PowerEgg

Drone

English Quick Guide

PEGA-E1.2

CONTENTS

1. Brief Intro

Brief introduction of PowerEgg

Controller

- Standard Controller
- Maestro™
- Base Station

2. Flight Preparation

Download App and then watch tutorials

Check the battery and charging

- Prepare the charger
- Check the battery
- Charge

Prepare remote controller

Prepare aircraft and App

3. Flight and Safety

Flight and shooting

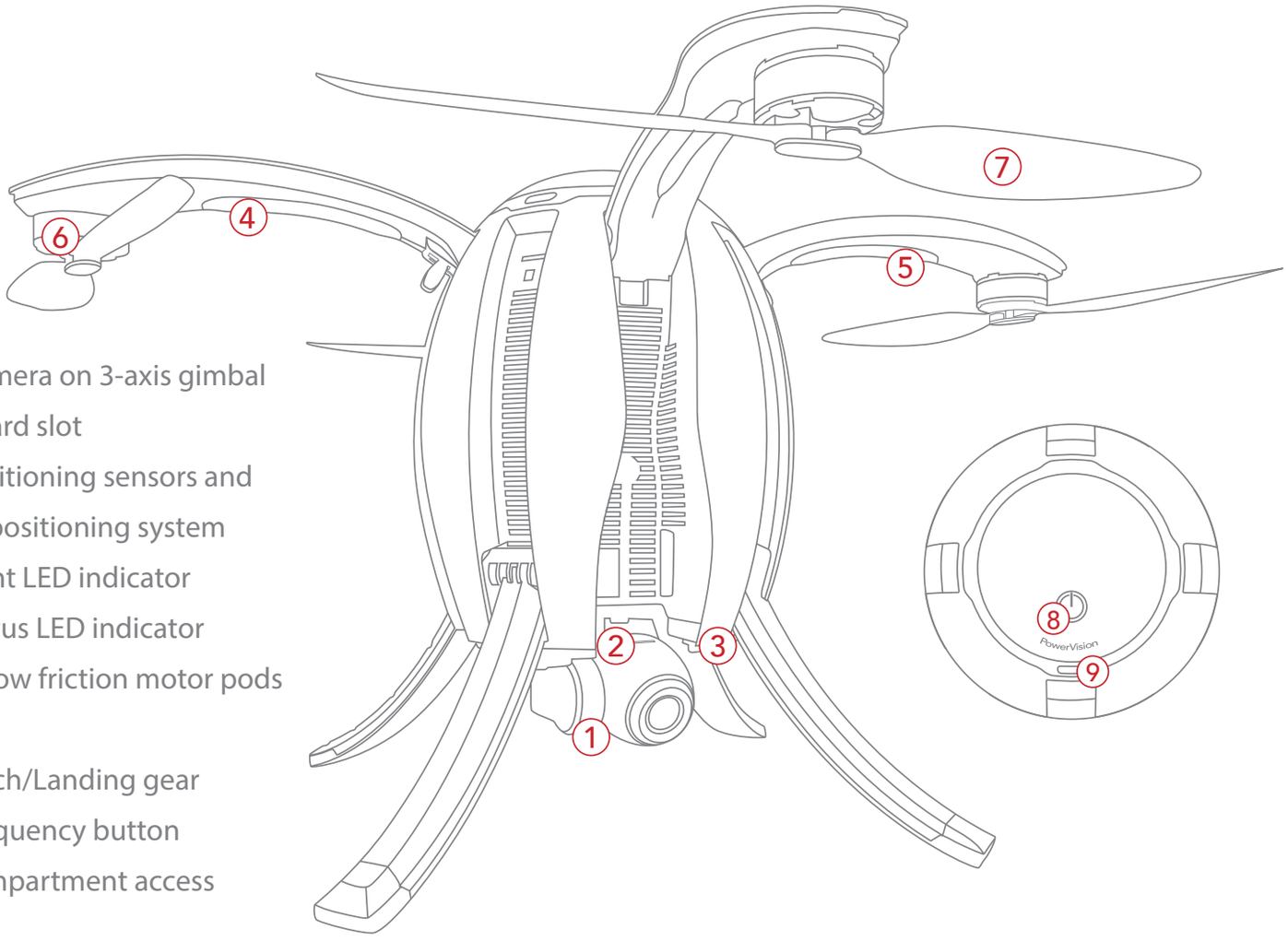
- Flight and shooting with Gesture-based control
- Flight and shooting with Standard remote control

Flight Safety

Brief Introduction of PowerEgg

Aircraft

The PowerEgg™ Aerial Camera Drone is equipped with a high precision navigation control system. It is designed to perform indoor and outdoor hovering, flying, autonomous takeoff landing, and Return-to-Home. It is also equipped with advanced technology to bring you functionalities such as Follow-Me, Orbital Flight, Electronic Fencing, and Autonomous Flight modes. The gesture-based controller-PowerEgg Maestro™ - simplifies flight operation and gimbal control. The 3-axis gimbal camera delivers still images with over 12 million Pixels and 4K UHD 360-degree panoramic video recording. PowerEgg's maximum flight speed can reach 50 km/h (approx. 31 mph), and its maximum flight time is approximately 23 minutes.



1.4K UHD camera on 3-axis gimbal
2.Micro SD card slot
3.Optical positioning sensors and Ultrasonic positioning system
4.Aircraft front LED indicator
5.Aircraft status LED indicator
6.Brushless, low friction motor pods
7.Propellers
8.Power switch/Landing gear control/Frequency button
9.Battery compartment access button

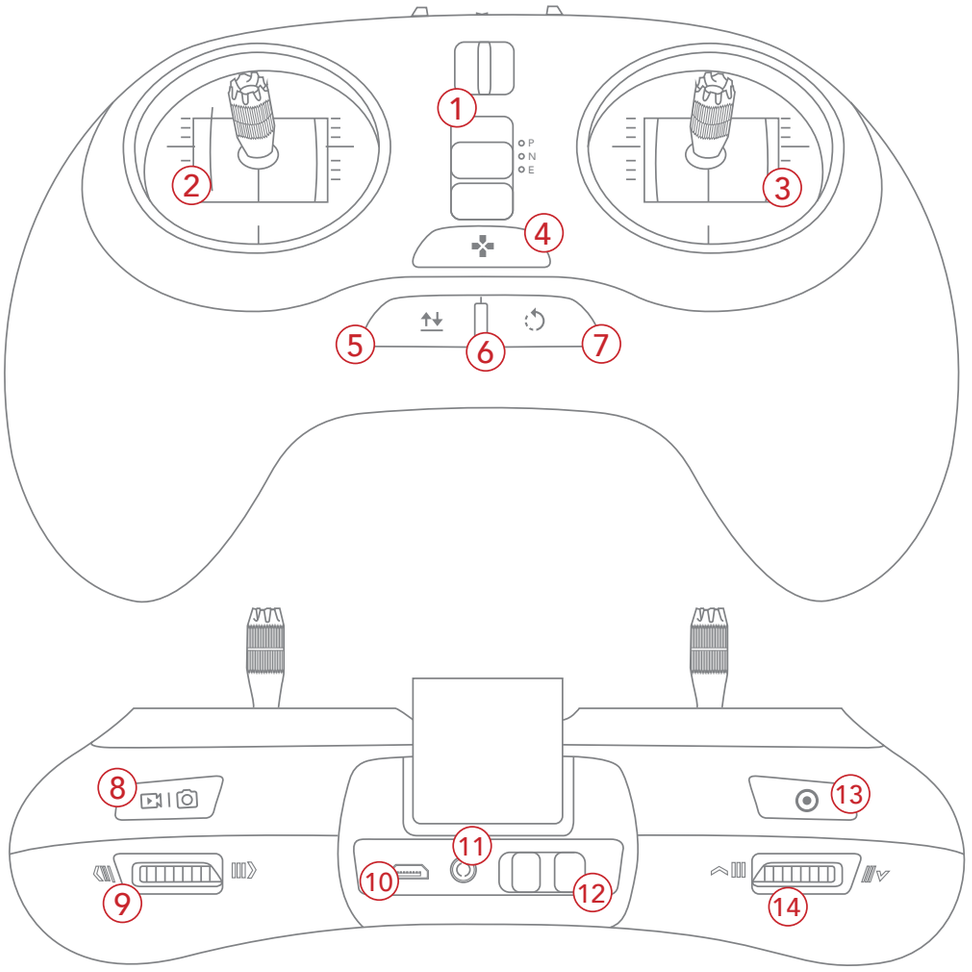
Controller

• Standard Controller

The PowerEgg™ standard controller has integraded “one-click” technology. With one click, users can manage takeoff and landing, Return-to-Home, Follow Me, and have the camera orient toward the pilot.Users can easily perform other tasks by using the standard two-handed controller, including landing gear retraction, gimbal pitch control, gimbal roll control, photo taking, and video recording.

The PowerEgg™ standard controller is powered by a rechargeable battery with a capacity of 3000mAh It can work continuously for 20 hours. Users may check battery percentage by the light indicator on the controller.

1.Mode switch
2.Left joystick
3.Right joystick
4.Custom button
5.Takeoff/land/stop landing
6.status/battery indicator
7.Return-to-home/stop return to home
8.Top right button: take photos/ videos
9.Right finger wheel: gimbal yaw
10.MicroUSB charge port
11.Port: connect to base station
12.Power Switch
13.Left top button: gimbal back to position with short press / selfie with double press / gimbal face downward with long press
14.left finger wheel: gimbal pitch



*Remote Control Mode:Users can choose between the Mode 1 and Mode 2 of controller modes in PowerEgg’s App. Mode 2 is recommended for beginner pilots.

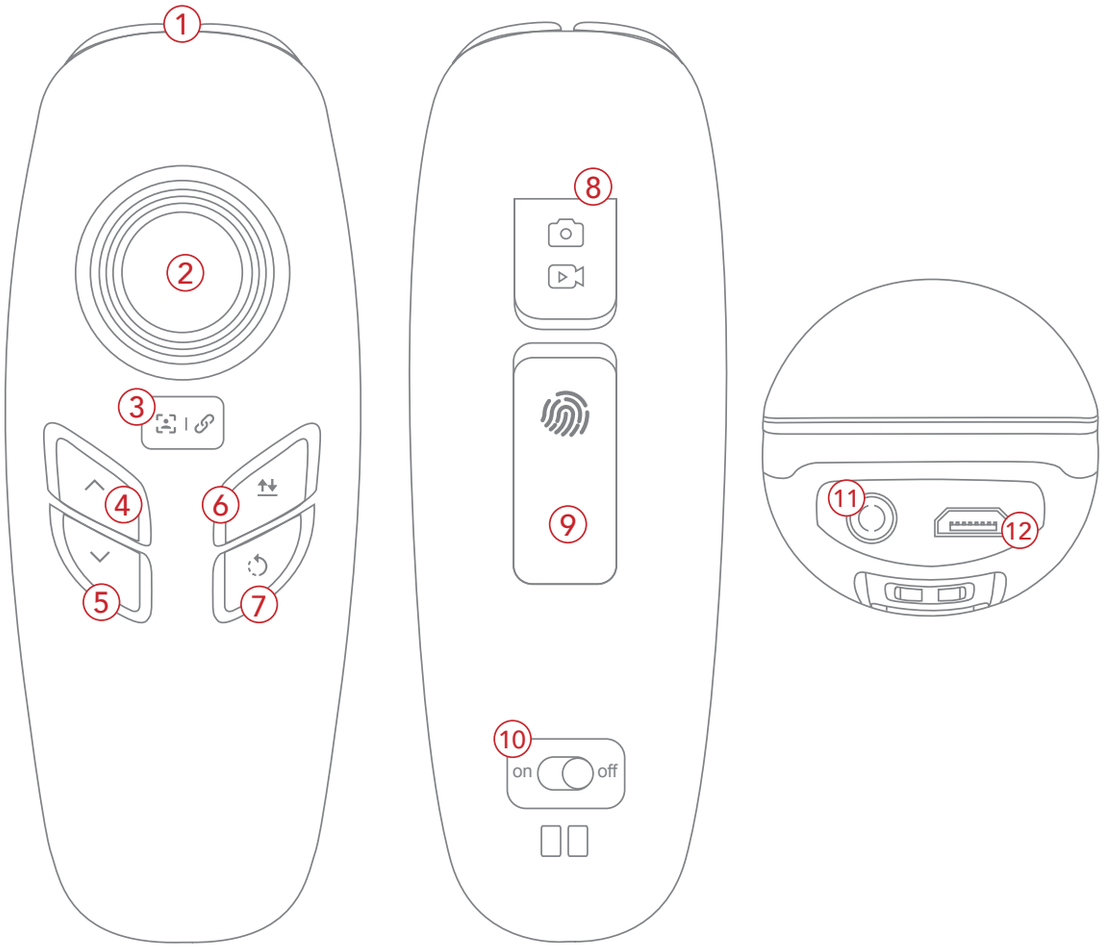
Controller

• PowerEgg Maestro™ Gesture-Based Controller

PowerEgg Maestro™ controller simplifies aircraft operation and navigation by allowing users to control the aircraft through body gestures.It has integrated“one-click”technology that allows users to perform takeoff and landing, Return-to-Home, Follow Me, and selfie taking with a single click. Users can also adjust gimbal pitch, take pictures, and record videos by using the controller.

PowerEgg Maestro™ controller is powered by a rechargeable battery with a capacity of 1500mAh. It can work continuously for 10 hours. Users may check battery percentage by the indicator lights.

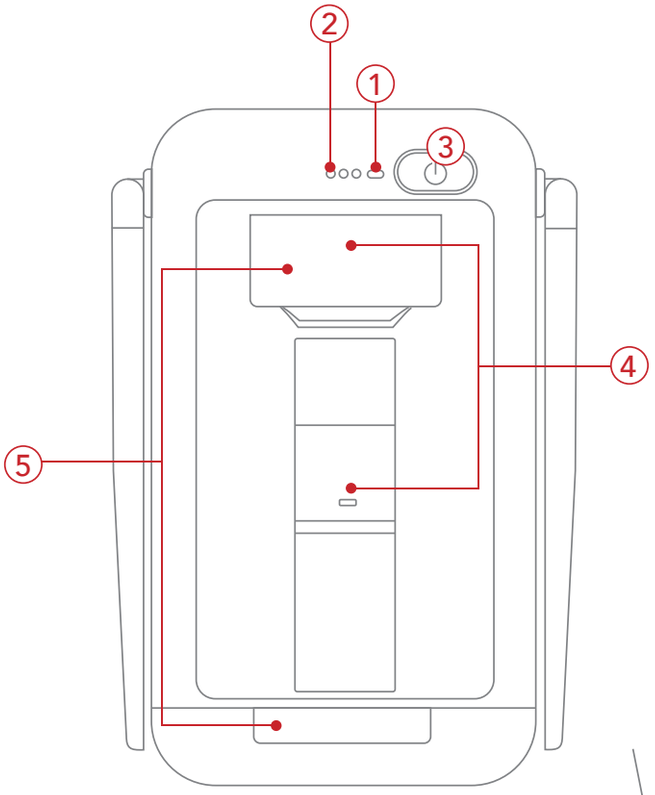
1.Status/Battery indicator
2.Joystick：gimbal control
3.Custom button
4.Ascend button
5.Descend button
6.Take off/land/stop landing
7.Return-to-home
8.Take photos/videos
9.Gesture activation
10.Power switch
11.Port：connect to base station
12.MicroUSB charging port

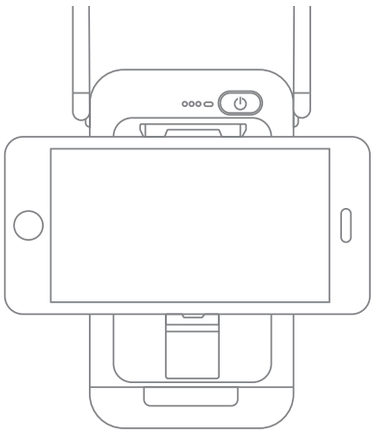


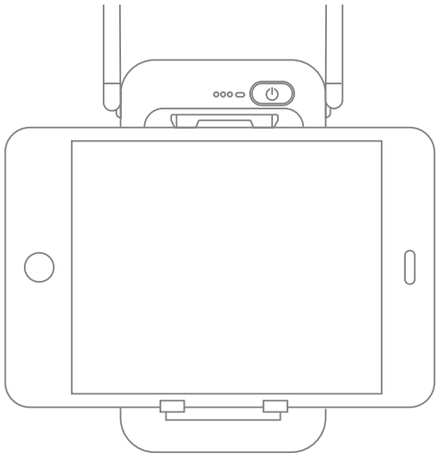
Controller

• Base Station

The PowerEgg Base Station integrates a with cutting edge UHD image and data transmitting system, which can output the video and flight status to smart phone, tablet and other compatible devices. The maximum distance of image/data transmission in an ideal environment is 3.1 miles.







How to use bracket is presented in the graph.

*Refer to user manual or websites for supported devices.
**Depending on the local law and environment, transmitting distance in CE zone will shorten accordingly.

1.Battery indicator
2.Image transmitting signal indicator
3.Power switch
4.Cell phone Connection Bracket
5.Tablet Connection Bracket
6.USB port
7.Port: connect to remote control
8.MicroUSB charging port

Flight preparation

Download APP and other resuoces

Please scan QD code to download Vision + APP, PC Suite, User Manual, Specification and watch video tutorials.

中国区

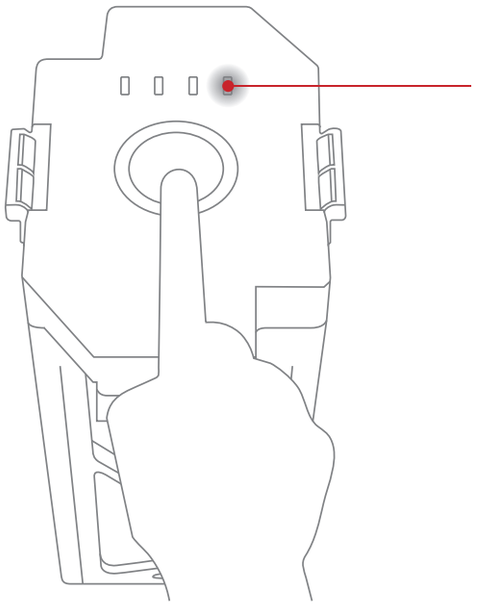
Europe

North America

Check the battery and charging

- Check the battery

Aircraft Battery

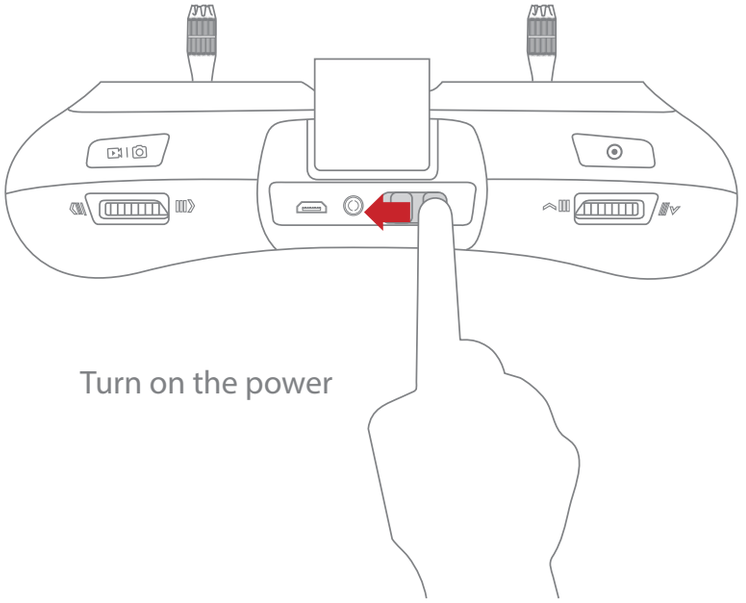


Check the battery indicator

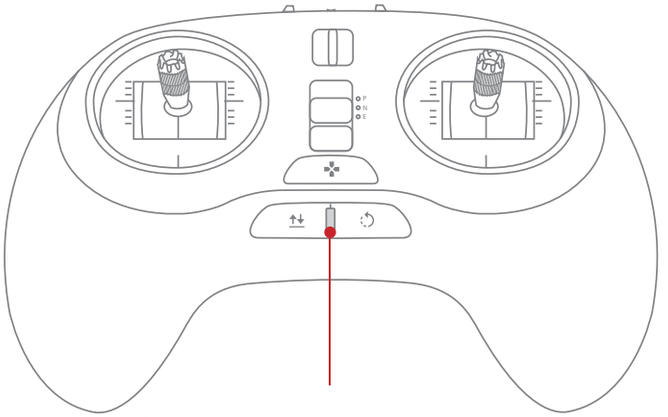
Each light indicates 25% battery level

Press the button of battery; the illuminated lights indicate the battery remaining capacity

Standard Controller



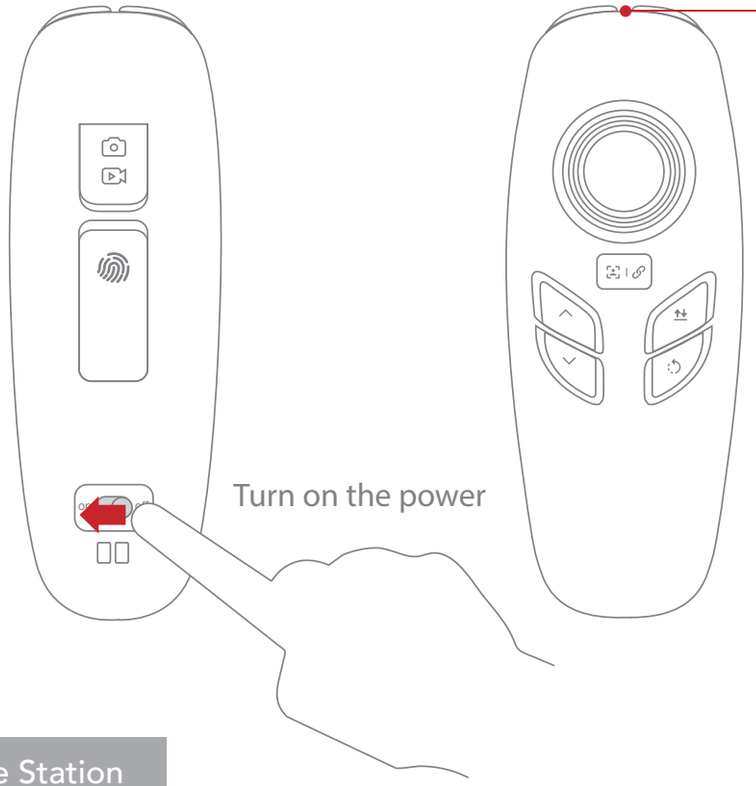
Turn on the power

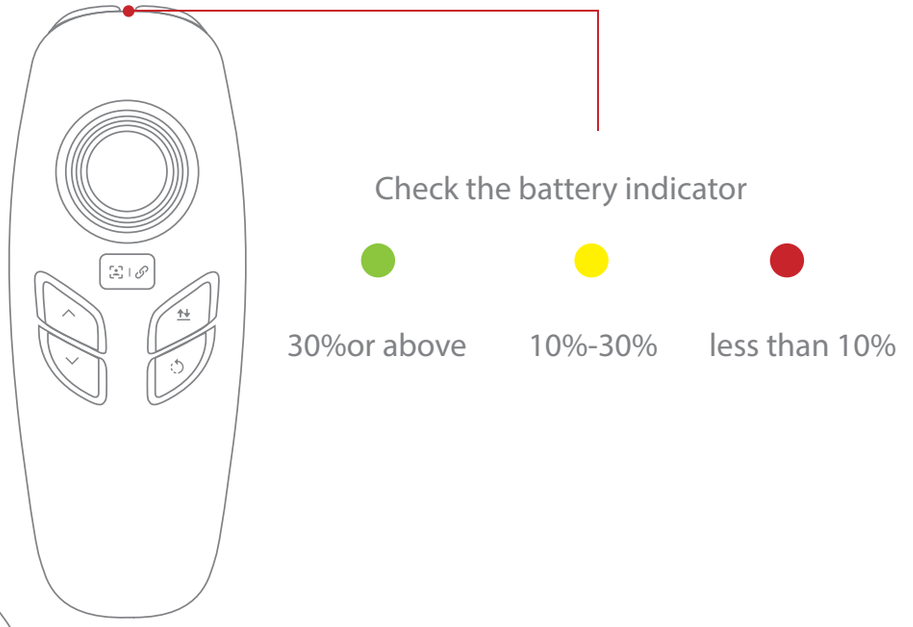


Check the battery indicator

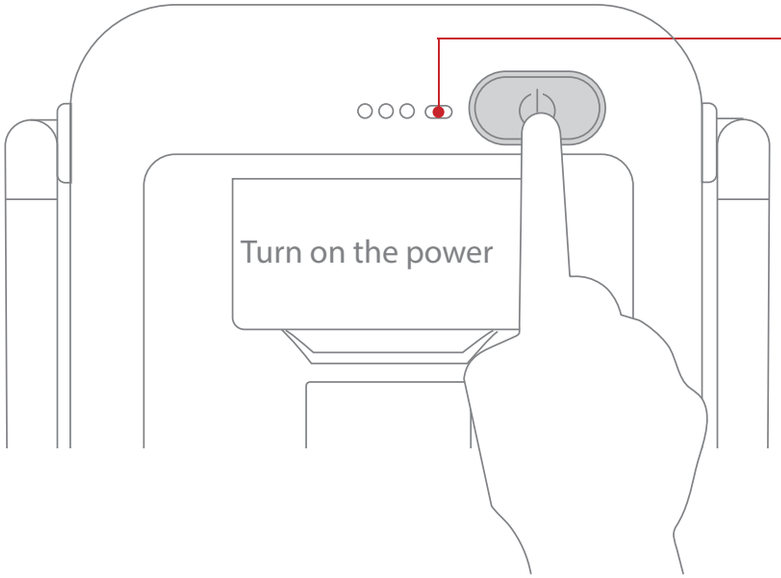
30%or above 10%-30% less than 10%

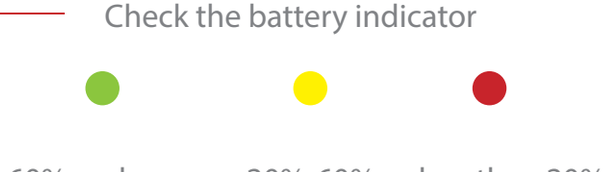
Maestro™



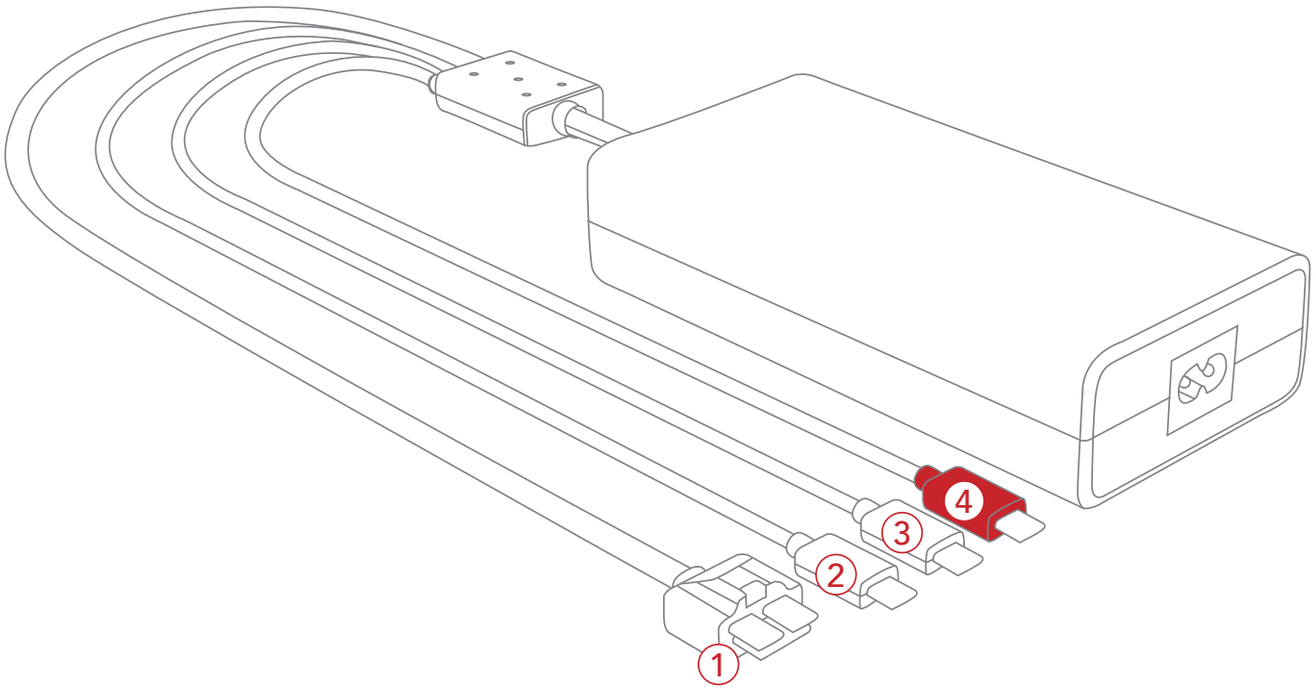


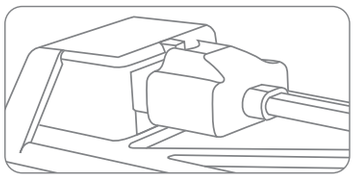
Base Station





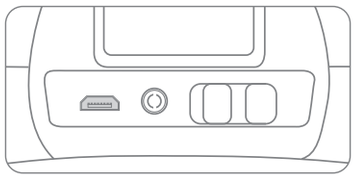
Battery , Standard Remote Controller , PowerEgg Maestro™ Controller , and Base Station can be charged simultaneously.





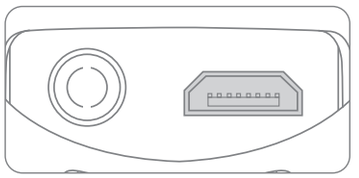
① Aircraft Battery

can take ~2.5 hours
to be fully charged



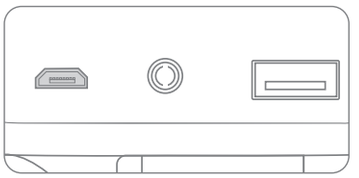
② Standard battery

can take ~3.5 hours
to be fully charged



③ Maestro™ battery

can take ~2 hours
to be fully charged

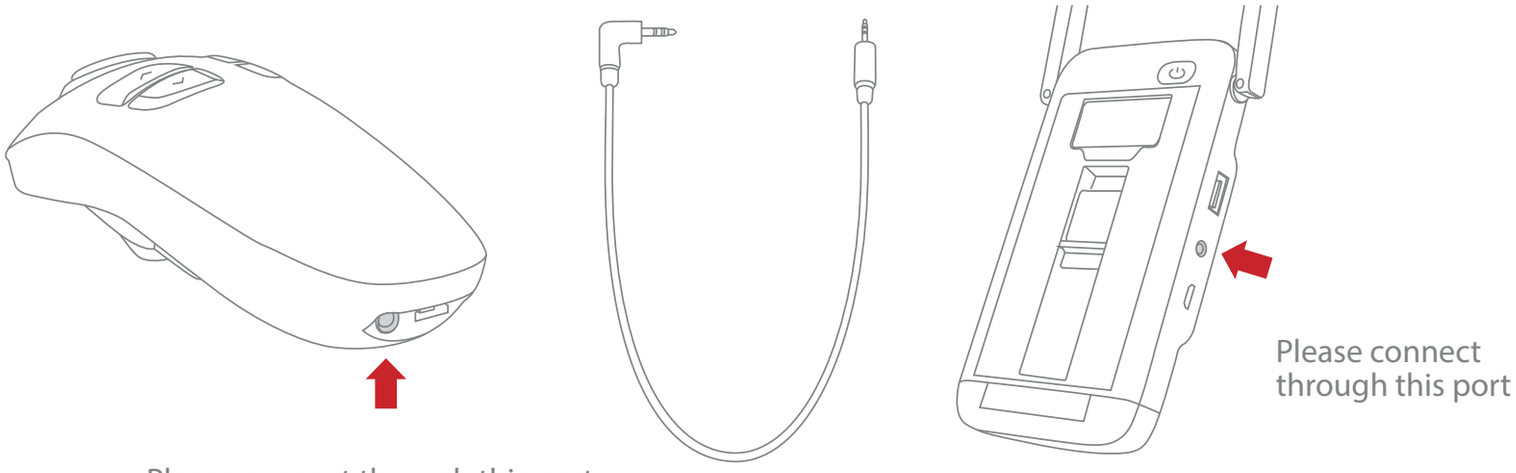


④ Base Station battery

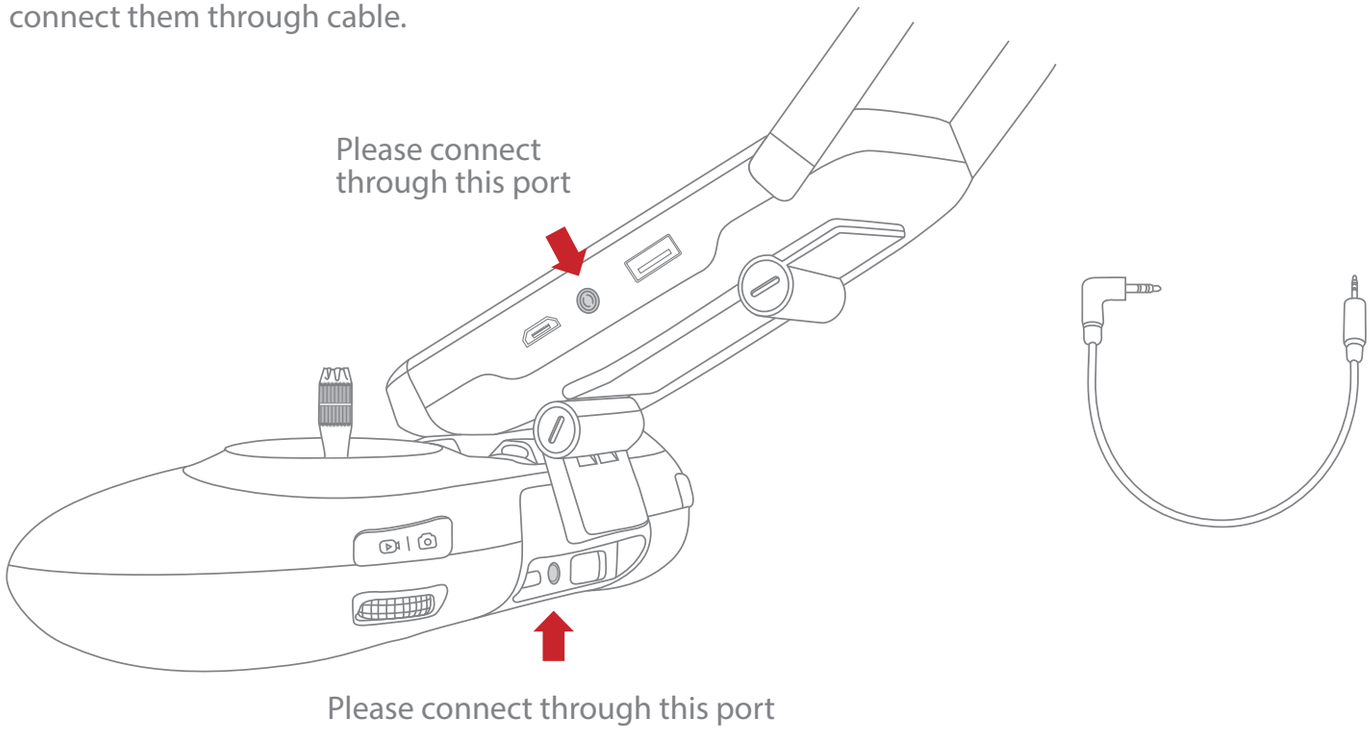
can take ~5 hours
to be fully charged

Prepare the remote controller

If using PowerEgg Maestro™ as your controller, connect the base station and the controller through cable.

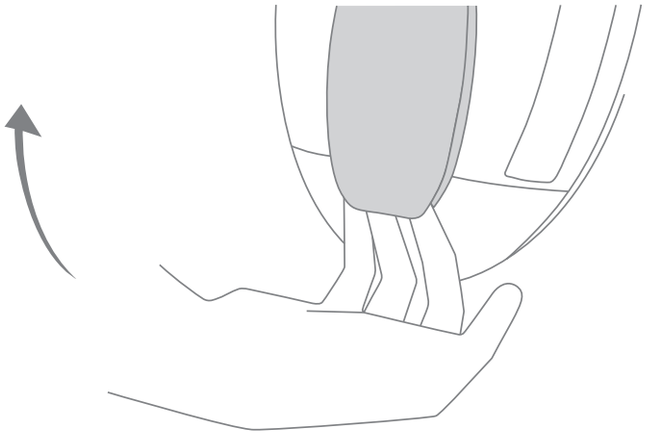


If using the standard controller, place the base station on the bracket of the standard controller and connect them through cable.

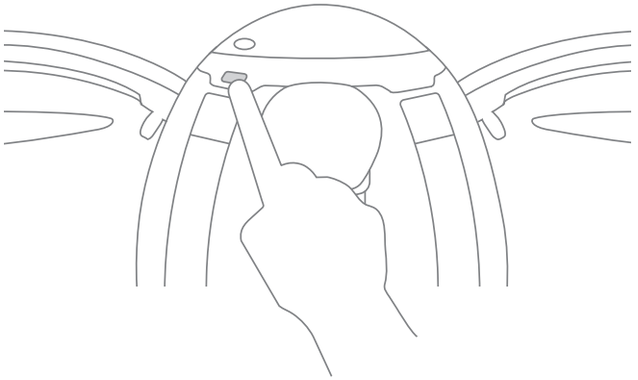


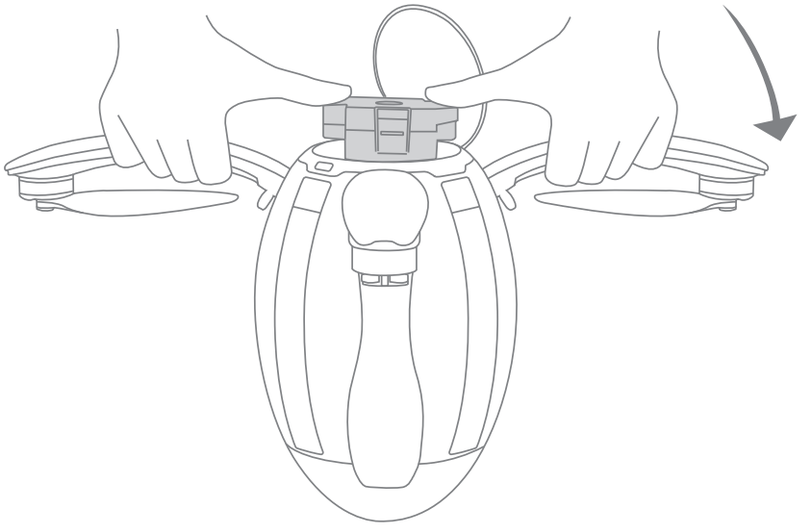
Prepare the aircraft

1.Open PowerEgg's four arms , using the position as shown in picture. There will be have a clicking sound Indicating that they are in position.

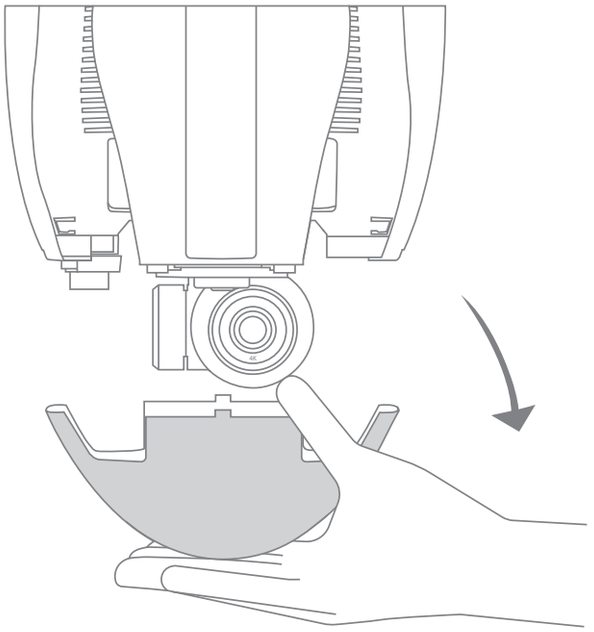


2. Open the top battery cover. Press the battery into chamber while holding the arms. Attention: Do Not put pressure on the battery, as it may cause damage to the landing gear.

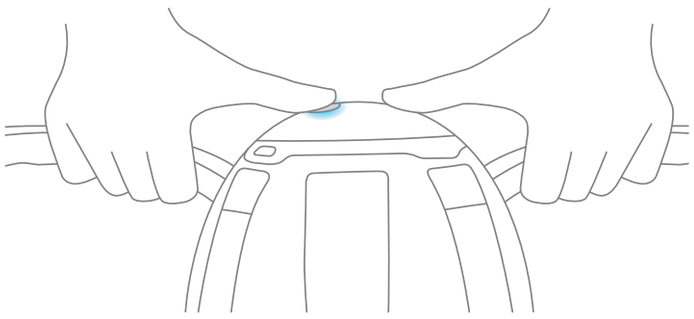


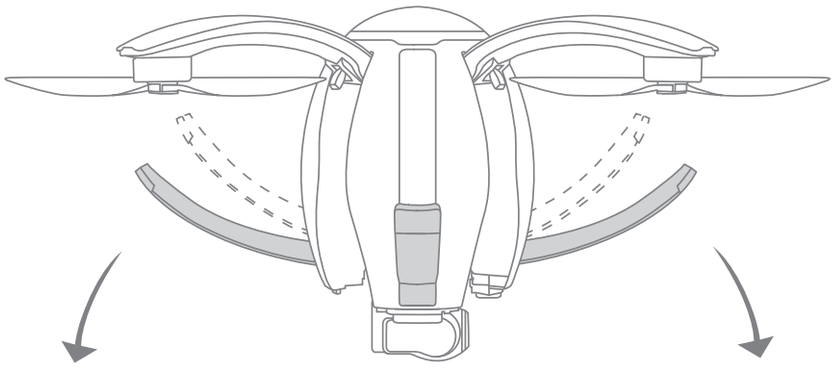


3.Take the gimbal cover off the bottom.

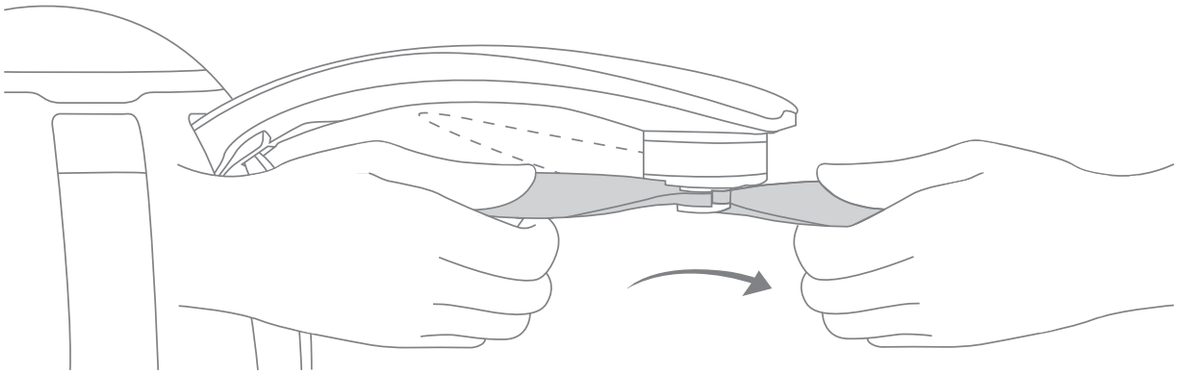


4.Press once and then long press the power button until the blue light is on. After the notification sound, press the power button 3 times in quick succession to deploy the landing gear.

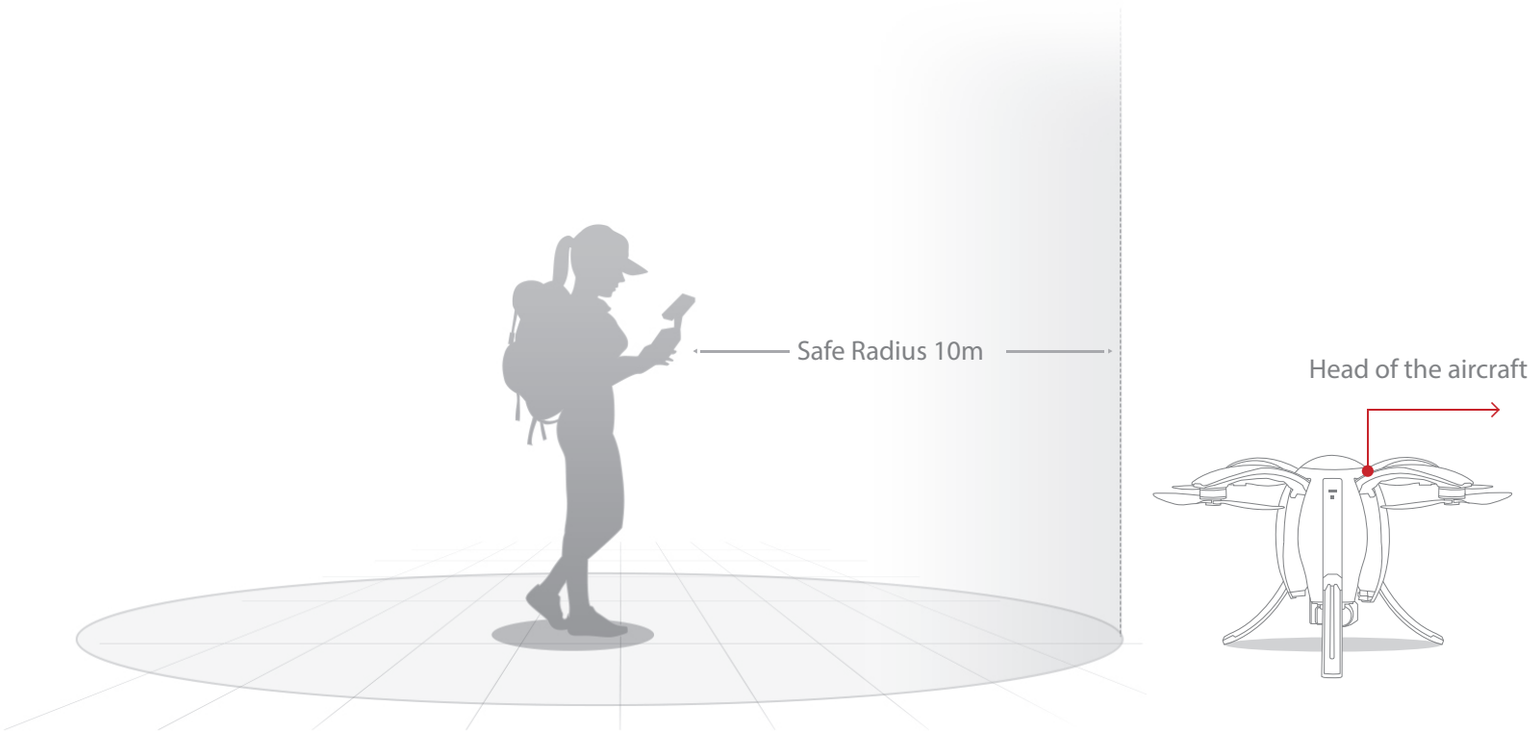




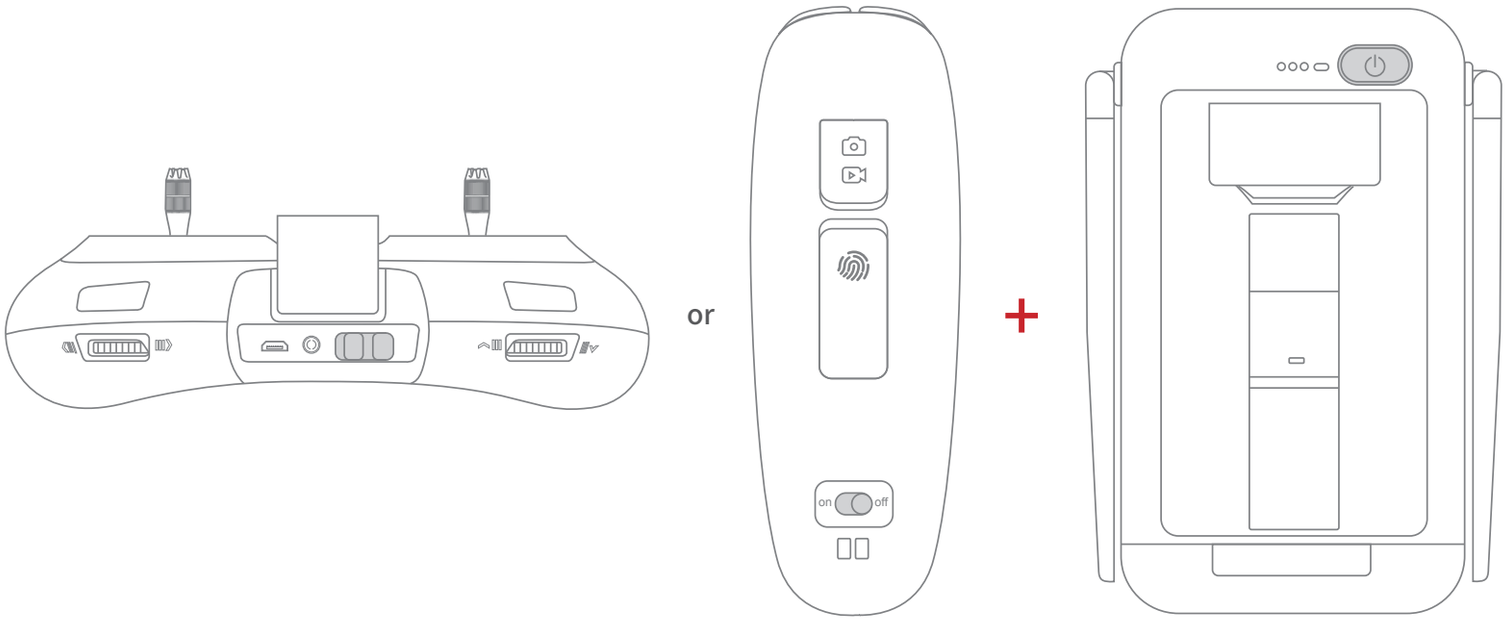
5.Open propellers with both hands.



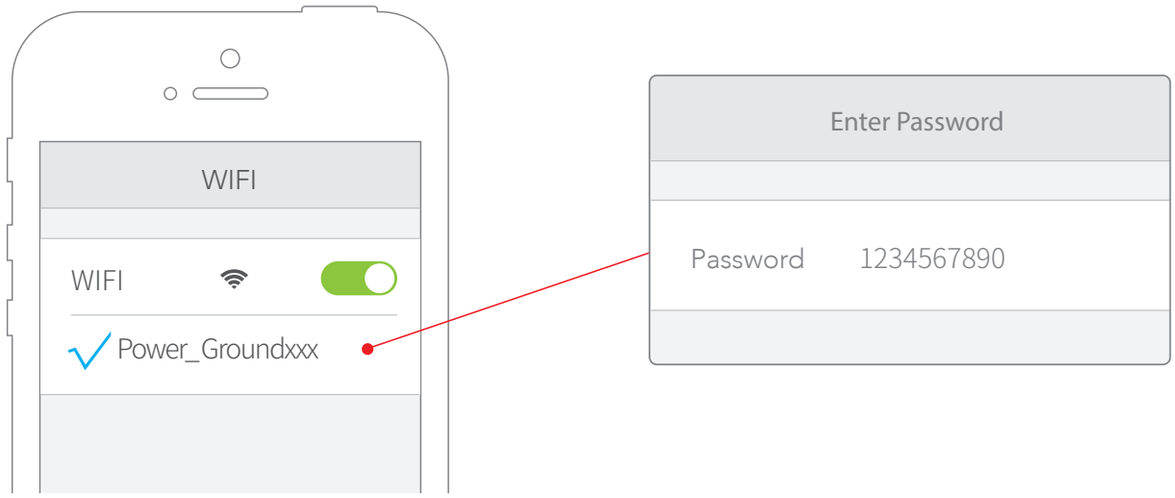
6.Place the aircraft at a safe distance over 10 meters away from people on suitable ground. The head of the aircraft should face the direction that the pilot is facing.



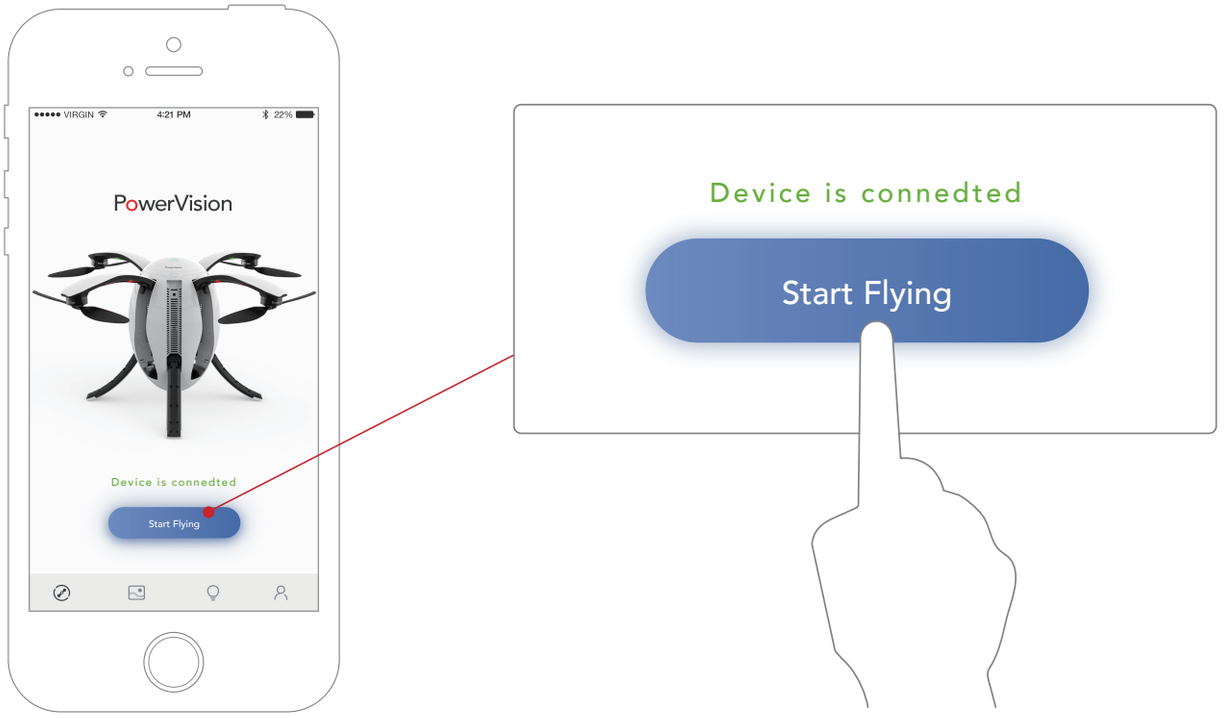
7.Turn on the standard controller or Maestro™ and base station.



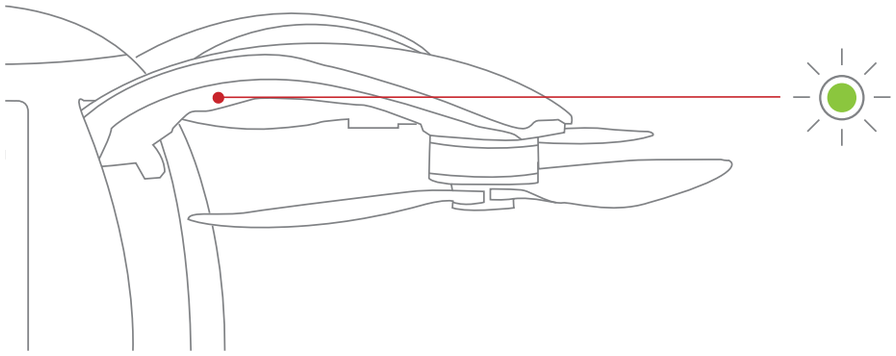
8.Turn on your mobile device and connect WIFI: Power_Groundxxx. Password is 1234567890.



9.Open Vision+ App . After around 30 seconds, click Start Flying when it shows device is connected.

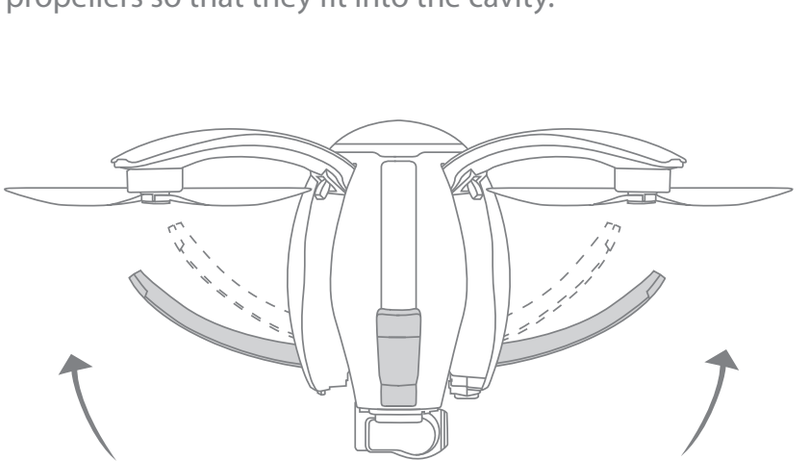


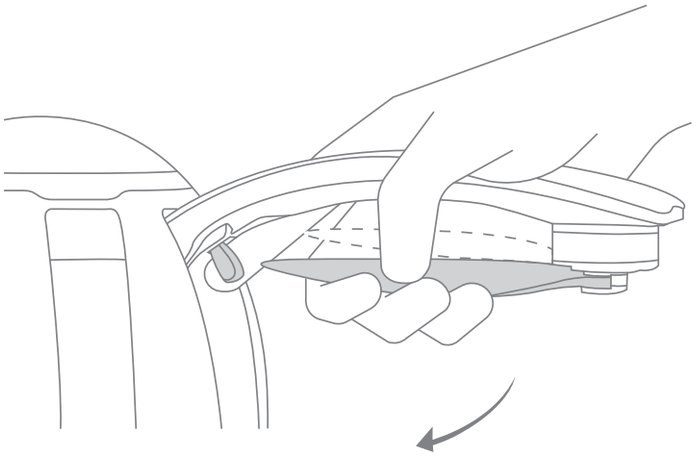
10.For outdoor flight under the mode of P/N/E, wait until the aircraft status indicator becomes, and the status indicator of standard controller or Maestro™ turns green. This indicates the aircraft is prepared for unlocking and flight.



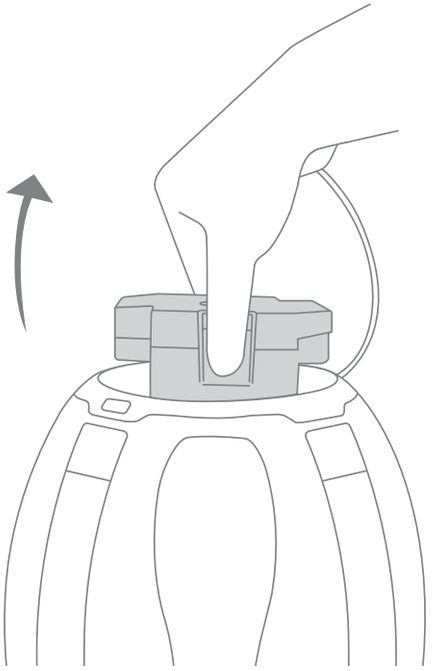
* The Wi-Fi communication frequency of the base station is 5G. Mobile phones that do not support 5G Wi-Fi will not be able to connect to the base station. Users may change or reset Wi-Fi password anytime using the Vision+ App.
**When you go the place you never flied before, please open the app and zoom in and move the map before connect to the base station, so the data can be saved in local and flight won't be influenced.

11.When collapsing your PowerEgg for storage, while holding the aircraft off the ground by one of its arms,press the power button three times in rapid succession, the landing gear will automatically close Close the arms one by one by depressing the trigger located on the under side, making sure to position the propellers so that they fit into the cavity.





12.Take out the battery. Press the battery lock with thumb and index finger while pulling out the battery.



Flight and Safety

Flight and shooting

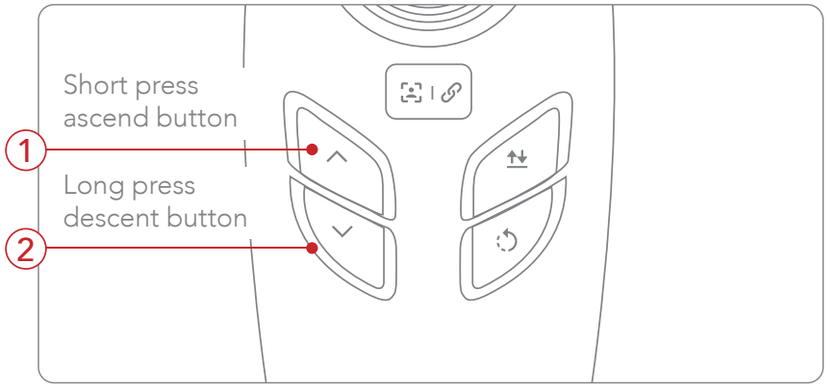
Two ways of controlling aircraft:

• The Standard controller can control the PowerEgg with precision through dual joysticks. It can take off and land, return to home, Follow Me, open and close the landing gear, control gimbal movement, reorient the aircraft, and take photos and shoot videos.

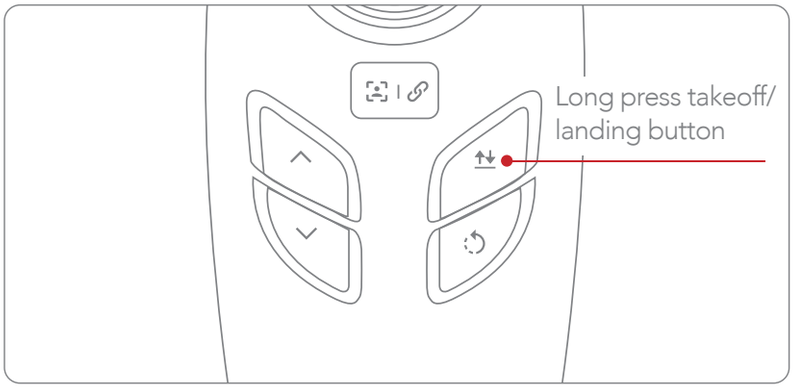
• Maestro™ provides full control of the aircraft, through gestures and movement of the controller.

• Using PowerEgg Maestro™ gesture-based controller to control flight and shooting

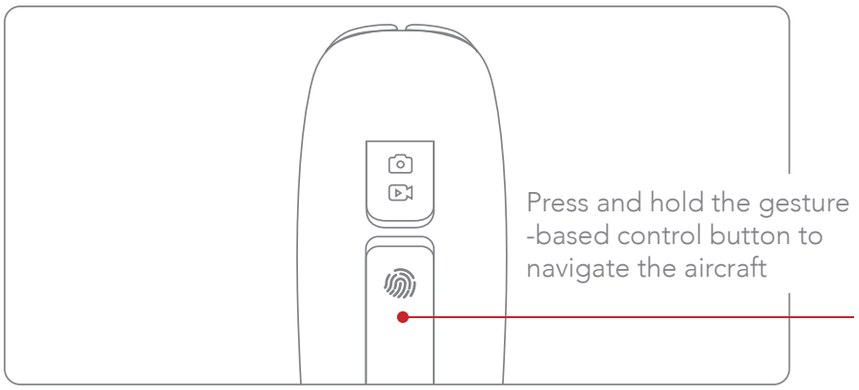
After connecting to the base station and gesture-based controller, Vision+ App shows "Simple Flight Mode. Safe to fly"



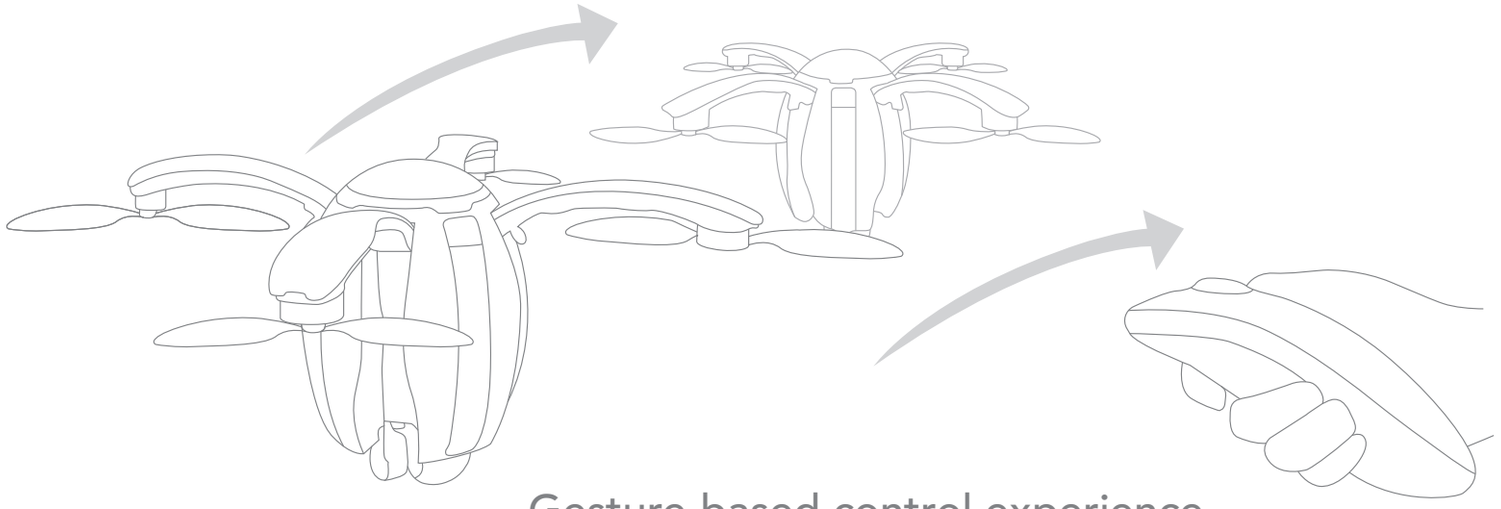
1.Press ascend button once, then press and hold descend button to unlock the aircraft.



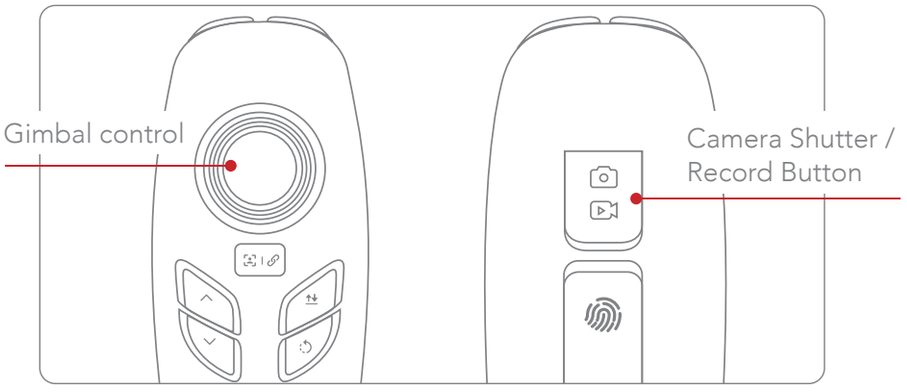
2.Take off：Press and hold takeoff/landing button until it viberates, the aircraft will take off and hover autonomously.



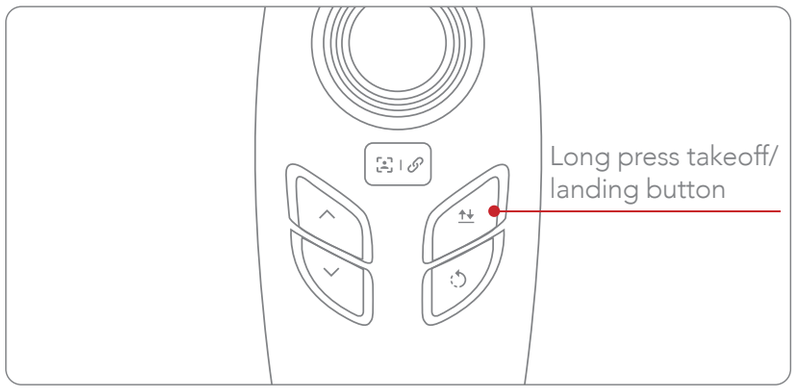
3.Flight control ：Press and hold ascend button to desired height, then use the gesture-based control button to navigate the aircraft by body gestures.



Gesture-based control experience



4.You can control the gimbal and take photos and videos during the flight.



5.To land the aircraft, press take off/landing button. The aircraft will release the landing gear, land and lock autonomously (Press takeoff/landing button once to cancel autonomous landing).

*During any flight emergency, pilots can press the combination of descend button, shooting button, and swipe the gesture-based control button upwards to stop and lock the aircraft immediately, as shown in the picture (Aircraft will cease function and fall. Be wary of your surroundings).

**Maestro™ is not supported for indoor flight.

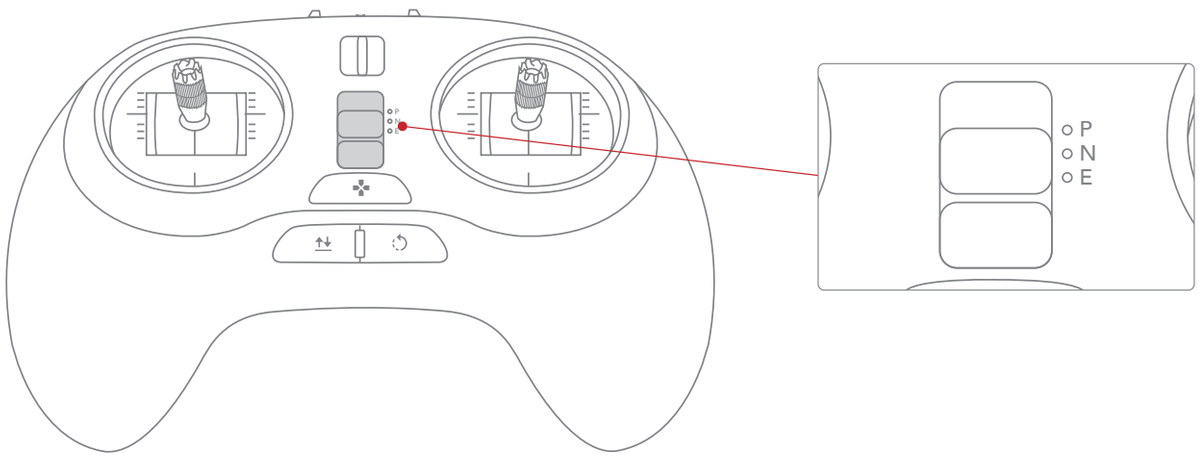
• Using standard controller to control flight and shooting

Mode 2 is the default setting for PowerEgg's remote controller. The left stick controls Throttle and Yaw, and the right stick controls Pitch and Roll. Remote controller has mode 1 and 2 that you can set in Vision+.Mode 2 is recommended for new pilots .

Mode 1:Right stick controls Throttle

Mode 2:Left stick controls Throttle

1.Switch the remote controller to N-Mode (Normal mode), App shows "Normal mode. Safe to fly."



* P mode (Professional)：manual flight mode, aircraft maintains the height automatically and pilot using joysticks control the direction.

* N mode (Normal)：fixed point flight mode, aircraft uses GPS or vision positioning system to stay in a place accurately.

* E mode (Easy Control)：Easy mode, aircraft GPS for positioning. Aircraft flight is relative to pilot and not aircraft orientation.

2.Unlock motors: Position both joysticks toward the bottom center like a "V" to unlock.

3.Take off：Push the throttle stick slowly to let aircraft rise steadily

Automated Take Off: After long pressing the take off / landing button on standard remote controller until it vibrates, aircraft will rise and hover in the air.

4.You can control the gimbal and take photos or videos during the flight.

5.Landing：Slowly pull the throttle stick to let the aircraft land smoothly. Then pull the throttle stick to the very bottom for 2 seconds until motors stop spinning.

Automated Landing: After long pressing the take off / landing button on standard remote controller until it vibrates, aircraft will release the landing gear and land (Press takeoff/landing button once to cancel autonomous landing).

*Attention：During any flight emergency, pilot can control left joystick into bottom left position, and press and hold Return-to-Home button to lock and stop the aircraft immediately (Aircraft will cease function and fall. Be wary of your surroundings).

Flight Safety

Fly in an open space

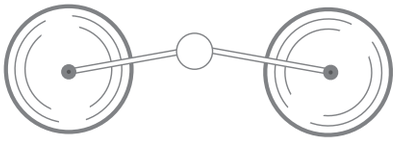
GPS Signal> 13 Satellites

Keep your drone in sight

Flying below 120m

Please stay away from crowds, electric wires, tall buildings, and airports. Transmitting tower, high voltage wires and large magnetic metal structures may influence the aircraft and cause safety issues.

Do NOT fly in severe weather conditions such as those involving snow, rain, smog, tornados and strong wind (wind speed above 10m/s)



Please do not touch spinning propellers; otherwise, it will cause serious personal and property damage

No fly zone

Please refer to following website：http://knowbefo-reyoufly.org/air-space-map/

FCC

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.

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

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.

The antenna(s) used for this transmitter must be installed to provide a separation distance of at least 20 cm from all persons and must not be co-located or operating in conjunction with any other antenna or transmitter.

This equipment complies with FCC radiation exposure limits set forth for an uncontrolled environment. End user must follow the specific operating instructions for satisfying RF exposure compliance. This transmitter must not be co-located or operating in conjunction with any other antenna or transmitter.

The portable device is designed to meet the requirements forexposure to radio waves established by the Federal Communications Commission (USA). These requirements set a SAR limit of 1.6 W/kg averaged over one gram of tissue. The highest SAR value reported underthis standard during product certification for use when properly worn on the body.

IC

This device complies with Industry Canada’s licence-exempt RSSs. Operation is subject to the following two conditions:

(1) This device may not cause interference; and

(2) This device must accept any interference, including interference that may cause undesired operation of the device.

Cet appareil est conforme aux CNR exempts de licence d'Industrie Canada. Le fonctionnement est soumis aux deux conditions suivantes:

(1) Ce dispositif ne peut causer des interférences; et

(2) Cet appareil doit accepter toute interférence, y compris les interférences qui peuvent causer un mauvais fonctionnement de l'appareil.

This equipment complies with ISED radiation exposure limits set forth for an uncontrolled environment. End user must follow the specific operating instructions for satisfying RF exposure compliance. This transmitter must not be co-located or operating in conjunction with any other antenna or transmitter.

The portable device is designed to meet the requirements for exposure to radio waves established by the ISED. These requirements set a SAR limit of 1.6 W/kg averaged over one gram of tissue. The highest SAR value reported under this standard during product certification for use when properly worn on the body.

Cet équipement est conforme aux limites d’exposition aux rayonnements ISED établies pour un environnement non contrôlé. L’utilisateur final doit suivre les instructions spécifiques pour satisfaire les normes. Cet émetteur ne doit pas être co-implanté ou fonctionner en conjonction avec toute autre antenne ou transmetteur.

Le dispositif portatif est conçu pour répondre aux exigences d’exposition aux ondes radio établie par le développement énergétique DURABLE. Ces exigences un SAR limite de 1,6 W/kg en moyenne pour un gramme de tissu. La valeur SAR la plus élevée signalée en vertu de cette norme lors de la certification de produit à utiliser lorsqu’il est correctement porté sur le corps.

CE

Operation frequency: 2400 to 2483.5MHz; Maximum output power: 100mW for EU.

PowerVision

www.powervision.me

Available on the App Store

Get it on Google play


CHINA
+86 400 870 1088


UNITED STATES
+1 855 562 6699


EUROPEAN UNION
+358 942 450 547


FINLAND
+358 942 450 547


GREAT BRITAIN
+44 135 936 6050


FRANCE
+33 975 186 604


GERMANY
+49 157 3599 7721


SPAIN
+34 518 880 950


ITALY
+39 029 475 6809


POLAND
+48 22 307 2388


NETHERLANDS
+31 85 888 5010


CZECH REP
+42 035 888 0180

70100018-02