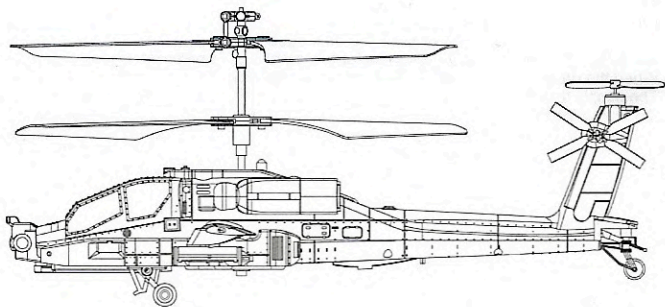


3 CHANNELS GYRO REMOTE CONTROL SERIES

S109H

3 CHANNELS HEIGHT HOLD HELICOPTER



USER MANUAL

MAIN FEATURES

- Solid body frame made from special crash resistant tough-plastic. Stable performance. Suitable for flying indoors.
- Built-in gyroscope for more accurate and stable performance.
- Modular design for easy upgrades and maintenance.
- Improved height hold stability.
- Improved auto take-off/landing function.

Notice: The company will not be held responsibly for any printing inconsistencies and may or not inform end users regarding any new potential updates. For further information, please visit the syma website.

Safety precautions

1. Please store the smaller-sized drone accessories in places that are out of reach of children.
2. This drone is very powerful. For all first-time flights, the left joystick must be slowly pushed up in order to prevent the drone from ascending too fast to avoid unnecessary collision and possible damage and injury.
3. When the flight is ended, first turn off the power of the remote control. Then turn off the power of the drone.
4. Avoid placing the batteries in places with high temperatures and exposure to heat.
5. Take extra precaution to ensure that the drone is at a minimum distance of 15 feet from the pilot, other people, and animals in order to prevent bodily injury during flight operation. A minimum separation distance of 20 cm must be maintained between the user's body and the device under normal use condition.
6. This drone is for people ages 12+. It must be flown always within the line of sight of the pilot (or instructor) and flown safely.
7. Non-rechargeable batteries are not to be recharged; Batteries are to be inserted with the correct polarity; Different types of batteries or new and used batteries are not to be mixed.
8. When the drone is not in use, please remove the batteries in the remote control.
9. The supply terminals are not to be short-circuited.
10. Discharge the battery to 40%-50% (On a full charge, fly for half of the total flight time) if it will not be used for 10 days or more, this can greatly extend the battery life.
11. Please keep a safe distance from the spinning propellers to avoid injury.
12. To ensure the electromagnetic environment requirement of the aviation radio (station), using remote controls in the zone, which is in a radius of about 5000m zone from the circle center of the airport runway, is forbidden. All users also should abide by the regulation of the radio set forth by government and regulatory agencies including the duration and area.
13. Only use the recommended transformer for the model, and the transformer is not a model. Disconnect the transformer from the model which is available cleaning with liquids before cleaning. Check the cord, plug, enclosure and other parts of the transformer regularly. If any damages have been discovered, please immediately stop using it, until it was completely repaired.
14. Never look steadily at the laser beam since the laser radiation.
15. Attention: Drone assembly under adult supervision.
16. The pilot is responsible for the safe operation and safe distance from uninvolved persons and property on the ground and from other airspace users and shall never fly the drone above crowds (> 12 persons).
17. Open the battery cover of the toy with screwdriver.
18. The packing has to be kept since it contains important information.
19. Do not touch the rotating rotor, avoid loose clothing or hair that could be caught in the rotor, do not fly near the face.
20. Advice to keep the instructions for use.

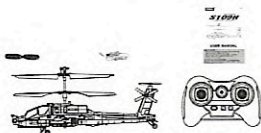
Repair and maintenance

1. Use dry and soft cloth to clean this product.
2. Avoid exposing this product to heat.
3. Do not immerse this product in water, otherwise, the electronic parts will be damaged.
4. Transformers used with the toy are to be regularly examined for damage to the cord, plug, enclosure and other parts, and that, in the event of such damage, the toys must be used with this transformer until the damage has been repaired.

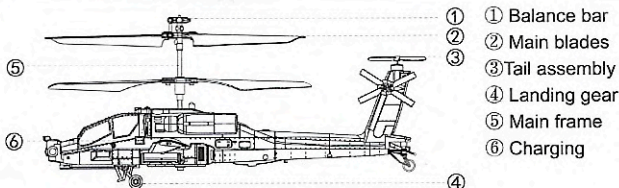
Box Contents

Items included:

- Helicopter x1
- Transmitter x1
- Tail motor blade x1
- User Manual x1
- USB Charging Cable x1

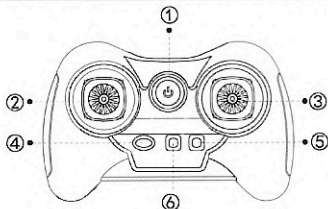


Aircraft components



- ① Balance bar
- ② Main blades
- ③ Tail assembly
- ④ Landing gear
- ⑤ Main frame
- ⑥ Charging

Remote control's button function description:



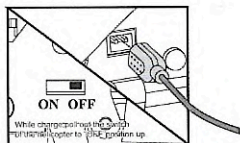
- ① Power switch
- ② Up/Down
- ③ Right stick
- ④ Auto take-off/Auto landing
- ⑤ Turn right trimmer
- ⑥ Turn left trimmer

Helicopter charging

Charging instructions:

switch off the helicopter (on/off switch is at the top of the helicopter); insert the charging cable into a USB port on your computer (the charging cable indicator light will turn on); connect the charging cable to the helicopter (the charging cable light will go off); the charging time is about 60 minutes; unplug the charger cable when the light turns on.

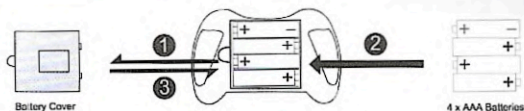
The charging time is about 60 minutes; flying time is about 9 minutes.
Note: Make sure helicopter power switch to OFF position when charging.



Precautions as follows during charging of battery:

- Avoid placing the active batteries in places with direct exposure, sunlight and high temperatures. For example, naked light or electrical equipment installations; otherwise it may cause damages or explosions.
- Avoid immersing the batteries in the water. The batteries shall be stored in a cool and dry place.
- Avoid dismantling the batteries.
- During the charging of battery, avoid leaving the charging place.
- Rechargeable batteries are to be removed from the toy before being charged.
- Rechargeable batteries are only to be charged under adult supervision.
- Exhausted batteries are to be removed from the toy.
- Caution: Risk of explosion if battery replaced by an incorrect type, dispose of used batteries according to the instructions.

Inserting the remote control batteries



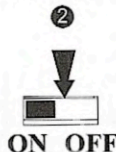
- * When installing the batteries, ensure that you match the + and - ends of the battery with the + and - signs on the controller.
- * Please do not use new and old batteries together.
- * Please do not use different types of batteries together.
- * Do not use rechargeable batteries.

Ready to fly your helicopter

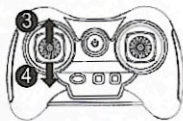
Press the power switch to turn on the transmitter.

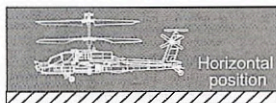


Turn on your helicopter.



After the helicopter indicator lights start flashing slowly, move the throttle stick to the highest position and then to the lowest position. The transmitter will emit long beep and the helicopter indicator lights will turn solid indicating successful pairing. The helicopter is ready for take-off.

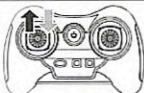




TIPS: When matching signal, keep the helicopter on horizontal position for faster matching and starting start a stable flight.

To start the helicopter

Method one



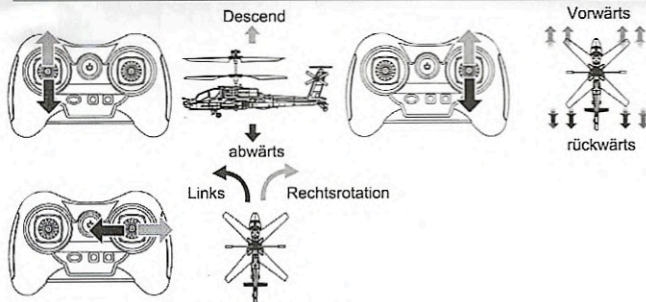
After starting the helicopter, pushing the left joystick to the highest point and then returning to the centre, the helicopter blades rotate slowly.

Method two

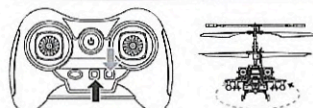


When the helicopter is at rest, press the one key button and the helicopter blades will automatically rise to a certain height after slowly rotating.

Using the remote control



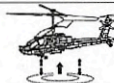
Helicopter Control Scheme



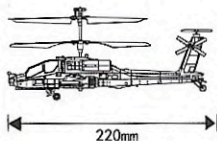
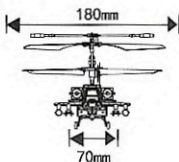
If helicopter rotates counter-clockwise ... Continually push right R/C calibration until excessive turning stops.
If helicopter rotates clockwise... Continually push right R/C calibration until excessive turning stops.

Height Hold

Use the left stick (throttle) to achieve the desired height and after allow the left stick to fall back to its default middle position.



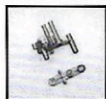
Main parameter



Body length:220mm
 Body width:70mm
 Body high:180mm
 Main blade diameter:95mm
 Main motor code: ϕ 7
 Battery:3.7V 150 mAh Li-poly

Spare parts

All the spare parts below can bought from local distributor.



Main frame



Upper frame



Lower frame



Decorate blade



Gear A



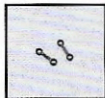
Gear B



Main blade



Tail lade



Connect buckle



Upper main blade grip set



Lower main blade connect set



Tail motor fixed block



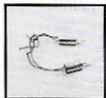
Inner shaft



Gear set



balance bar



Motor



Tail motor set



Circuit board



3.7V Li-Poly

Trouble shooting

Problem	Reason	Solution
The drone does not respond.	1. The drone has activated low voltage battery protection. 2. The transmitter's battery is low, the transmitter indicator light flashes. 3. The remote control channel can-not be paired with the helicopter's pairing code.	1. Recharge the drone's battery. 2. Change the transmitter's battery. 3. Adjust the remote control channel to make it match with the helicopter pairing code.
The transmitter sticks are not sensitive.	1. The transmitter battery is low. 2. There is another transmitter with the same frequency causing interference.	1. Change the transmitter's battery. 2. Please change flying location.

Warning: Changes or modifications to this unit not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

NOTE: This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications

However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

This device complies with FCC radiation exposure limits set forth for general population (uncontrolled exposure).

This device must not be collocated or operating in conjunction with any other antenna or transmitter."

Declaration of Conformity Inserts:

"Hereby, Guangdong Syma model aircraft Industrial co.,ltd, declares that this drone is in compliance with the essential requirements and other relevant provisions of Directive 2014/53/EU."

A copy of the full DoC is attached.

Manufacturer:

Guangdong Syma Model Aircraft Industrial Co., Ltd.

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Fax: +86 0754 86395098

Website: www.symatoys.com

Email: syma@symatoys.com

The company has the right of final interpretation of this user manual.