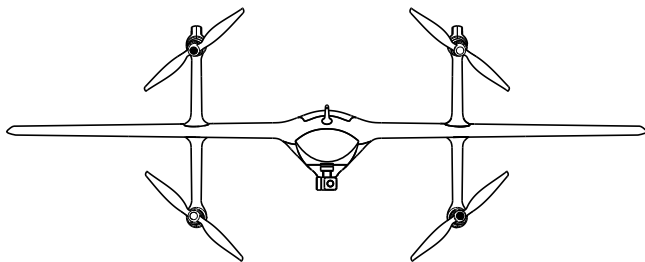


# SWAN VOYAGER

Manual  
用户手册

V2.0 2023.04



**HEQ**

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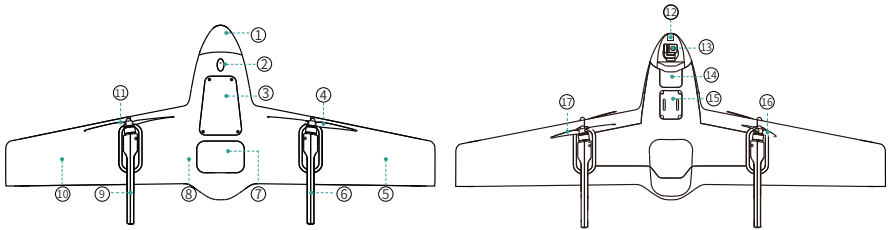
# Product Overview

## Introduction

Swan Voyager applies the 3-axis gimbal stabilization technology to the ultra-small consumer VTOL for the first time. It supports 4K photo and video shooting, with a transmission distance of up to 8km, and a battery life of reaches 60 mins, completely solving the problem of short transmission distance and battery life anxiety for users. What's more, Swan Voyager also comes with a high-definition First-Person-View (FPV) system that can display the real-time image in front of the user, bringing users a new first-person perspective flying experience. The new HEQ FLY APP has a network interaction function, which can share location and flight status with partners, and unlock new gameplay such as formation flight, competitive chase, etc.

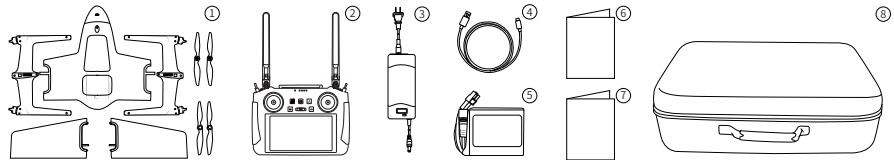
## Product List

### Aircraft List



- |                                    |                                      |                                      |
|------------------------------------|--------------------------------------|--------------------------------------|
| 1. Nose cowl                       | 7. Battery cover                     | 13. 3-axis gimbal camera             |
| 2. Airspeed meter                  | 8. Drone body                        | 14. Camera cover                     |
| 3. Avionics cover                  | 9. Left arm                          | 15. Image transmission cover         |
| 4. Propeller (Black nut propeller) | 10. Left wing                        | 16. Propeller (Black nut propeller)  |
| 5. Right wing                      | 11. Propeller (Sliver nut propeller) | 17. Propeller (Sliver nut propeller) |
| 6. Right arm                       | 12. SD card slot                     |                                      |

### Package List

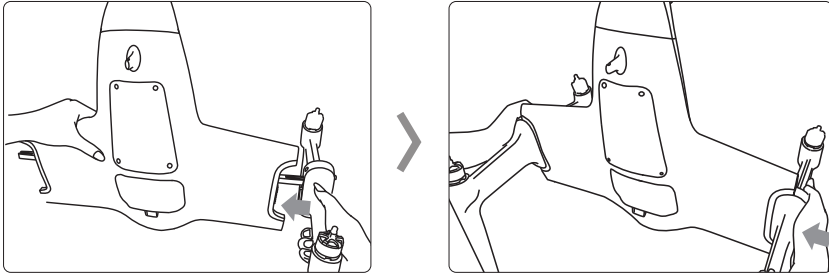


- |                                    |                                     |                           |
|------------------------------------|-------------------------------------|---------------------------|
| 1. Aircraft                        | 4. Type-C charging cable for remote | 7. Disclaimer             |
| 2. Highlight screen remote control | 5. 4S Li-polymer battery            | 8. Portable carrying case |
| 3. Battery charger                 | 6. Quick start guide                |                           |

## Assembly

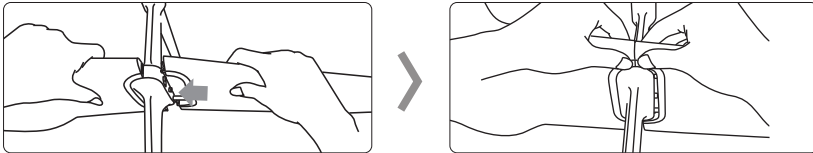
### Assemble the arms

Make sure the arm fits well with the fuselage.



### Assemble the wings

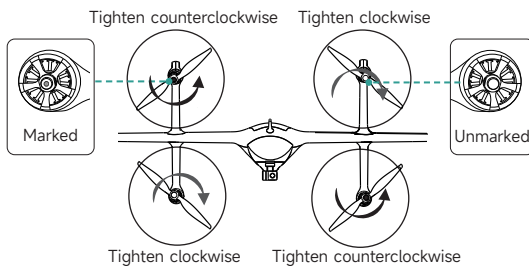
Make sure the wings fits well with the fuselage.




### Install the propellers

Marked Motor → Black Hat → Tighten counterclockwise.

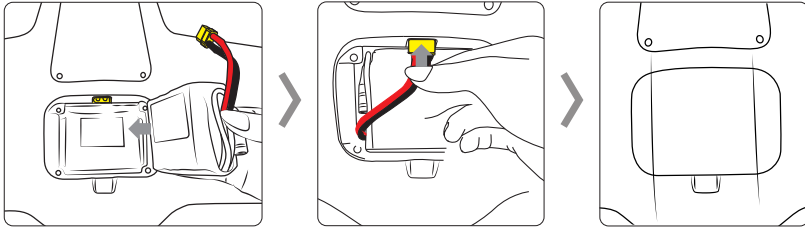
Unmarked Motor → Sliver Hat → Tighten clockwise.



 Please make sure to tighten the propellers before taking off.

## Installing the battery

Open the battery cover, place the battery on the side with velcro inside, connect the power switch, and cover it.

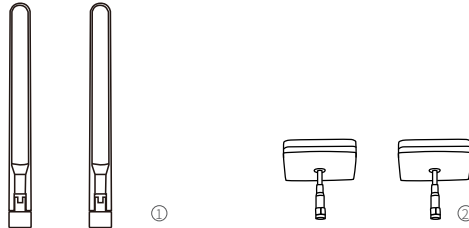


## Install the antennas

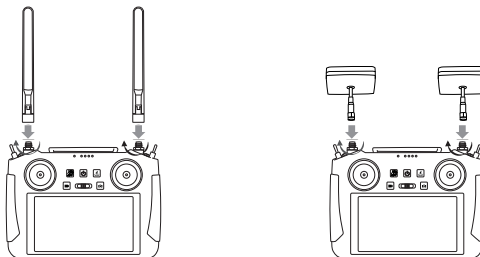
Omnidirectional antenna <sup>①</sup>: Image transmission distance up to 3-5KM.

long-range antenna <sup>②</sup>: Image transmission distance up to 5-8KM.

(The specific transmission distance depends on the user's location and the magnetic field environment)



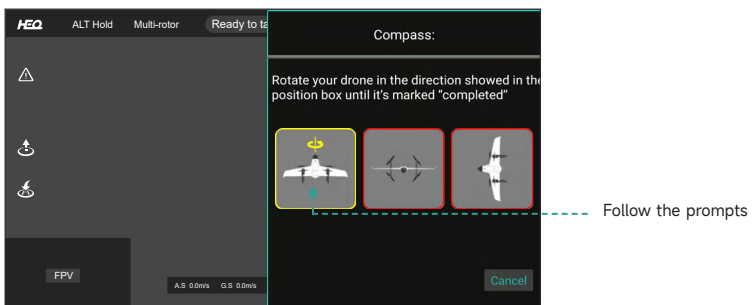
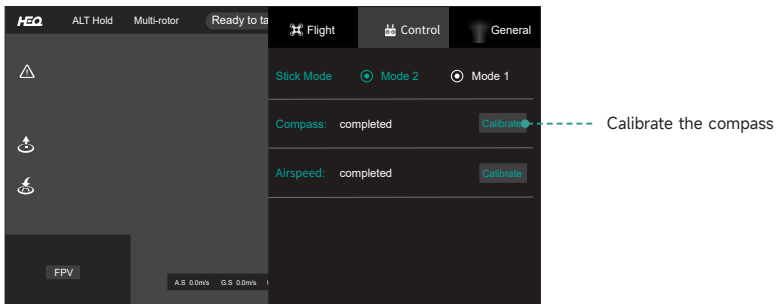
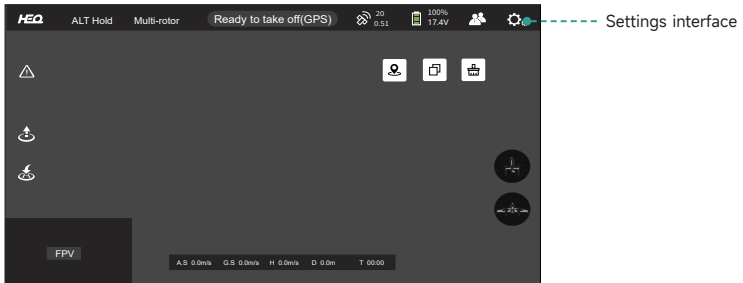
Rotate the omnidirectional/long-range antenna clockwise and install it on the remote control.

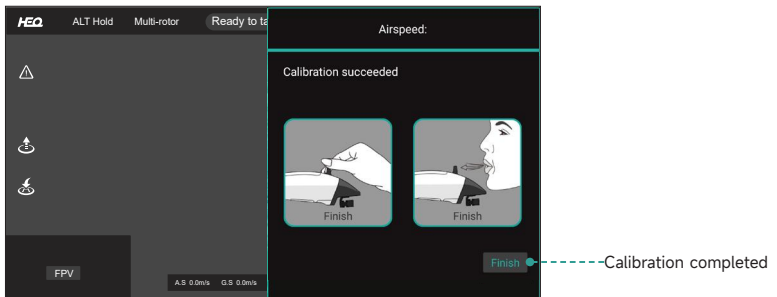
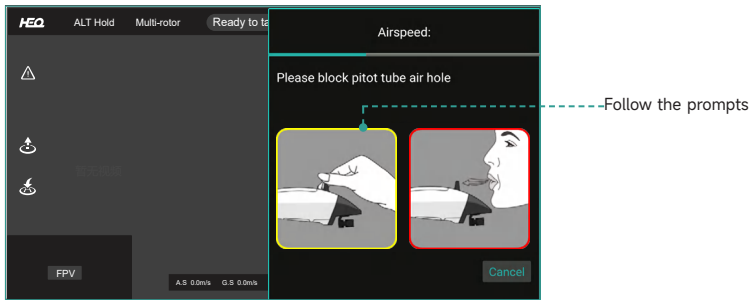
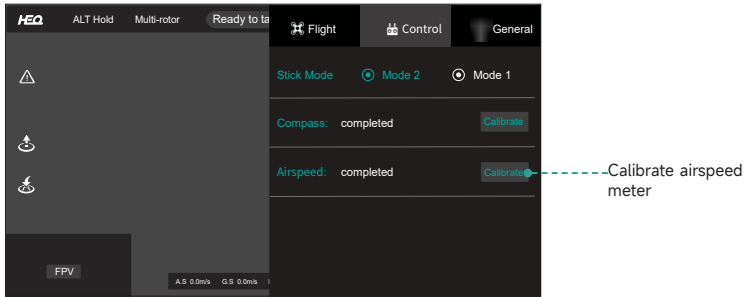
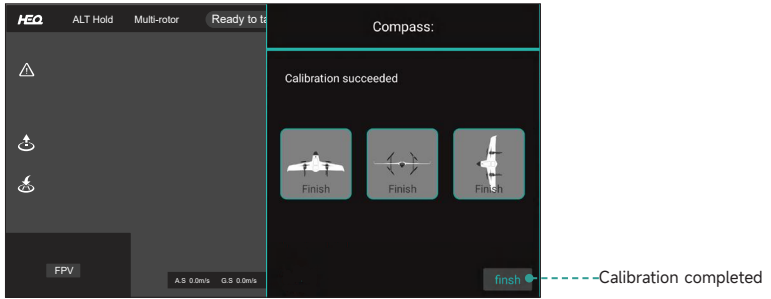


# Aircraft Calibration

Please calibrate the airspeed meter and compass before flying. It needs to be re-calibrated if the absolute value of the airspeed is more than 5.

The compass needs to be calibrated for the first flight. If the location environment is changed, the magnetic compass needs to be re-calibrated. If the location environment is not changed, it is not necessary to calibrate it again.

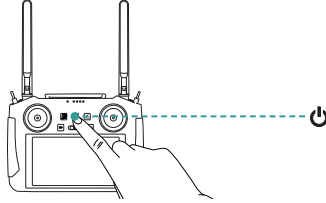




## Remote control

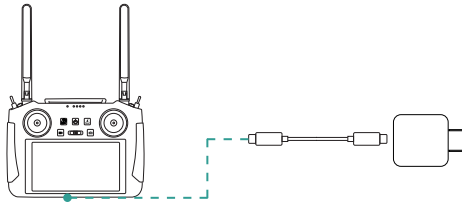
### Power on / off

Short press, and then long press for 2 seconds.  
Long press for 2 seconds, and click "Power off" on the screen.



### Charging

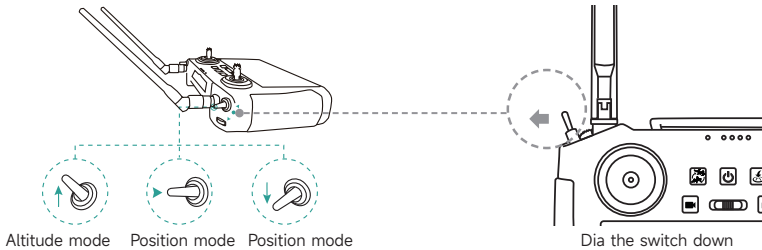
Use the standard charger to charge the remote control. It takes about 5 hours to charge completely.




 Please power off the remote control during charging.

### Entering into position mode

In an open outdoor environment, after the remote control is turned on, enter the HEQ FLY, wait for the GPS to search for satellites and move the flight mode switch lever down to enter the position mode.

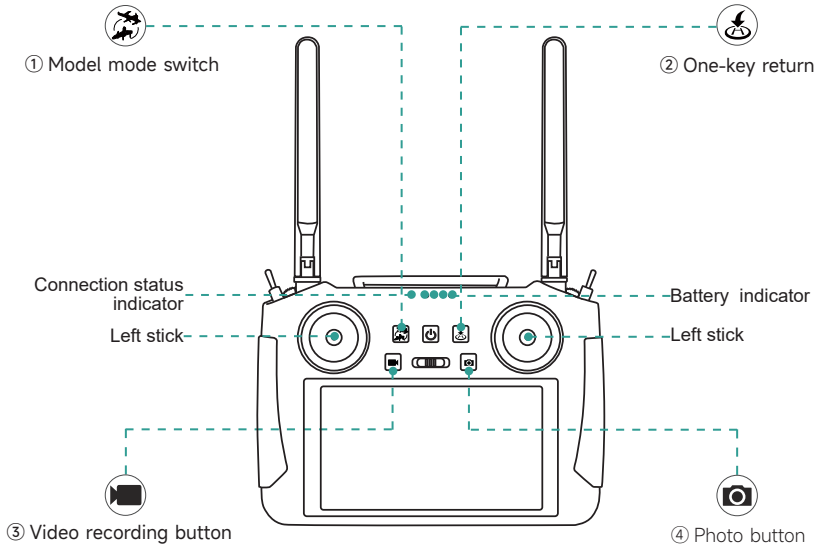


 Please make sure that the flight mode has been switched to the position mode before taking off.

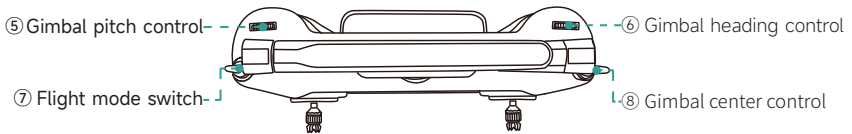


## Button Introduction

- ① Model mode switch: A switch that changes the mode between rotor and fixed-wing.
- ② One-key return function: Press the button once to initiate the return mode. To cancel the return mode, either press the button again or click the cancel button on the screen.
- ③ Video recording button: Press once to start recording/Press again to stop recording.
- ④ Photo button: Press once to take a photo.



- ⑤ Gimbal pitch control: turn the dial to control the gimbal pitch.
- ⑥ Gimbal heading control: turn the dial to control the gimbal heading.
- ⑦ Flight mode switch: switch between altitude hold mode and position mode.
- ⑧ Gimbal center control: move the joystick to control the gimbal centering.

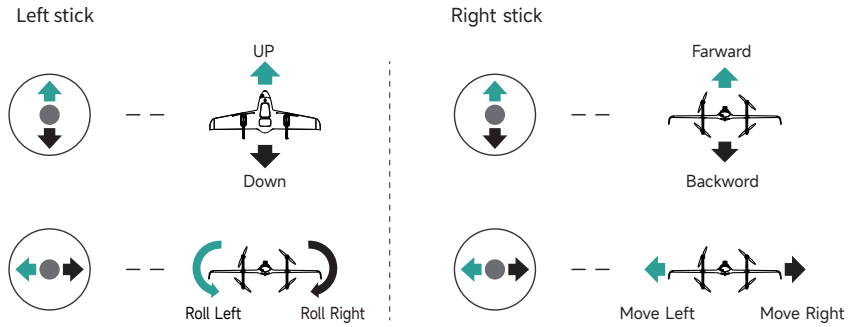


## Aircraft control

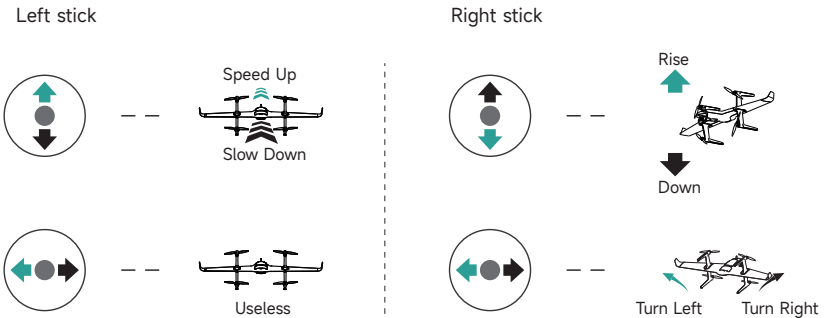
The operation mode of the remote control's joystick is divided into American hand and Japanese hand, as shown in the figure below.

### Mode 2

#### Rotor status




#### Fixed wing status

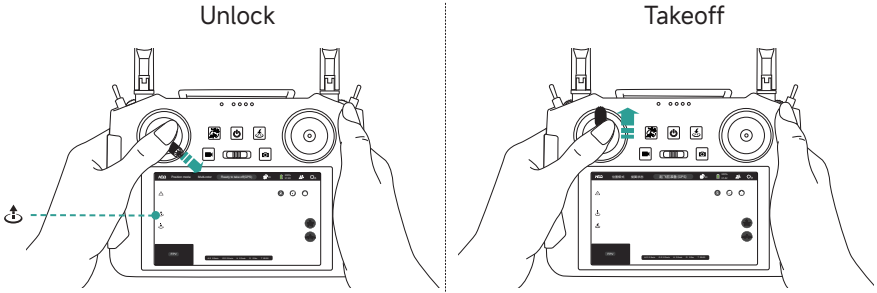


## Unlock, Takeoff / Landing, lock (Mode 2)

### Unlock / takeoff


Method 1: After entering position mode, push the left joystick towards the lower right to unlock the aircraft. After the motor starts, push the left joystick upwards.

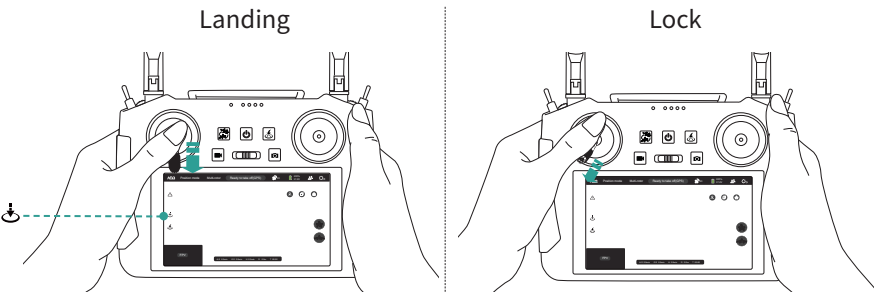
Method 2: Click the "one-key takeoff"  icon on the remote control screen and slide the button to execute takeoff.




### Landing / Lock

Method 1: Push the left joystick downwards to make the aircraft land on the ground, then quickly push it to the lower left and keep it for more than 5 seconds to stop the motor after the aircraft lands on the ground.

Method 2: Click the "one-key landing"  icon on the remote control screen and slide the button to execute landing.

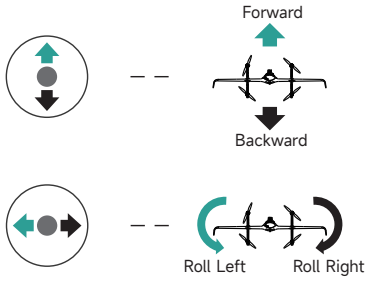


 The default factory settings for the remote control are set to the "Mode 2" configuration (commonly known as the "American mode")

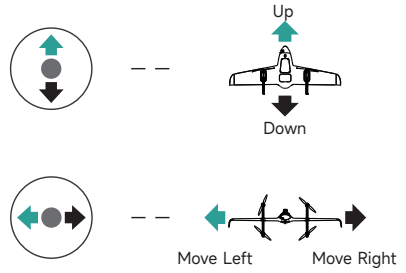
## Mode 1

## Rotor status

Left stick

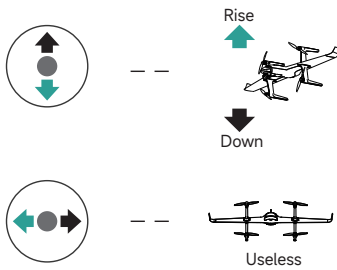


Right stick

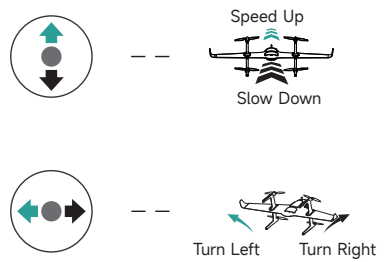


## Fixed wing status

Left stick




Right stick

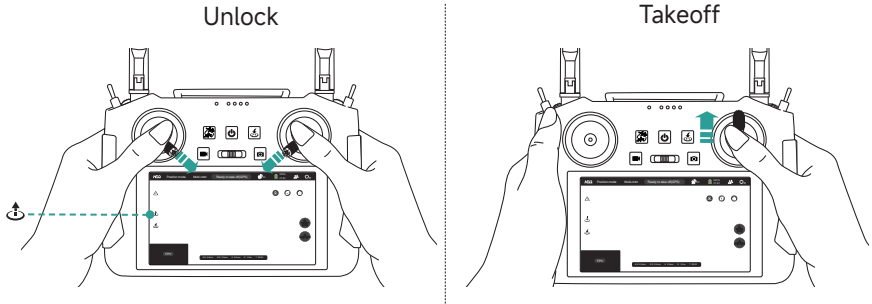


## Unlock, takeoff / Landing, lock (Mode 1)

### Unlock / Takeoff


Method 1: After entering position mode, push the left joystick to the lower right while pushing the right joystick to the lower left (referred to as the "inner eight" maneuver of the left and right joysticks) to unlock the aircraft. After the motors start, push the right joystick upwards to take off.

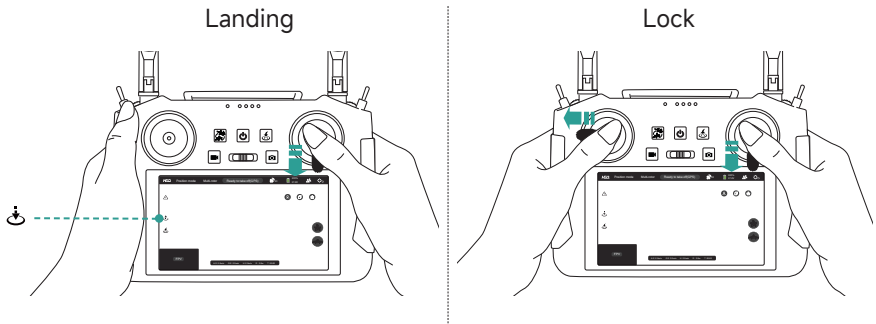
Method 2: Click the "one-key takeoff"  icon on the remote control screen, slide the button to execute takeoff.



### Landing / Lock

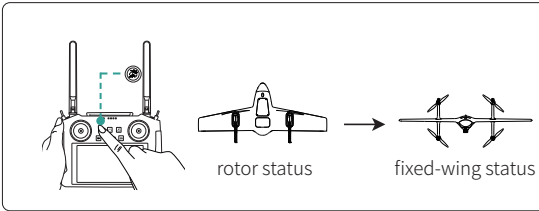
Method 1: Push the right joystick downwards to make the aircraft land on the ground, then quickly push the left joystick to the left while pushing the right joystick downwards and keep it for more than 5 seconds to stop the motor. After the aircraft lands on the ground, push the right joystick directly downwards and keep it for more than 5 seconds to stop the motor.


Method 2: Click the "one-key landing"  icon on the remote control screen, slide the button to execute landing.

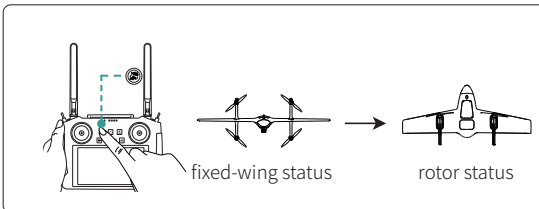



 The default factory settings for the remote control are set to the "Mode 2" configuration (commonly known as the "American mode")

## Rotor/Fixed-Wing Switching



In rotor mode, the aircraft will ascend to a height over 30 meters (determined based on the surrounding environment) and press the  button to switch to fixed-wing mode.



Press the  button again to switch back to rotor mode.

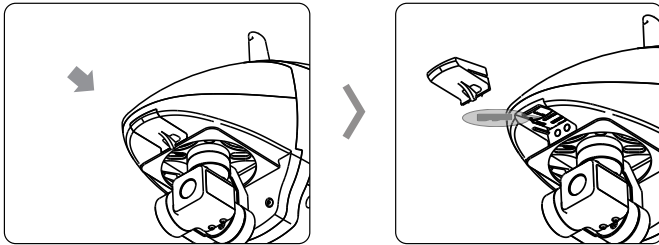
## Gimbal

### SD card Installation

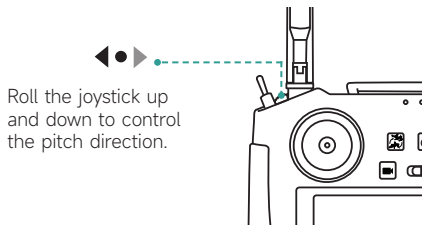
Open the cover on the top of the main unit's head cover, insert the SD card to take/copy high-definition photos and videos.

The aircraft must be turned off when inserting the SD card.

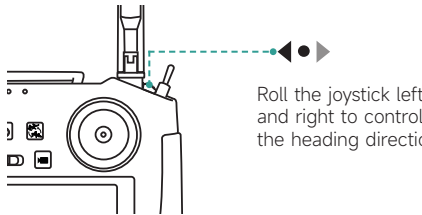
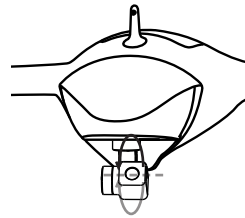
Use an SD card with a U3 rating for shooting/recording ( $\geq$  read 170MB/write 90MB).



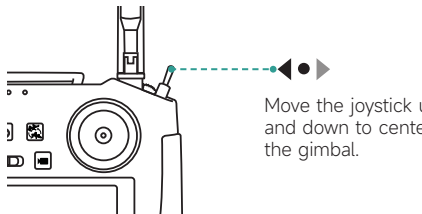
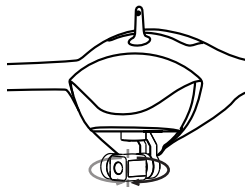
### Gimbal camera control



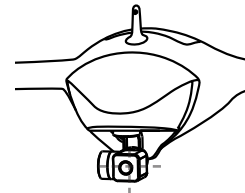
Roll the joystick up and down to control the pitch direction.



Roll the joystick left and right to control the heading direction.



Move the joystick up and down to center the gimbal.

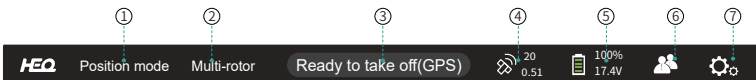


# APP Introduction

## APP Page Introduction



### Aircraft information prompt bar



1. Flight mode: switch between altitude mode and position mode.
2. Model mode switch: display rotor status or fixed-wing status.
3. Key information prompt.
4. GPS status: GPS satellite signal strength.
5. Aircraft battery display: remaining battery percentage of the drone's battery.
6. Multi-aircraft interaction account login page ( follow-up are described in details ).
7. System settings interface ( follow-up are described in details ).

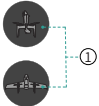


## Map Toolbar



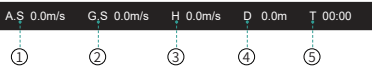
1. Aircraft positioning: One-click positioning the aircraft on the map.
  2. Map type: Switch between satellite map and street map.
  3. Clear button: Clear the flight path of the aircraft on the map.
- 

## Attitude ball



1. Attitude ball: the roll and pitch attitude of the aircraft.
- 

## Flight Parameters



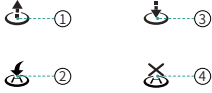
1. Airspeed: The speed of the aircraft relative to the air during flight.
  2. Ground speed: The speed of the aircraft relative to the ground during flight.
  3. Flight altitude: The height of the aircraft above the ground during flight.
  4. Distance from home: The distance from the takeoff point to the current location of the aircraft.
  5. Flight time: The time is calculated from when the aircraft is unlocked.
- 

## Screen Switching



1. FPV
2. MAP

## Intelligent Toolbar



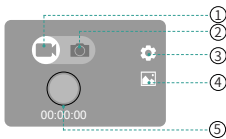
1. One-key takeoff
2. One-key return
3. One-key landing
4. Cancel return

## Information Prompt Bar



1. Message list: Notification of abnormal information about the aircraft during flight.

## Shooting Settings Bar



1. Record
2. Shoot
3. Settings: Set the shooting size
4. Album: Preview captured photos/videos
5. Start/Stop recording

## Aircraft Parameter Setting Interface

### Flight Section

Geographical height limit: Set the maximum flight altitude.

Geographical distance limit: Set the maximum flight distance.

Minimum flight altitude for fixed-wing mode: The minimum altitude that the aircraft can fly at in fixed-wing mode after switching from rotor mode.

Return-to-home altitude: When the active return or loss-of-control return is triggered, the aircraft will ascend to the set minimum safe altitude for return.

Trigger condition: When the fixed-wing mode reaches the geographical distance limit, the aircraft will trigger the action.

Low battery alert: When the battery level reaches the low battery alert level, the aircraft will trigger the return-to-home function.

Critical low battery alert: When the battery level reaches the critical low battery alert level, the aircraft will be forced to land.

Cruise speed: The speed at which the aircraft flies when following a predetermined route.

### Control Bar

Joystick mode: Choose the corresponding operation mode based on the user's operating habits (divided into American and Japanese styles).

Compass calibration: Follow the instructions on the icon to calibrate.

Airspeed meter calibration: Follow the instructions on the icon to calibrate.

(Calibration is required each time you switch to a new flying location).

### Advanced Calibration

Accelerometer calibration: Follow the instructions on the icon to calibrate.

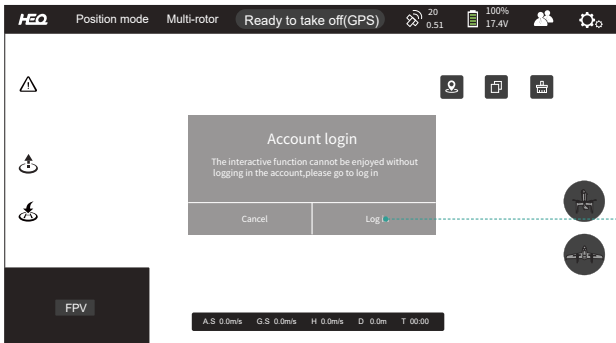
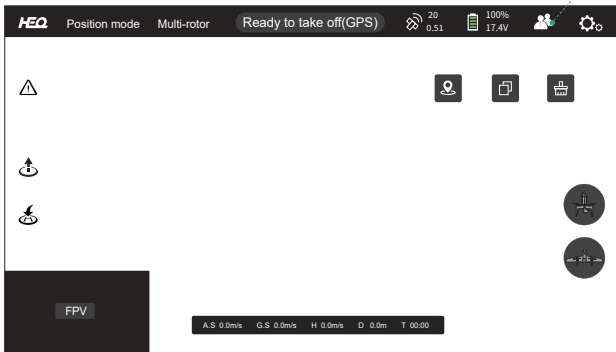
Gyroscope calibration: Follow the instructions on the icon to calibrate.

Level calibration: Follow the instructions on the icon to calibrate.

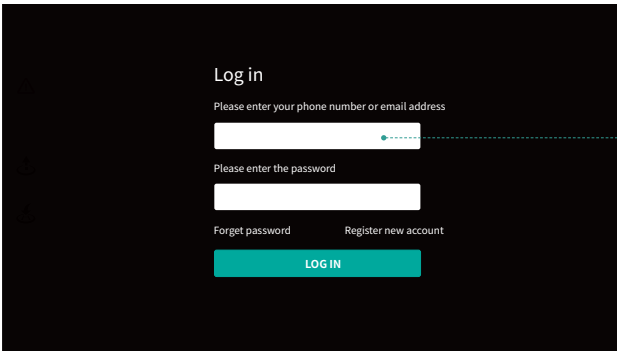
(The calibration will be performed once during the factory production process and does not need to be calibrated unless there are special circumstances)

## Interactive Gameplay User Guide

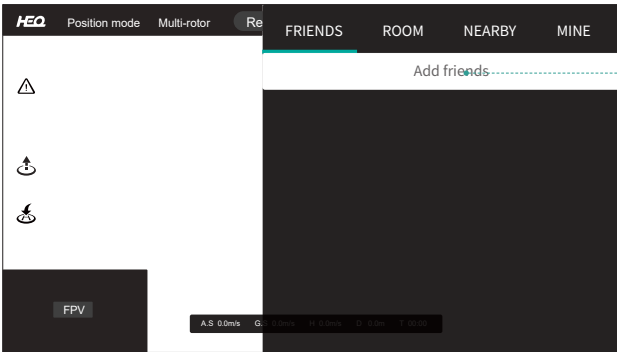
Click to enter the multi-aircraft interaction account login window



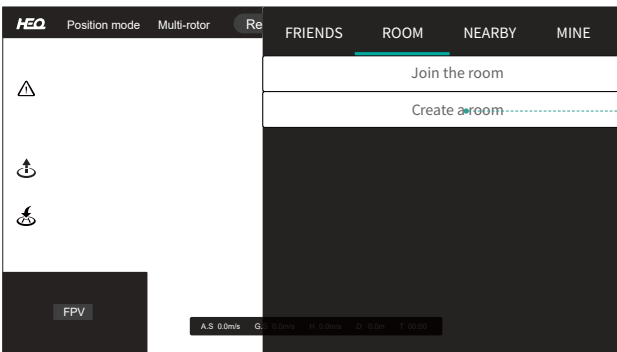
Select "Login"



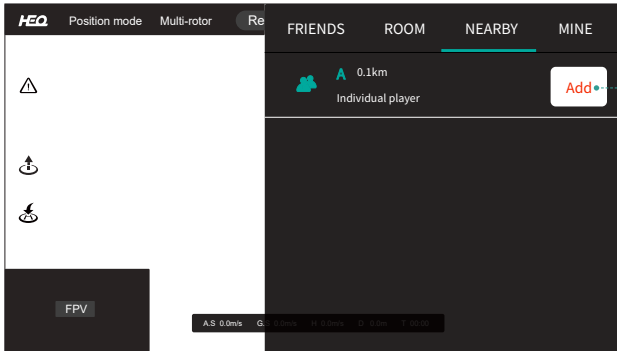
Enter your account and password, and click "Login"



In the "Friends" section, search and add friends



In the "Rooms" section, search and add friends or create a room (invite friends to join)



In the "Nearby" section, search for nearby players

Invite friends to join the room, and the APP map will display the location coordinates of friends who have joined the room.

The above operations must be performed on the basis of being connected to the Internet. During the flight, the network cannot be disconnected. If the network is disconnected, the APP page will not display information such as the coordinates of friends.

# Flight

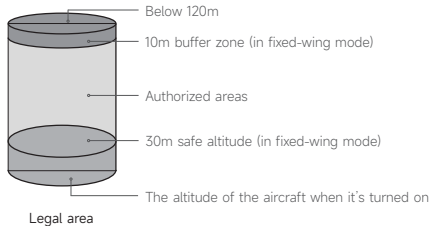
Please choose an open and unobstructed outdoor environment for flight. The aircraft's maximum flight altitude is 500m, please do not exceed the safe flight altitude. It is necessary to strictly abide by local laws and regulations. please read the "HEQ Disclaimer and Safety Guidelines" to understand safety precautions before flying.

## Pre-flight Check

1. The left joystick of the aircraft has been switched to position mode.
2. Please ensure that the propellers are tightened and the aircraft is properly assembled before flying.
3. The drone and remote control have sufficient battery power.
4. The WIFI has been connected before flying.
5. There are at least 9 GPS signals available.
6. After powering on, the camera and gimbal can work normally.

## Flight Safety Guidelines

1. Do not fly the aircraft in crowds, forests, airports, near buildings, or indoors. Do not fly in rainy weather (when rainfall is less than 23.9mph), windy conditions (when wind speeds exceed 10.7m/s), or extreme weather conditions.
2. Keep away from wind turbines, high-voltage lines, substations, radio signal towers, tall buildings, and environments with magnetic interference.
3. During flight, keep the aircraft within sight and maintain a distance from obstacles, crowds, bodies of water, mountains, etc.
4. Fly in authorized areas only.



# Specifications

Aircraft Parameters	
Wingspan	1.1m
Maximum takeoff weight	1.75kg
Flight duration	50-60mins
Flight speed	11m/s~25m/s
Maximum range	45Km
Remote control distance	8Km
Maximum ascent speed	3m/s
Maximum descent speed	2m/s
Maximum flight altitude	4000m
Maximum wind resistance level	Level 5 (10m/s)
Power system	2212 980KV motor + 9060 propeller
Aircraft size	107*336*502mm
Packaging size	570*190*540mm
Battery	4S lithium battery 5500mAh
Charger	17.4V 2.8A
Operating temperature	-10°C to 40°C
Gimbal and Camera Parameters	
Axis	Mechanical 3-axis
Image sensor size	12 million
Pixels	1/2.3 inch CMOS
Viewing angle	80° ~ 100°
Equivalent focal length	24 mm
Aperture	f/2.8
Focus range	1m to infinity
ISO range	Video ISO range:100 to 3200 (automatic)
Maximum photo size	4:3 aspect ratio: 4000×3000
Video resolution	4K: 3840×2160@24/25/30fps 2.7K: 2720×1530@24/25/30/48/50/60fps FHD: 1920×1080@24/25/30/48/50/60fps
SD card support capacity	≤ 128G
Photo format	JPEG/DNG (RAW)
Video format	MP4 (H.264/MPEG-4 AVC)
Gimbal functions	Pitch, yaw control, one-key return to center

This document will not be notified separately if there is an update.

You can check the latest version on the HEQUAV official website  
<http://www.hequavtech.com>

If you have any questions or suggestions about the manual, please contact us via the following email  
[support@hequavtech.com](mailto:support@hequavtech.com)

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Scan the code via Wechat  
to follow HEQUAV WeChat  
official account

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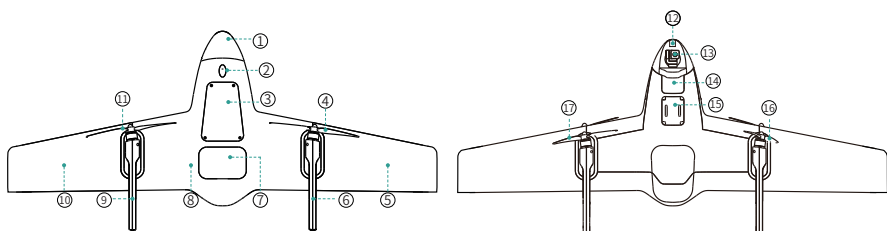
## 产品概述

### 简介

Swan Voyager 是首款将 3 轴云台增稳技术应用于超小型消费级垂直起降固定翼的航拍无人机。Swan Voyager 支持 4K 拍照 / 录像，图传距离达到了 8km，其续航时间高达 1 小时，从此用户彻底告别图传距离短和续航里程焦虑的困扰。它还搭配了高清 FPV 系统，能将画面实时呈现在用户眼前，带给用户全新的第一视角飞行体验。全新的 HEQ FLY APP 还具备多机联网实时互动功能，用户可以共享位置信息及飞行数据，玩家之间可以自由组队，进行编队飞行、竞速、观战等玩法。

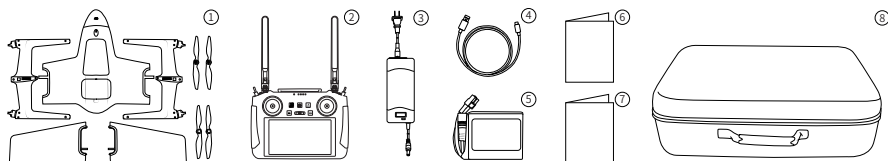
## 产品清单

### 飞行器清单



- |            |               |             |
|------------|---------------|-------------|
| 1、主机头罩     | 7、电池舱盖        | 13、三轴云台相机   |
| 2、空速计      | 8、Voyager 主机身 | 14、摄像头舱盖    |
| 3、飞控舱盖     | 9、左机臂         | 15、图传仓盖     |
| 4、螺旋桨（黑桨帽） | 10、左机翼        | 16、螺旋桨（黑桨帽） |
| 5、右机翼      | 11、螺旋桨（银桨帽）   | 17、螺旋桨（银桨帽） |
| 6、右机臂      | 12、SD 卡卡槽     |             |

### 包装清单

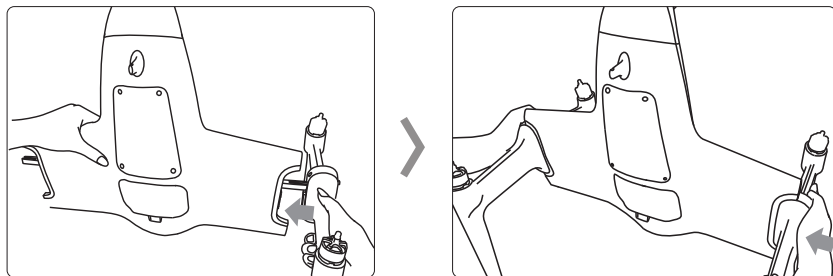


- |                |                |          |
|----------------|----------------|----------|
| 1、飞行器          | 4、Type-C 遥控充电线 | 7、免责声明   |
| 2、高亮屏遥控        | 5、4S 锂电池       | 8、便携式手提箱 |
| 3、电池充电器 4S 锂电池 | 6、快速入门指南       |          |

## 组装飞行器

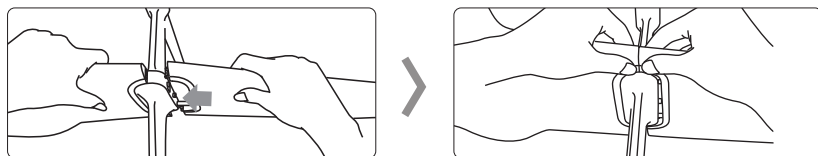
### 机臂

插入机臂确保机臂与机身位置贴合。



### 机翼

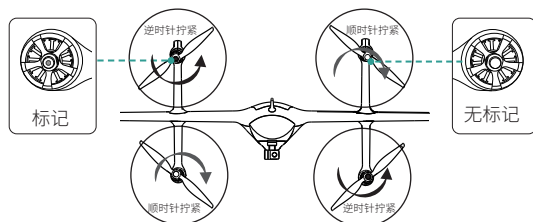
插入机翼确保机翼与机身位置贴合。



### 螺旋桨

有标记电机 → 黑帽螺旋桨 → 逆时针拧紧；

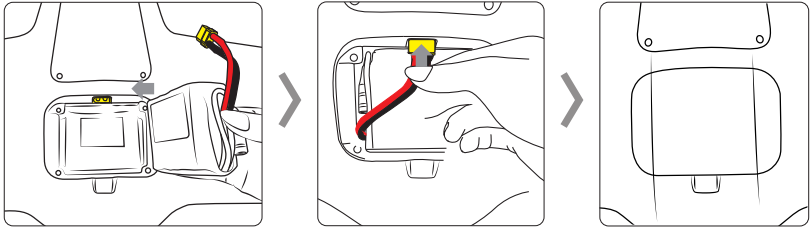
无标记电机 → 银帽螺旋桨 → 顺时针拧紧；



 起飞前务必拧紧各个螺旋桨。

## 飞行电池

打开电池舱盖，将带有魔术贴一面的电池放置电池仓内部，接上电源开关，盖上电池舱盖。

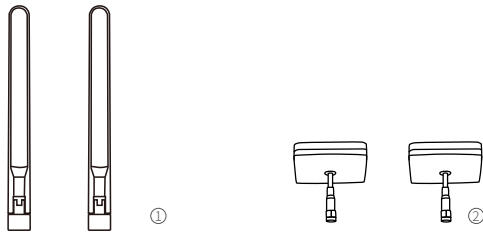


## 遥控天线

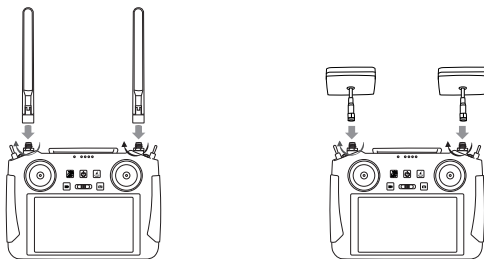
全向天线<sup>①</sup>：使用全向天线图传距离可达 3-5KM；

增程天线<sup>②</sup>：使用增程天线图传距离可达 5-8KM；

(具体图传距离需根据用户所在地磁场环境情况决定)



将全向天线 / 增程天线顺时针旋转，安装至遥控器上。



## 飞行器校准

飞行器起飞前需要校准磁罗盘和空速计；若空速绝对值大于 5 需要重新校准。

飞行器第一次飞行，需要完成磁罗盘校准再飞行；若更换地点环境需要重新校准磁罗盘，不更换地点环境则不需要校准。

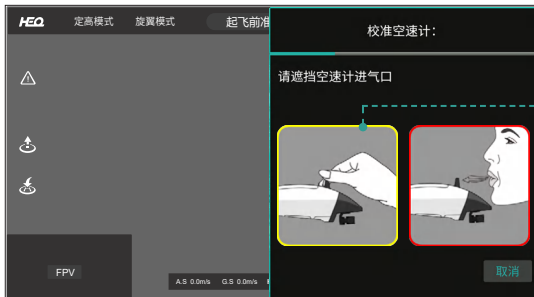




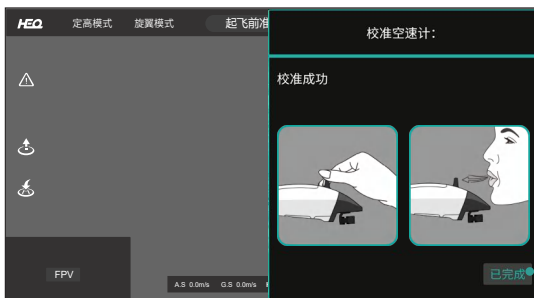
磁罗盘校准成功



校准空速计



按照提示依次操作



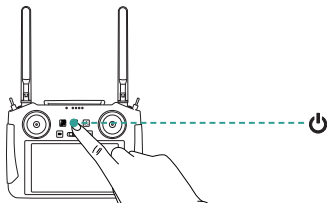
空速计校准成功

## 遥控器

### 开启与关闭

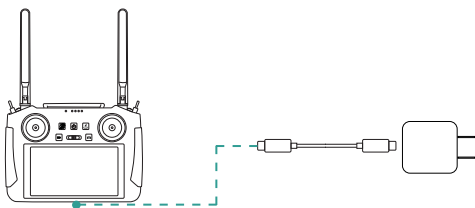
短按一次电源按键，再长按 2 秒开启遥控器。

长按 2 秒电源按键，点击屏幕“关机”。



### 充电

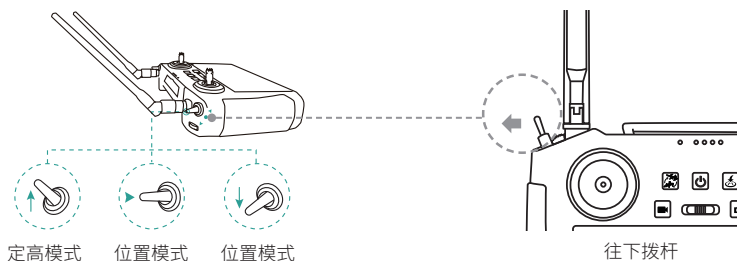
使用标配充电器给遥控器充电；完全充满约 5 小时。



⚠️ 充电时请关闭遥控器进行充电。

### 位置模式

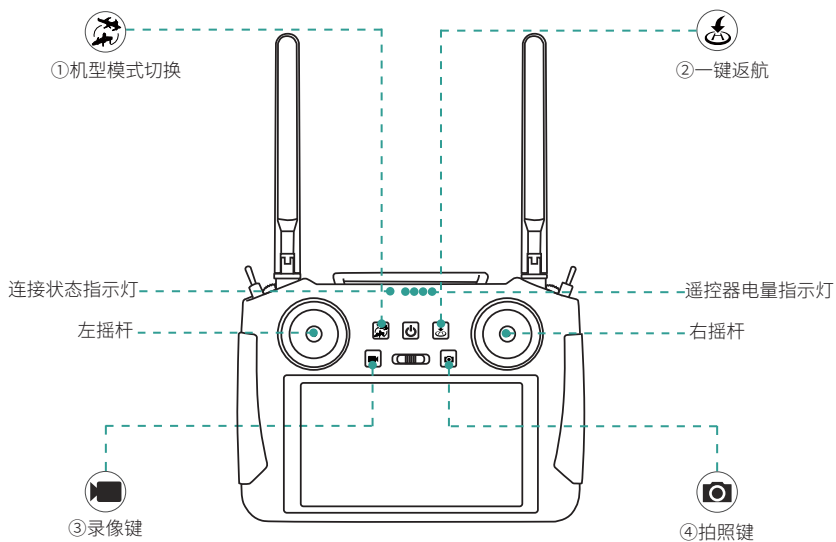
在户外空旷环境下，遥控器开机后，进入 HEQ FLY，等待 GPS 搜索卫星，将飞行模式切换拨杆向下拨动，进入位置模式。



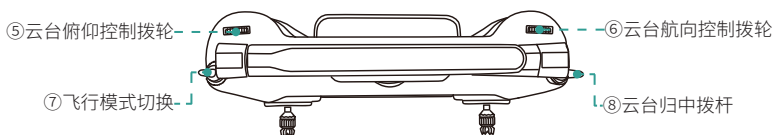
⚠️ 请确保起飞前，飞行模式已切换到位置模式。

## 按键介绍

- ①机型模式切换：旋翼 / 固定翼模式切换；
- ②一键返航：短按一次按钮，执行返航模式；如需取消返航模式，再按一次按钮或滑动屏幕弹窗按钮取消返航模式；
- ③录像按键：短按一次开启录像 / 再次短按停止录像；
- ④拍摄按键：短按一次拍照；



- ⑤云台俯仰控制：拨动拨轮，控制云台俯仰；
- ⑥云台航向控制：拨动拨轮，控制云台航向；
- ⑦飞行模式切换：切换定高模式 / 位置模式；
- ⑧云台归中控制：拨动拨杆，控制云台归中。

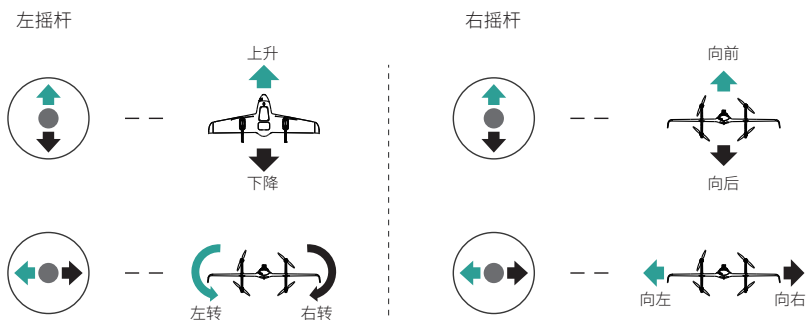


## 操控飞行器

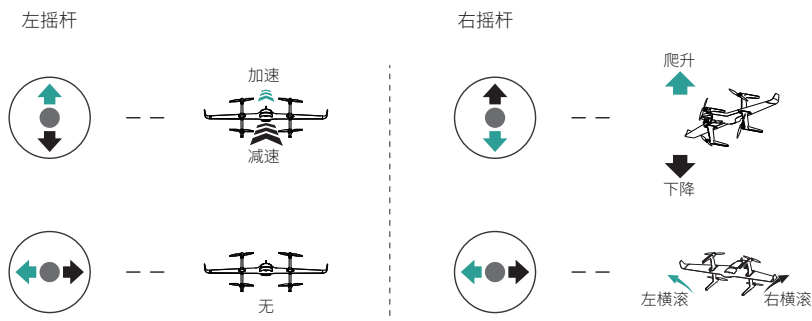
遥控器摇杆操控方式分为美国手和日本手，如下图所示。

### 美国手 (Mode 2)

#### 旋翼状态



#### 固定翼状态




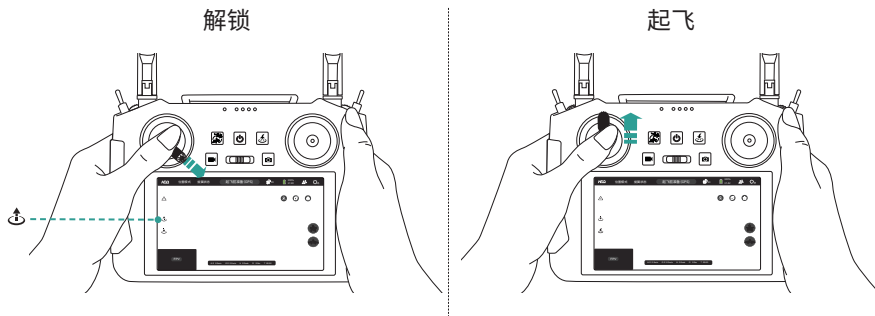


## 起飞、解锁 / 降落、上锁（美国手）

### 解锁、起飞


方法一：进入位置模式后，向右下方推动左摇杆，解锁飞行器；电机转动后，向上推动左摇杆；

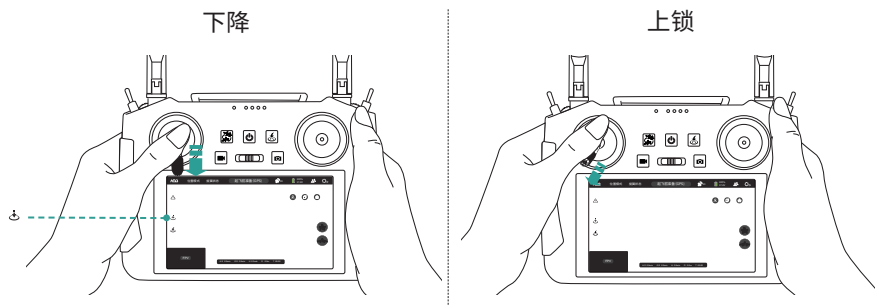
方法二：点击遥控屏幕中的 （一键起飞）图标，滑动按钮执行起飞。



### 下降、上锁

方法一：向下方推动左摇杆使飞行器降落在平地之后，迅速向左下方推动左摇杆并保持 5 秒以上电机停转；

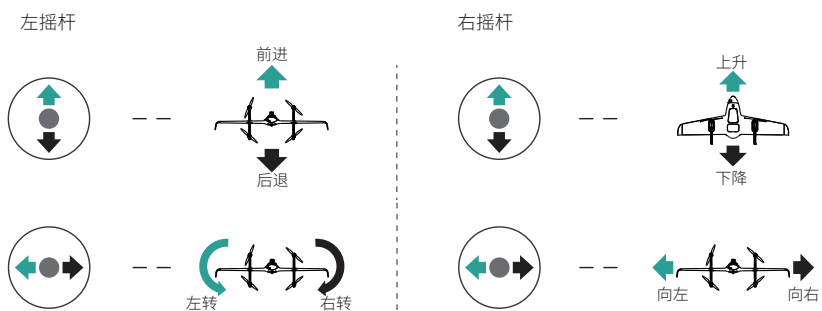
方法二：点击遥控屏幕中的 （一键降落）图标，滑动按钮执行降落。



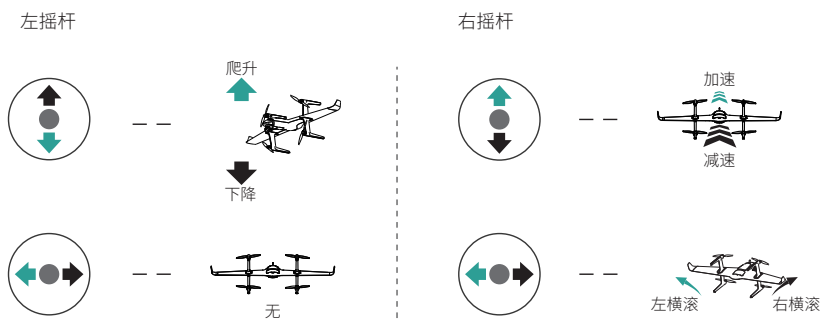
 遥控器出厂设置默认为美国手。

## 日本手 (Mode 1)

## 旋翼状态




## 固定翼状态

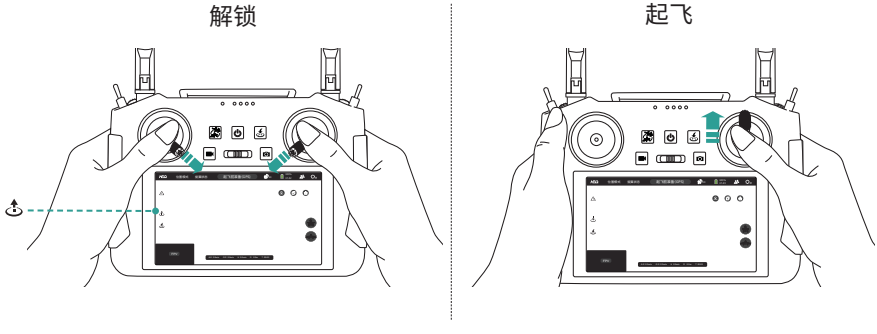


## 飞行器起飞、解锁 / 降落、上锁（日本手）

### 解锁、起飞


方法一：进入位置模式后，向右下方推动左摇杆的同时向左下方推动右摇杆（简称：内八拨动左右摇杆），解锁飞行器；电机转动后，向上推动右摇杆；

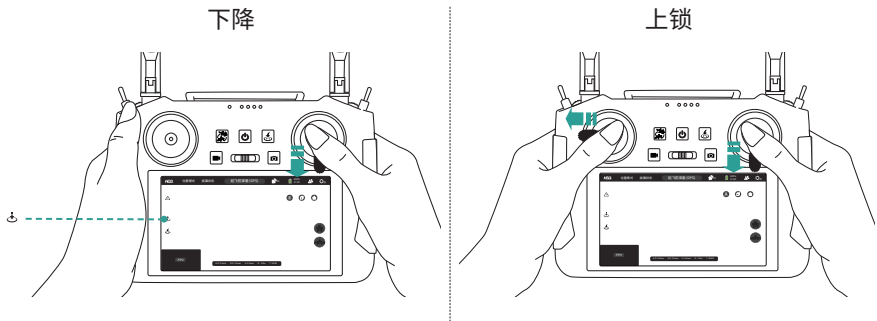
方法二：点击遥控屏幕中的 （一键起飞）图标，滑动按钮执行起飞。



### 下降、上锁

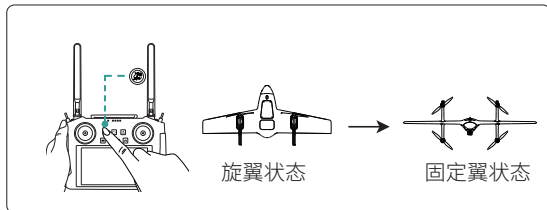
方法一：向下方拨动右摇杆使飞行器降落在平地之后，迅速将左摇杆向左拨动的同时右摇杆向下拨动并保持5秒以上电机停转飞行器降落在平地之后，向正下方拨动右摇杆并保持5秒以上电机停转；


方法二：点击遥控屏幕中的 （一键降落）图标，滑动按钮执行降落。

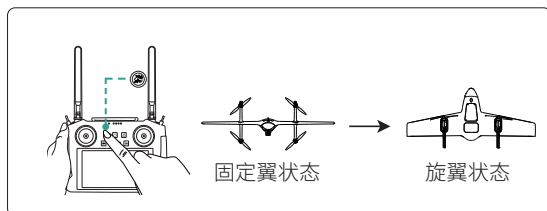



 遥控器出厂设置默认为美国手。

## 旋翼 / 固定翼切换



在旋翼状态下，飞行器上升至 30 米以上高度（视周围环境确定切换高度），按  键切换为固定翼状态。



再次按  键，飞行器将切换为旋翼状态。

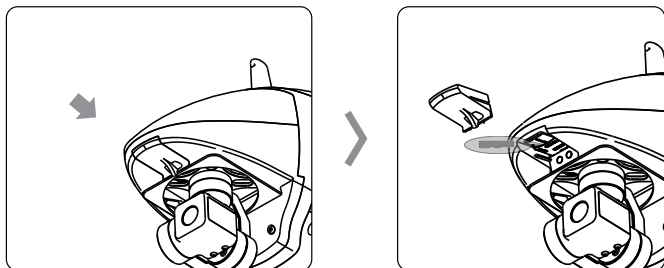
## 云台

### 安装 SD 卡

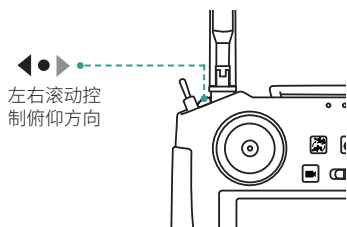
推开主机头罩顶端的盖板，插入 SD 卡，即可拍摄 / 拷贝高清图片和视频。

插入 SD 时，飞机必须处于断电状态。

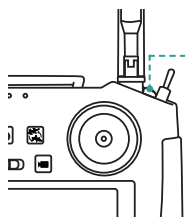
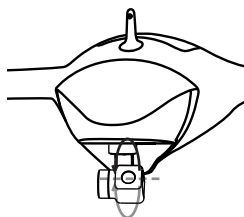
使用 U3 速率的 SD 卡进行拍照 / 录像 (≥读 170MB/ 写 90MB)。



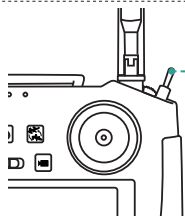
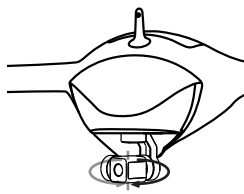
### 控制云台相机



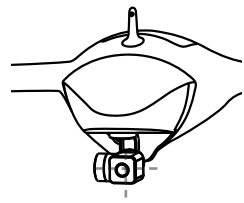
左右滚动控制俯仰方向



左右滚动控制航向方向



上下拨动控制云台归中



# HEQ FLY app 介绍

## APP 页面介绍



## 飞行器信息提示栏



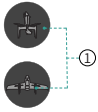
- 1、飞行模式：定高模式 / 位置模式切换
- 2、机型模式：旋翼状态 / 固定翼状态显示
- 3、关键信息提示
- 4、GPS 状态：GPS 卫星信号强弱
- 5、飞行器电量显示：无人机电池剩余电量百分比
- 6、多机互动账号登录页面（后面会做详细注解）
- 7、系统设置界面（后面会做详细注解）

## 地图工具栏



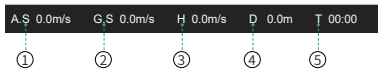
- 1、飞行器定位：一键定位地图上飞行器的位置
- 2、地图类型：卫星地图与街道地图切换
- 3、清楚按键：清除地图上飞行器的飞行轨迹

## 姿态球



- 1、姿态球：飞行器横滚和俯仰的姿态

## 飞行参数



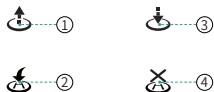
- 1、空速：飞行中飞行器相对于空气的速度
- 2、地速：飞行中飞行器相对于地面运动的速度
- 3、飞行高度：飞行器距离地面的高度
- 4、离家距离：起飞点到飞行器所在位置的距离
- 5、飞行时间：飞行器解锁开始计算的时间

## 画面切换



- 1、FPV 画面
- 2、地图画面

## 智能工具栏



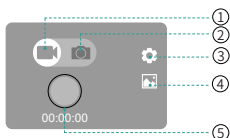
- 1、一键起飞
- 2、一键返航
- 3、一键降落
- 4、取消返航

## 信息提示栏



- 1、消息列表：飞行器异常信息提醒

## 拍摄设置栏



- 1、录像
- 2、拍摄
- 3、设置：设置拍摄尺寸
- 4、相册：预览拍摄图片 / 视频
- 5、开始 / 结束录制

## ⚙️ 飞行器参数设置界面

### 🚁 飞行栏

地理限高：设置最大飞行高度；

地理限远：设置最远飞行距离；

固定翼最低飞行高度：旋翼状态切换为固定翼状态最低高度；

返航高度：用于主动返航及失控返航，飞行器将上升至设定最低安全高度进行返航；

触发状态：固定翼模式抵达至地理限远的飞行距离时，飞行器将触发动作；

低电量警报：电量达到低电量警报时，飞行器将触发返航；

严重低电量警报：电量达到严重低电量警报时，飞行器将强制降落；

巡航速度：飞行器在预定航线后飞行时所采用的速度；



## 🌀 控制栏

摇杆模式：根据用户自身的操作习惯选择相对应的操作方式（分为美国手 / 日本手）；

磁罗盘校准：按照图标指示进行校准；

空速计校准：按照图标指示进行校准；

(每切换一个飞行场地都需要进行一次校准)

### 高级校准

加速度校准：按照图标指示进行校准；

陀螺仪校准：按照图标指示进行校准；

水平仪校准：按照图标指示进行校准。

(出厂时会进行一次校准，无特殊情况不需要进行校准)

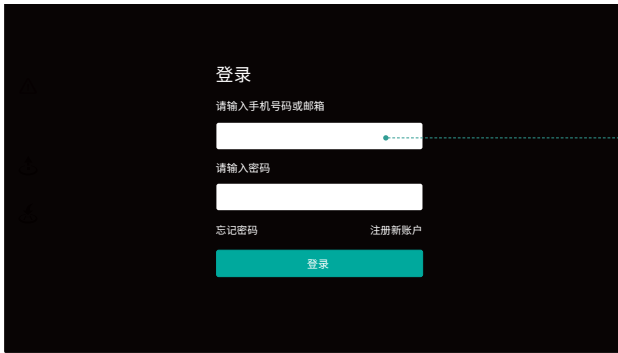
## 👥 多机互动玩法使用指引



点击进入多机互动账号登录窗口



选择登录



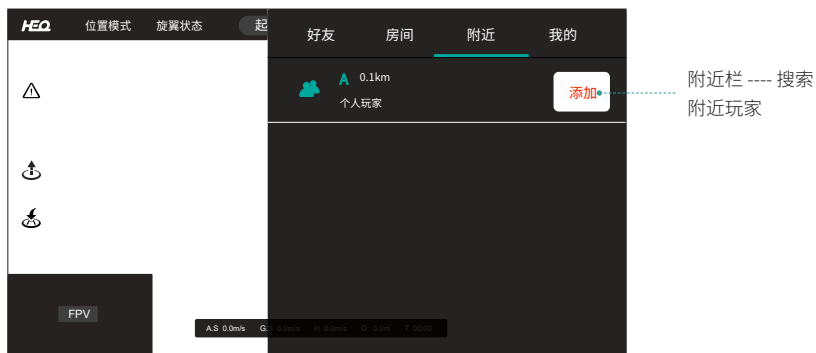
输入账号、密码  
并点击登录



好友栏 --- 搜索  
添加好友



房间栏 --- 搜索  
添加好友 / 创建  
房间 (邀请好友  
加入)



邀请好友进入房间，APP 地图上会显示进入房间好友的位置坐标。

以上操作需在联网的基础上进行，在飞行过程中，不可以断开网络，如断开网络，APP 页面将不会显示好友的坐标等信息。

# 飞行

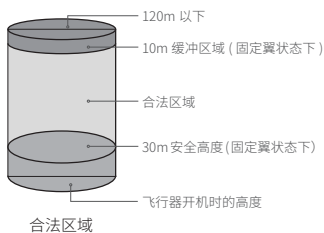
飞行时请选择室外空旷无遮挡的飞行环境飞行。飞行器飞行限高 500 m，请勿超过安全飞行高度。飞行时需严格遵守当地法律法规。飞行前务必阅读《HEQ 免责声明和安全指引》以了解安全注意事项。

## 飞行前检查

- 1、飞行器左侧拨杆已拨到位置模式；
- 2、飞行前请确保螺旋桨拧紧和机身组装完成；
- 3、无人机和遥控电量充足；
- 4、飞行前已连接 WIFI；
- 5、GPS 信号  $\geq 9$  颗卫星；
- 6、电源开启后相机和云台能正常工作。

## 飞行安全指引

- 1、请勿在人群、树林、机场、建筑附近和室内飞行。下雨天气（雨量低于 23.9mph）、刮风（风速不超过 10.7m/s），或极端天气请勿飞行；
- 2、务必远离风力发电站、高压线、变电站、无线信号塔、高大建筑物以及具有磁干扰的环境；
- 3、飞行时，请保持在视线范围内操控，使飞行器与障碍物、人群、水面、山体等保持距离；
- 4、在合法区域飞行。



## 规格参数

飞行器参数	
翼展	1.1m
最大起飞重量	1.75kg
飞行时长	50-60mins
飞行速度	11m/s~25m/s
航程	45Km
遥控距离	8Km
最大上升速度	3m/s
最大下降速度	2m/s
最大飞行海拔高度	4000m
最大抗风等级	5级
动力系统	2212 980KV 电机 +9060 桨叶
飞机器尺寸	107*336*502mm
包装尺寸	570*190*540mm
电池	4S 锂电池 5500mAh
充电器	17.4V 2.8A
工作温度	-10°C至 40°C
云台相机参数	
轴数	机械三轴
影像传感器尺寸	1200 万
像素	1/2.3 英寸 CMOS
视角	80° ~ 100°
等效焦距	24 mm
光圈	f/2.8
焦点范围	1 m 至无穷远
ISO 范围	视频 ISO 范围: 100 至 3200 (自动)
最大照片尺寸	4:3 宽高比: 4000×3000
录像分辨率	4K: 3840×2160@24/25/30fps 2.7K: 2720×1530@24/25/30/48/50/60fps FHD: 1920×1080@24/25/30/48/50/60fps
SD 卡支持容量	≤ 128G
照片格式	JPEG/DNG (RAW)
视频格式	MP4 (H.264/MPEG-4 AVC)
云台功能	俯仰、偏航控制、一键回中

本文档如有更新，恕不另行通知。

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<http://www.hequavtech.com>

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[support@hequavtech.com](mailto:support@hequavtech.com)

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