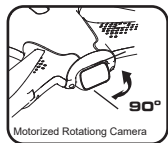
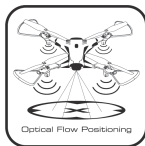


FOLDABLE DRONE WITH MOTORIZED HD CAMERA



User Manual **Z3 PROFI**

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.

Thank you for purchasing this SYMA product. To ensure that you operate the aircraft correctly, please read these instructions carefully before first use. The packaging and this manual contain important information and should be kept in a safe place for future reference.

Safety Information:

Conditions to be observed when using Z3PROFI Drone:

- The Z3PROFI Drone 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:

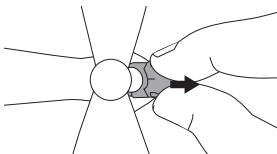
- Do not recharge non-rechargeable batteries. When installing or changing the batteries, ensure that they are connected in the correct polarity. Do not mix old and new batteries or different types of batteries.
- Do not short circuit the battery terminals.
- You must only use the charging cable included with Z3PROFI for charging the drone battery. The charging cable is not part of the drone itself.
- Regularly inspect the charging cable 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.

Repair and maintenance:

- Before cleaning the drone or battery, ensure the battery is first removed from the drone and disconnected from the charging cable or charger.
- 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.
- Do not mix alkaline, standard (carbon-zinc), or rechargeable batteries.

About this product

Remove the buckle on the propellers!



When the aircraft is packaged, a buckle is added to fix the position on the propellers. Remove the buckle as per the picture when you unpack the aircraft.

Specifications

·Aircraft:

Aircraft Weight	Approx. 140 g
Aircraft Dimensions	316×308×49 mm
Flight Range	Approx. 80 m (appr. 260 ft)
Max Altitude	Approx. 50 m (appr. 165 ft)
Flight Time	Approx. 18 mins
Motor	ø 8
Battery	3.7 V, 1500 mAh
Battery Charging time	Approx. 110 min

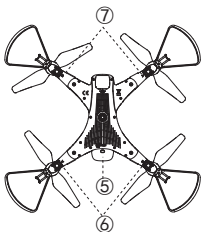
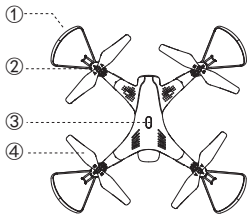
·Remote control:

Operating frequency	2.4 GHz
Operating temperature	10°C to 40°C

·Package contents:

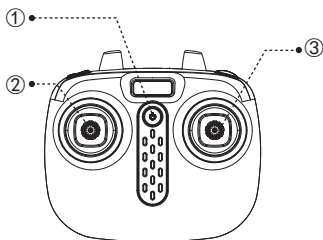
Z3PROFI Drone	1
Remote Control	1
Mobile Phone Mount	1
USB Charging Cable	1
Spare Propellers	4 (2 each of "A"&"B")
Propeller Protectors	4
User Manual	1

Aircraft components

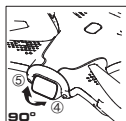
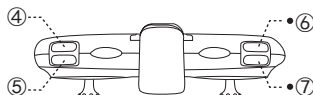


- ① Propeller protector
- ② Motor
- ③ Power switch
- ④ Propellers
- ⑤ Battery
- ⑥ Rear indicator lights
- ⑦ Front indicator lights

Remote control components

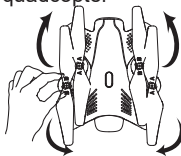


- ① Power ON/OFF
- ② Left joystick
- ③ Right joystick
- ④ Moving camera down
- ⑤ Moving camera up
- ⑥ 360° Stunt flip
- ⑦ Auto take-off and landing

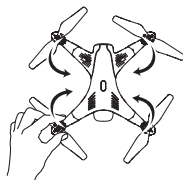


Unfolding & Folding the Quadcopter

Folding the quadcopter

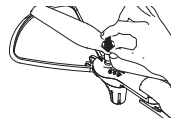
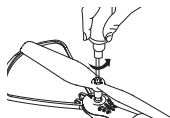
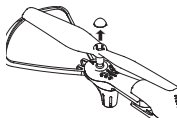


1. Unfold the arms in the direction of the arrows.



2. Fold the arms in the direction of the arrows until the quadcopter is fully folded.

Propeller Replacement

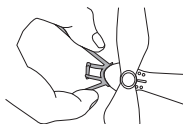


1. Pull off the propeller caps.
2. Remove the screw before replacing the propeller.
3. Insert the propeller onto the body of the quadcopter. Replace the screw and propeller cap.

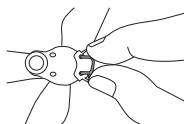
Note: Propellers are labelled "A" or "B."

Only replace "A" propellers with "A" propellers. Same for "B" propellers.

Propeller Guard Installation



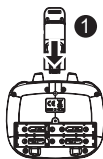
1. Insert the propeller guard into the arm of the drone as shown.



2. Insert the fixed rods on the propeller guard into the two sockets in the arm of the drone as shown and fix them tightly.

Attach the Mobile Phone Mount

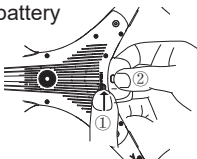
Insert the mobile phone mount into the opening on the remote control.



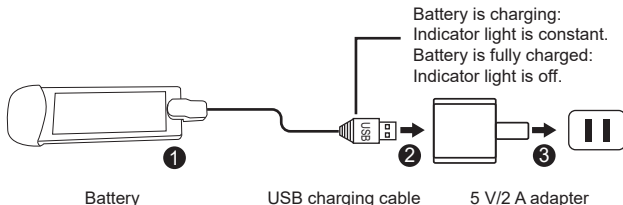
Press the spring to adjust the size of the mobile phone mount.

Charging the aircraft battery

Removing the battery



- ① Press and hold the battery latch on the body.
- ② While simultaneously pressing and holding the latch on the body, press the latch on the battery and pull the battery out.



* 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.

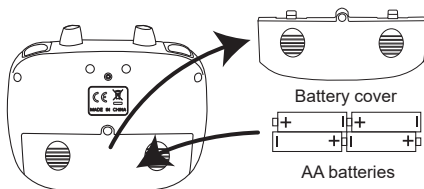
The charging time is about 110 minutes Flight time is appr. 18 minutes

* 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 disassemble the battery or store it in a hot environment.
- * 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.

Battery installation for remote control



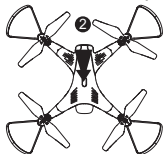
To insert batteries into the remote control, open the battery cover and insert 4 x AA alkaline batteries ensuring that you observe the polarity markings (batteries are not included and must be purchased separately).



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

Flight preparation: Taking off & Landing

Pairing the remote control with the quadcopter



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



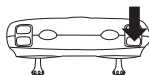
Push to the top and return to the central position.

Method two:



Push the left and right joysticks to the inner corners for 1 second.

Method three:



For one-button take-off, press this button. The drone will automatically take off and hover.

- Note:
1. If the drone is flown out of range of the remote control, the indicator lights will flash slowly and the drone will land automatically.
 2. If the remote control suddenly turns off or runs out of power during flight, the drone 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:



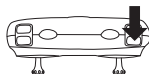
Push down for 2-3 seconds.

Method two:



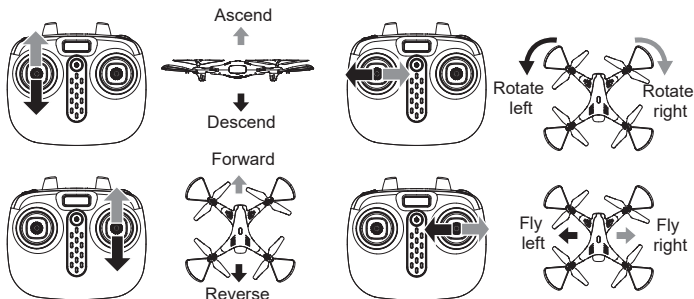
Push the left and right joysticks to the bottom inner corners for 1 second.

Method three:

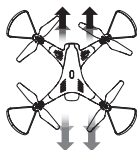


For one-button landing, press this button. The drone will automatically land.

Using the remote control



Trimming



Forward and backward trim control



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. Don't release the left joystick until the drone is hovering in a stable state.



Left/Right side flight trim control



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. Don't release the left joystick until the drone is hovering in a stable state.

Function Introduction



Low-Voltage Protection:

When the four indicator lights at the bottom of the drone start flashing, it means the drone's battery power is low. When this occurs, bring the aircraft back to land.



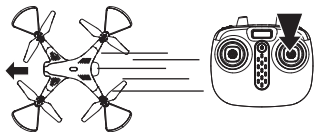
Over-Current Protection:

When the drone's propellers collide with an object or become obstructed, over-current protection will be activated to protect the gears and motors.



Level Calibration:

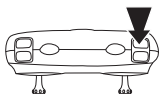
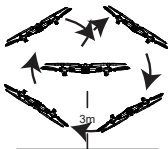
Place the drone on a level surface and at the same time, push both left and right joysticks to the lower right corner for appr. 3 sec. The indicator lights on the drone will blink rapidly and then will return to solid status. This indicates the level calibration process is complete.



High/Low Speed Function:

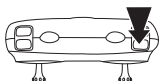
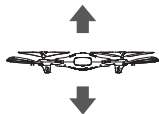
Briefly press the right joystick to switch between high and low speed mode.

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.



360° Stunt Function :

Once you have mastered the basic controls, you can try performing some flip manoeuvres. Start by flying the quadcopter to an altitude of at least 3 meters. Then hold down the button on the top-right corner of the remote control (flip button) and push the right joystick up/down/left/right to flip the aircraft forward/backwards/left/right.



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 Appr. 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.



1. Define the front

When the aircraft is powered on for the first time, the direction of the aircraft nose (camera at front) is straight ahead.

2. Start headless function

Headless mode

After pairing is completed, press and hold the right joystick (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:

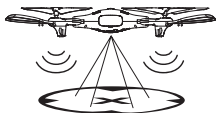
In the event that the aircraft has a collision and the fixed head direction becomes deviated, simply re-orient the aircraft by simultaneously moving the left and right joysticks to the lower left position.

Once completed, the indicator lights on the aircraft will flash slowly for 3 seconds and then emit a long light, indicating successful calibration.



Auto-Hover Function

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



Optical flow hover function

When the drone is turned on, the drone will automatically start the optical flow positioning function when hovering in the air, and the drone will remain stationary at a certain point. This is helpful to prevent unwanted drift when flying outdoors.



1. Optical Flow Positioning will maintain a fixed point accuracy of about 0.5 meters.
2. If the light is dark, the ground reflects or height is above 12 meters, or the wind is above level 2, optical flow positioning will be negatively affected. If this happens, the drone lights will flash 3 times. Please exercise caution and land the drone.



Motorized Rotating Camera

Motorized Rotating Camera

The front camera can be adjusted up or down while in flight.

Moving camera down



Moving camera up



Motorized Camera Angle Adjustment

As shown in the diagram, the angle of the camera can be adjusted by pressing the remote control buttons (up or down).

Wireless Real-Time Transmission

① Downloading the installation software

For Android phones, download and install the SYMA TY APP by visiting the www.symatoys.com or by scanning the QR code below.

For IOS Apple phones, download and install the SYMA TY APP by visiting www.symatoys.com or by scanning the QR code below.



QR code for Apple IOS
system
(IOS 8.0 and above version available)



QR code for Android
system
(Android 4.2 and above version available)

② For more information on the connection, refer to the APP operating instructions.

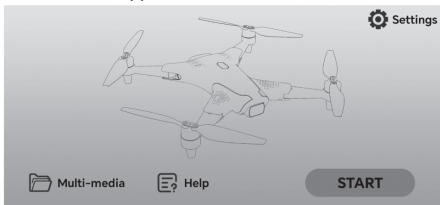
Troubleshooting

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 interference with the same frequency as that of the remote control.	1. Change the batteries. 2. Change to a place where there is no interference with the same frequency.
The drone drifts to one side while hovering.	The drone is not calibrated level to the ground.	Recalibrate the drone. For details, see page 7 "Level Calibration".
In the headless state, it is biased towards the front direction	Collisions may cause head drift.	Re-define the front direction. For details, see "Headless State Correction" on page 9
The drone does not hover properly and 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. A violent collision corrupted the gyroscopes settings.	1. Recalibrate the drone. For details, see page 7 "Level Calibration". 2. Avoid flying in poor weather. 3. Recalibrate the drone. For details, see page 7 "Level Calibration".

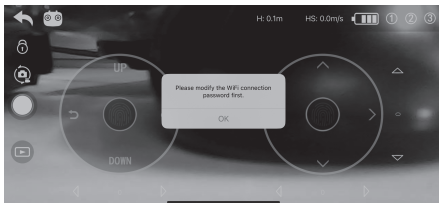
WiFi Password Instructions

How to Connect to WiFi:

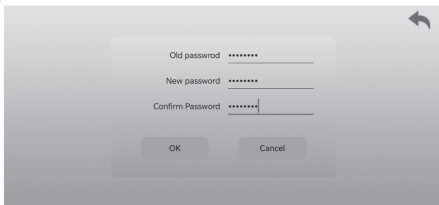
1. Turn on the drone. After about 20 seconds, go to your phone's Settings→ WLAN (WiFi). Find "FPV_WIFI_****", enter default password "00000000" (8 zeros) and connect. Once successfully connected, exit the settings menu. Then open the SYMA TY App and click "START"



2. When you connect using the default password for the first time and open the "SYMA TY" app, tap "START". The app will prompt you to change the default password. Tap "OK" to enter the password reset screen.



3. On the password reset screen, please note that the new password must be "exactly 8 characters long", and include a combination of numbers and letters or symbols.



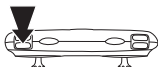
4. When the App shows that the password has been successfully changed, turn off the drone and turn it on again.

5. Go to the phone settings → WLAN (WiFi), find "FPV_WIFI_****", delete/forget the old network, and reconnect using the new password.

How to Reset the WiFi Password (if forgotten):

If you forget the modified personal password, you can reset the WiFi password using the remote controller. After reset, the password will return to the factory default "00000000" (8 zeros).

1. After the drone and controller are paired, pull both the left and right joysticks down and outward simultaneously, then short-press the indicated reset button on the remote control(The below image for your reference). When you hear remote control beeps twice and the drone lights turn off and then turn on again, the reset is successful.



2. After resetting, turn off the drone and restart it.

3. Then go into the phone settings→WLAN (WiFi), find "FPV_WIFI_****", delete/forget the old network, reconnect, and enter the factory default password "00000000"(8 zeros).

4. You will have to enter a new personal password again as outlined above.

Please scan the QR code below or use the link below to watch the WIFI Password Instructions video.



<https://www.symatoys.com/goodshow/z3-pro-fi.html>

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 :2408-2472MHZ
Transmitter power : -3.73dBm (Max.)
WiFi frequency band: 2412MHZ
WiFi power:18dBm

Sold to EU country
product name: [Drone]
model number: [Z3PROFI]
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.