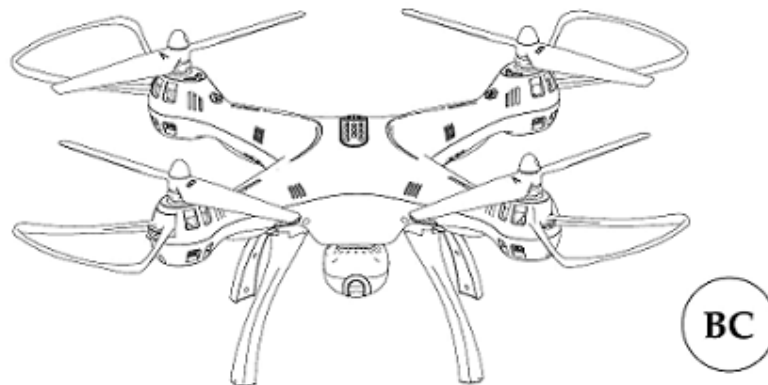




14+

X *GYRO REMOTE CONTROL SERIES*
8PRO 2.4G 
GPS FIXED-POINT PRESSURE FIXED REMOTE CONTROL DRONE



1 USER MANUAL

MAIN FEATURES

- Utilizes the 4-axis structure, enabling the drone to be even more flexible, speedy, and possessing a relatively stronger wind-withstanding capability. It can fly both in large indoor spaces and outdoors.
- 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.
- With the functions of outdoor GPS fixed-point, one key return, auto return when the drone is out of control or in low-voltage, one key ascent/descent, headless mode, air pressure fixed altitude and 4-channel function (up/down, turn left/right, forward/backward, left/right side flight).
- Headless function making it easy for directional control.
- New GPS fixed-point function.
- New camera rotation function for aerial photography.
- HD wireless 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 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 14+. 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 be mixed.
8. When the drone 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 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.

Flight Conditions

1. Do not fly in bad weather, such as windy, snowy, rainy or foggy.
2. Fly in the place where is a wide open area with no tall buildings around. The buildings with structural steel will limit the compass work and signal of GPS, and lead to bad positioning even fail to determine position.
3. Keep flying the drone within your line-of-sight, and far away from barriers, crowd and water.
4. Keep away from the high voltage cable, base station or launch tower, and never fly in the area near the airport or no-fly area.
5. The drone can not fly as normal in the polar circles.

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
- User Manual
- Screwdriver
- Card Reader
- Blades
- 720P Camera (memory card is optional)
- Mobile Phone Retaining Clip
- Protective Gear
- Charger
- Wrench



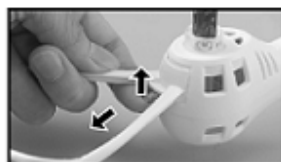
Protective Gear's Installation and Dismantling Methods

Installation of protective gear:



Insert the protective gear into the drone as shown.

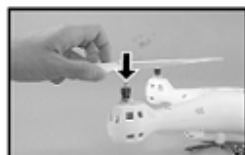
Dismantling of protective gear:



Press the protective gear upward and pull out at the same time as shown.

Blade's Installation and Dismantling Methods

Installation of blade:



1. Insert the blade as shown.



2. Use a wrench to fasten the hexagonal nut under the base of the main axis, then press blade A onto the axis. Turn the blade counterclockwise to lock it in. Blade B is locked in by turning it clockwise.



3. Attach blade cover as shown.

Dismantling of blade:



1. Remove the blade cover as shown.



2. Use a wrench to fasten the hexagonal nut under the base of the main axis, then press blade A onto the axis. Turn the blade clockwise to loosen it. Blade B is loosened by turning it counter-clockwise.



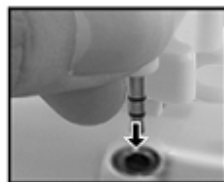
3. Remove the blade.

Camera's Installation and Dismantling Methods

Installation steps for camera

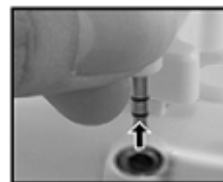


1. Aim the camera at the interface and push it as shown.



2. Connect the camera cable into the socket as shown.

Dismantling steps for camera



1. Pull out the camera cable from the socket as shown.



2. Press the camera locked button and pull camera out at the same time.

Installation and Dismantling Methods of Mobile Phone Retaining Clip

Mobile phone retaining clip's attachment method:



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



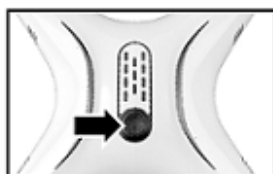
2. Press the handles to adjust the jaws.

Mobile phone retaining clip's dismantling methods:



Push the phone clip holder upwards from behind the remote control.

Battery Changing and Charging Methods for Drone



1. Press the power button of the drone to turn it off.



2. Press the fixed components at the bottom of the battery and pull out the battery.



3. Connect the plug from the charger into the port in the battery, then connect the charger into the charging cradle. The indicator light will turn red while charging and turn green when charging is complete. It takes 150 minutes to completely charge the battery.



4. After the battery is fully charged, put the battery back into the drone.

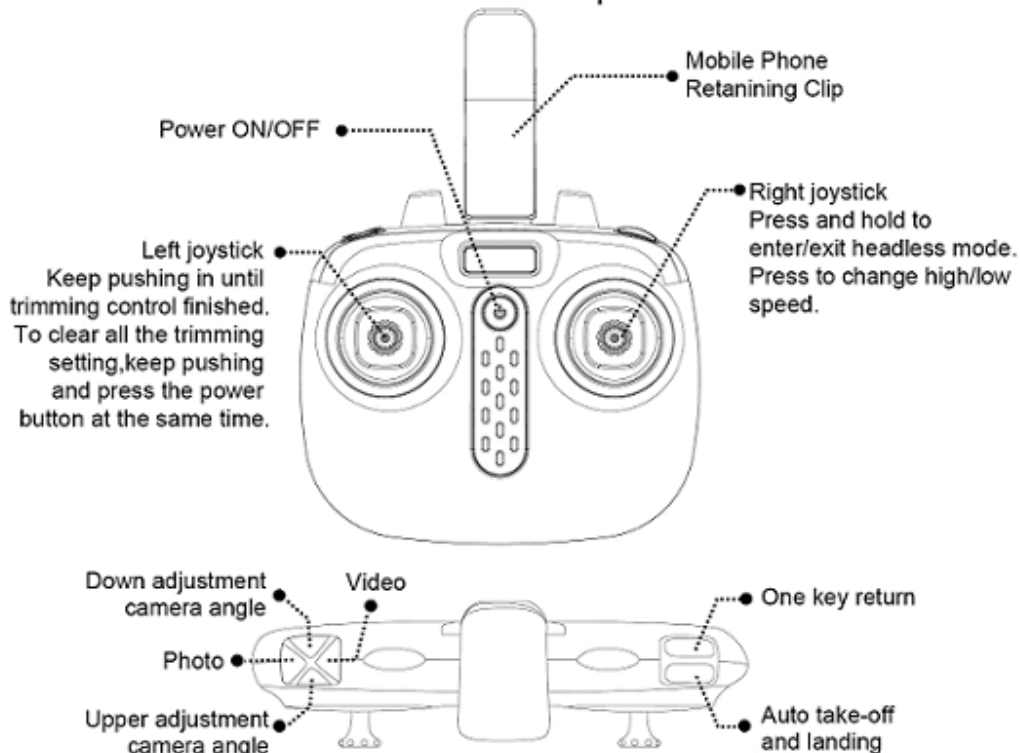
The charging time is about 150 minutes; Hover flight time is approximately 9 minutes.

Precautions as follows during charging of battery:

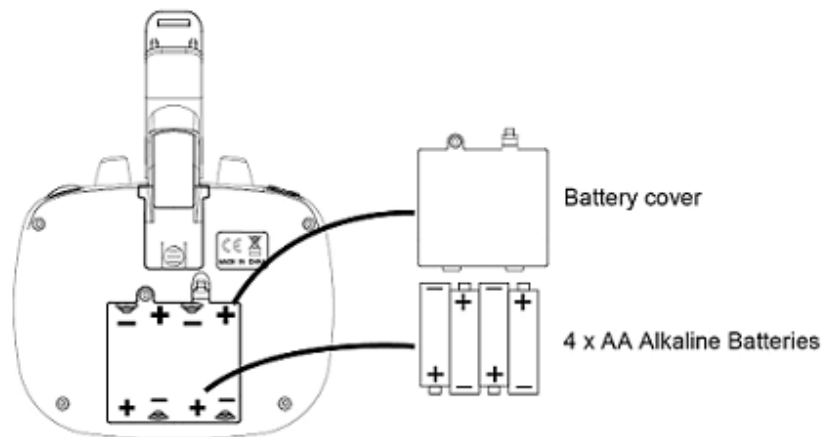
- Avoid placing the active batteries in places with direct exposure, sunlight and high temperatures. For example, naked light or electrical equipment installations; otherwise it may cause damages or explosions.
- Avoid immersing the batteries in the water. The batteries shall be stored in a cool and 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.

Understanding Your Remote Control

Remote control's button function description:



Battery installation for remote control:



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. Do not use different types of batteries together.
4. Do not use rechargeable batteries.

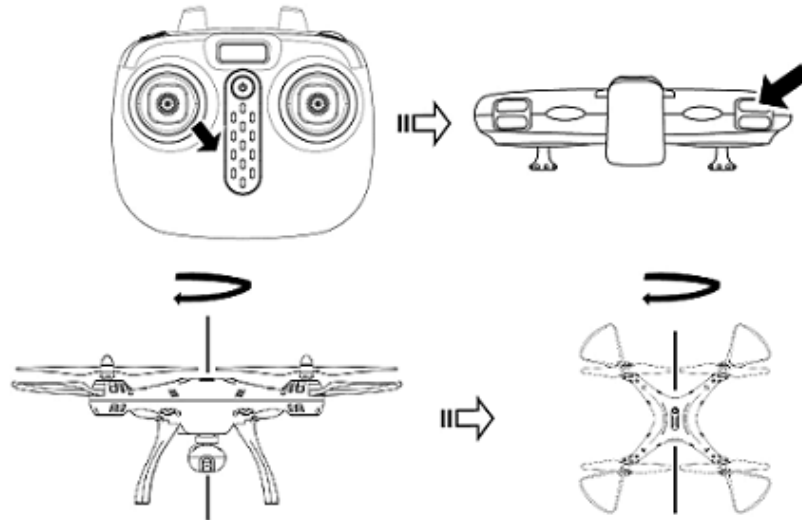
Product Features

1.Operation Instructions :

- ① Find a wide place for flying.
- ② Install the battery in the drone, and place it on a level surface with the nose of the drone face forward, press the power button for 2 seconds and then release. Power on the remote control, push the throttle joystick of the remote control up to the top and then down to the bottom. When the remote control beeps twice and the indicator light of the drone turns to solid from blink, signal connection completed. (Please do calibrate the compass before the first flight.)
- ③ The rear lights of the drone begin as solid orange, and turn to blink green about 1 minute later when finish the satellite signal searching. After 15 seconds, the blink green lights change to solid green, that indicates there are enough GPS points recorded successfully, and the drone is able to fly with GPS coordinates function.
- ④ Push the left joystick to the right-bottom and the right joystick to the left-bottom simultaneously, or push the left joystick upward and then back to the midpoint, the propellers of the drone rotating slowly indicate the drone is ready to fly.

2. Compass Calibration :

Before the first flight, the compass calibration is required. When the remote control has connected to the drone, push the left joystick to the right bottom corner and hold it, then press the One key return button located at the upper right corner of the remote control. When the red indicator lights flash slowly, release the left joystick and hold the drone horizontally and rotate 360 degrees till the red indicators of the drone turn to fast flashing (approx 4 circles). Hold the drone vertically, (with the red indicators pointing upward) and rotate it 360 degrees till the indicators turn to long bright (approx 4 circles), the calibration finished.



Note:

1. Never calibrate the compass in a strong magnetic field or near the bulk metal, such as magnetite, parking lot and buildings with underground reinforced.
2. Never carry the ferromagnetic material, such as mobile phone, with you when calibrating.
3. Take a compass calibration when the drone drifting or swinging around during the flight.

3. One Key Return :

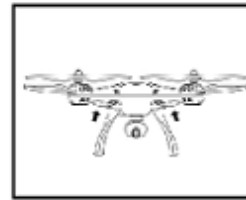
When use the one key return function or the drone auto return when it is out of control or in low-voltage, the front and rear lights turn red, and the drone will return home immediately if it at the range of 20 meters, if the drone is beyond the the range of 20 meters, it will ascend at about 25 meters altitude first, then return home, and the drone will back to the record point at last. Long press the one key return button again, the drone will exit return mode except it is auto return with low-voltage. When the drone returns home, manual operation to avoid obstacle is allowed, and it will continue to return if stopped manual operation. The return point will be a little errors cause by the environment, it's a normal phenomenon.

Note:

1. When the GPS signal is weak or not work, the green light of the drone will turn orange, and it will fail to return home and get the GPS coordinates, and it need to be controlled to return home manually.
2. When the drone is low-voltage, stop other operation and control it to return, otherwise, it will fall down or crash when over low-voltage.

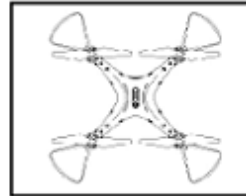
4. Low-Voltage Protection:

When the four indicator lights of the drone located the bottom turn red, and the front lights begin to blink, indicating the battery power of the drone is low, and it will return to the record point.



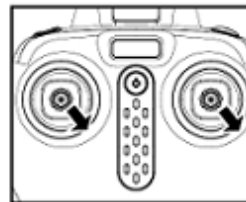
5. Over-Current Protection:

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



6. 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 corners for 2 to 3 seconds; the led light indicator on the drone will blink rapidly, and it will return back to the normal status after about 2 to 3 seconds. The level calibration is successful.



7. 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 under fast speed mode and then one "beep" sound would come from the remote control, then it is switched back into low speed mode.



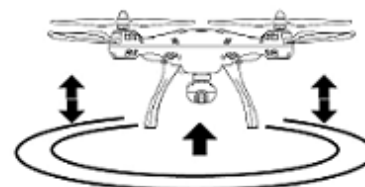
8. GPS Coordinates & Aerial Photography :

After the drone complete recording the return point, it can take an aerial photography at the fixed point accurately, the camera will able to take the photo or record the video with adjusting the camera angle up and down at the range of 0-90 degree.

In the wide place, the flying range is more than 200 meters, and the Limit height of the GPS coordinates is about 100 meters.

9. 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.

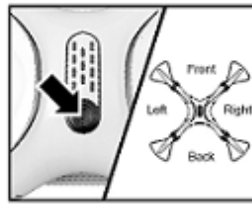


10.Headless Function :

①Defining forward direction:



- Press on the power button of the remote control.

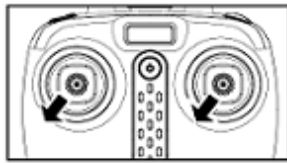


- Connect the battery to the drone, press the power button of the drone, and adjust the specified direction of the drone's head under the headless mode as the new forward direction.



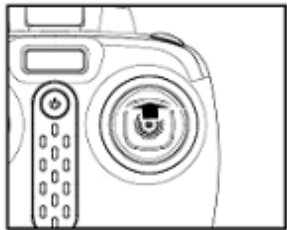
- Push the left joystick (throttle) on the remote control up to the farthest position and then pull down to the farthest position. When the remote control issues a long beep sound, it means the frequency and defining forward direction functions are completed.

②Calibration for the definition of the front:

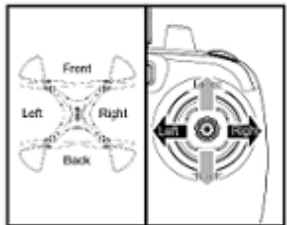


When the drone encounters a direct impact with foreign objects in the headless mode, if there is an occurrence of deviation of the defined direction, it is only required to push both the left and right joysticks to the bottom left corners simultaneously after placing the flying direction of the drone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

③Toggling between headless function and normal function:



- 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 on for a long time. After pressing in on the right joystick of the remote control for 2 seconds, the remote control would make a sound of "beep, beep, beep" to show that it has entered into a state of headless mode. Pressing in on right joystick for 2 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 flash slowly once every four seconds).



- 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.

11. Wireless Real-Time Transmission Function

① Downloading the installation software

Visit www.symatoys.com using your Android phone or scan the QR code to download and install the SYMA FPV APP.

For iOS Apple/Android phones, download and install the SYMA FPV App by visiting the App Store/Google Play or by scanning the QR code.

Tips: 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 SYAM FPV App.

② How to connect

Connect the model to its power source, the camera indicator light should turn green. Within 20 seconds, the red light will flash slowly and the camera will be waiting for a connection with a smartphone. At this time, enter the "Settings" option on your phone, and turn on WLAN. In the WLAN search list, look for a network called "FPV-WIFI- *****" and connect to it. Once connection has been established, exit the "Settings" option. Open the SYMA FPV App, click the "START" icon to enter the control interface. The phone's screen will display real-time images. A full bar in the signal strength icon indicates the strongest possible signal.



Open the SYMA FPV App.



Tap the "START" icon.



The phone's screen will display real-time images.

③ Real-time upload interface icon descriptions



- 1.Back
- 2.Signal strength
- 3.View photos and videos
- 4.Record
- 5.Take photo
- 6.Recording time

④ Real-time aerial photography uploading:

Photo/Record: When the 720P 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)

⑤ Storage function of the 720P camera:

When there is a memory card installed in the camera, photos and videos will be stored in both the phone's internal storage and in the memory card. When there is no memory card installed in the camera, photos and videos will only be stored in the phone's internal storage .

Flight Preparation and Switching the Drone On and Off

1. Flight preparation



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



Step 2: Install the battery pack in drone.

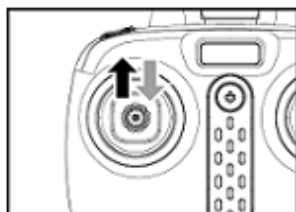


Step 3: Press the power button of the drone for 2 seconds to power on the drone.

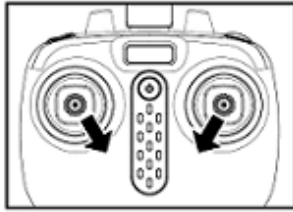


Step 4: Push the left joystick (throttle) up to the highest point and then push down to the lowest point. When the indicator lights in the drone change from quick flashing to continuous lighting, it means that the drone goes into the flight standby mode.

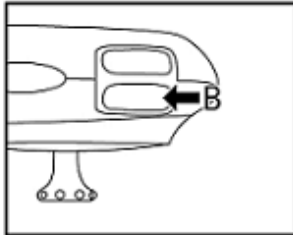
2. Turning on the drone



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.

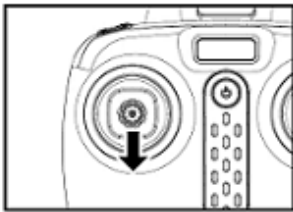


Method 2: Push the left and right joysticks to the bottom inner corners for 1 second, the blades of the drone start rotating slowly.

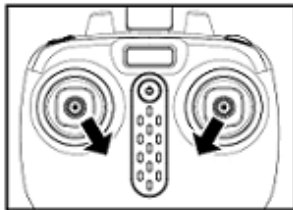


Method 3: When the drone is stationary, press the button B, the drone automatically takes off and hovers at a certain height.

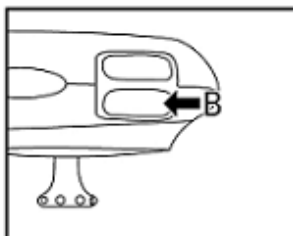
3. Turning off the drone



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 the bottom inner corners for 1 second, and the drone can be turned off.



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

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 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.

Hereby, [GUANG DONG SYMA MODEL AIRCRAFT INDUSTRIAL CO.,LTD], declares that this [X8PRO] is in compliance with the essential requirements and other relevant provisions of Directive 2014/53/EU.

The full test of the EU declaration of conformity is available at the following internet address:www.symatoys.com

RF frequency band :2420-2460MHZ

Transmitter power :-6.72dBm

Sold to EU country

product name: [Drone]

model number: [X8PRO]

Brand name :SYMA

Contact person: Ivan

Tel:+86-0754-86381701

**GuangDong Syma model aircraft
Industrial co.,ltd**

2.4GHZ Quadcopter

Model:X8PRO

~input:100-240V~50/60Hz

0.3A(charger)

Battery:2000mAh/7.4V

Made in China



**CAUTION
RISK OF EXPLOSION IF BATTERY IS REPLACED
BY AN INCORRECT TYPE.
DISPOSE OF USED BATTERIES ACCORDING
TO THE INSTRUCTIONS**

Manufacturer name and address:

GUANGDONG SYMA MODEL AIRCRAFT INDUSTRIAL CO., LTD

NO.2 West Xingye Road Laimei Industrial Area Chenghai Shantou Guangdong China