



# PowerEye

## Quick Start Guide

PowerVision

### Brief introduction

Thank you for choosing PowerEye! Reading this Quick Start Guide will help you learn about the basic functions of PowerEye as well as some of the basic skills needed for flight.

### Attention

This drone is not a toy. It requires a basic understanding of the features and controls to operate and it can be dangerous. Please use and operate responsibly.

It's a good idea to do some test flights in a familiar, wide open space to get familiar with the operations and features. Note: flight restrictions vary by location and some areas may require a permit to fly. If you're unsure contact you local authorities, but in general avoid the following locations:

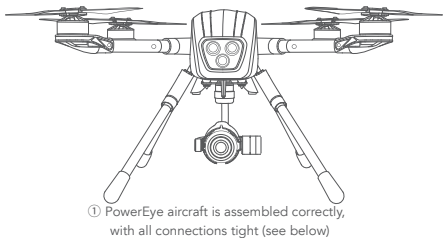
- ① Airport and surrounding areas
- ② Power generator and surrounding areas
- ③ Military facilities
- ④ Oilfield
- ⑤ Crowded area

Also be wary in flying under the following conditions, as it is not recommended:

- ① Non-ideal weather conditions (extreme windy, rainy, thunderstorm, etc.)
- ② In Arctic or Antarctic circle (can NOT use any mode other than Manual mode)
- ③ Altitude above 3000m

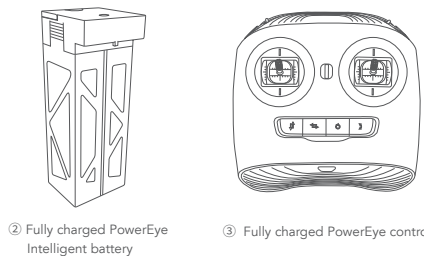
### Preparing for your first flight

Please check the following prior to taking PowerEye for its first flight:



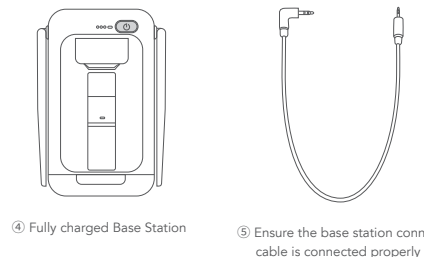
- ① PowerEye aircraft is assembled correctly, with all connections tight (see below)

1



- ② Fully charged PowerEye Intelligent battery

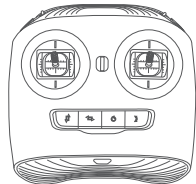
- ③ Fully charged PowerEye controller



- ④ Fully charged Base Station

- ⑤ Ensure the base station connection cable is connected properly

If you choose to have a separate gimbal and camera operator, you need a second PowerEye controller.

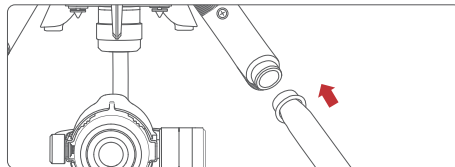
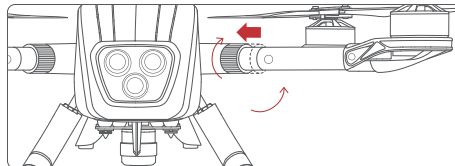


2

### Aircraft

PowerEye's arms are foldable and the legs of are easily removable. Follow these steps to ensure the aircraft is ready for flight:

- ① Raise the arms to horizontal position
- ② Push the locking nut to the inside
- ③ Rotate the nut clockwise to tighten, ensuring arms are secure
- ④ Insert the legs into the aircraft and rotate until locked into place



### Intelligent battery

PowerEye features an intelligent battery that when the status button is pressed will indicate via the four LED lights the charge level of the battery.



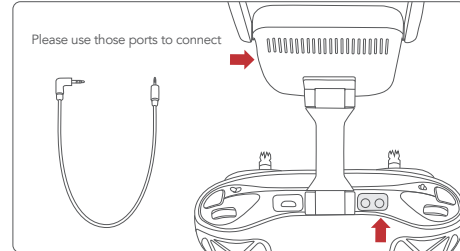
We highly recommend not flying PowerEye when the battery level is below 50%

3

### Flight Prep and connection

Connect to remote control system

- ① Unfold base station holder
- ② Put base station on the holder, and open the antenna
- ③ Connect base station and remote control with cable
- ④ Long press the power button of base station and remote control for three seconds to power on



If you need to use extra a second controller to control the gimbal, you need to do those following steps

- ① After connecting one remote control to the base station, long press the frequency-matching button until you hear a notification sound, and it flashes a red light. Long press the second remote control's frequency-matching button until it also makes a notification sound, and it's light flashes red.
- ② After a few seconds the two remote controls will show green lights, indicating a successful connection.



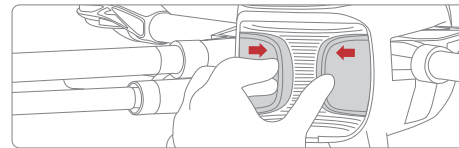
Attention: every time that you reboot any remote controller, you need to redo the frequency matching.

4

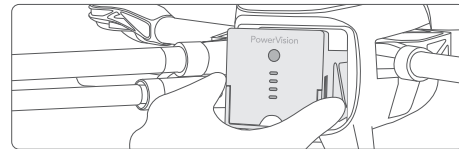
Turn on the aircraft

The process of turning on the aircraft:

- ① Open the battery door and put the battery in the compartment.



- ② Short press and hold the battery switch of aircraft, until you see the LED light running to the end. Release the button to start the aircraft. The power button of aircraft will be lit and the battery indicator will represent the battery level.
- ③ Close the battery door.



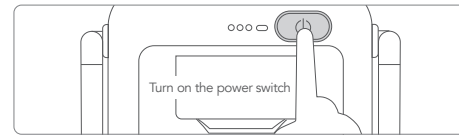
Connection between base station and aircraft

When aircraft or base station is turned on, the internal communication module will automatically establish the connection. It usually takes about 50 seconds. When the status lights are all green the connection is established. When the remote control and base station have established a connection a notification sound will be heard.

connection between base station and smart mobile device

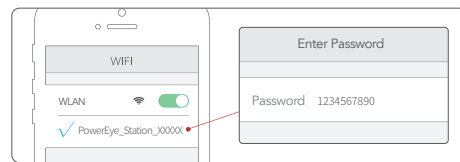
After your mobile device has installed the Vision+ App, you'll need to connect to the base stations via WiFi.

- ① Ensure the base station is powered on

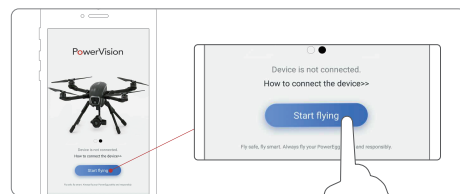


5

- ② Turn on the mobile device WiFi and search for "PowerEye\_Station\_XXXXX"
- ③ Connect to the WiFi network using password "1234567890" to join



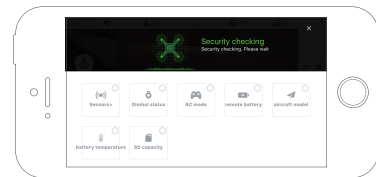
- ④ Ensuring a successful connection, return to the Vision+ App



### Takeoff and flight

Please put the aircraft at least 5m (~15 feet) away, and face the aircraft away from the pilot. Use Vision+ app to check aircraft status

App looks like this



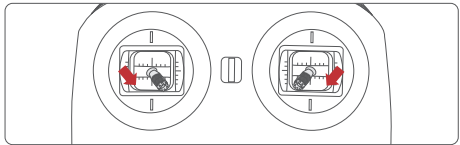
Number of GPS satellites: If you need to use normal mode to flight outdoor, ensure the number of GPS satellites is greater than ten.  
Base station/aircraft battery: we don't recommend flying when the battery level is under 50%

6

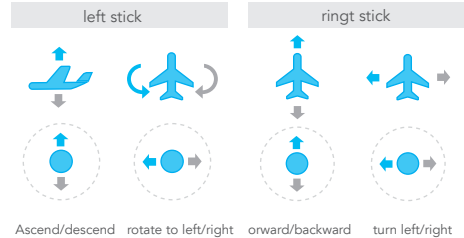
PowerVision



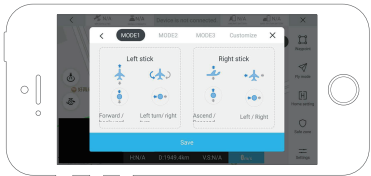
Unlock and take off  
Attention: please check again to ensure the arms and legs are firm.  
Put left joystick to bottom right position and put right joystick to bottom left position, to have a "V" shape for about two to three seconds. Slowly put joystick back to position after motors started



Slowly push the throttle to let the aircraft takeoff.  
You can also choose to short press the takeoff/land button to let the aircraft auto takeoff. It will withdraw the landing gear after rise to certain height  
If you need to move aircraft, please refer to this graph below



You can change the control mode in App, as shown in graph



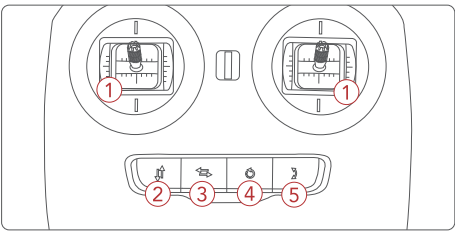
You can switch the flight mode between P mode, N mode and E mode  
**\* You can switch to N mode only when there are enough satellites**

You can withdraw the landing gear during the flight. Long press the landing gear button to withdraw the landing gear, short press to deploy it

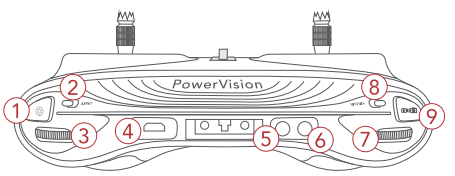
Gimbal control

You can control the gimbal to pitch and yaw though remote control  
For example using right remote control dial or joystick of gimbal remote control

- ① Control stick ② Takeoff/land button ③ Frequency-matching button  
④ Return-to-Home button ⑤ Landing gear button



- ① Shutter button ② Flight mode switch ③ Gimbal dial ④ Micro USB port  
⑤ Dual control connection port ⑥ Base station port ⑦ Camera parameter dial  
⑧ Camera parameter switch ⑨ Picture/video mode switch



You can also control the gimbal pitch and yaw through app

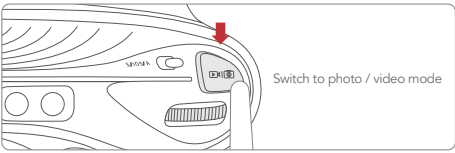
- ① Click the bottom left widows to enter video interface  
② Long press the screen and drag to any direction, gimbal will move to desired direction



Camera control

You can use the controller to control the camera

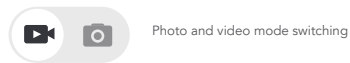
Press the left button to switch between photo mode and video mode



Press the right shutter button to take photos, or start/end video recording

You can also control the camera through App

Press this button to switch between photo mode and video mode



Press this to button to shoot video or start/end video recording



Click any point on the video interface to focus

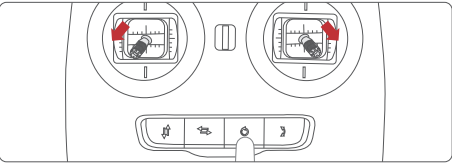
## Landing

When you need to land, fly to your landing position and pull the throttle to land slowly

After aircraft lands, pull the throttle to the lowest position for a few seconds to stop the motors and complete the landing

You can also press the landing button to auto land

**\*Attention: ensure the landing gear is deployed before landing, otherwise aircraft could be damaged. If aircraft's motors didn't stop spinning, you can pull the left joystick to bottom left, right joystick to bottom right and press the Return-to-Home button at the same time to force lock the motors**



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 for exposure 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 under this 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.



## Declaration of Conformity

We herewith confirm the following designated products to comply with the requirements set out in the Council Directive on the approximation of the laws of the Member States relating to R&TTE Directive 1999/5/EC or RED 2014/53/EU and EMC Directive 2014/30/EU and ROHS Directive 2011/65/EU with applicable standards listed below.

| Product Name/                | Model Number | Applicable Harmonized Standards                                                                                                                                                                                                                                                                                                                                                      |
|------------------------------|--------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| PowerEye                     | PEY10        | EN 301 489-1 V1.9.2 (2011-09)<br>EN 301 489-3 V1.6.1 (2013-08)<br>EN 301 489-17 V2.2.1 (2012-09)<br>EN 300 328 V1.9.1 (2015-02)<br>EN 300 440-1 V1.6.1 (2010-08)<br>EN 300 440-2 V1.4.1 (2010-08)<br>EN 62311:2008<br>EN 60950-1:2006+A11:2009+A1:2010<br>+A12:2011+A2:2013<br>IEC 62321                                                                                             |
| PowerEye Base Station        | PEGRS10      | EN 55022:2010<br>EN 55024:2010+A1:2015<br>EN 61000-3-2:2014<br>EN 61000-3-3:2013<br>EN 301 489-1 V1.9.2 (2011-09)<br>EN 301 489-3 V1.6.1 (2013-08)<br>EN 301 489-17 V2.2.1 (2012-09)<br>EN 300 328 V1.9.1 (2015-02)<br>EN 300 440-1 V1.6.1 (2010-08)<br>EN 300 440-2 V1.4.1 (2010-08)<br>EN 50566:2013+AC:2014<br>EN 60950-1:2006+A11:2009+A1:2010<br>+A12:2011+A2:2013<br>IEC 62321 |
| PowerEye Standard Controller | PEYSC10      | EN 55022:2010<br>EN 55024:2010+A1:2015<br>EN 61000-3-2:2014<br>EN 61000-3-3:2013<br>EN 301 489-1 V1.9.2 (2011-09)<br>EN 301 489-3 V1.6.1 (2013-08)<br>EN 300 440-1 V1.6.1 (2010-08)<br>EN 300 440-2 V1.4.1 (2010-08)<br>EN 62479:2010<br>EN 60950-1:2006+A11:2009+A1:2010<br>+A12:2011+A2:2013<br>IEC 62321                                                                          |

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Person in responsible for making this declaration:

Han Hui  
Full Name  
Legal Signature

Vice President  
Title  
Dec. 20th 2016  
Date