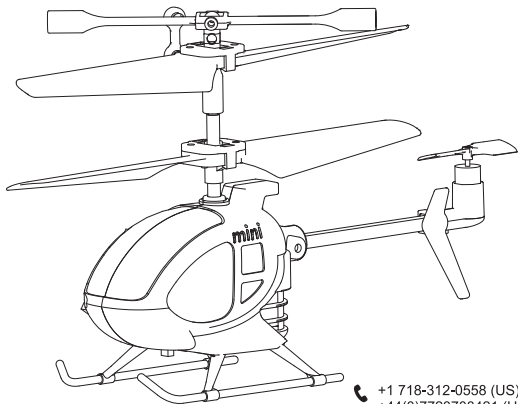


INSTRUCTIONS FOR USE

S100

3 CHANNEL REMOTE CONTROL HELICOPTER



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Helicopter Features

- Special Plastic frame for a good resistance to mill and stable flight. It is suitable for indoor flight
- A sophisticated built-in gyroscopic auto-stability system for smooth and stable flying.
- Model design structured, easy operation and maintenance.

All material, dimensions and spare parts included in this instruction are for reference only. The company is not responsible for any changes printed parts and notify consumer. Any updated or changed please refer to our website www.symatoys.com.

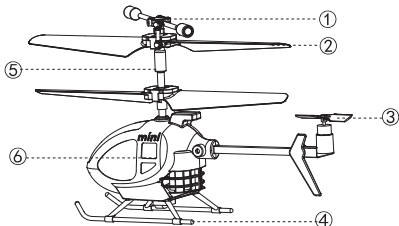
Safety precautions

1. Please store the smaller-sized helicopter accessories in places that are out of reach of children.
2. This helicopter is very powerful. For all first-time flights, the left joystick must be slowly pushed up in order to prevent the helicopter 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 helicopter.
4. Avoid placing the batteries in places with high temperatures and exposure to heat.
5. Take extra precaution to ensure that the helicopter 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. Children under the age of 8 must be instructed in the correct and safe operation of the aircraft by an adult.
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 be mixed.
8. When the helicopter is not in use, please remove the batteries in the remote control.
9. The supply terminals are not 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 uses the recommended transformer for the model, and the transformer is not toy. 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: helicopter 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 helicopter 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

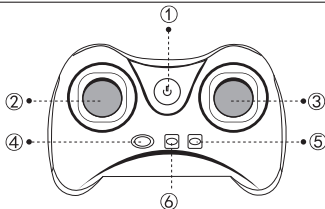
1. Use dry and soft cloth to clean this product.
2. Avoid exposing this product to heat.
3. Do not immerse this product in water, otherwise, the electronic parts will be damaged.
4. Transformers used with the toy are to be regularly examined for damage to the cord, plug, enclosure and other parts, and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

Aircraft components



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

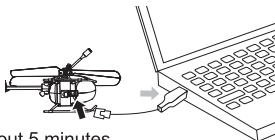
Remote control's button function description:



- ① Power switch
- ② Up/Down
- ③ Forward/Backward
Turn Left/Turn Right
- ④ Take-off/landing
- ⑤ Turn right trimmer
- ⑥ Turn left trimmer

Helicopter charging


Charging helicopter with USB: Take out the USB charging wire, connect the USB wire to the computer interface. then connect the other USB charging wire to the helicopter interface. During charging, the indicator of USB charging wire will be OFF. When it fully charged, the indicator will be ON.



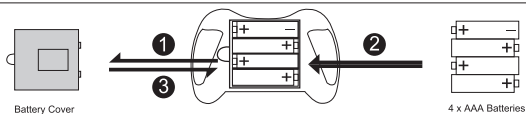
Charging time: about 25 minutes ;Flying time: about 5 minutes

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.
- Non-rechargeable batteries are not to be recharged;
- Batteries are only to be charged by adults or by children at least 8 years old.
- Caution: Risk of explosion if battery replaced by an incorrect type, dispose of used batteries according to the instructions.
- This toy is only to be connected to equipment bearing either of the following symbols: 

Inserting the remote control batteries



1. During the battery installation, it must be ensured that the polarities of the batteries are matched with that of the battery box. No battery shall be installed with the opposite polarity.



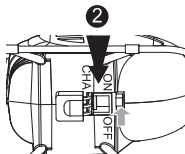
2. Please do not use new and old batteries together.
3. Please do not use different types of batteries together.
4. Do not use rechargeable batteries.

Ready to fly your helicopter

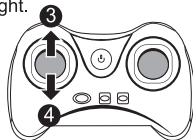
Press the power switch to turn on the transmitter.

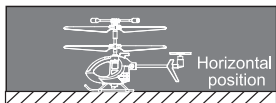


Turn on your helicopter.



Transmitter indicator blinks for about 10-20 seconds to match signal. When finish matching, it keeps light on. please push the left lever backwards to ready flight.





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

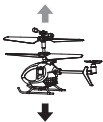


When the helicopter is at rest, press the one key button and the helicopter blades will automatically rise to a certain height after slowly rotating.

Flight control



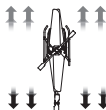
Ascend



Descend



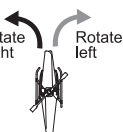
Move backwards



Move forwards

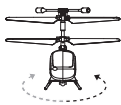


Rotate right



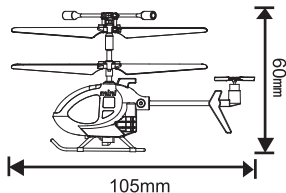
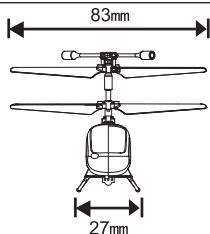
Rotate left

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.

Main parameter



Brand Name: SYMA
Model/ITEM NO.: S100
·helicopter

Length 105mm
Width 27mm
Height 60mm
Motor ϕ 6
Battery 3.7V 70mAh
Charging time about 25 mins
Charging mode USB balance charging cable

·Remote control
Operating frequency 2.4Ghz
Range 15m
Battery AAA batteries

Maxmium radio-frequency power transmitted <10 dBm. Frequency range: 2408-2478MHz

Made in China
FCC ID: QV7-GC88752-45

Spare parts

All the spare parts below can bought from local distributor.



Headcover



Main blades



Balance bar



Main frame



Motor A



Motor B



Tail assembly



Battery



Receiver board



USB charger cable



Transmitter

Trouble shooting

Problem	Reason	Solution
No response from the helicopter	1. Insufficient power with the helicopter. 2. Insufficient power with the transmitter, power indicator keeps flashing.	1. Please charge to the helicopter. 2. Replace the battery inside the transmitter.
If the helicopter is slow to respond or difficult to manoeuvre	1. Insufficient power with the transmitter. 2. Transmitter of the same frequency is used nearby.	1. Replace the battery. 2. Use the helicopter out of the range of other RC helicopters.

- (1) Remove and insert the battery correctly;
- (2) Non-rechargeable batteries are not to be recharged;
- (3) Batteries are only to be charged by adults or by children at least 8 years old.
- (4) Different types of batteries or new and used batteries are not to be mixed;
- (5) Batteries are to be inserted with the correct polarity;
- (6) Exhausted batteries are to be removed from the toy;
- (7) The supply terminals are not to be short-circuited.

BATTERY WARNING:

1. Failure to follow all the instructions may result in serious injury, irreparable damage to the battery and may cause a fire, smoke or explosion.
2. Always check the battery's condition before charging or using it.
3. Replace the battery if it has been dropped, or in case of odor, overheating, discolouration, deformation or leakage.
4. Use only the supplied charging cable.
5. The battery temperature must never exceed 60 °C (140 °F) otherwise the battery could be damaged or ignite.
6. Never charge on a flammable surface, near flammable products or inside a vehicle (preferably place the battery in a non-flammable and nonconductive container).
7. Never leave the battery unattended during the charging process. Never disassemble or modify the housing's wiring, or puncture the cells. Always ensure that the charger output voltage corresponds to the voltage of the battery. Do not short circuit the batteries.
8. Never expose the battery to moisture or direct sunlight, or store it in a place where temperatures could exceed 60 °C (RC helicopter in the sun, for example)
9. Always keep it out of reach of children.
10. Improper battery use may result in a fire, explosion or other hazard.
11. Non-rechargeable batteries are not to be recharged. Rechargeable batteries are only to be charged under adult supervision.
12. Different types of batteries or new and used batteries are not to be mixed.
13. Batteries are to be inserted with the correct polarity.
14. The supply terminals are not to be short-circuited. Regular examination of transformer or battery charger for any damage to their cord, plug, enclosure and other parts and they must not be used until the damage has been repaired.
15. The packaging has to be kept since it contains important information.

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 the radio equipment type RC helicopter is in compliance with Directive 2014/53/EU.

The full text of the EU declaration of conformity is available at the following internet address: <http://www.symatoys.com/down/declaration-of-conformity.html>

Contact Us

Please do not hesitate to contact us if you need more further support

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Industrial Park, Chenghai District, Shantou City, Guangdong Province, China,
Postal Code: 515800
Website: www.symatoys.com
Email: usa@symatoys.com/eu@symatoys.com

SYMA is a trademark of Guangdong Syma Model Aircraft Industrial Co., Ltd.
registered in the United States and/or other countries.



THE COMPANY HAS THE RIGHT OF FINAL INTERPRETATION OF THIS USER
MANUAL

WARRANTY



LIMITED 2-YEAR WARRANTY AND FREE LIMITED REPLACEMENT PARTS FOR 2 YEARS

Symatoys.com.cn warrants to the original buyer only that its products will be free from defects in material and workmanship for 2 years from the date upon which the product is shipped, either directly from symatoys.com.cn or from an Authorized Re-seller's location, to the buyer.

The following condition's must to be eligible for warranty coverage:

1. During the warranty period product is used as intended by the manufacturer.
2. The Product has not been disassembled or modified.
3. The labels and serial numbers show no signs of tampering or altering.
- 4. Buyer has a warranty code obtained by registering their product online prior to making a claim.**

EXCEPTIONS: THE LIMITED WARRANTY SHALL NOT APPLY TO:

- Damage caused by normal wear and tear
- Accident, negligence, abuse, misuse, misapplication or willful damage by buyer (or its agents), or acts of nature
- Crash or burning caused by non-manufacturing factors
- Damage caused by authorized modification or disassembly not authorized by the instruction manual
- Damage, caused by incorrect use or operation
- Damage caused by mismatch or misuse of battery or charger
- Failure of the operator to follow the operating instruction or use outside the products operating parameters
- Damage caused by operating the product in or around electromagnetic interference (i.e., radio transmitting tower, high-voltage wire, substation, etc.)
- Damage caused by operating the product where there may be interference caused by other wireless devices
- Operating the product with load capacity in excess of the sale weight listed in the manual
- Operating the product with aged, damaged or unauthenticated third-party components
- Operating the product with a defective battery

WARRANTY

PROCEDURE: Any claims for breach of the foregoing limited warranty shall only be valid if buyer makes such claim in writing within 2 year of the date of shipment of the product to which the claim. To make a warranty claim, please email warranty@symatoys.com.cn with your full name, address, phone number, order number, vehicle type, part type and purchase date and product issue.

LIMITED REMEDY: Symatoys.com.cn's sole liability, and buyer's sole remedy for any breach of the foregoing warranty shall be at symatoys.com.cn's option to exchange the product with a new product or a refurbished product that is functionally equivalent to the original product, or issue a credit or refund to the purchase price the product. Any replaced products shall be warranted as set forth herein, provided that the period within which buyer may make further claims shall be limited to the remainder of the original period for the applicable product or 2 years, whichever is longer (although the warranty period shall be suspended during any period of replacement)

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ANY COSTS OF RECOVERING OR REPRODUCING ANY DATA STORED IN OR USED WITH THE PRODUCT OR ANY FAILURE TO MAINTAIN THE CONFIDENTIALITY OF INFORMATION STORED THE PRODUCT.

Some states do not allow the exclusion or limitation of incidental or consequential damages, so the above limitation or exclusion may not apply to you. In addition, some states do not allow limitations on how long an implied warranty lasts, so the above limitation may not apply to you.

FREE REPLACEMENT PARTS FOR 2 YEARS:

Symatoys.com.cn shall also make available any spare part needed for registered vehicles free of charge for 2 years from the date of purchase, with the exception of batteries, motors, circuit boards and transmitters. Shipping charges may apply Limit one part type request per registered vehicle (e.g., registrants are entitled to one extra set of batteries per registered vehicle). To request spare parts, please email warranty@symatoys.com.cn with your warranty code, vehicle name/model, current shipping address, purchase date and part type

**GET YOUR WARRANTY CODE AT symatoys.com.cn/pages/warranty-signup
HAVE YOUR ORDER NUMBER AND/OR VEHICLE UPC READY**