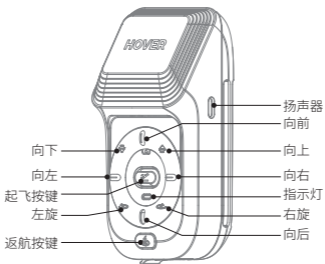
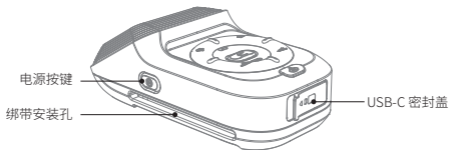


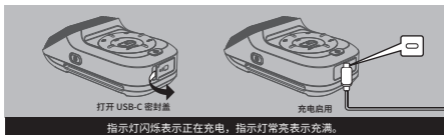
HOVERAir AQUA **哈浮飞行相机 AQUA**

AQUA 智能控制灯塔快速入门指南 **AQUA Lighthouse Quick Start Guide**



第 1 步 充电

- 请先充电以启用电池。



注：启用完成后，请盖回 USB-C 密封盖，确保防水。

第 2 步 开关机

- 长按电源键



第 3 步 连接哈浮飞行相机 AQUA

- 开机后自动连接已配对的飞行相机，连接成功时蓝灯常亮并语音播报。初次使用请先绑定灯塔。



注：如未连接成功，请参考按键行为说明章节进行重新绑定灯塔。

按键行为

电源键	长按：开机/关机。短按：电量播报。
起飞按键	开机未飞行状态按下起飞。
向上	
向下	
左旋	
右旋	
向前	
向后	
向左	
向右	
向上+左旋	长按3秒，灯塔进入配对模式，此时飞行相机可搜索灯塔并绑定。
向下+右旋	长按3秒，打开WiFi广播，长时间无连接自动关闭。
返航按键	短按：返航。

注：跟随模式自动降落时按下任意按键都可以取消自动降落并继续跟随。

灯语解释

连接及飞行状态	
熄灭	未开机。
蓝灯缓闪	开机但未连接飞行相机。
蓝灯常亮	连接成功，全地形未生效。
绿灯缓闪	飞行相机全地形生效，但灯塔追踪未生效。
绿灯常亮	全地形+灯塔追踪均已生效。

充电状态	
绿灯常亮	电量大于 95%。
绿灯缓闪	电量 66% - 95%。
橙灯缓闪	电量 33% - 66%。
红灯缓闪	电量 0% - 33%。
红灯快闪	充电异常。

规格参数

型号: ZZ-H-2-002

尺寸: 97 x 26 x 33 mm

工作环境温度: -20°C-40°C

额定容量: 1550 mAh

标称电压: 3.85 V

充电限制电压: 4.4 V

额定能量: 5.968 Wh

充电方式: USB-C

续航: 最大 300 分钟

CMIIT ID: 24Z44H33R102

IC: 21647-ZZH2002

wifi: 2402MHz-2483.5MHz

GNSS:

GPS: L1 C/A, L5 Glonass: L1OF BDS: B1I, B2A Galileo: E1-B/C, E5a

规格参数可能因当地法律法规的不同而有所差异, 请以实际使用环境及当地政策为准。

AQUA 智能控制灯塔保修卡

商品名称：_____ 用户姓名：_____

商品序列号：_____ 联系电话：_____

经销商：_____ 购买日期：_____

申请保修服务

在产品有效保修期内产品出现性能故障，您可以申请产品保修服务，主要部件保修期限如下

部件	保修期限	服务方式
主板	12个月	用户寄修
电池	12个月	用户寄修
外观件	不保修	用户寄修

本产品的保修期从您收到货物后的当日算起，若您无法提供有效购买凭证，则保修起始日期以机器所示的出厂日期向后顺延 90 日或由零零科技另有规定，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。

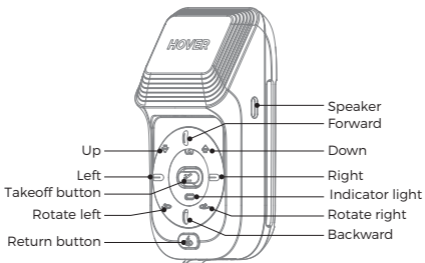
以下情况不属于免费保修范围：

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. 未按使用说明书要求安装、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、防水防拆标记及其他标示被撕毁或涂改，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. 发生人为的非产品本身质量问题导致的碰撞、烧毁、飞丢等事故；
9. 与非零零科技认证的第三方部件同时使用时发生可靠性及兼容性问题导致的损坏；
10. 联系零零科技确认保修服务后，没有在 7 个自然日内寄出相应物件；
11. 其他经零零科技认定为非产品自身质量问题导致的性能故障。

其他须知

若客户提供的收件地址错误，或存在收件人拒绝接收的情况，由此产生的损失须由客户承担。产品寄修前，请您妥善处理原有产品上附着的个性化物品和装饰（包含但不限于产品装饰性贴纸、UAS 贴纸、涂料喷漆等），零零科技对个性化物品和装饰的破损与遗失概不负责。为确保您的正常权益，在签收产品时，请您检查产品是否完好（如是否存在因物流等原因造成的损坏等）。如产品存在异常，请于签收日起的 7 日内反馈我们；否则将视您默认产品无损坏且性能正常。

维修（包括付费维修）过程中被维修更换下来的产品配件，将由零零科技回收并享有所有权。对于超过保修期限和免费维修服务范围的产品，零零科技将根据实际情况报价，您须对属于有偿服务范围的服务支付相应费用；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，由此造成的后果由您自行承担。



Step 1 Charging

- Charge the battery first to activate it.



A blinking indicator light indicates charging. A solid indicator light indicates fully charged.

Note: After activation, close the USB-C port cover to ensure a proper waterproof seal.

Step 2 Power On/Off

- Press and hold the Power button.



Press and hold the Power button for about 2 seconds until the blue indicator light pulses slowly. When the battery falls below 1%, the Lighthouse will shut down automatically.

Step 3 Connect to HOVERAir AQUA

- Pair your Lighthouse before first use. Once paired, it will automatically connect when powered on. When successful, a blue light and a confirmation chime will be played.











Follow on-screen instructions on AQUA to pair with Lighthouse.



Press and hold [Up] and [Left Spin] buttons on Lighthouse for approximately 3 seconds to connect with AQUA. When pairing is successful, a sound from the Lighthouse will play.

Note: If connection fails, refer to the Button Behavior section to pair the Lighthouse again.

Button Behavior

Power Button	Press and hold: Power On/Off. Short press: Battery level report.
Takeoff Button	When powered on and not in flight: Initiates takeoff.
Up	
Down	
Rotate Left	
Rotate Right	
Forward	
Backward	
Left	
Right	
Up + Rotate Left	Press and hold for 3 seconds to enter pairing mode. AQUA can search for and bind to the Lighthouse when it is in this mode.
Down + Rotate Right	Press and hold for 3 seconds to enable Wi-Fi broadcasting. It will turn off automatically if no connection is made.
Return Button	Short press: Return.

Note: During automatic landing in follow mode, pressing any button will cancel the automatic landing and continue to follow the target.

LED Indicators

Connection and Flight Status	
Off	Device is powered off.
Blue light: Slow blink	When powered on and not in flight: Initiates takeoff
Blue light: Solid	Connected successfully, OmniTerrain not active.
Green light: Slow blink	OmniTerrain active, but Lighthouse Tracking not active.
Green light: Solid	Both OmniTerrain and Lighthouse Tracking are active.

Charging Status

Green light: Solid	Battery above 95%.
Green light: Slow blink	Battery 66%-95%.
Orange light: Slow blink	Battery 33%-66%.
Red light: Slow blink	Battery 0%-33%.
Red light: Quick flashes	Charging error.

Specifications

Model: ZZ-H-2-002

Size: 97 x 26 x 33 mm

Operating temperature: -20°C to 40°C (-4°F to 104°F)

Connection Type: LoRa / Bluetooth

Operating Frequency: 2402 - 2480 MHz (Bluetooth) / 868 MHz (LoRa)

Transmit Power (EIRP): Bluetooth: < 10 dBm / LoRa: < 20 dBm

Modulation: GFSK (Bluetooth) / LoRa Modulation

Battery Capacity: 1550 mAh

Nominal Voltage: 3.85 V

Max Charging Voltage: 4.4 V

Rated Energy: 5.97 Wh

Charging method: USB-C

Battery life: Up to 300 minutes

CMIIT ID: 24Z44H33R102

IC: 21647-ZZH2002

wifi: 2402MHz-2483.5MHz

GNSS:

GPS: L1 C/A, L5 Glonass: L1OF BDS: B1I, B2A Galileo: E1-B/C, E5a

Specifications may vary depending on local laws and regulations.
Please refer to your local policies and the actual operating environment.

CE Maintenance

The highest SAR value reported under this standard during product certification for use on the body is 0.215W/kg. Body Front Side separation distance is 0mm.



AQUA Lighthouse Warranty Card

Product Name : _____ User Name: _____

Product SN : _____ Contact Tel.: _____

Distributor : _____ Purchase Date : _____

Apply for Warranty Service

If you experience issues with your product during the warranty period, please follow these steps to request service:

Parts	Warranty Period	Service Method
Mainboard	12 months	Customer Return for Repair
Battery	12 months	Customer Return for Repair
External Parts	No warranty	Customer Return for Repair

The warranty period for this product begins on the day you receive it. If you cannot provide valid proof of purchase, the warranty start date will be 90 days after the manufacturing date shown on the device, or as otherwise specified by Zero Zero Technology. If the last day of the warranty period falls on a statutory holiday, the warranty will extend to the next business day. Within the warranty period described above, if Shenzhen Zero Zero Infinity Technology Co., Ltd. ("we" or "Zero Zero Technology") confirms that any of the components listed above have performance failures caused by quality issues, the user is entitled to free repair services. For issues occurring after the warranty period, or during the warranty period but not caused by component quality issues, users may request paid repair services. Zero Zero Technology is responsible only for the shipping cost of returning the repaired product to the user's designated address after free repairs.

The following are not covered by the free warranty:

1. Damage or malfunction caused by transportation or handling after purchase.
2. Any modification, disassembly, or repair not authorized by Zero Zero Technology.
3. Damage caused by accidental factors or improper human operation, such as liquid ingress, drops, incorrect voltage input, excessive pressure, or motherboard deformation.
4. Malfunction or damage caused by installation, use, maintenance, or storage not in accordance with the user manual.
5. Inability to provide valid proof of purchase, or forged/altered purchase documents.
6. Labels, serial numbers, waterproof or tamper-evident marks, or other identifiers that are torn, altered, or illegible.

7. Damage or malfunction caused by force majeure (e.g., fire, earthquake, flood).
 8. Accidents caused by non-product-quality factors such as collisions, burns, or loss of the device.
 9. Damage caused by reliability or compatibility issues when used with third-party components not certified by Zero Zero Technology.
 10. Failure to send in the required items within 7 calendar days after Zero Zero Technology confirms warranty service.
 11. Other performance failures determined by Zero Zero Technology not to be caused by product quality issues.
-

Other notes

If the customer provides an incorrect delivery address, or if the recipient refuses to accept the package, the resulting losses must be borne by the customer.

Before sending the product for repair, please remove any personalized items or decorations attached to the device (including but not limited to decorative stickers, UAS stickers, paint, etc.). Zero Zero Technology is not responsible for any damage to or loss of such personalized items.

To protect your rights, please inspect the product for any damage (including possible shipping damage) when you receive it. If you find any issues, notify us within 7 days of receipt; otherwise, it will be considered that the product was received intact and functioning normally.

Any components replaced during repair (including paid repairs) will be retained by Zero Zero Technology and become the property of Zero Zero Technology.

For products outside the warranty period or not eligible for free repair service, Zero Zero Technology will provide a quotation based on the actual condition. You must pay the applicable fees for paid services. If you refuse to pay, Zero Zero Technology may temporarily suspend service until payment is completed, and any consequences arising from such suspension are your responsibility.