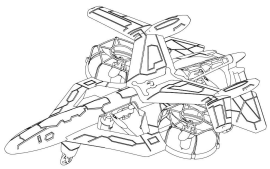
8+

SYMA

P01 2.4G Aircraft

2.4GHz Remote Control Aircraft



Accreditation standard: GB/T26701-2011

The materials, specifications, parts and packaging mentioned in this manual are for reference purposes only. We are not responsible for any changes made to this printed material, nor are we able to inform customers of any updates or changes. Please refer to the SYMA Toys website for the latest information.

Important safety information

Thank you for purchasing this SYMA item. To ensure that you operate the aircraft correctly, please read these instructions carefully before first use and store them in a safe place for future reference.

Safety Information:

Conditions to be observed when using P01:

- The P01 Aircraft should be used with caution as skill is required to control the flight and avoid collisions with the user, objects, or third parties. Users should be aware of their surroundings and fly the drone responsibly.
- Keep the smaller-sized accessories out of reach of children.
- Children must be supervised by an adult when operating the aircraft. The aircraft should always remain within the line of sight of the pilot (or instructor).
- This aircraft can move quickly. When flying for the first time, push left joystick up slowly to prevent the aircraft from ascending too rapidly and causing damage or collisions.
- When the quadcopter is airborne, it should be kept at least 2-3m away from the pilot and other people to avoid the risk of a collision.
- Maintain a safe distance from the spinning propellers! Do not fly near the face. Do not touch the rotating propellers, avoid loose clothing or hair that can be caught in the propellers.
- In order to prevent interference with air traffic control systems, it is forbidden to use remote controls within a 5,000m radius of an airport runway (calculated from the centre of the runway). Always comply with remote control restriction orders issued by national authorities. Battery safety and maintenance:
- Do not recharge non-rechargeable batteries. When installing or changing the batteries, ensure that they are connected in the correct polarity. Do not mix old and new batteries or different types of batteries.
- Do not short circuit the battery terminals.
- You must only use the transformer included with P01 for charging the drone battery. The transformer is not part of the drone itself. Before cleaning the drone or battery, ensure the battery is first removed from the drone and disconnected from the transformer or charger.
- Regularly inspect the transformer wires, plug socket, outer casing, and other accessories for any signs of damage. If any damage is found, discontinue use immediately until the fault has been repaired.
- Do not store the battery in a hot environment (e.g. near open flames or a heating device).
- When the flight has ended, switch off the remote control before switching off the power on the aircraft.
- After use, ensure that the quadcopter and remote control are switched off and remove the batteries in the remote control.
- If you do not plan to use the quadcopter for at least 10 days, discharge the battery to 40%-50% (i.e. if the battery is fully charged, fly the quadcopter for half of the total flight time). This helps to prolong the lifespan of the battery.
- This toy contains batteries that are non-replaceable.
- The instruction manual contains important

Repair and maintenance:

- Clean the drone with a clean, soft cloth.
- Avoid exposing the drone or battery to direct sunlight or heat.
- Do not submerge the drone or battery in water, as this may damage the electrical components.
- Regularly inspect the propellers, motor and battery. If there are any signs of damage, discontinue use immediately until the fault has been repaired.

About this product

Specifications

- Aircraft:

Weight Aircraft	Approx. 45 g
Specifications	228x146x66 mm
Flight range	Approx. 30 m
Flight time	Approx. 8 mins
Motor	$\varnothing$7
Battery	3.7 V, 500 mAh
Battery Charging time	Approx. 70 min

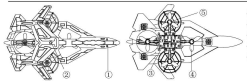
- Remote control:

Operating frequency	2.4 GHz
Operating temperature	0°C to 40°C

- Package contents:

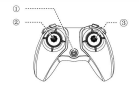
Aircraft	1
Remote control	1
USB charging cable	1
User manual	1

Aircraft components

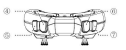


① Fuselage
② Power switch
③ Battery
④ Blade
⑤ Motor

Remote control components

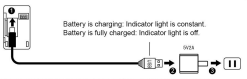


① Power switch
② Left joystick
(Press and hold for trimming adjustments and release when finished, to clear trimming settings, press and hold simultaneously with the power button)
③ Right joystick
(short press to toggle between high and low speed mode)



④ Rotate button
⑤ Spin button
⑥ Flip button
⑦ One-touch take-off/landing

Charging the aircraft battery



Battery is charging: Indicator light is constant.
Battery is fully charged: Indicator light is off.

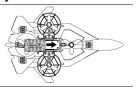
* Charge the quadcopter with the USB charging cable that came with the product.
* Using adapters with a lower rated current will result in a longer charging time.

* The toy is only to be connected to Class II equipment bearing the symbol

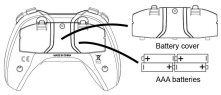
* Do not short circuit or compress the battery, as this may cause an explosion.
* Do not disassembling the battery or store it in a hot environment.
* If you do not plan to use the aircraft for at least 10 days, discharge the battery to 40%-50%. This helps to prolong the lifespan of the battery.
* Rechargeable batteries should be removed from the aircraft before charging charged.
* Rechargeable batteries should only be charged under the supervision of adults and keep away from flammable materials.
* Exhausted batteries should be removed from the aircraft.
* Caution: Risk of explosion if battery is replaced with incorrect ones, please install the batteries according to the instructions.

Installation of Aircraft Battery

Insert the fully charged battery into the battery compartment at the bottom of the aircraft.



Inserting the remote control batteries:

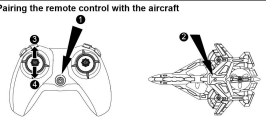


To insert the controller batteries, open the battery cover on the back of the remote control and insert 4 x AAA alkaline batteries, ensuring that you observe the polarity markings (batteries are not included and must be purchased separately).

1. When installing the batteries, ensure that you match the + and - ends of the battery with the + and - signs inside the battery compartment.
2. Do not mix old and new batteries.
3. Do not mix different types of batteries.

Flight preparation, Taking off and Landing

Pairing the remote control with the aircraft



1. Press the power button on the remote control.
2. Press the power button on the quadcopter.
3. Move the left joystick up to the highest point.
4. Move the left joystick down to the lowest point.

After moving the left joystick up and down, the lights on the drone will stop flashing. When the lights stop flashing, the drone and remote control are paired.

Taking Off / Starting Flight

Method one: Method two: Method three:

Push to the top and then return to the central position | Pull the joysticks in a "V" shape towards the button | Press this button for auto-take-off

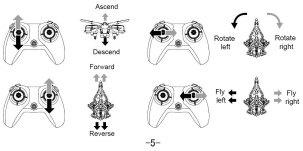
Note: 1. If the aircraft is flown out of range from the remote control, the aircraft indicator lights will start to flash and the aircraft will land.
2. If the remote control suddenly turns off or runs out of power during flight, the aircraft will automatically land. If the remote control is turned back on during this process, you will be able to regain control of the drone.

Landing / Ending Flight

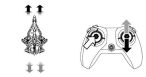
Method one: Method two: Method three:

Pull to the bottom for 2-3 seconds | Pull the joysticks in Press the ascend/descends a "V" shape towards the button | Press this button for auto-landing

Using the remote control



Trimming



Trimming forwards and backwards

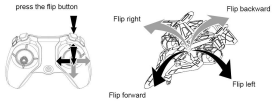
If the aircraft drifts forwards or backwards when it is hovering, press the left joystick in and push the right joystick down/up until the aircraft stops drifting.

Trimming left and right

If the aircraft drifts to the left or right when it is hovering, press the left joystick in and push the right joystick right/left until the aircraft stops drifting.

Stunt maneuvers

Forward and backward \ left and right side flips

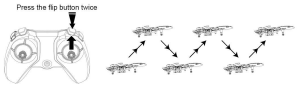


Press the flip button on the remote control, push the right joystick forward, backward or left, right, and the aircraft will flip in the corresponding direction.

Bunny Hops

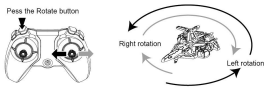
Quickly press the roll button on the remote control twice ("beep, beep"), then push the right control stick upward. The aircraft will leap forward three times in flight.

Press the flip button twice



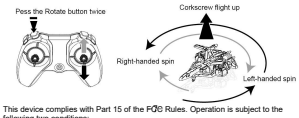
Spin In Place

Press the rotation button on the remote control ("beep"), and move the right control stick left or right. The aircraft will rotate once in the selected direction.



Ascending descending corkscrew flight

Press the rotation button on the remote control ("beep, beep"), and push the right control stick up or down. The aircraft will rise or fall while rotating left or right accordingly.



Circular Flight

Press the spin button ("beep") and move the right control stick left or right. The aircraft will circle in the chosen direction.

Expanding Spiral Flight

Quickly press the spin button twice ("beep, beep") and move the right control stick left or right. The aircraft will perform a spiral rotation flight in the chosen direction.

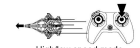
Function Introduction

Low-Voltage Protection:
When the four indicator lights at the bottom of the drone start flashing, it means drone's battery power is low. When this happens, bring the aircraft back to land.

Overcurrent protection
If the aircraft's blades collide with another object or become stuck, the aircraft's circuit will engage the overcurrent protection mechanism.

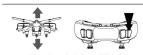
Level calibration

Place the aircraft on a level surface and move the left and right joysticks to the lower right corner for approximately 3 seconds. The indicator will flash rapidly and then stay constant to indicate that the calibration process is complete.



High/low speed mode

Briefly press the right joystick to switch between high and low speed mode.
1. Low speed mode is enabled by default when the aircraft is switched on.
2. The remote control beeps twice when high speed mode is enabled and once when low speed mode is enabled.

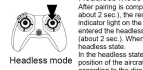


One-touch take-off/landing

1. When the aircraft is in standby, press the take-off button to make the aircraft take off automatically and hover at a height of 1.5 m.
2. When the quadcopter is in the air, press the one-touch take-off/landing button to make the aircraft land automatically.

Auto-Hover:

When you release the left joystick (throttle) after ascending/descending, the quadcopter will continue to hover at the current height.



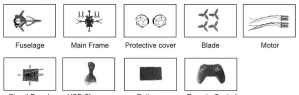
Headless mode

Headless mode
After pairing is completed, press and hold the right joystick (for about 2 sec.), the remote controller will beep twice, and the indicator light on the aircraft will flash slowly, indicating that it has entered the headless state; press and hold the right joystick again (about 2 sec.). When you hear a long beep, you will exit the headless state.
In the headless state, the controller does not need to identify the position of the aircraft's nose, but only needs to control the aircraft according to the direction of the joystick of the remote control.

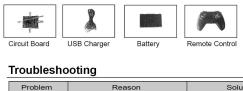
Headless State Correction:
In the event that the aircraft has a collision and the fixed head direction becomes deviated, simply re-orient the aircraft by simultaneously moving the left and right joysticks to the lower left position.
Once completed, the indicator lights on the aircraft will flash slowly for 3 seconds and then emit a long light, indicating successful calibration.

Accessories (available separately)

The following section contains a list of optional accessories that are available to purchase. Accessories can be purchased from your local retailer. Please indicate your preferred colour when making your purchase.



Fuselage | Main Frame | Protective cover | Blade | Motor



Circuit Board | USB Charger | Battery | Remote Control

Troubleshooting

Problem	Reason	Solution
The drone has no response	1. The drone has entered into low-voltage protection. 2. When the power of the remote control is weak, the power light indicator will blink.	1. Charge up the drone. 2. Change the batteries in the remote control.
The flight response of the drone is not sensitive	1. The power of the remote control is weak. 2. There is an interference with the same frequency as that of the remote control.	1. Change the batteries. 2. Move to a place where there is no interference with the same frequency.
The drone is drifting towards one direction while hovering	The drone is not calibrated level to the ground.	Re-adjust the calibration until the drone is level to the ground. For further details, see "level calibration" on page 8.
In the headless state, it is biased towards the front direction	Many collisions may cause head drift.	Re-define the front direction. For further details, see "Headless State Correction" on page 10.
The drone does not hover properly. The drone keeps moving up & down.	1. The drone is not calibrated level to the ground. 2. The air pressure is unstable due to poor weather conditions. 3. Violent collision corrupted the gyroscope settings.	1. Re-adjust the calibration until the drone is level to the ground. For further details, see "level calibration" on page 8. 2. Avoid flying in poor weather. 3. Make level adjustment again, see "level calibration" on page 8.

This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions:
(1) This device may not cause harmful interference, and
(2) this device must accept any interference received, including interference that may cause undesired operation.

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."

RF frequency band :2410-2470MHZ
Transmitter power : -12.14dBm (Max.)
Sold to EU country
product name: [Drone]
model number: [P01]
Brand name :SYMA
Contact person: Ivan
Tel:+86-0754-86381701

Hereby, [GUANGDONG SYMA MODEL AIRCRAFT INDUSTRIAL CO., LTD], declares that this [aircraft] is in compliance with Directive 2014/53/EU.The full test of the EU declaration of conformity is available at the following internet address:
http://www.symatoys.com/down/declaration-of-conformity.html
SIMPLIFIED EU DECLARATION OF CONFORMITY

Manufacturer:
Guangdong SYMA Model Aircraft Industrial Co., Ltd.
Address: 2 West Xingye Rd, Laimei Industrial Area, Chenghai, Shantou, China
Postal Code: 515800
Sales department: +86 0754 86980668
After-sales service: +86 0754 86395095
Fax: +86 0754 86395098
Website: www.symatoys.com
Email: syma@symatoys.com

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