat locations or near stove to avoid explosion.
- In case of contact with leaking batteries, rinse with water and seek medical care!

- **Overloading:** Supervise charging and disconnect the battery pack from the charger when the battery pack is fully charged. Danger of fire!
- **Quick loading:** not possible.
- **Ambient Temperature:** 0°C bis +45°C. Charging of the Li-Po battery outside in winter time is restricted.
- **Storage:** After the flight or if the device is not use for a longer period of time, remove the batteries from the remote control and disconnect the battery pack from the helicopter. Recharge the Li-Po battery every month for about 20 minutes to avoid a total discharge, which makes the rechargeable batteries useless. Store the Li-Po battery always fully or at least partly charged! Do not use the Li-Po battery any more once totally discharged!

Technical Data

Rotor:	ca. 39,5 cm
Weight:	ca. 268 g
Lengths:	ca. 51 cm
Frequency:	27 MHz
Power supply:	LiPo 7,4 V 1000mAh (for about ca. 300 times)
Distance:	ca. 20 – 25 m
RC:	3 channel
Operation time:	ca. 9-12 min

Scope of Supply

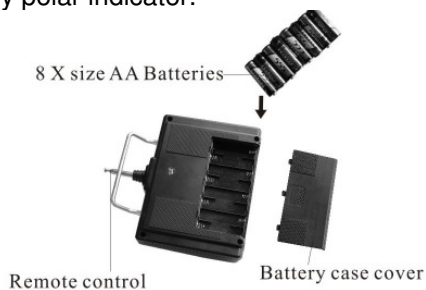
- Helicopter (+ 1 set main blades extra)
- Remote control
- LiPo Power Akku 7,4V 1000 mAh
- Adapter – operating voltage: 230 V
- User manual

(note: Batteries for the RC - 8 x AA are not included.)

Assembly of the Remote Control

- Install the antenna. Revolve it into the remote control clockwise.

- Install batteries (8 x AA). Open the cover of battery case; insert 8 batteries size AA properly followed by polar indicator.



Warning: Always exchange the full set of batteries and do not mix full batteries with half-full ones.
Do not mix rechargeable batteries with not rechargeable ones.

Loading of the Li-Po battery

- Never charge the flight battery included immediately after use in the condition of high temperature. Always leave the rechargeable battery cool for about 30 min. after use.
- Power connected, the power indicator light (green) is on, and the charging indicator light (red) is on.
- Insert correctly the plug of the battery into the charging box according to the required directions (do not force it into the charging box!) and then the red light is off (it means it is charging).
- The charging takes about 50 min. Before the first use the battery needs to be fully charged for about 2 hours!
- Turn off the power when the charging is completed (red light on).
- Supervise always the charging!

Before operation

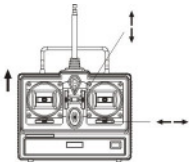
- Make sure that the Li-Po battery is fully charged and that the battery in the remote control has enough power.

- Fully pull out the controllers´ antenna.
- Pull the switch of transmitter downward, the LED should flash once; push the left throttle stick upward to the end and pull it downward to the end then the LED will be on.
- Connect the battery of the helicopter to the jack of circuit board (red wire to red wire), turn on the helicopters power switch; put in onto the open ground.
- Leave the controller to the helicopter at least 5 meters far away.
- Confirm that the flight area is free from any obstacles.

Flight

▪ Take-off

Move the left throttle stick up and the main rotors will start spinning. Adjust the direction stick so that the heli keeps balance and does not spin. Then adjust the forward and backward so that the tail rotor does not spin.



▪ Fly higher and descend

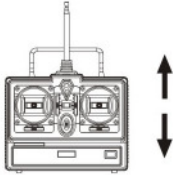
To gain altitude advance the throttle stick forward, to descend slowly move the stick backward (Do not move the throttle stick to the top or bottom suddenly)

▪ Change of direction

To turn the nose to the left (while the helicopter is facing away from you) move the right-hand stick to the left. Note: to turn the nose to the right (while the helicopter is facing away from you) move the right-hand stick to the right.

▪ Forward and backward

To make the helicopter flying forward or backward, move the right-hand stick forward or backward respectively.



▪ Landing

To descend the helicopter, move the throttle stick slowly backwards.

▪ Trimming the helicopter

Notice that there is a trim tab located below the right-hand control stick. First, it is used to trim the helicopter so that it hovers without any unwanted turning tendencies. If the nose tends to turn right move the trim tab to the left (and vice versa). Second, it is used to trim the speed of throttle stick.

Warning: The motor, the electronic module and battery can heat during operation. Therefore take a break of 20- 30 min before re-using the helicopter and re-charging the flight battery.

Trouble shooting

Problem	Cause	Solution
Remote Control does not work.	Controllers´ power switch is off.	Turn power switch on.
	Batteries are not inserted properly.	Confirm batteries to be inserted according to their pole.
	Batteries lack of power.	Install a new set of batteries.
Helicopter cannot be controlled.	Controllers´ power switch is off.	Put the power switch „on“ and move the throttle stick up and down once.
	Helicopter power switch	Turn helicopter power switch

	<p>is off.</p> <p>Antenna is not fixed correctly or not pulled out.</p> <p>You play the heli in strong winds weather.</p> <p>The indicator light of the controller flickers</p>	<p>on.</p> <p>Wrest antenna completely and pull it out.</p> <p>Do not fly outdoor when it is windy.</p> <p>Install a set of new batteries.</p>
Helicopter cannot rise.	<p>Main rotor blades rotate too slowly.</p> <p>The Li-Po battery is not charged sufficiently</p>	<p>Pull up the throttle stick.</p> <p>Fully charge the battery.</p>
Helicopter is landing too fast.	<p>You loose the throttle stick or pull it down too fast.</p>	<p>Slowly pull down the throttle stick until the heli is landing smoothly.</p>
Helicopter keeps turning in one direction		<p>Adjust the trim tab.</p>

Notice:

- The control distance will be shorter when the power is running out.
- When the power of the helicopter is not enough, the helicopter will launch difficultly or it can not fly high enough.
- If the helicopter became damaged, deformed, do not use it any more.
- If you do not use it for a longer time, please remove batteries out of remote control to avoid battery leakage.