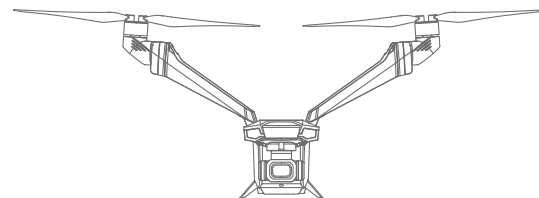


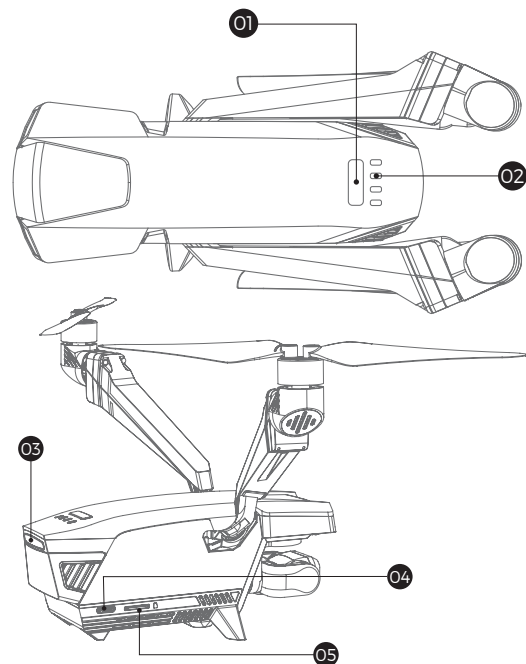
ZEROZERO
R O B O T I C S

VCOPTER
FALCON *Mini*

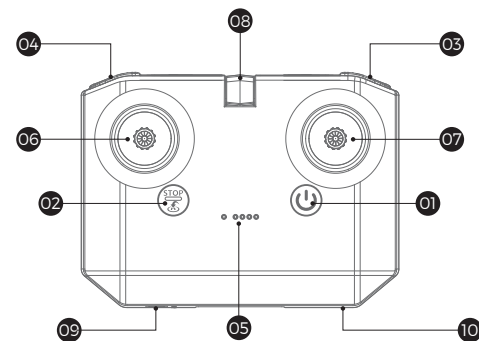


Quick Start Guide

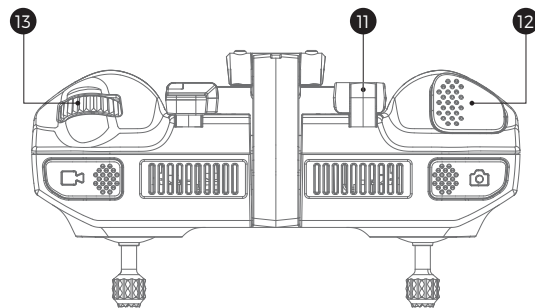
快速入门指南



- 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 aircraft 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 Card Slot SD 卡槽
-Supports expandable camera storage 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 Status and Battery Level LEDs 状态及电量指示灯
-Displays the status and the current battery level of the remote controller 显示当前遥控器状态以及电池电量
- 06 Left Control Stick 左摇杆
- 07 Right Control Stick 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 Charging Port 充电接口
- 10 Mobile Device Connection Port 连接移动设备



- 11 Antennas 天线转轴
-Unfold upwards during flight 飞行时需向上展开
- 12 Fn Button Fn按键
-Press once to switch between Sport Mode and Normal Mode 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 gimbal 拨动调节云台俯仰角度

Step 1 Download V-Copter App

- Use your mobile phone to scan the QR code below or download the V-Copter App from the App Store / Google Play Store

*The V-Copter App is compatible with iOS 12.0 (or above) or Android 9.0 (or above)



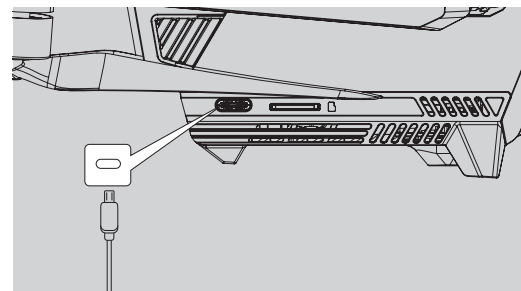
ios

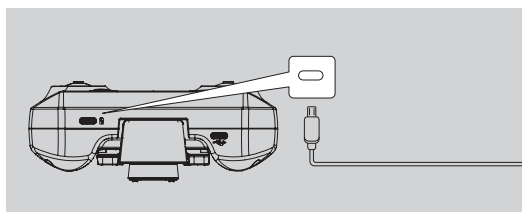
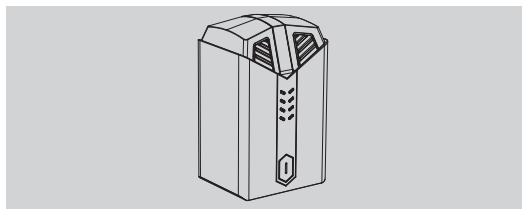


Android

Step 2 Charging

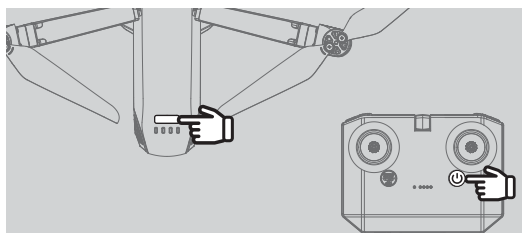
- Please charge the aircraft battery and remote control before your first flight to ensure optimal flight experience





Connect the USB charger to the USB-C port on the aircraft/remote control to charge and activate the devices for the first time. The charging indicator light will flash until it turns off.

■ Check the battery level

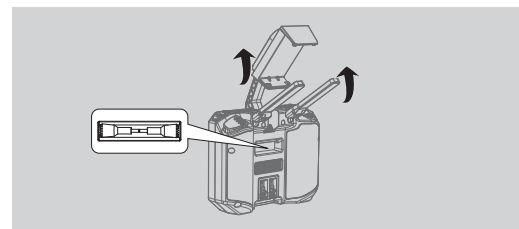


Press the switch once to check the current battery level

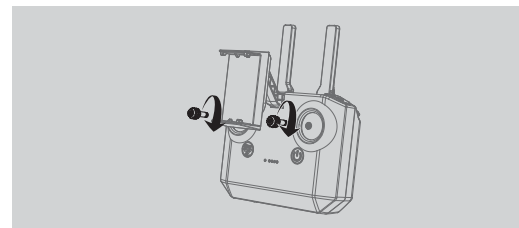
05

Step 3 Prepare the Controller

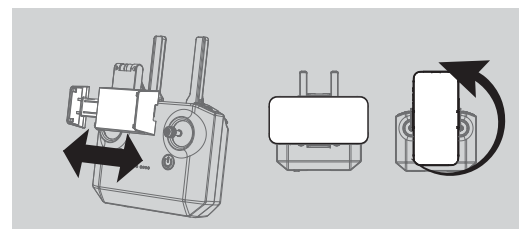
■ Unfold the Mobile Phone Stand and the Antennas



■ Install the Control Sticks

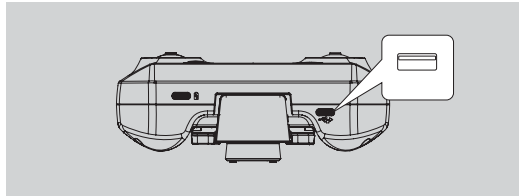


■ Place your mobile phone on the Mobile Phone Stand

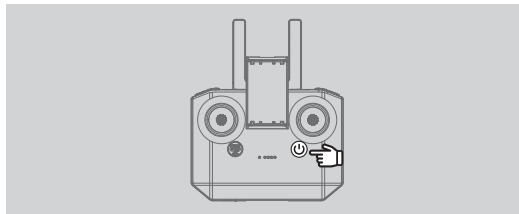


06

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

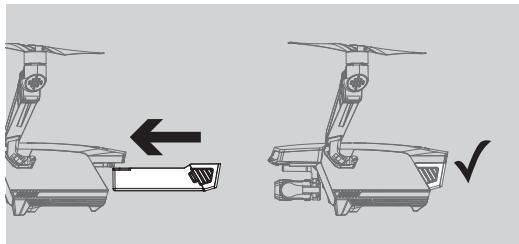


- Press and hold the power button for 2 seconds. The Controller will beep when it is successfully turned on



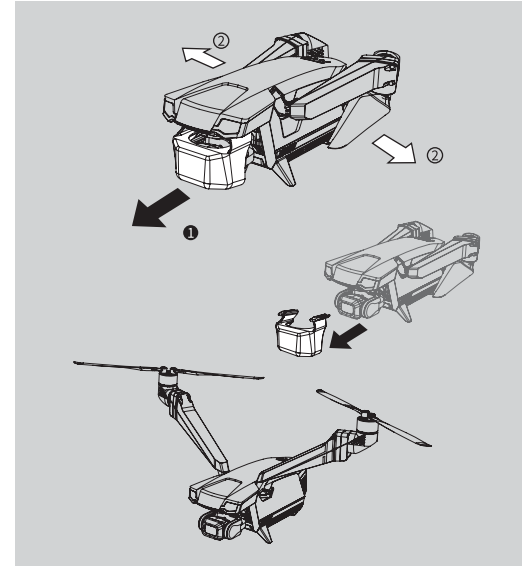
Step 4 Prepare the Drone

- Correctly install the battery following the direction illustrated below

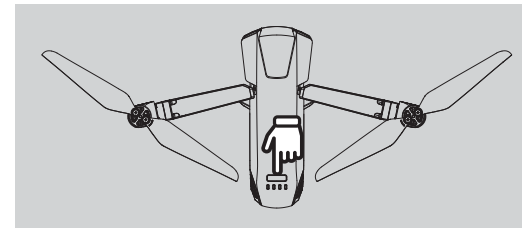


07

- Remove the gimbal protector and extend the arms outward



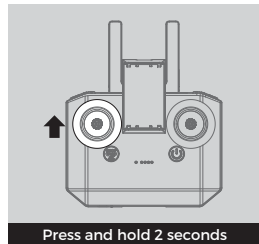
- Press and hold the power button for 2 seconds until the status indicator light blinks and wait for automatic pairing



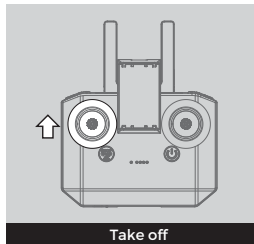
08

Step 5 Flight

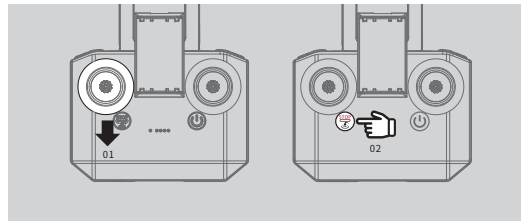
■ Unlock



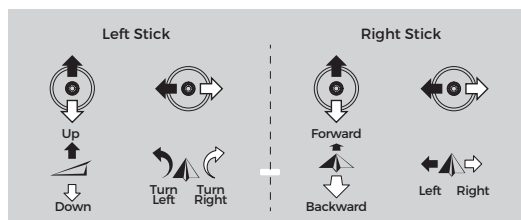
■ Take off



■ Landing

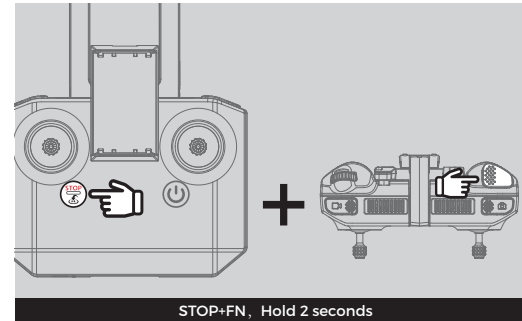


■ Controller Operations

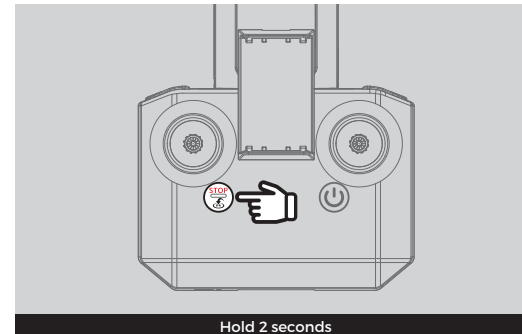


09

■ Emergency Stop



■ Return to Home



10

■ LEDs Description

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	CPS mode
	Solid purple	ATTI mode
Warning		
	Blinking green continuously for 10 seconds	The returning point is being recorded
	Double blinking yellow	Low battery in Optical flow mode
	Blinking yellow	Low battery in GPS mode
	Blinking purple	Low battery in ATTI mode
	Rapid blinking red	Serious low battery warning
	Solid white	Compass calibration
	Rapid blinking white	IMU calibration
	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

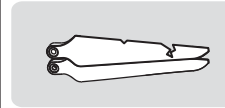
⚠ Attention:



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.



Take 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:

FCC/ISED 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/ISED) is 1.6 W/kg averaged. Device types: BLASTOFF CONTROLLER
(FCC ID: 2AIDW-ZZ-F-2-002, IC : 21647-ZZF2002) has also been tested against this SAR limit.
SAR information can be viewed on-line at <http://www.fcc.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/ISED RF exposure requirements, used 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/ISED RF exposure requirements, and should be avoided.
Déclaration FCC/ISED sur l'exposition aux rayonnements :
FALCON Mini respecte les limites d'exposition aux rayonnements fixées par la FCC pour un environnement non contrôlé. Cet équipement doit être installé et utilisé avec une distance minimale de 20 cm entre le radiateur et votre corps.
Le contrôleur d'explosion répond aux exigences du gouvernement en matière d'exposition aux ondes radio. Les lignes directrices sont basées sur des normes élaborées par des organisations scientifiques indépendantes à travers une évaluation périodique et approfondie des études scientifiques. Les normes prévoient une marge de sécurité importante conçue pour assurer la sécurité de toutes les personnes, quel que soit leur âge ou leur santé. La limite SAR des États-Unis (FCC/ISED) est de 1,6 W/kg en moyenne. Types de dispositifs: BLASTOFF CONTROLLER
(FCC ID: 2AIDW-ZZ-F-2-002, IC: 21647-ZZF2002) a également été testé contre cette limite SAR.
Les informations sur la SAR peuvent être consultées en ligne à <http://www.fcc.gov/oet/ea/fccid/>. Veuillez utiliser le numéro d'identification FCC de l'appareil pour la recherche. Ce dispositif a été testé simulation typique 0mm au corps. Pour maintenir la conformité avec les exigences FCC/ISED RF exposition, les accessoires utilisés doivent maintenir une distance de séparation entre les corps de l'utilisateur mentionnés ci-dessus, l'utilisation de boîtiers et d'accessoires similaires ne doit pas contenir de composants métalliques dans son assemblage, l'utilisation d'accessoires qui ne répondent pas à ces exigences peut ne pas être conforme aux exigences FCC/ISED RF exposition, et devrait être évité.
ISED RSS warning This device complies with Innovation, Science and Economic Development Canada Compliance licence - exempt RSS standard (s). 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. Le présent appareil est conforme aux CNR d'Innovation, Sciences et Développement économique Canada applicables aux appareils radio exempts de licence. L'exploitation est autorisée aux deux conditions suivantes:
(1) l'appareil ne doit pas produire de brouillage, et
(2) l'utilisateur de l'appareil doit accepter tout brouillage radioélectrique subi, même si le brouillage est susceptible d'en compromettre le fonctionnement.
Any changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.
Tous les changements ou modifications non expressément approuvée par le responsable de la conformité pourrait vider l'utilisateur est habilité à exploiter l'équipement.

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

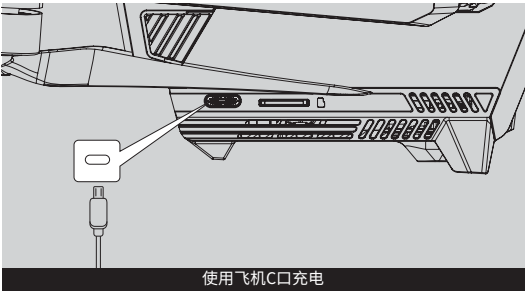
■ 使用手机扫描下方二维码下载安装V-Copter App

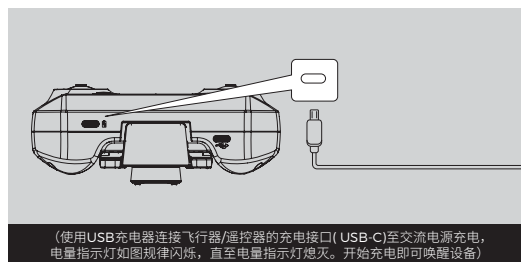
了解更多信息，请前往官网下载《用户手册》。
*请使用IOS 12.0及以上版本或Android 9.0及以上版本



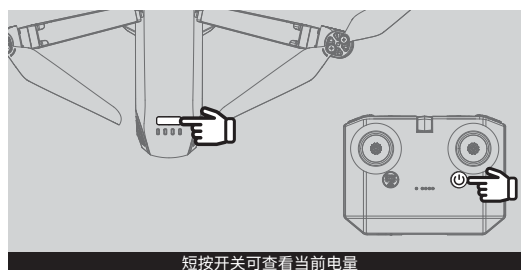
第二步 充电

■ 首次飞行需给飞行器电池及遥控器充电以保证飞行体验





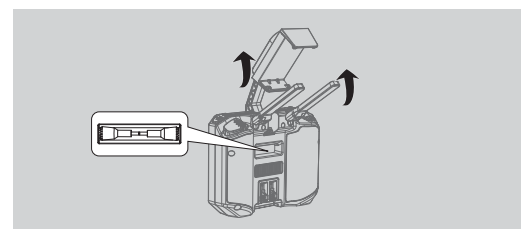
■ 查看电量



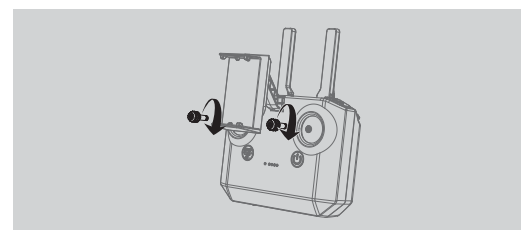
15

第三步 准备遥控器

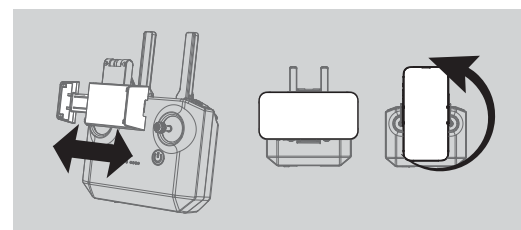
■ 向前展开手机支架和天线



■ 取出背面收纳槽中的摇杆并旋转锁紧

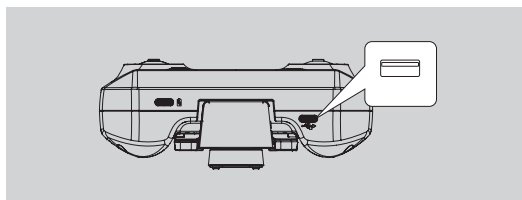


■ 固定手机

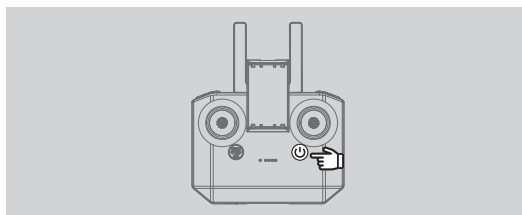


16

- 根据移动设备型号选择对应的数据线连接手机

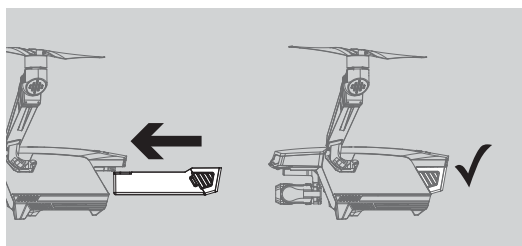


- 长按电源键2秒开机



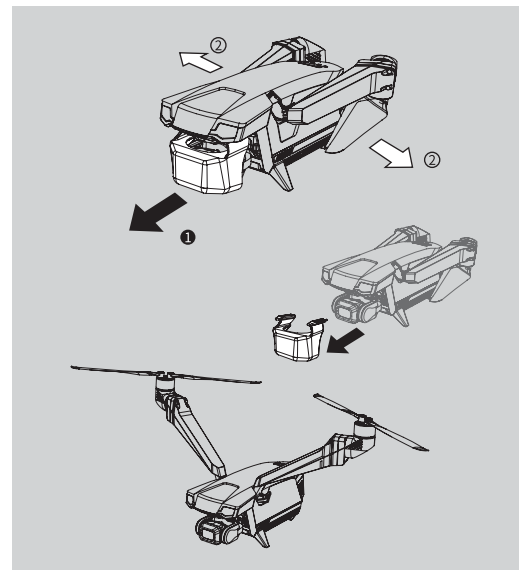
第四步 准备飞行器

- 如图示正确安装电池，并听到“咔”一声

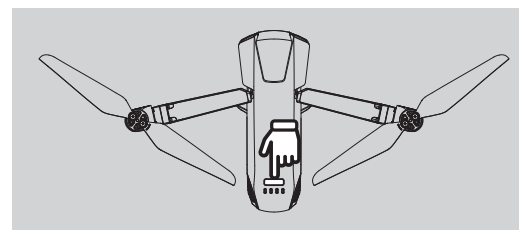


17

- 摘下云台保护罩并向外展开机臂



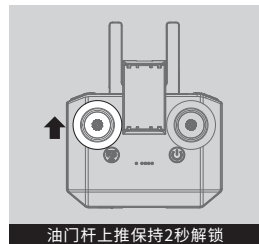
- 长按电源键2秒开机，等待飞行器自检并与遥控器自动配对



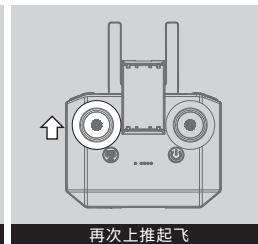
18

第五步 飞行操控

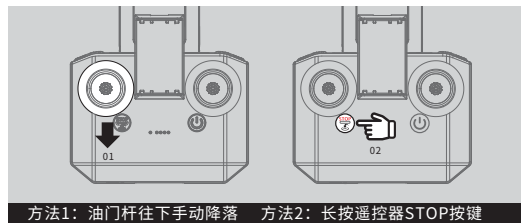
■ 解锁



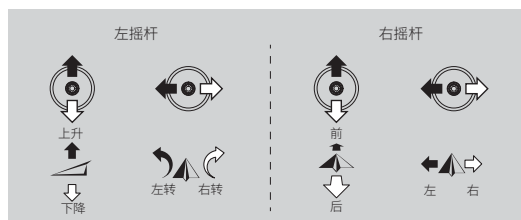
■ 起飞



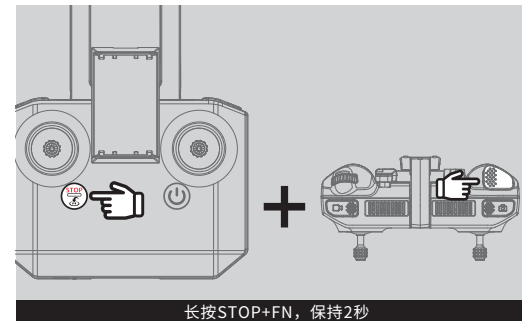
■ 降落



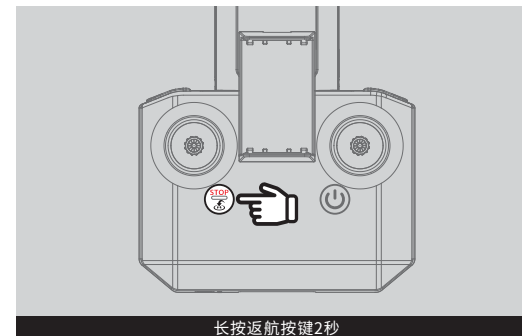
■ 遥控器操作方式



■ 紧急停机



■ 自动返航



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		
	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
	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

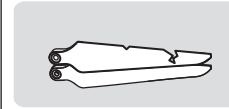
⚠ 注意事项：



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。

V-Copter Falcon Mini Warranty Card V-Copter Falcon Mini 产品保修卡

Product Name/商品名称: _____ User Name/用户名: _____

Product S/N/商品序列号: _____ Phone Number/联系电话: _____

Dealer/经销商: _____ Date of Purchase/购买日期: _____

Contact Address/联系地址: _____

Warranty Period

Components	Warranty Period	Service Method
Main Board	12 Months	Customer Mail-In
ESC Board	12 Months	Customer Mail-In
Gimbal	12 Months	Customer Mail-In
Battery	12 Months with less than 200 cycles	Customer Mail-In
Cosmetic Parts	No Warranty	Customer Mail-In

保修期限

部件名称	保修期限	服务方式
主板	12个月	用户寄修
电调板	12个月	用户寄修
云台	12个月	用户寄修
电池	12个月 且循环次数少于200次	用户寄修
外观件	不保修	用户寄修

The start date of the warranty period is based on the HoverAir X1 activation date. If the last day of the warranty period is a legal holiday, the day after the holiday is the last day of the validity period. Within the above warranty period, Shenzhen Zero Zero Infinity Technology Co., Ltd. ("We" or "ZeroZeroTech") confirms that if the product parts listed above are defective due to quality or workmanship issues, we will repair the product for free. For repairs that occur outside of the warranty period or for issues unrelated to quality or workmanship or otherwise not covered by this warranty, expenses must be borne by the user. Shipping costs produced by shipping the product back to users will be borne by ZeroZeroTech for free repairs and by users for paid repairs.

产品保修期限起始日期以产品激活记载日为准，若保修期限的最后一天为法定节假日时，以节假日的次日为有效期的最后一天。在上述保修期限内，经深圳零零无限科技有限公司（“我们”或“零零科技”）确认若产品上述部件出现自身质量问题导致的性能故障，用户可以免费维修；超过上述保修期限或在上述保修期限内产品上述部件出现非自身质量问题导致的性能故障，用户可以申请付费维修。零零科技只负责因免费维修产生的寄回用户指定地点的运费。

The following conditions are not covered by the warranty:

1. Product damage caused by transportation or handling after purchase;

- 2.Any modification, disassembly, and maintenance without ZeroZeroTech's authorization and permission;
- 3.Product damage caused by accidental factors or human behavior, such as: liquid damage, dropping, improper input voltage, exposure to excessive force, deformation of the main board, etc.;
- 4.Product damage caused by installation, use, maintenance, and storage that is not in accordance with the user manual;
- 5.Failure to provide a valid proof of purchase, or provide forged or altered proof;
- 6.If the labels, product serial numbers, or tamper proof labels are torn, altered, unclear or unrecognizable;
- 7.Product damage due to uncontrollable environmental factors such as fire, earthquake, flood, etc.;
- 8.Other performance issues caused by problems unrelated to product quality;

以下情况不属于免费保修范围：

1. 产品购入后由于运输、装卸所导致的故障或损坏；
2. 任何未经零零科技授权许可的改装、拆卸、维修；
3. 意外因素或人为行为导致产品损坏，如：进液、摔损、输入不合适电压、过度挤压、主板变形等；
4. 未按使用说明要求安装、使用、维护、保管导致的产品故障或损坏；
5. 无法提供合法有效的购买凭证或单据，或对单据进行了伪造或涂改；
6. 标签、机器序列号、防水防拆标记被撕毁或涂改，模糊不清无法识别；
7. 由于不可抗因素（如火灾、地震、水灾等）而造成的故障或损坏；
8. 其他非产品自身质量问题导致的性能故障。

User Notices

1.Data Backup

It is your responsibility to backup all existing data on the device. The repair process may cause loss, error, or damage, and ZeroZeroTech will not be responsible for any loss related to data loss during repair process.

2.Ownership of Repair Components

Product components that are repaired and replaced during the repair process, will be taken back and owned by ZeroZeroTech.

3.Paid Maintenance Fee

For products that are out of the warranty period or otherwise not qualified for free repair, ZeroZeroTech will administer services strictly in accordance with the "HoverAir X1 Paid Service Fee Standards", and you will be charged as such. If you refuse to pay, ZeroZeroTech has the right to suspend services until the full service fee has been paid; all consequences will be borne by the user.

用户须知

1.数据备份

您在接受服务之前请将所有资料另行备份或记录，维修过程可能造成的资料错漏、丢失或损坏，零零科技不承担任何责任及由此可能带来的任何损失。

2.维修配件的所有权

维修（包括付费维修）过程中被维修更换下来的产品配件，将由零零科技收回并享有所有权。

3.付费维修费用

对于超过保修期限和免费维修服务范围的产品，零零科技将严格按照《HoverAir X1 有偿服务收费标准》执行，同时请您对属于有偿服务范围的服务支付相应的费用；如果您拒绝付费，在您未付清服务费前，零零科技有权暂时终止对您的服务，由此造成的后果将由您自行承担。

*Please visit zrobotics.com/support/warranty to get detailed warranty terms and after-sales policies. Shenzhen Zero Zero Infinity Technology Co., Ltd.reserves the right to modify the above policies and terms without notice. Please check the official website for the latest version.

If there is any inconsistency or ambiguity between different language versions of this warranty, the Simplified Chinese version shall prevail.

*本保修卡内容与零零科技保修条款和售后服务政策有不同之处的，以零零科技保修条款和售后服务政策为准。

零零科技保修条款和售后服务政策最新版本请访问 zrobotics.com/support/warranty 获取。零零科技保留上述条款和政策的解释权和修订权，内容如有更新，恕不另行通知。