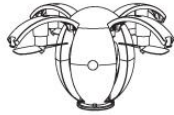
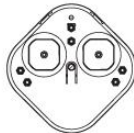


## ALPHA USER MANUAL

### Package Content



1x Drone



1x Transmitter

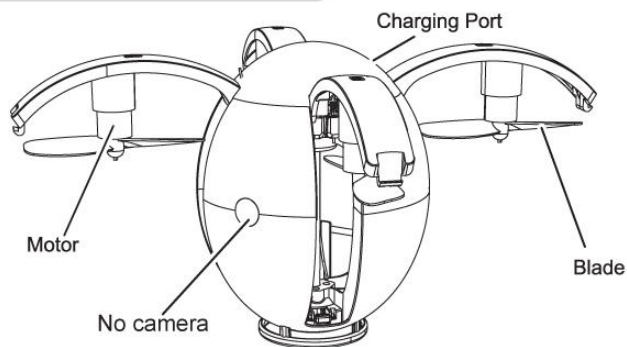


4x Blade  
Replacement

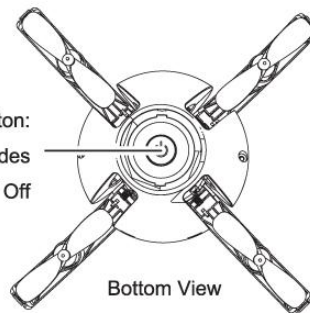


1x USB  
Charger

### Parts

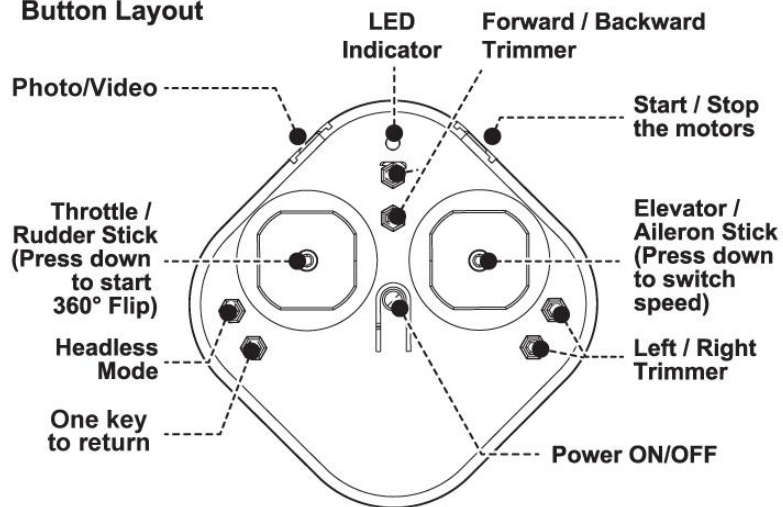


Blade Release / Power Button:  
Short Press To Release Blades  
Long Press To Power On / Off

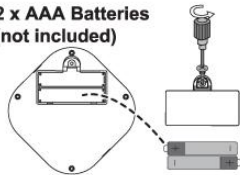


## Transmitter

### Button Layout



2 x AAA Batteries  
(not included)

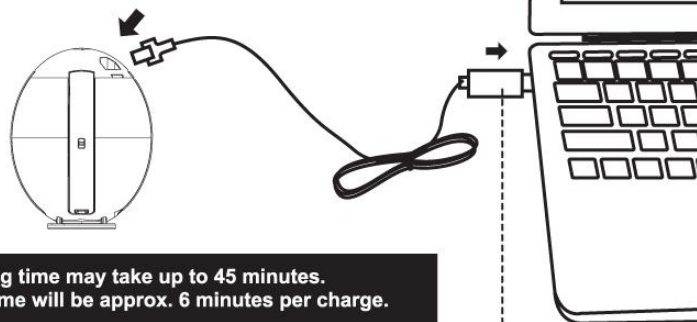


1. Install batteries with the corresponding polarities (i.e battery+ needs to go to the positive polarity. Battery - needs to go to the negative polarity)
2. Do not use new and old batteries together.
3. Do not use different battery types together. Use 1.5V alkaline AAA batteries.

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## Flight Preparation

### Charge The Battery



Charging time may take up to 45 minutes.  
Flight time will be approx. 6 minutes per charge.

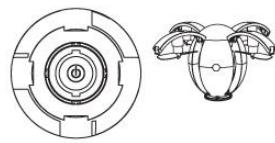
1. Connect the drone to a powered USB port (such as the ones from a computer) using the provided USB charging cable
2. The LED indicator light on the USB Cable will be ON when charging is completed.
3. Unplug the cable after charging is completed.



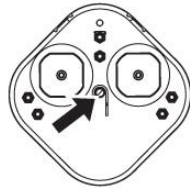
LED indicator will be ON  
when charging is completed

-3-

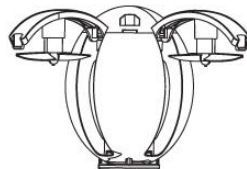
## Binding



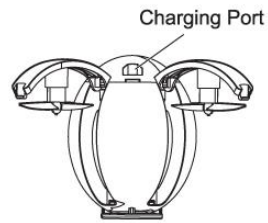
1. Release the blades and turn on the drone.



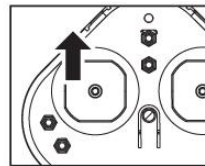
3. Turn on the transmitter.



5. The LED on the drone will stop flashing when binding is completed.



2. Place the drone on a level and flat surface; facing forward\*.  
Note: the side with charging port is the back side.

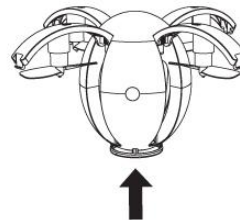
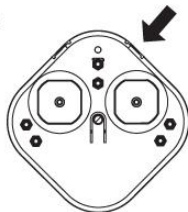


4. Pull the left stick Up and then loosen it.

-4-

## Start / Stop The Motors

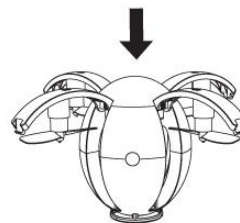
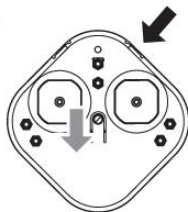
To Start



After binding, press the takeoff button of transmitter, the drone will take off to 1.5m above the ground surface.

Note: The drone will one key take off to 1.5m.

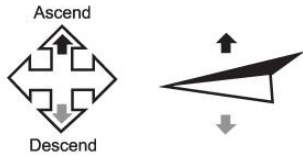
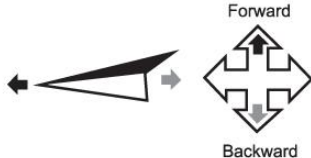
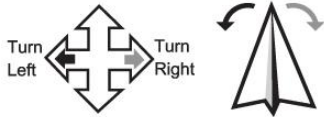
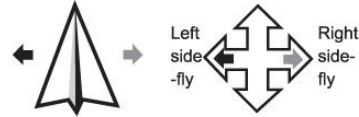
To Stop




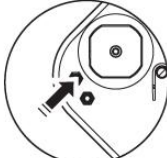
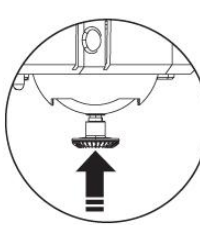
To land and stop the motor, you can do one of the followings:

- 1) Press the takeoff button of transmitter once - the drone will proceed to land slowly and stop the motors.
- 2) Push and hold down the left stick will cause the drone to land and stop its motors.

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Basic Control	
Throttle / Rudder Left Stick	Elevator / Aileron Right Stick
	
	
<div> <b>Emergency Stop</b>  <b>To stop the motors immediately during emergency, press and hold the right button on top of the transmitter for 3 seconds.</b>  <small>Note: Emergency stopping in mid-air will result in drone dropping and may damage the product and other properties, please use with caution.</small> </div>	

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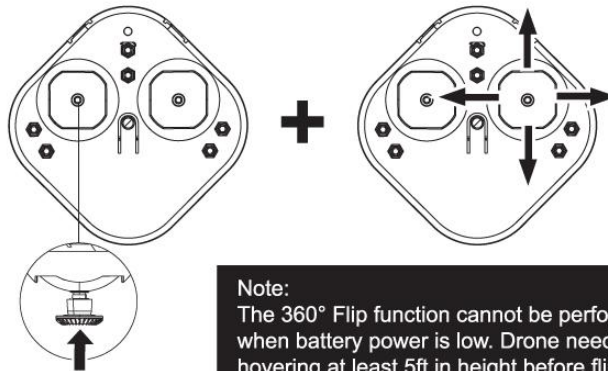
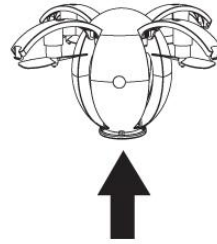
Basic Control (Con.)	
Enter Headless Mode*	Flying Speed Select
  <p><b>Press this button once to enter/exit Headless Mode</b></p>	 <p><b>Short press right stick to switch flying speed</b></p> <p><b>1 beep = low 2 beeps = mid 3 beeps = fast</b></p>
<p><b>* To enter headless mode:</b></p> <ol style="list-style-type: none"> <li>1) Before binding, position the drone to where you and the drone are facing the same direction.</li> <li>2) Proceed to binding.</li> <li>3) Push left and right stick together to the left-down side, the LED light of the drone will change from constantly on from flickering.</li> <li>4) Press headless button to enter headless mode.</li> <li>5) Press headless button again to exit headless mode.</li> </ol> <p><b>Note:</b></p> <ul style="list-style-type: none"> <li>- The drone will keep on flashing continuously when headless mode is on.</li> </ul>	

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## Special Operation / Control

### 360° Flip

1. Bring the drone to midair hover, without flying towards any direction. Remove finger from both sticks once in hover.
2. While hovering, press down the left stick and push the right stick to any direction.
3. The drone will flip to the direction of right stick being pull.



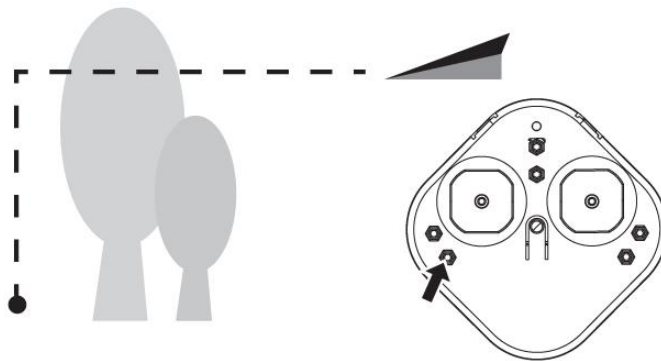
#### Note:

The 360° Flip function cannot be performed when battery power is low. Drone needs to be hovering at least 5ft in height before flipping. Do not use this feature indoor to avoid damage.

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## One Key to Return Function

Press the "one key to return" button, the drone will be flying the opposite direction against ongoing route to return, once you reach the target location, you will need to switch off the pattern by pushing the right side lever forward.



Attention: In order to make sure the drone return safely, if the drone deviated from flying route, the player needs to adjust the direction by pushing the right side lever to assure safety flying.

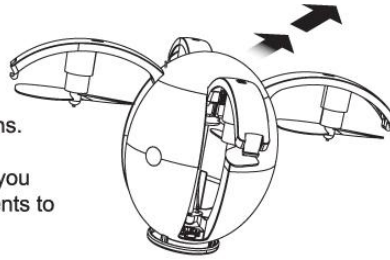
-9-



## Adjustment / Trimming

### Why do we need to adjust the trimming?

Trimming is needed to adjust the differentials in real world applications. Numerous factors contribute to an unsuccessful hover and as a pilot, you will need to make manual adjustments to fix these issues.

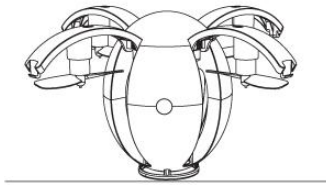
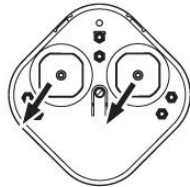


### Recalibrate

It is a good idea to recalibrate the gyro system of your drone before manually trimming it.

A lot of drifting can be fixed by recalibrating the drone:

- 1) Bind the drone to the transmitter, place the drone on a flat and level surface.
- 2) Push both left and right stick (on the transmitter) to bottom left corner, hold it until the LED on the drone stops flashing.
- 3) Recalibrate is complete when the LED on drone stops flashing.



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### CF Mode

After matching of the quad copter and the mobile phone, press the CF mode button on the operating page, the lights of the quad copter change from constantly on to flickering, the quad copter turns in CF mode.

### Exit the CF mode

When the quad copter is in CF mode, press the CF mode button on the operating page, the lights of the quad copter change from flickering to constantly on, the quad copter exit the CF mode.

### Control the directions in CF mode

In CF mode, the forward direction is the direction which the quad copter pointed to in the previous step. The operator should face this forward direction, otherwise the direction will not in the correct control.

Push the right control stick up, the quad copter flies forward based on the direction which the operator faced in the adjustment step.		Push the right control stick to make right side fly, the quad copter will make right side fly based on the direction which the operator face in the adjustment step.
Push the right control stick down, the quad copter flies backwards based on the direction which the operator faced in the adjustment step.		Push the left control stick to make a right turn, the quad copter will turn right based on the direction which the operator faced in the adjustment step.
Push the right control stick to make left side fly, the quad copter will make left side fly based on the direction which the operator faced in the adjustment step.		Push the left control stick to make a left turn, the quad copter will turn left based on the direction which the operator faced in the adjustment step.

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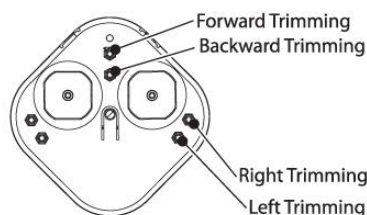
Note:

1. To make the quad copter flying in CF mode, a direction adjustment and confirmation step is important, and the operator should face the direction to which the front of the quad copter pointed. The orientation of the operator should not change to avoid effect on controlling the quad copter.
2. When in CF mode, if the direction of the quad copter is not in accordance with the operator or makes deviation, please stop flying to make a readjustment and confirmation of the direction.

## Adjustment / Trimming

### Manually trimming the drone

If drifting is still exists after recalibrating, use the following trimming buttons to manually trim the drone. Bring the drone to hover a few feet above the ground. Observe for any drifting. Use the opposite direction trimmer button to correct the drifting.



### Example

If the drone drifts backwards repeatedly press the forward trimmer until the drifting stops or until satisfied with the hover.

Backward Trimmer



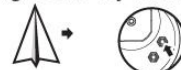
Forward Trimmer



Left Side-Fly Trimmer



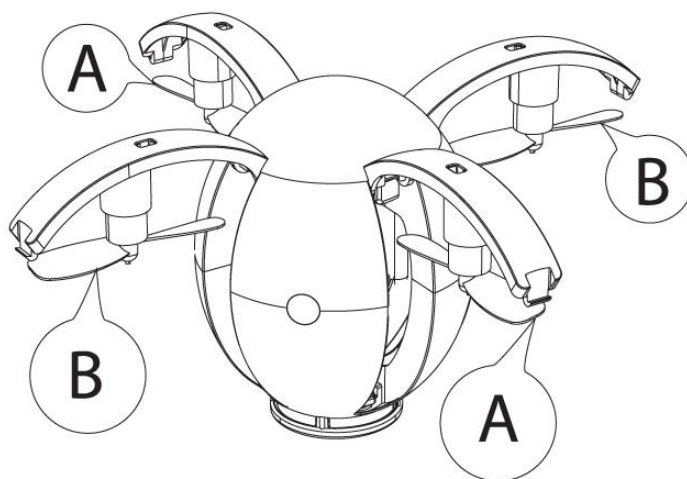
Right Side-Fly Trimmer



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## Blade Installation

Blades must be installed as shown below.  
The letters are printed on reverse side of blades.



Note:

Debris could be found in the blades of the drone after multiple flights. It is advisable to clean the blades regularly when it is in its off-state to avoid poor flying performance.

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## Self-Protection Function

### Motor jammed protection system

When the drone is in speed up mode, if only one blade is being jammed, the other three blades will automatically stop turning around for protecting purpose.

After activated the motor jammed protection system, the drone is under protection program which you cannot flying the drone anymore and you need to re-activate the drone. Operation technique: push the left-side trimmer down till the end to activate the drone before you can re-control the drone flying status.

### Motor quick-stop protection system

While the drone crash into obstacles or fell into the floor, you may press the "one key to turn on " button for about 3 seconds to stop moving for protecting purpose.

After quick-stop operation procedure you only need to re-adjust direction for flying again.

## Flying Tips

When launching the drone make sure that you and the drone are facing the same direction. The camera should be looking in the same directional path as yourself.

Practice launching, hovering, and landing before attempting to learn other moves.

Flying 2 to 3 feet above the ground will reduce ground turbulence and make flying easier.

When first attempting to fly in a different direction, start by tapping the direction stick until you're comfortable. Move controls slowly until you become comfortable operating the drone.

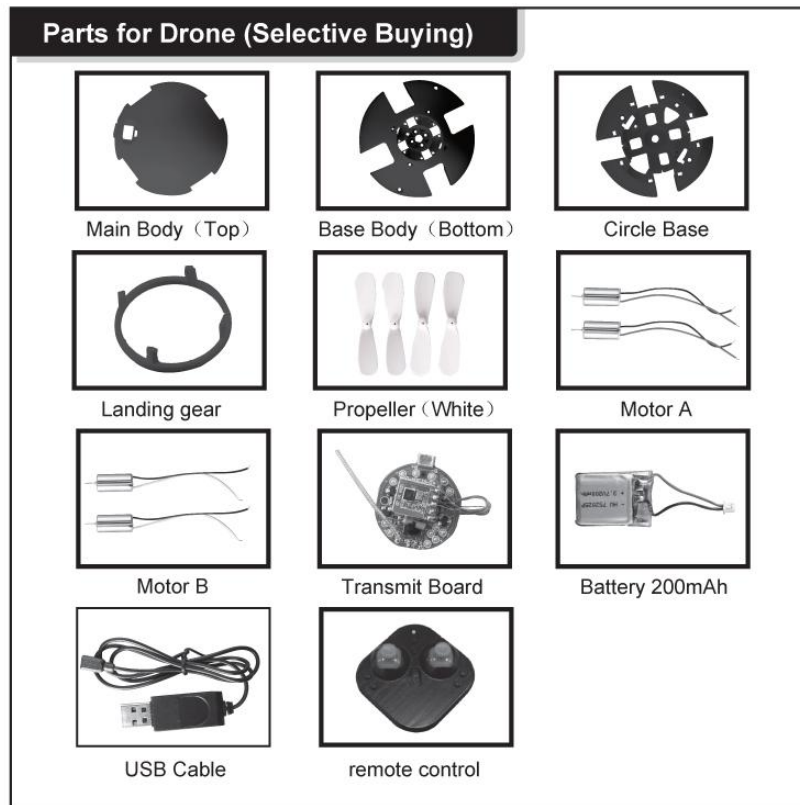
Once you've mastered flying in different directions, practice rotational controls. Keeping the drone facing the same direction as you makes flying easier and more intuitive.

Stay away from walls and ceilings as the drone will be drawn towards them if you fly too close.

If the propeller blades come in contact with another object, or the drone is going to crash, throttle down immediately to prevent further damage.

If anything prevents the drone's blades from spinning, or they become jammed, **THROTTLE DOWN IMMEDIATELY**. Do not attempt to fly until obstruction has been removed and damage fixed.





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### Troubleshooting

Problem / Issue	Cause	Solution
Cannot bind drone to transmitter	a) Low battery b) Electromagnetic interference c) Out of range	a) Make sure the batteries in both the drone and transmitter are fully charged b) Clear out objects between drone and controller c) Put drone and controller closer to each other
Drone does not turn on	Battery too low	Charge battery
Controller does not turn on	a) Switch didn't turn on b) Battery didn't install correctly c) Battery power too low	a) Ensure switch is turned on b) Ensure battery is charged and plugged in correctly c) Charge the battery
Blades do not spin or drone has difficulty taking off the ground, LEDs are flashing	a) Battery power level is too low b) Blades are not installed correctly	a) Fully recharge the battery b) Reinstall the blades following the "Blade Installation" section
Unstable drone flying / strong vibration	Damaged blade(s)	Replace the blade(s)
All blades spin but not flying properly	Blades are not installed correctly	Reinstall the blades following the "Blade Installation" section
Drone crashes immediately	Blades are not installed correctly	Reinstall the blades following the "Blade Installation" section
Drone can not perform 360° Roll	Battery power level is too low	Fully recharge the battery

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## User Manual Note:

Changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

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.