VCOPTER

FALCON *Mini*

ZEROZERO
R O B O T I C S

Quick Start Guide
快速入门指南

V202311

01 Power Button　电源按键
  −Press once to check the current battery level　短按查看电量
  −Press and hold to power the aircraftr on or off　长按开机/关机

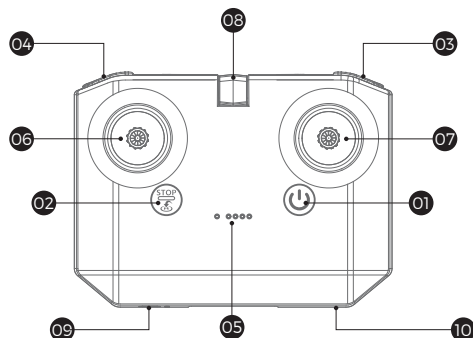02 Battery Level LEDs　电量指示灯
  −Displays the current battery level of the aircraft　显示当前飞行器电池电量

03 Status LED　状态指示灯
  −Indicates the status of the aircraft　显示飞行器的系统状态

04 USB-C Port　USB-C接口

05 micro-SD　SD卡槽
  −microSD Card Slot　支持扩展相机存储

01 Power Button　电源按键
  −Press once to check the current battery level　短按查看电量
  −Press and hold to power the remote controller on or off　长按开机/关机

02 Flight Pause/Return to Home (RTH) Button　急停 / 智能返航按键
  −Press and hold 2 seconds to initiate RTH/Landing　长按2S返航/降落
  −Press again to cancel RTH/Landing　短按取消

03 camera　拍照

04 video　录像

05 Displays the current battery level of the remote controller　状态及电量指示灯

06 Left control Sticks　左摇杆

07 Right control Sticks　右摇杆

08 Mobile Device Holder　移动设备支架
  −For mounting the mobile device securely on the remote controller　用于放置移动设备

09 For charging　充电接口

10 Connecting mobile device　连接移动设备
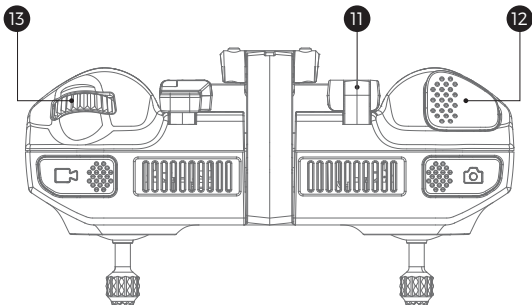
11 Antennas 天线转轴
   – Unfold upwards during flighting 飞行时需向上展开

12 Press once to switch mode between Sport and Normal Fn按键 短按开启/关闭运动模式
   – Press and hold to enter remote control setting mode 长按2S进入遥控器设置模式

13 Gimbal Dial 云台俯仰控制波轮
   – Controls the tilt of the camera 拨动调节云台俯仰角度

Step 1 Download V-Copter App

■ Use mobile phone to scan the QR code below or download the V-Copter App from the App Store / Google Play Store
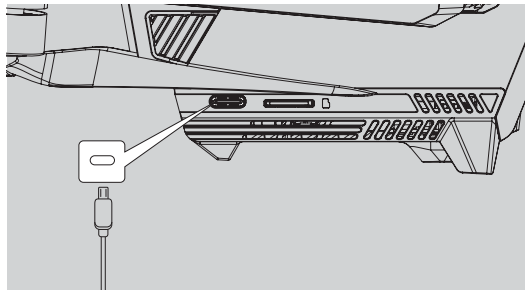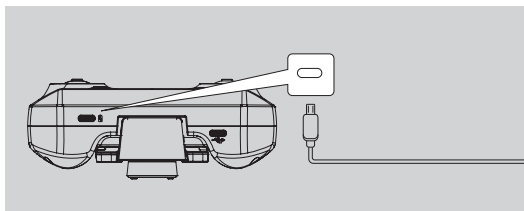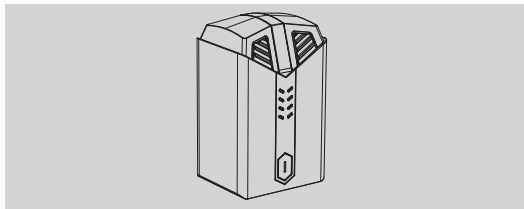 *The V-Coptr App is compatible with iOS 12.0 (or above) or Android 9.0 (or above)

ios

Android

Step 2 Charging

■ Please charge the aircraft battery and remote control before flying for the first time to ensure the flight experience

Connect the USB charger to the USB-C port on the aircraft/remote control to charge and activate the devices for the first time. Start charging indicator light flashing until the indicator light goes out.
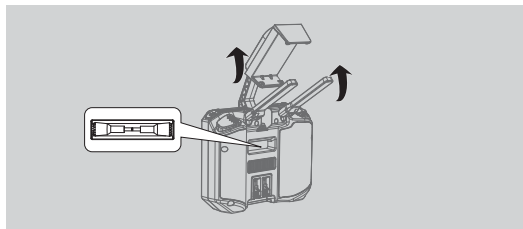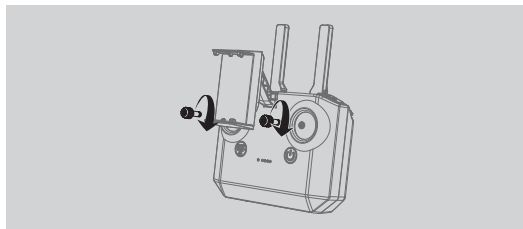
■ Check the battery level
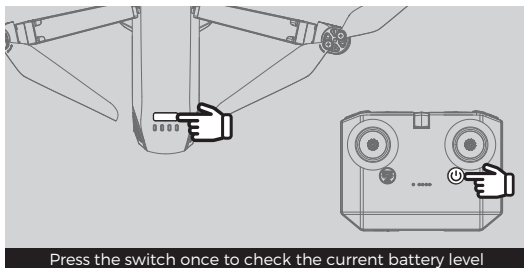
Press the switch once to check the current battery level
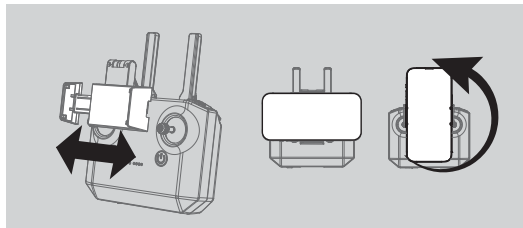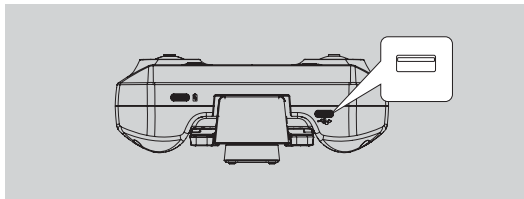
■ Unfold the Mobile Phone Stand and the Antennas

■ Install the Control Sticks

■ Place your mobile phone on the Mobile Phone Stand

■ Connect the phone using a cable according to the phone model

■ Press and hold the power button for 2 seconds. The Controller will beep when it is successfully turned on
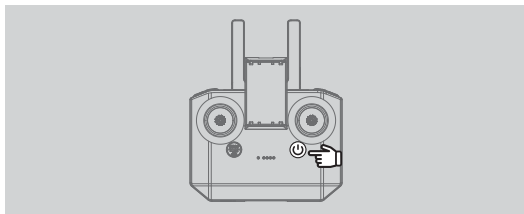
Step 4 **Prepare the Drone**

■ Correctly install the battery following the direction illustrated below

■ Remove the gimbal protector and extend the arms outward
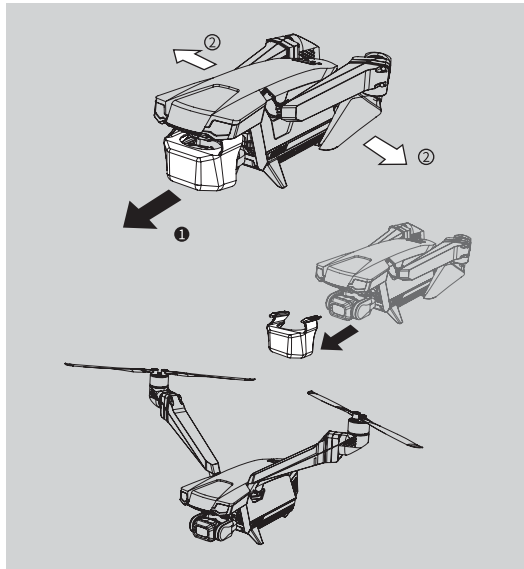
■ Press and hold the power button for 2 seconds until the status indicator light blinks and wait for automatic pairing
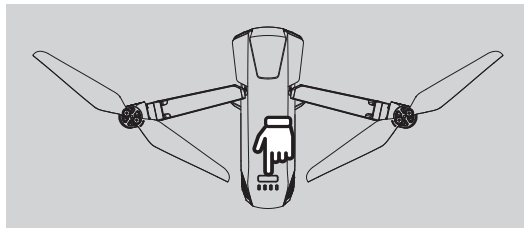
Step 5 **Flight**

■ Unlock

Press and hold 2 seconds

■ Take off

Take off

■ Landing
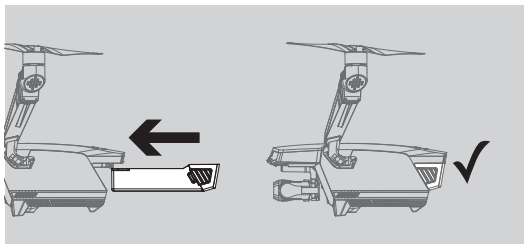

01

02

■ Controller Operations

Left Stick

Up

Down

Turn Left   Turn Right

Right Stick

Forward

Backward

Left   Right

■ Emergency Stop

STOP+FN, Hold 2 seconds

■ Return to Home

Hold 2 seconds

- **LEDs Descriptio**

Status LED

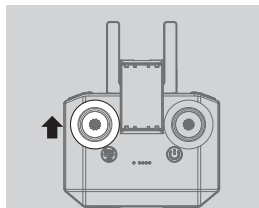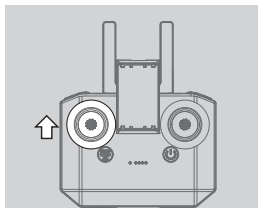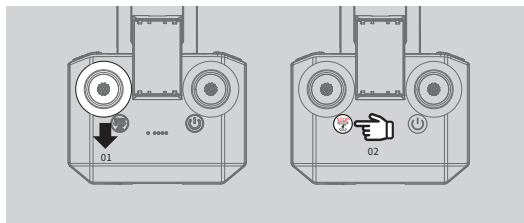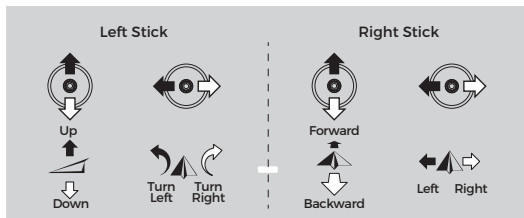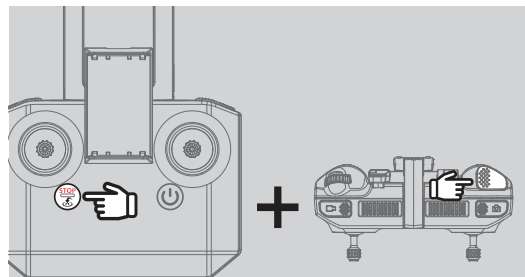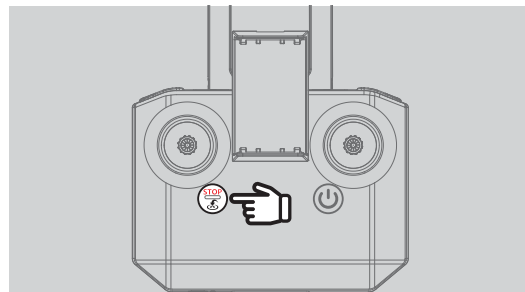| Blinking Pattern		
☀ ☀ ☀	Alternately blinking red, green and yellow	System self-check
☀ ☀	Double blinking red	Remote control is not connected
☀ ☀	Double blinking blue	Wifi is not connected
☀ ☀	Double blinking green	Optical flow mode
☀ – – – – –	Blinking green	GPS mode
☀ ——————	Solid purple	ATTI mode
Warning		
☀ X10	Blinking green continuously for 10 seconds	The returning point is recorded
☀ ☀	Double blinking yellow	Low battery in Optical flow mode
☀ – – – – –	Blinking yellow	Low battery in GPS
☀ – – – – –	Blinking purple	Low battery in ATTI
☀ ················	Quickly blinking red	Serious low battery warning
☼ ——————	Solid white	Compass calibrate
☼ ················	Quickly blinking white	IMU calibrate
☼ ················ X10	Blinking white continuously for 10 seconds	Server midpoint calibration
☀ ☼	Alternately blinking red and white	Calibration Failed
☀ ☀	Alternately blinking red and yellow	Need to calibrate the interfered compass
☀ ——————	Solid red	Equipment trouble
☀ – – – – –	Blinking red	Not horizontally placed，unable to take off
☀ ☀	Alternately blinking red and green	Upgrade in progress

BLASTOFF CONTROLLER

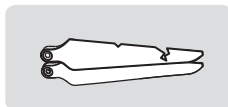| Blastoff Controller Level LEDs		
☀ ☀	Double blinking red	
☀	Blinking red	
☀ ——————	Solid green	
☀ ——————	Solid red	
☼ ——————	Solid white	
☀ ——————	Solid yellow	

Flight Safety

⚠ Attention:

Do not release or retrieve the drone with your hands.

Please make sure the bottom infrared sensor is clean before taking off.

Replace aging, broken or deformed propellers.

＊taking off on flat ground.

⊘ Improper Flying Environments:

Near crowds or dense buildings

Near strong magnetic fields

No-fly zones

In rain, fog, snow, lightning, hail, storms, strong wind, or any other extreme weather environments.

Please check the Disclaimer and Safety Instructions for more details at **zerozero.tech/support/downloads.**
Please read it carefully before flying.

FCC Radiation Exposure Statement:

FALCON Mini complies with FCC radiation exposure limits set forth for an uncontrolled environment. This equipment should be installed and operated with minimum distance 20cm between the radiator & your body.

BLASTOFF CONTROLLER meets the government's requirements for exposure to radio waves. The guidelines are based on standards that were developed by independent scientific organizations through periodic and thorough evaluation of scientific studies. The standards include a substantial safety margin designed to assure the safety of all persons regardless of age or health. The SAR limit of USA (FCC) is 1.6 W/kg averaged. Device types: BLASTOFF CONTROLLER (FCC ID: 2AIDW-ZZ-F-2-001) has also been tested against this SAR limit. SAR information can be viewed on‐line at http://www.f-cc.gov/oet/ea/fccid/. Please use the device FCC ID number for search. This device was tested simulation typical 0mm to body. To maintain compliance with FCC RF exposure requirements, use accessories should maintain a separation distance between the user's bodies mentioned above, the use of holsters and similar accessories should not contain metallic components in its assembly, the use of accessories that do not satisfy these requirements may not comply with FCC RF exposure requirements, and should be avoided.

FCC Warning

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. Note: This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

—Reorient or relocate the receiving antenna.
—Increase the separation between the equipment and receiver.
—Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
—Consult the dealer or an experienced radio/TV technician for help.
NOTE 2: Any changes or modifications to this unit not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

第一步　下载V-Copter App

■ 使用手机扫描下方二维码下载安装V-Copter App
　了解更多信息，请前往官网下载《用户手册》。
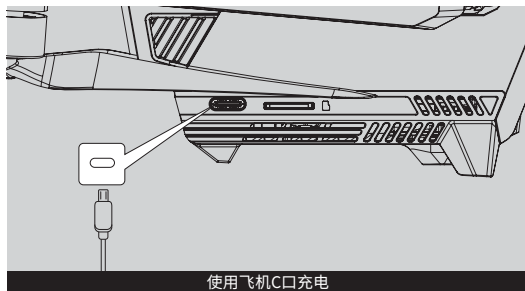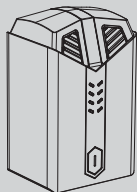　*请使用IOS 12.0及以上版本或Android 9.0及以上版本
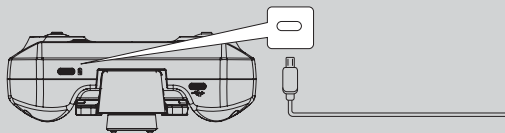

| ios | Android |

第二步　充电

■ 首次飞行需给飞行器电池及遥控器充电以保证飞行体验

使用飞机C口充电

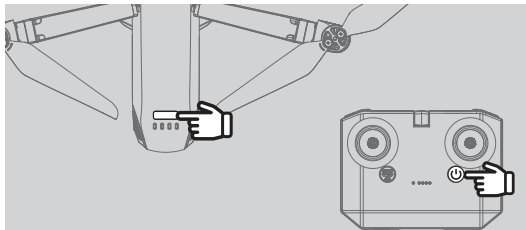使用充电管家充电

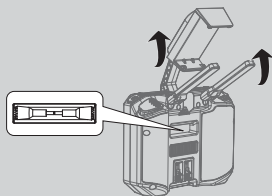（使用USB充电器连接飞行器/遥控器的充电接口(USB-C)至交流电源充电，
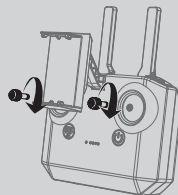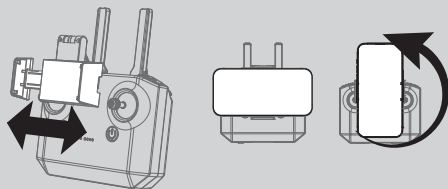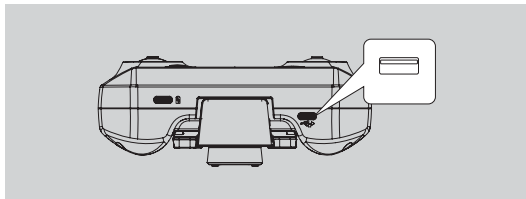电量指示灯如图规律闪烁，直至电量指示灯熄灭。开始充电即可唤醒设备）

■ 查看电量

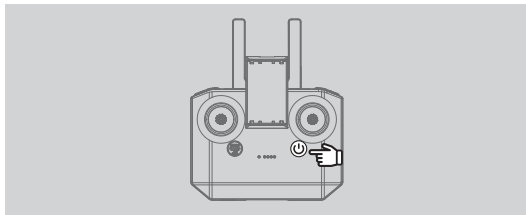短按开关可查看当前电量

■ 向前展开手机支架和天线

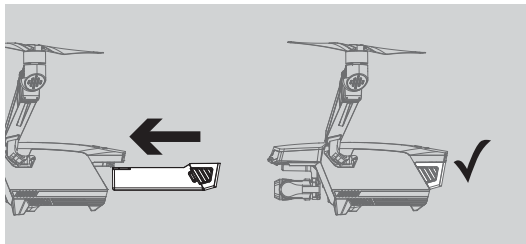■ 取出背面收纳槽中的摇杆并旋转锁紧

■ 固定手机

15

16

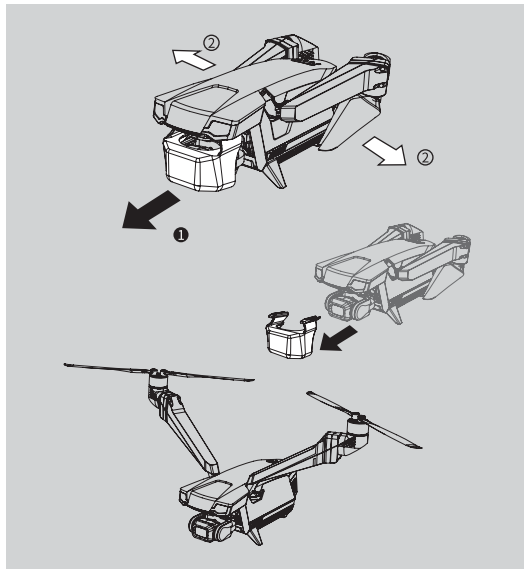■ 根据移动设备型号选择对应的数据线连接手机

■ 长按电源键2秒开机

第四步 准备飞行器

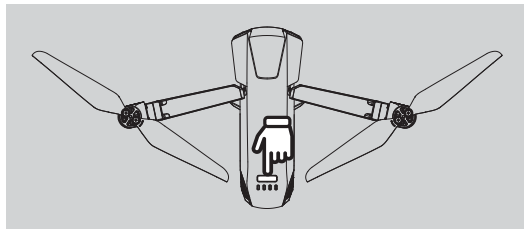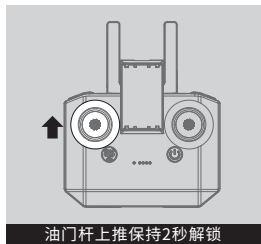■ 如图示正确安装电池,并听到"咔"一声

■ 摘下云台保护罩并向外展开机臂
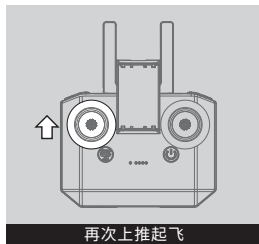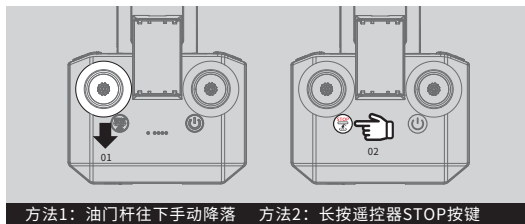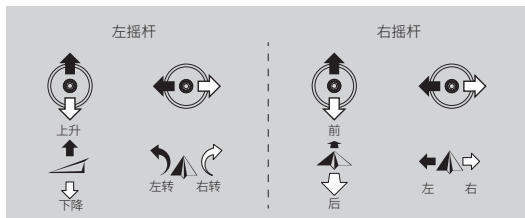
■ 长按电源键2秒开机,等待飞行器自检并与遥控器自动配对

第五步 飞行操控

■ 解锁

油门杆上推保持2秒解锁

■ 起飞

再次上推起飞

■ 降落

方法1：油门杆往下手动降落　　方法2：长按遥控器STOP按键

■ 遥控器操作方式

左摇杆　　　　　　　右摇杆

上升　下降　左转　右转　前　后　左　右

■ 紧急停机

长按STOP+FN，保持2秒

■ 自动返航

长按返航按键2秒
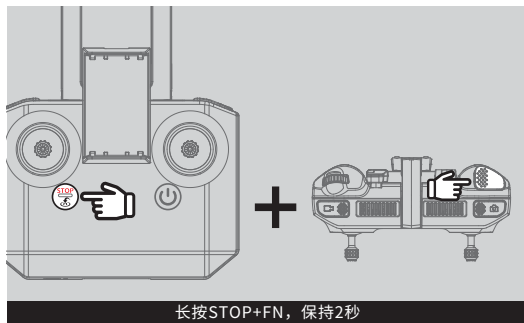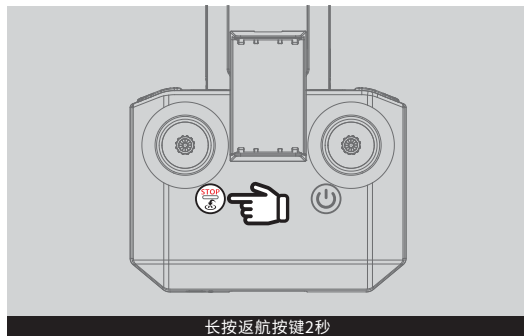
■ 灯语

飞行器

飞行状态		
🔴🟡🟢	红绿黄交替闪烁	系统自检
🔴⚫	红灯双闪	遥控器未连接（遥控器模式下）
🔵⚫	蓝灯双闪	移动设备未连接（WiFi模式下）
🟢⚫	绿灯双闪	使用光流定位
🟢 - - - - -	绿灯慢闪	使用GNSS定位
🟣 ——	紫灯常亮	姿态模式

提示与警告		
🟢 X10	绿灯连续闪烁10次	获取返航点成功
🟡⚫	黄灯双闪	光流模式下低电量提示
🟡 - - - - -	黄灯慢闪	GNSS模式下低电量提示
🟣 - - - - -	紫灯慢闪	姿态模式下低电量提示
🔴 ··········	红灯快闪	严重低电量
⚪ ——	白灯常亮	指南针校准
⚪ ··········	白灯快闪	IMU校准
⚪ ·········· X10	白灯快闪10次	舵机中点校准
🔴⚪	红白交替闪烁	校准失败
🔴🟡	红黄交替闪烁	需进行指南针校准
🔴 ——	红灯常亮	设备故障
🔴 - - - - -	红灯慢闪	放置不平或传感器误差过大，无法解锁
🔴🟢	红绿交替闪烁	固件升级中

遥控器

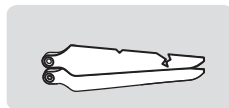| 遥控器状态		
🔴⚫	红灯双闪	对码中
🔴	红灯单闪	飞行器未连接（失联状态）
🟢 ——	绿灯常亮	已连接，可正常飞行
🔴 ——	红灯常亮	遥控器故障
⚪ ——	白灯常亮	遥控器进入功能模式
🟡 ——	黄灯常亮	进入摇杆校准模式

飞行安全

⚠ 注意事项：

请勿手持放飞或收回飞机。

起飞前，请确保底部红外传感器清洁无脏污。

及时更换老化、
破损或变形的螺旋桨。

*选择平地降落飞机。

⊘ 不适用飞行环境：

人群、建筑密集的区域

强磁场环境

禁止飞行的区域或建筑物周围

雨雪、雾霾、雷电、大风、冰雹、
沙尘等恶劣天气环境

更多安全事项请参考
zerozero.tech/support/downloads 上的免责声明和安全
操作手册，飞行前请务必仔细阅读。