



Important safety information

Thank you for purchasing this SYMA product. 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 Guide

- Adult or experienced RC pilot's supervision is recommended for children.
- Rechargeable batteries are to be removed from the toy before being charged.
- Batteries are to be inserted with the correct polarity.
- Rechargeable batteries are only to be charged under adult supervision.
- Non-rechargeable batteries should not be recharged. Batteries should be inserted with a correct polarity. Different types of batteries, new or used batteries should not be mixing.
- Turn off the drone/transmitter and remove the batteries when not in use.
- The supply terminals are not to be short-circuited.
- Keep away from the rotating blades (rotating blades may cause bodily injuries, or damage to property).
- Attention: please assemble the aircraft with the guidance of adults.
- Do not look directly into the LED lights of the drone as it can damage your eyes.
- Exhausted batteries are to be removed from the aircraft.
- Please store the smaller-sized drone accessories in places that are out of reach of children.
- 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.
- When the flight is ended, first turn off the power of the remote control. Then turn off the power of the drone.
- Avoid placing the batteries in places with high temperatures and exposure to heat.
- Please keep a safe distance from the spinning propellers to avoid injury.
- 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 aviation and area.
- Pay attention to keeping distance of 2.5 meters from the user or other people when the aircraft is flying, avoid the aircraft landing to hit the head, face or body of another person.
- Attention: Drone assembly under adult supervision.
- The packing has to be kept since it contains important information.

Repair and maintenance

- Use clean and soft cloth to clean the product.
- Keep away the product from heat sources.
- Avoid water exposure to this product. Moisture may cause damages of the aircraft electronic parts.
- Transformers used with the aircraft should be examined regularly such as the front-end plug and other parts. In case of any irregularity is found, please stop using it unless it is repaired or replaced.

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About this product

Specifications

Aircraft weight	185 g (Not included Propeller protector)
Aircraft size	335x335x78 mm (Install Propeller protector)
Range	350 m
Altitude	100 m
Image transmission range	300 m
Flight time	Hovering indoors for 19 minutes
Operating conditions	0°C to 40°C
Video transmission frequency	5 GHz
Motor	8520
Battery	7.6 V 1300 mAh
Charging time	About 3 hours

Remote control

Operating frequency	2.4 GHz
Range	350 m
Operating conditions	0°C to 40°C

Package contents

Aircraft	1
Remote control	1
USB charging cable	2
Clockwise/anticlockwise propellers	2
Propeller protectors	4
Instructions	1

Download the SYMA AIR app and watch the video tutorial

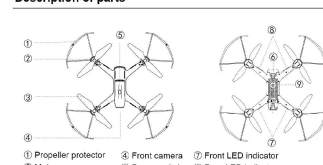
Installing the SYMA AIR app
Scan the QR code with your mobile device or download the app from your app store.



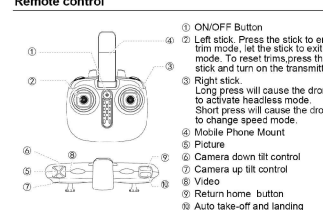
* Note: For best results, use a device with iOS 8.0/Android 5.0 or later.

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Description of parts



Remote control



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Assembling the product

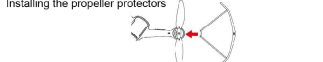
Installing the propellers

Clockwise propellers

Anticlockwise propellers

- Attach the propellers as shown in the diagrams above. Ensure that they are attached in the correct orientation.
- Ensure that the clockwise and anticlockwise propellers are attached to the correct arms. The aircraft will not fly correctly if the propellers are attached in the wrong position.
- The propellers are made from a delicate material. Pay attention when attaching them to the aircraft.
- Only use propellers that are supplied by the manufacturer.
- The propellers are consumable parts. If necessary, purchase replacements from the manufacturer.

Installing the propeller protectors



Inserting a memory card (optional accessory)

- To install the mobile phone mount, insert it into the mobile phone mount slot at the top of the transmitter.
- To adjust to phone holder to the required size, use phone holder mount's clips.
- To remove the mobile phone mount, pull it up from the back of the transmitter.

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Turning the aircraft off

- Method one: Push to the bottom for 2-3 seconds.
- Method two: Pull the joystick in a V shape.
- Method three: Press the ascend/descend button.

* The aircraft will switch off automatically if its angle of inclination exceeds 90 degrees.

Using the remote control

- Rotate right, Rotate left, Ascend, Descend, Move backwards, Move forwards, Tilt left, Tilt right.
- When the aircraft battery is low, the aircraft will automatically return to the take-off position. During the return flight, you can use the joystick to control the aircraft ascend, descend and move left/right in order to avoid obstacles.
- If the aircraft is further than 20 m from the landing position, the return flight cannot be terminated.
- If the aircraft is less than 20 m from the landing position, the return flight can be terminated.
- Landing position: The initial unlock/take-off position.

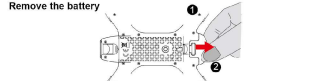
Smart app features

- GPS tracking, One key to return, Circle flight, Flight plan, Waypoint flight, Human tracking, Palm control, Optical flow positioning, Take-off/landing, M/F features.
- Before using the smart app features, watch the video tutorial in the SYMA AIR app or on the SYMA website.
- Ensure that you pre-configure the flight altitude and distance in the SYMA AIR app.

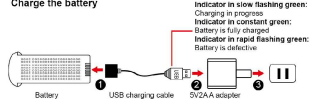
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Charging the aircraft battery

Remove the battery



Charge the battery



- Charge the aircraft with the USB charging cable that came with the product.
- The battery will take longer to charge when you use an adapter with a smaller rated current.

Insert the battery



- Do not short circuit or compress the battery, as this may cause an explosion.
- Do not disassemble 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 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 insert the batteries according to the instructions.

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Flight modes

- Optical flow positioning: Front indicator is constant white, rear indicator is constant yellow.
- If the rear indicator starts to flash rapidly, this indicates that the optical signal is weak and the aircraft cannot determine its position.
- Performance may be impaired in dark surroundings, areas with reflective surfaces (e.g. water), or at altitudes of more than 5 m.
- Optical flow positioning only supports altitudes of less than 5 m.

GPS

- GPS mode: Front indicator is constant white, rear indicator is constant green.
- When the battery level is normal, the aircraft can fly to a distance of 350 m at a maximum altitude of 100 m.
- When the battery level is low, the aircraft can fly to a distance of 20 m at a maximum altitude of 20 m.
- If the rear indicator starts to flash rapidly, this indicates that the GPS signal is weak and the aircraft cannot determine its position.
- GPS mode cannot be used indoors.

Headless mode

- The indicator on the aircraft will flash once every 4 seconds.
- Configuring the forwards direction: When you switch on the aircraft for the first time, the direction in which the front side of the aircraft is pointing will be set as the forwards direction.
- Enabling headless mode: 1. After pairing the remote control with the aircraft, hold down the right joystick for approximately 3 seconds. The remote control will beep 8 times to indicate that headless mode is enabled. 2. To disable headless mode, hold down the right joystick again for approximately 3 seconds.
- In headless mode, you do not need to determine the aircraft's orientation. You can move the joystick on the remote control to make the aircraft move in the corresponding direction.

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Understanding the aircraft LED indicators

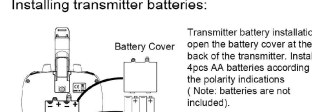
No.	Indicator status	Meaning
1	Front indicator = constant white, rear indicator = constant yellow	Optical flow positioning
2	Front indicator = constant white, rear indicator = constant green	GPS mode
3	Front and rear indicators flash once every 4 seconds	Headless mode
4	Front and rear indicators flash twice every 1.5 seconds	Recording in progress
5	Front and rear indicators flash rapidly	Pairing or level calibration in progress
6	Front and rear indicators flash twice every second	Low battery
7	Front and rear indicators flash once every second	Signal lost
8	Front indicator = constant, rear indicator = flashing slowly	GPS fault
9	Front indicator = constant, rear indicator = flashing rapidly	Poor GPS reception

Troubleshooting

Problem	Cause	Cause Solution
The aircraft does not respond.	1. Under-voltage protection was enabled. The remote control battery level is low.	1. Charge the aircraft battery.
The aircraft's response is intermittent.	2. The remote control batteries are nearly empty.	2. Change the batteries.
The aircraft does not take off.	3. There is interference from a remote control on the same frequency.	3. Move to a different area where there is no interference.
The aircraft does not take off.	4. The aircraft is not calibrated level to the ground.	4. Calibrate the aircraft.
The aircraft does not fly in a forward direction in headless mode.	5. The aircraft was involved in a collision.	5. Reconfigure the forwards direction.
The aircraft does not hover.	6. The aircraft is not calibrated level to the air pressure is unstable due to poor weather conditions.	6. Calibrate the aircraft.
The aircraft does not take off.	7. A violent current completed the gimbal's operation.	7. Calibrate the aircraft.

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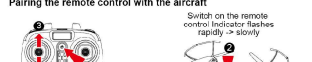
Installing transmitter batteries:



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

Flight preparation and turning the aircraft on/off

Pairing the remote control with the aircraft



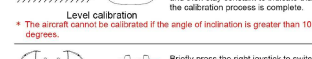
- When you switch on the remote control, the indicator will flash rapidly for approximately 20 seconds to indicate that the remote control is waiting for a signal. The indicator will then flash slowly to indicate that pairing mode has been disabled.

Level calibration

- The aircraft cannot be calibrated if the angle of inclination is greater than 10 degrees.



- 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.



- Briefly press the right joystick to switch between high and low speed mode. The indicator on the aircraft will flash to indicate that a photo is taken.
- 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.

- 1. When the drone is under standby mode, Press the take-off/landing button to make the aircraft take off automatically and hover at a height of 1.5 m.
- 2. When the aircraft is under active mode, it will automatically land on ground if you press the one key landing.

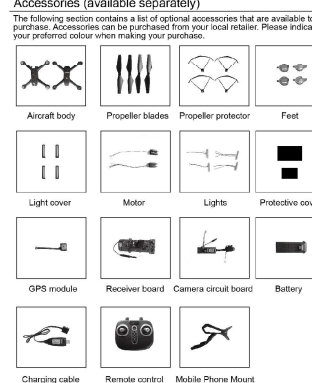


- 1. Take a photo: Press the photo button. The indicator on the aircraft will flash to indicate that a photo is taken.
- 2. Record video: Press the record button. The indicator on the aircraft will flash to indicate that recording is in progress. Press the record button again to stop the recording. The indicator on the aircraft will turn on to indicate that recording is complete.

- 1. Take a photo: Position your hand approximately 1.5 m away from the front lens and hold the (A) hand gesture for 2 seconds.
- 2. Record video: Position your hand approximately 1.5 m away from the front lens and hold the (A) hand gesture for 3 seconds.

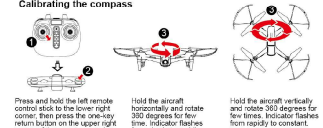
Accessories (available separately)

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.



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Calibrating the compass



- Do not calibrate the compass near strong electromagnetic fields or large pieces of metal, e.g. magnetic car parks or buildings with underground steel reinforcements.
- When holding the aircraft horizontally, the angle of inclination must not exceed 30 degrees.

Returning for safety

- The rear indicator will change from orange to green when the aircraft has locked on to a satellite and recorded the take-off location. The aircraft is now ready to fly.

- It should take approximately one minute for the aircraft to lock on to a satellite. If the aircraft fails to find a satellite, recalibrate the compass.
- Before take-off, place the aircraft in an open space away from obstacles and ensure that GPS mode is enabled.
- When the rear green indicator flashes rapidly, this indicates that the GPS signal is weak. If this occurs, land the aircraft manually and restart the satellite search.

Turning the aircraft on

- Method one: Pull the joystick in a V shape.
- Method two: Push to the top and then return to the central position.
- Method three: Press the ascend/descend button.



- Photo and video recording gestures cannot be used when the bottom camera is on.
- The camera may accidentally take a photo or start a video recording if there are surrounding objects that resemble the (A) or (B) gestures.
- If there is no memory card in the aircraft, photos and video recordings will be saved to your phone.
- If there is a memory card inserted in the aircraft, photos and video recordings will be saved to the memory card and your phone.
- The aircraft supports memory cards with a capacity of up to 64 GB.

Return to home function

- If the aircraft is flying at an altitude less than 20 m, it will automatically ascend to an altitude of 20 m before returning home.
- If the remote control signal is lost for more than 20 seconds, the aircraft will automatically return to the take-off position. If the signal is restored during the return flight, you can hold the return to home button to terminate the return flight.

- The aircraft cannot automatically avoid obstacles during the return flight.
- The automatic return to home function is not available when the GPS signal is weak (flashing red indicator).
- If the aircraft does not receive a GPS signal and lost contact with the remote control for more than 20 seconds, it will not be able to return to home but will land automatically.

No signal

- If the remote control signal is lost for more than 20 seconds, the aircraft will automatically return to the take-off position. If the signal is restored during the return flight, you can hold the return to home button to terminate the return flight.

Automatic return due to low battery

- If the aircraft is further than 20 m from the landing position, the return flight cannot be terminated.
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For DRONE:

This equipment complies with FCC radiation exposure limits set forth for an uncontrolled environment. This equipment should be installed and operated with minimum distance 20cm between the radiator & your body.