SYMA X23W 4 Channel Pressure Fixed Position Hovering Remote Control Drone User Manual

SYMA®
RADIO-CONTROLLED PRODUCT
X23W GYRO REMOTE CONTROL SERIES 2.4G

4-CHANNEL PRESSURE FIXED POSITION HOVERING REMOTE CONTROL DRONE USER MANUAL

Contents

MAIN FEATURES

- Utilizes the 4-axis structure, enabling the drone to be even more flexible, speedy.|t can fly indoor.
- Built-in 6-axis gyro stabilizer to ensure accurate positioning in-flight.
- The structure uses a modular design which makes it easy to install and repair.
- Headless function making it easy for directional control.
- 360° stunt flip.
- Pressure-fixed-position hovering function for Auto Hover Mode.
- Auto take-off and landing.
- HD real-time transmission aerial for getting the fun of different photography.

safety Guide

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 or 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 8+. 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 uses 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 discov ered, 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. The packing has to be kept since it contains important information.

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.

Package Description

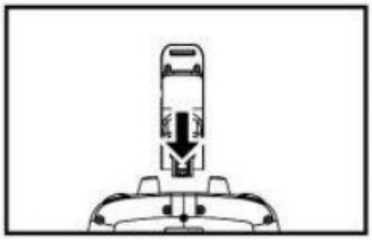
The following items can be found in this product package:

- Drone
- Remote Control
- Instruction Manual
- Main Blades
- USB Charging Cable
- Mobile Phone
- Retaining Clip

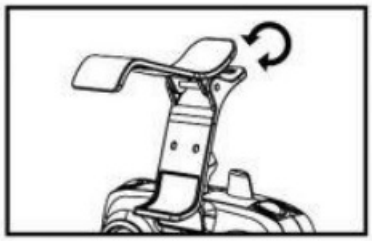
phone Clip attachment/Removal Method

Phone clip holder installation:

1. Insert the phone clip holder into the connector at the top of the remote control.

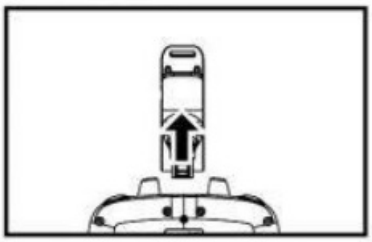


2. Press the handles to adjust the jaws.



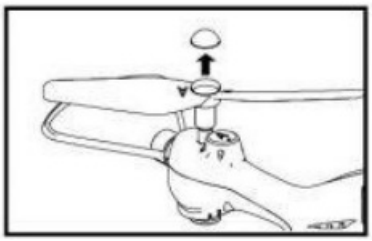
Phone clip holder removal:

2. Hold the elastic accessory lock on the back of the phone clip and pull it out.

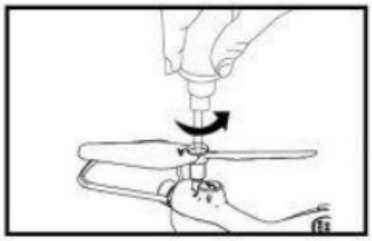


RE-INSTALLING THE BLADES

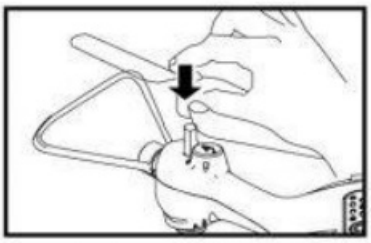
1. Pull out the blade decor cap.



2. Remove the screws before re-installing the blades.



3. A labeled blades fit on the A labele motors. B labeled blades fit on the B labeled motors. Use the screws to tighten the blades. Refer to the inage.



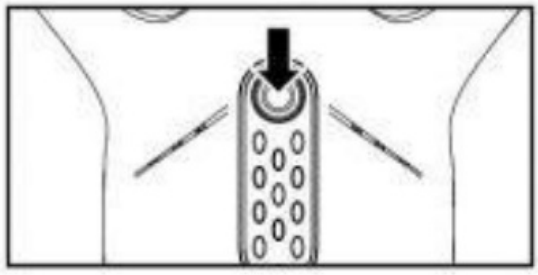
WARNING: precautions to be observed such as “Do not touch the rotating rotor, avoid loose clothing or hair that

could be caught in the rotor, do not fly near the faces.

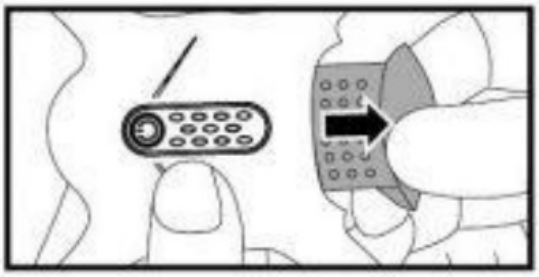
Battery Changing And Charging Methods For Drone

Battery changing methods for drone

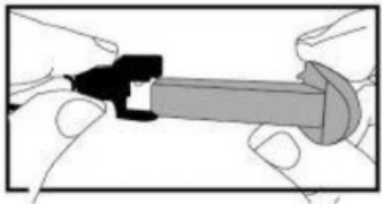
1. Press the power button on the top of the drone to 1-2S make sure the drone is turned “OFF”.



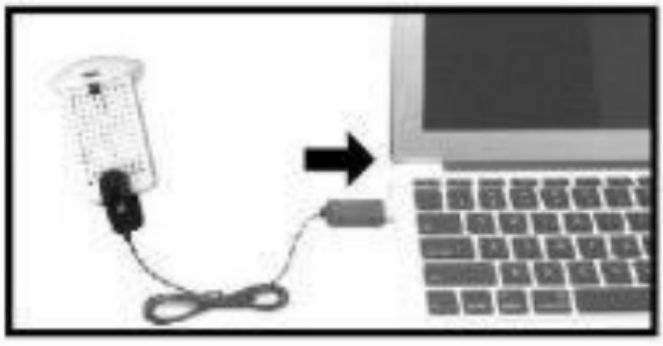
2. Press the flexible accessory latch on the battery and pull it backwards



3. Align the charging head of the USB charging cable with the charging port of the battery



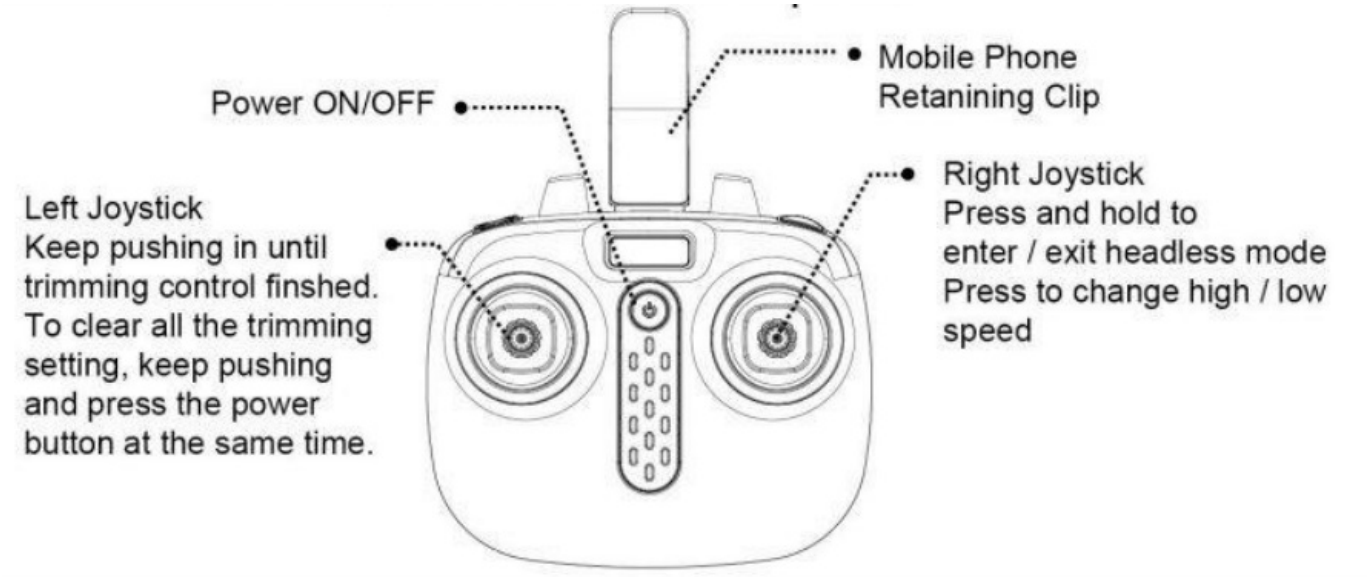
Battery charging methods for drone

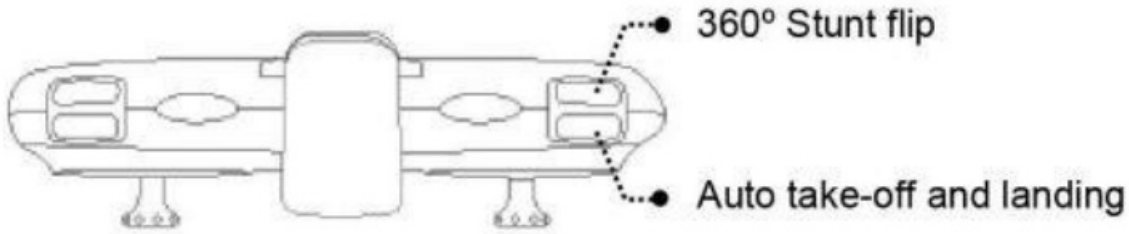


Connect the battery cord to the USB. then connect the USB interface to the computer. (The indicator light of the drone will Savane turn on while charging,and turn off when charging completed. om Sesaemy it takes about 130 minutes to completely charge the battery.)

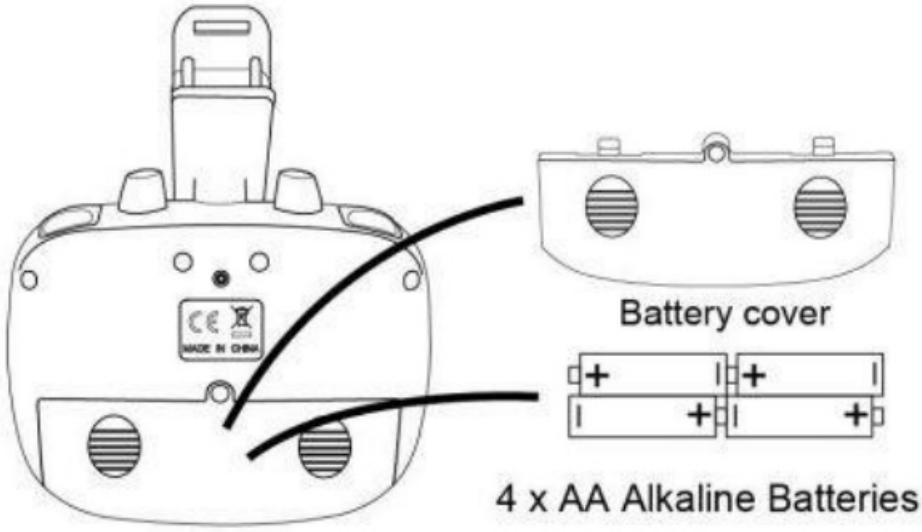
The charging time is about 130 minutes; Hover flight time is approximately 7 minutes.

Remote control’s button function description:





Battery installation for remote control:



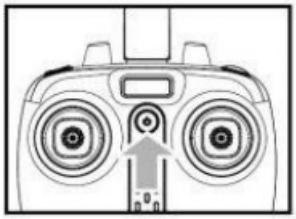
1. Battery Installation Method: Open up the battery cover at the back of the remote control. Correctly place 4 x AA alkaline batteries in the battery box in strict adherence to the polarity instructions (the AA alkaline batteries are not included).

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. Do not use new and old batteries together.
3. Different types of batteries are not be mixed.

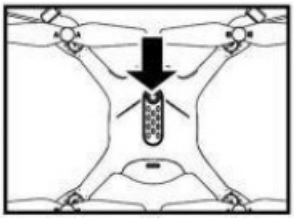
4. Do not use rechargeable batteries.

Flight Preparation And Switching The Drone On And Off

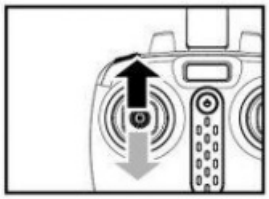
1. Flight Preparation



Step 1: Press the power button of the remote control.



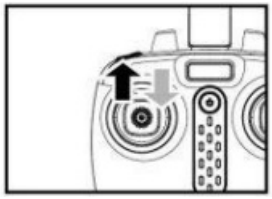
Step 2: Press the power button on the top of the drqne to 1-2“S m?ke sure the drone is turned “ON””.



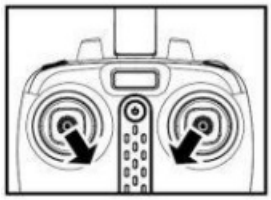
Step 3: Push the left joystick (accelerator) up to the a |. highest point and then push down to the i m.. lowest point. When the led indicator lights in the drone change from quick flashing toViel continuous light, it means that the drone goes – into the flight standby mode.

2. Turning on the drone

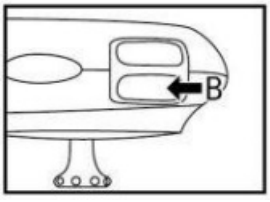
Method 1:Push the left joystick (throttle) to the highest point and then back to the center, the blades of the drone start rotating slowly.



Method 2:Push the left and right joysticks to the bottom inner corners for second, the blades of the drone start rotating slowly.



Method 3: When the drone is stationary,press the B button, the drone automatically takes off and hovers at a certain height.

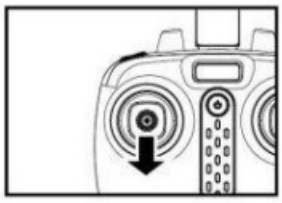


1. If the drone is out of the range of the flight, the indicator light will flash slowly, and then slow down.

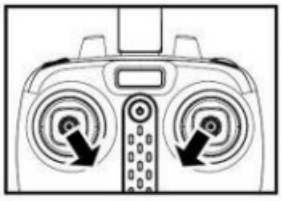
2.When the remote control is switched off or the power is cut off, the drone will automatically slow down to stopin the process , open the remote control to control again.

3. Turning off the drone

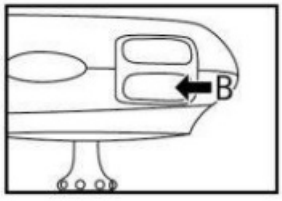
Method 1:Push the left joystick (throttle) to the lowest level and hold for 2 to 3 seconds, the drone can then be turned off.



Method 2:Push the left and right joysticks to/tha boliom innergcorjneyrs for 1 second, and the drone can be turned off.

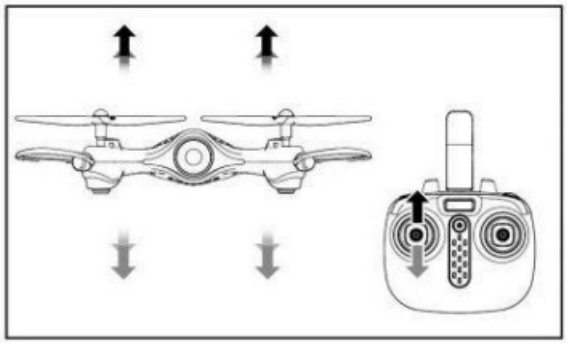


Method 3: When the drone is in flight, press button B, the drone will descend to the ground and lands.



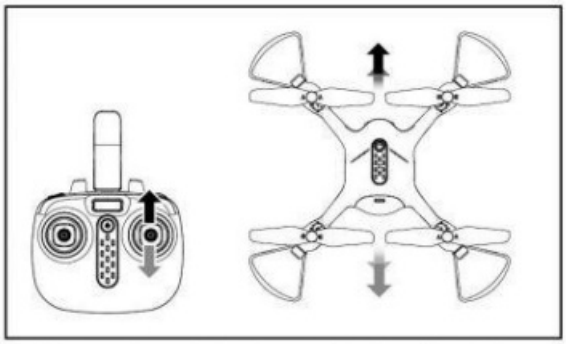
Drone Controlling Diagram

Operating direction
Ascending and descending control



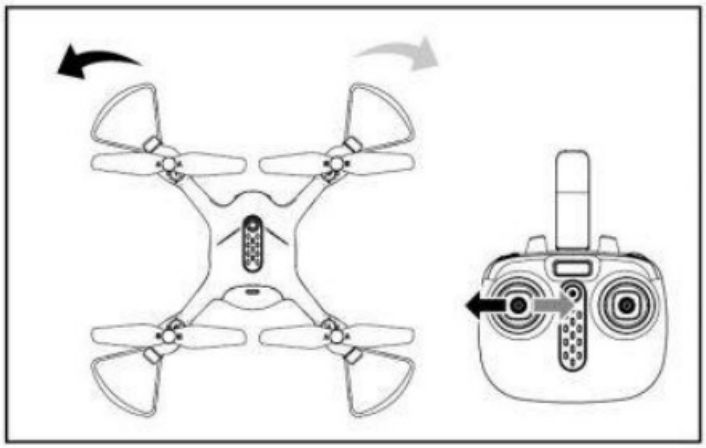
When the left joystick (throttle) is pushed upwards or downwards, the drone will ascend or descend correspondingly.

Left turning and right turning control



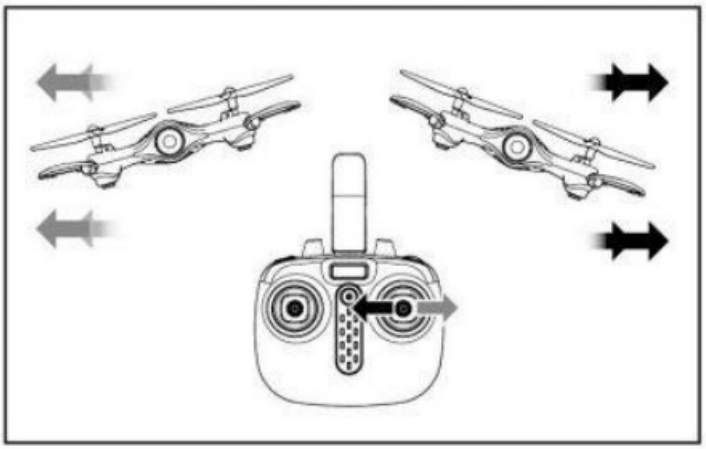
When the right joystick (rudder) is pushed upwards or downwards, the drone will fly forward or backward correspondingly.

Left side flying and right side flying control

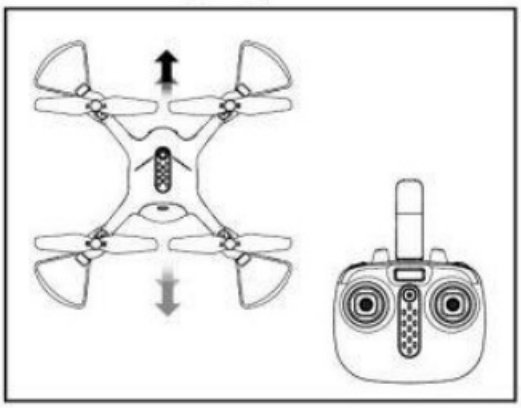


When the left joystick (throttle) is pushed towards the left or right, the drone will turn left or right correspondingly.

When the right joystick (rudder) is pushed towards the left or right, the drone will fly sideways on the left or right correspondingly.



Trimming operation

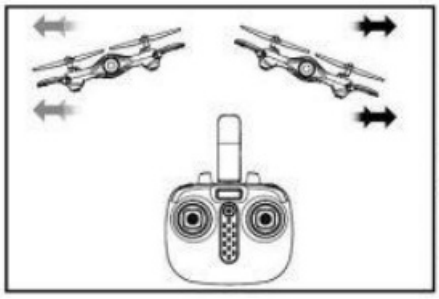


Forward and backward trim control

if the drone automatically flies forward/backward while hovering, press in the left joystick and at the same time push the right joystick backward/forward slightly to fine tune the direction. Don't release the left joystick until the drone is flying in a stable state.

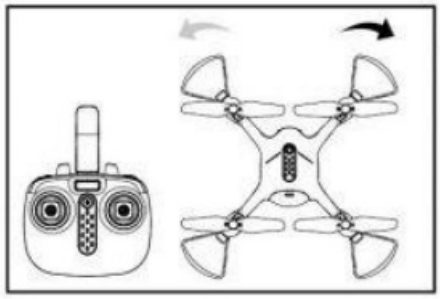
Left/right side fight trim control

If the drone automatically flies towards the left/right side while hovering, press in the left joystick and at the same 'ere time push the right joystick right/left slightly to fine tune the . s direction. Don't release the left joystick until the drone is flying in a stable state.



Left/right side turning trim control

If the drone automatically rotates and flies towards the left/right side while hovering, press in the left joystick and at the same time move it to the right/left slightly to fine ore So My tune the direction. Don't release the left joystick until the drone is flying in a stable state.



Product features

1. Low-voltage protection:

   When the four indicator lights at the bottom of drone Start flashing, it means that the drone's battery power is Re low. At this time, please control the drone return.

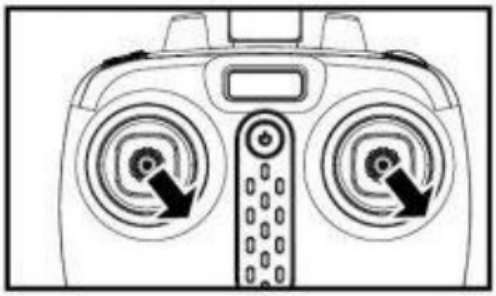
2. Over-Current Protection:

   When the drone encounters direct impact from a foreign object, or is obstructed, or the blades are not rotating, the drone will go into the over-current protection mode.

3. Level Calibration Function:

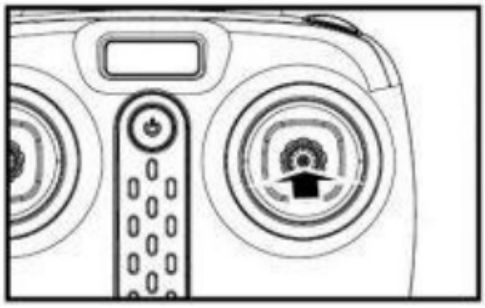
   Place the drone on a level surface and at the same time, push both left and right joysticks to the lower right SN

corners for 2 to 3 seconds; the indicator lights on the drone will blink rapidly, and they will return to solid Status after about 2 to 3 seconds. The level calibration is po ot ae successful.



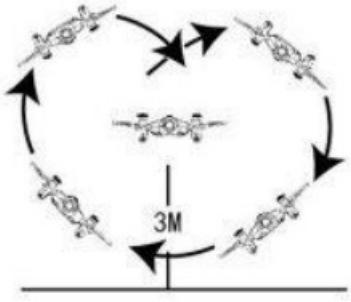
4. High/Low Speed Function:

   Low speed by default when first powered-on. Possible to switch the function mode of high/low speed by pressing the right joystick for a short time. It is switched into high speed mode when two “beep” sounds come from the) remote control, pressing the right joystick for a short time pe 19 under fast speed mode and then one “beep” sound would come from the remote control,then it is switched back into low speed mode.



5. 360° Stunt Flip Function:

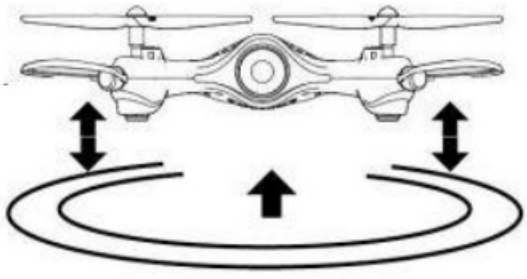
   When you are familiar with the basic actions, you can – proceed to explore even more exciting stunt actions. Fly the drone to a height of 3M above the ground, push the upper right corner button (Stunt Flip Button) on the remote control and imultaneously push the right joystick to the farthest “a l oh position of Front/Back/Left/Right, the drone will now execute 7 aime ae the Front/Back/Left/Right stunt flip action.



   Note: Drone will have the best stunt flip action when the batteries are fully charged.

6. Auto Hover Function:

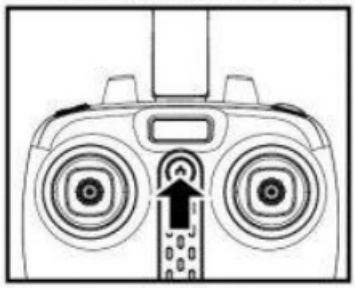
   After using the left joystick (throttle) to control the ascending/descending flight of the drone, release the left joystick (throttle) and the drone will hover at that height when the joystick is released.



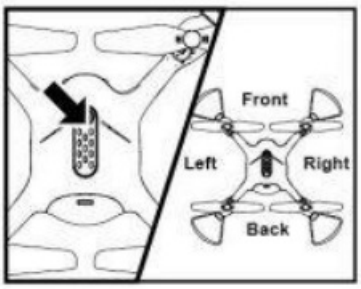
7. Headless function:

   A. Defining forward direction:

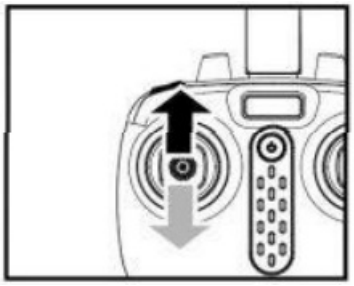
a. Press on the power button of the remote control.



b. Press the power button on the top of the drone to make sure the drone is turned“ON”, and adjust the J en fe ay specified direction of the drone’s head under the headless mode as the new forward direction.

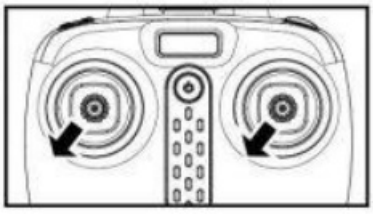


c. Push the left joystick (throttle) on the remote control eS up to the farthest position and then pull down to the Now farthest position. When the remote control issues a long beep sound, it means the frequency and defining forward direction functions are completed.



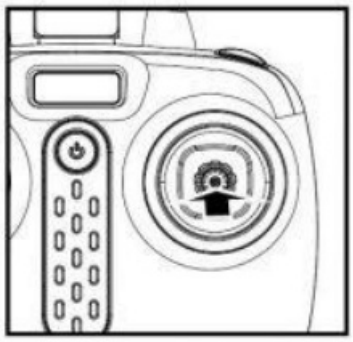
B. Calibration for the definition of the front:

a. When the drone encounters a direct impact with foreign objects in the headless mode, if there is an occurrence of deviation of the defined direction, it is only required to push both the left and right joysticks to the bottom left corners simultaneously after placing the flying direction of the drone in the correction position. When the led light indicator of the drone is in a long “ON” mode after slowly flashing for 3 seconds, it indicates the calibration is complete.

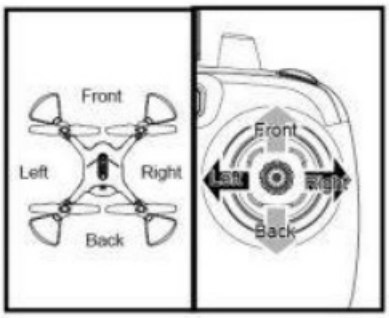


C. Toggling between headless function and normal function:

1. After the drone is matched with the corresponding frequency, the drone would be in normal pattern by default. At this time the indicator light on the drone would be in a state of eee on for a long time. After pressing in on the right joystick of the remote control for 2 seconds, the remote control would make sound of “beep, beep, beep” to show that it has entered into a state of headless mode.Pressing in on right joystick for 2 he seconds then a long sound of “beep” would be heard to show an exit status.(When under the state of headless mode, four indicator lights on the drone are led lights which flicker once every four seconds)



2. Under the headless mode, the operator does not need to differentiate the head position of the drone, and only needs to control the drone's direction front/back/left/right by using the right joystick direction on the remote control.



8. Wireless real-time transmission funtion

1. Downloading the installation software For Android phones,download and install the SYMA GO APP by visiting the **www.symatoys.com** or by scanning the QR code.

For 10S Apple phones,download and install the SYMA GO APP by visiting the App Store or by scanning the QR code.

Reminder: QR codes are provided on the packaging box and at the bottom of the user manual. Please visit website **www.symatoys.com** or the App Store/Google Play to obtain the newest SYMA GO App.

2.HOW tO COnneCt

1.Connect the model to its power source, the camera indicator light should turn green. Within 10 seconds, the light will flash slowly and the camera will be waitting for a connection with a smartphone.

2.At this time, enter the "Settings" option on yOL!'I' phone, an?llifn on WLAN. In Fhe WLAN search list, look for a netvyork callgd FPV and connect to it. Once connection has been established, exit the "Settings" option.

3.0pen the SYMA GO App, click the "START" icon to enter the control interface.

A full bar in the WiFi signal strenght icon indicates the strongest possible signal.

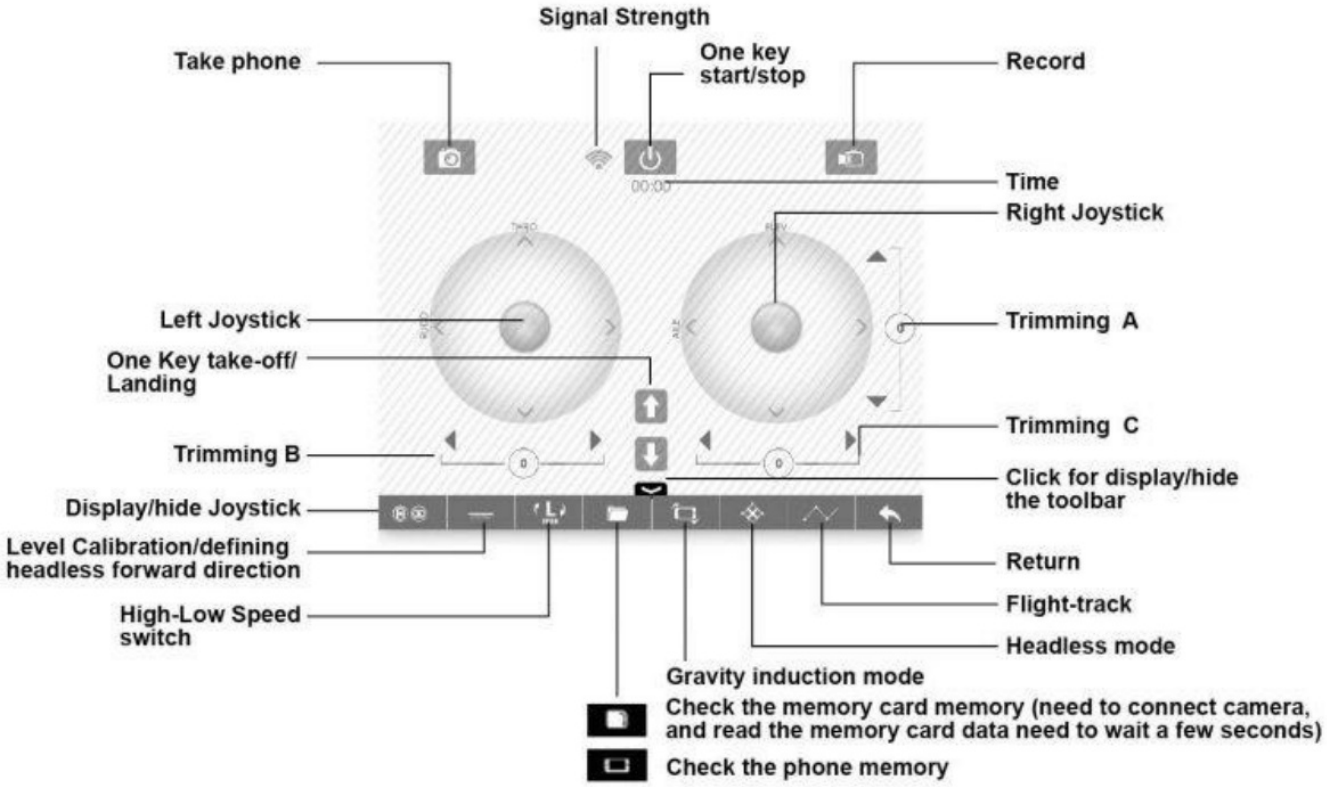
1. Open up SYMA GO APP.

2. Click the "START" icon, the system .willlemer the APP operation interface automatically.

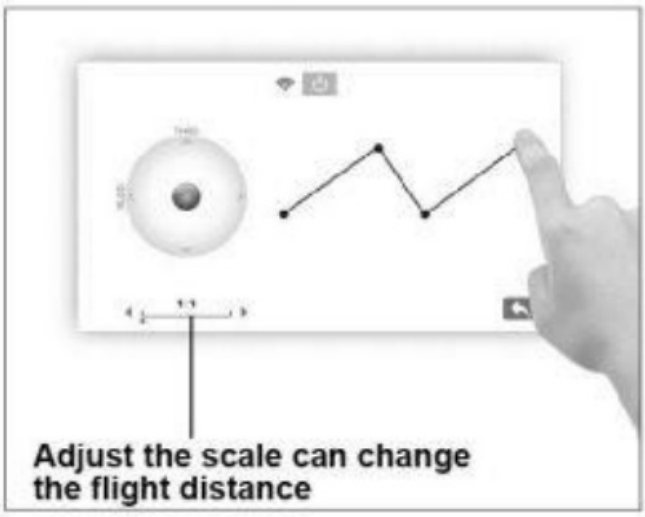
3. The phone’s screen yvill display real-time Images.

3. Interface icon instructions

Mobile APP control interface



Flight-track operation interface



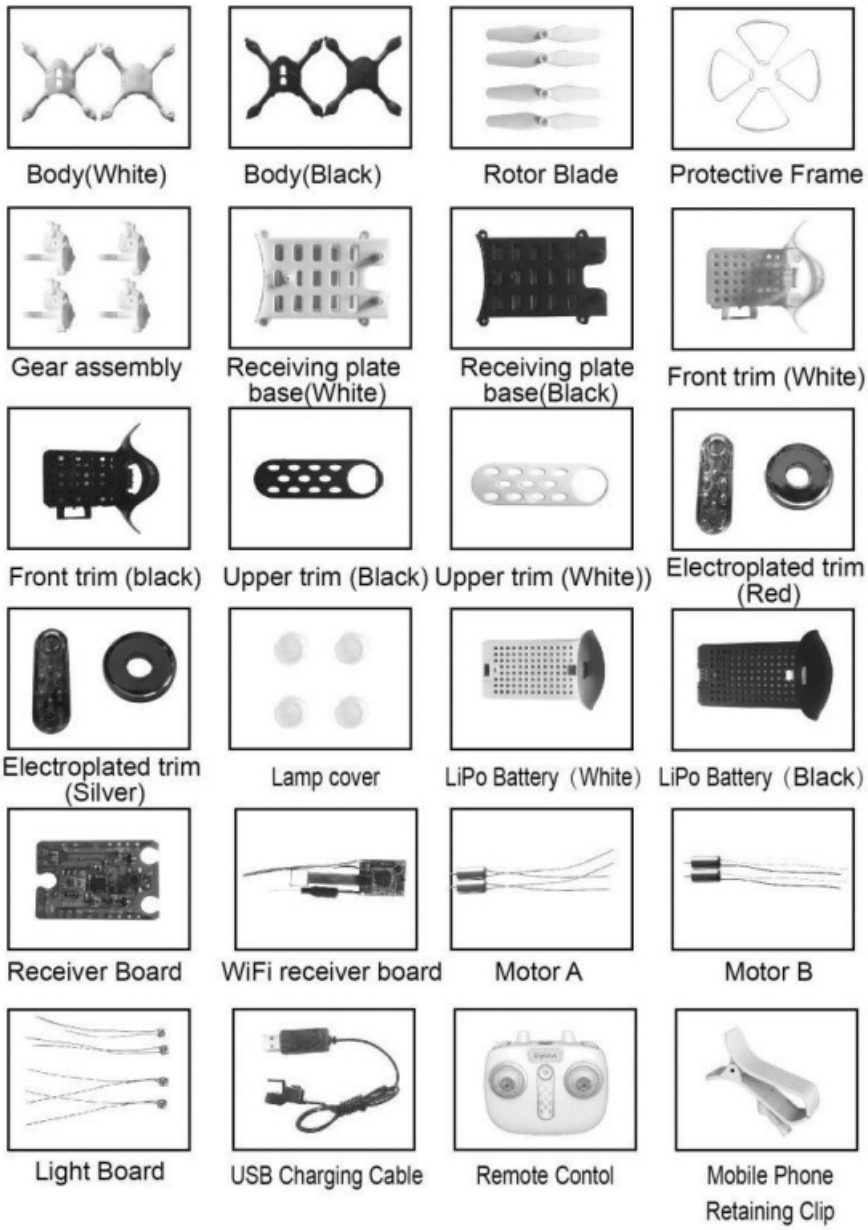
Press the flight-track button to enter into the flight-track interface, and the air vehicle will flight in accordanne with recorded route.

4. Real-time aerial photography uploading:

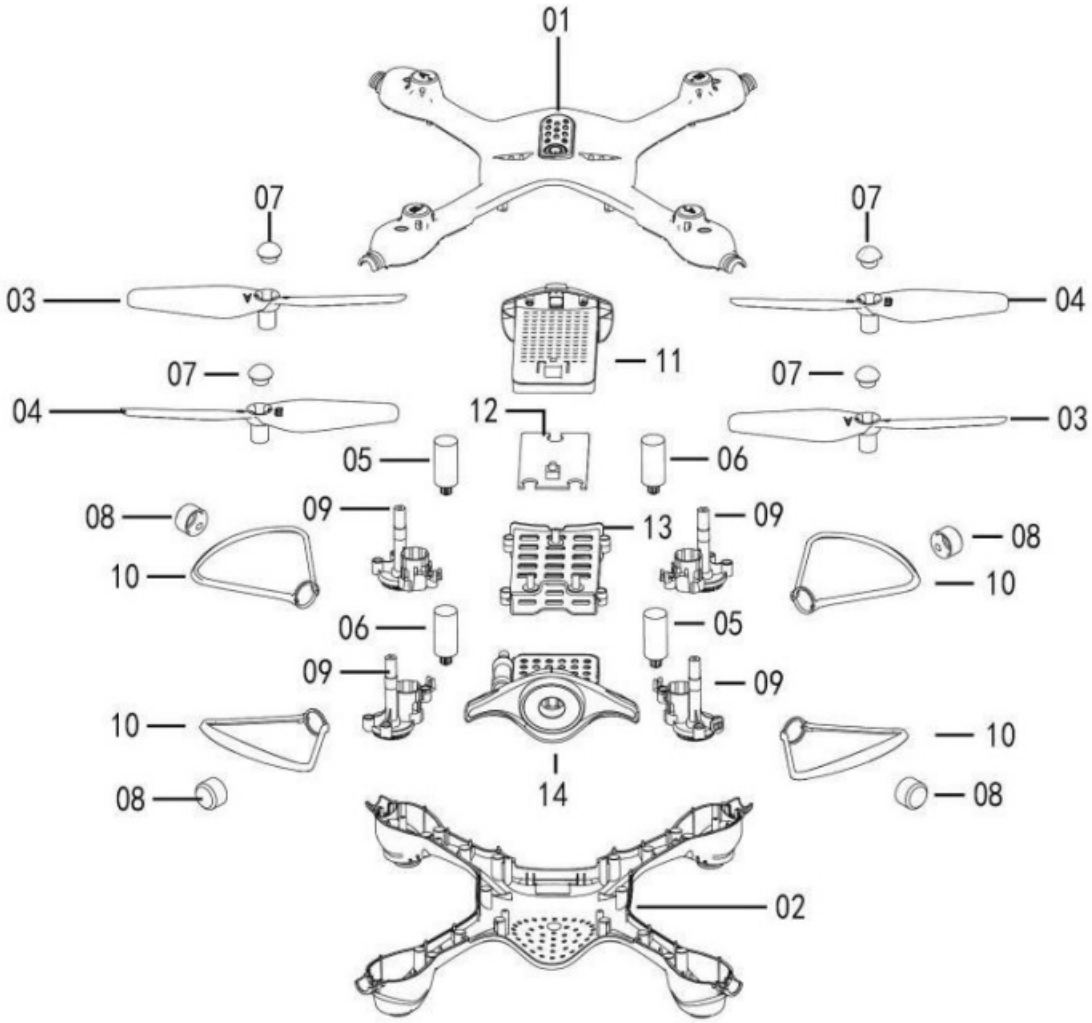
Photo/Record: When the WiFi camera is operating normally,press the photo/record icon in the real-time upload interface to take photos/videos.(Photos/recordings that were taken can be viewed in the “View Photo and Video” folder)

Note: When using the real-time upload operation in the app, the range for the operating distance of the drone will reduce by half. The WiFi real-time upload function is optimal in spacious environments.

Accessories/Parts

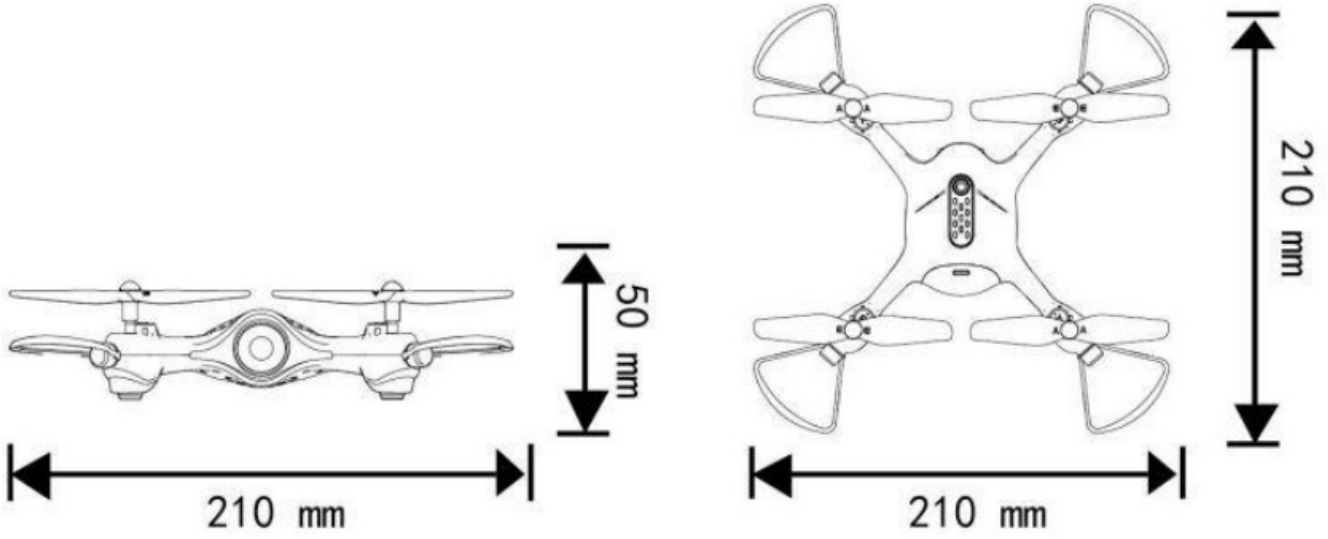


Product descriptions



NO.	Product Name	Qty.	NO.	Product Name	Qty.
01	Top Main Body	1	09	Gear (rssembly	4
02	Bottom Main Body	1	10	Protective frame	4
03	Blade(Clockwise Direction)	2	11	Battery	1
04	Blade(Counter Clockwise Direction)	2	12	Releiver Board	1
05	Motor(Clockwise Direction)	2	13	Receiving plate base	1
06	Motor(Counter-clockwise Direction)	2	14	Front trim	1
07	Blade cover	4			
08	Lamp cover	4			

Main Specificatio



Drone’s Length : 210mm
Drone’s Height : 50mm
Battery : 3.7V/500mAnh lithium battery
Drone’s Width : 210mm
Motor’s Model :Φ8

Rectification procedures

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 be blinking.	1.Charge up the drone. 2.Change the batteries of 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 of the remote control.	1.Change the batteries. 2.Change to a place where there is no interference with the same frequency.

The drone is flying towards its side in one direction during hovering	1. The drone is not calibrated level to the ground.	1. Re-adjust the calibration until the drone is level to the ground. For further details, see No.3 on Page 7 for details (Function of horizontal adjustment).
In the headless state, it is biased towards the front direction	1. Many collisions may cause head biasness.	1. Re-define the front direction. For further details, see on Page 8 for details (Headless Function).
Fixed high instability / up and down movement	1.The drone is not calibrated level to the ground. 2.Unstable air pressure under the severe weather condition. 3.Violent collision resulting in data disorder of gyroscope.	1.Re-adjust the calibration until the drone is level to the ground. For further details, see No.3 on Page 7 for details (Function of horizontal adjustment). 2.Avoid to fly under the severe weather condition. 3. Make horizontal adjustment again, see No.3 on Page 7 for details (Function of horizontal adjustment).

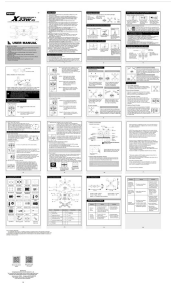
FCC RF exposure statements

This Transmitter must not be co – located or operating in conjunction with any other antenna or transmitter.
This equipment complies with FCC RF radiation exposure limits set forth for an uncontrolled environment. This equipment should be installed and operated with a minimum distance of 20 centimeters between the radiator and your body or nearby persons.

QR code for android system	QR code for apple iOS system
http://www.symatoys.com/software/Syma-Go-apk-download.html	https://itunes.apple.com/cn/app/syma-go/id1109697997?mt=8

Manufacturer
Guangdong Syma Model Aircraft Industrial Co., Ltd.
The Crossing of No.2 West Xingye Road and North Xingye Road,Laimei.
Industrial Park Chenghai District Shantou City Guangdong China.
Contact person: SYMA Telephone:+86 0754-86381898
The company has the right of final interpretation
of this instruction manual statement.

Documents / Resources

	SYMA X23W 4 Channel Pressure Fixed Position Hovering Remote Control Drone [pdf] User Manual GC88752-85, QV7-GC88752-85, QV7GC8875285, X23W, X23W 4 Channel Pressure Fixed Position Hovering Remote Control Drone, 4 Channel Pressure Fixed Position Hovering Remote Control Drone, Pressure Fixed Position Hovering Remote Control Drone, Position Hovering Remote Control Drone, Hovering Remote Control Drone, Remote Control Drone, Control Drone, Drone