

Disclaimer and Safety Instructions

免责声明和安全操作手册

Disclaimer and Warning

- Please be sure to read this document carefully to understand your legal rights, responsibilities, and safety instructions before using the product. HoverAir X1 is a small smart flying camera. It is not a toy. Anyone who may be unsafe when operating HoverAir X1 should not use this product. This group of people includes but is not limited to:
 - Children at or under the age of 14; teenagers above the age of 14 and below the age of 18 must be accompanied by parents or professionals to operate HoverAir X1;
 - People under the influence of alcohol, medication, who have dizziness, or are in a poor physical or mental state;
 - People in conditions that make them unable to safely operate HoverAir X1;
- In scenarios where the above group of people is present, user must operate HoverAir X1 carefully. Operate with caution in risky scenarios, e.g. crowd of people, city buildings, low flying height, near-water locations. You should read the entire contents of this document, and operate HoverAir X1 only after being familiar with the features of the product. Failure to operate this product properly may result in property damage, safety hazards, and personal injury. By using this product, you are deemed to have understood, endorsed and accepted all the terms and contents of this document.
- The user commits to being responsible for his or her actions and all consequences arising therefrom. The user promises to use the product only for legitimate purposes, and agrees to all the terms and contents of this document and any relevant policies or guidelines that may be developed by Shenzhen Zero Zero Infinity Technology Co., Ltd.(hereinafter referred to as "ZeroZeroTech"). ZeroZeroTech does not assume any loss caused by the user's failure to use the product in accordance with this document, the User Manual, the relevant policies or guidelines. In the case of compliance with laws and regulations, ZeroZeroTech has the final interpretation of this document. ZeroZeroTech reserves the right to update, revise or terminate this document without prior notice.

免责声明与警告

- 请务必在使用产品之前仔细阅读本文档，了解您的合法权益、责任和安全说明。HoverAir X1 是一款具有拍照以及摄像功能的小型飞行相机，并非玩具，任何操作 HoverAir X1 时可能导致出现不安全因素的人群不应使用本产品。该类人群包括但不限于：
 - 14 周岁（含）以下的儿童；14周岁以上到18周岁的未成年人需在家长陪同或专业人员指导下操作。
 - 饮酒、用药、头晕乏力以及其他身体或精神状况不佳的人；
 - 可能被某些情况影响从而导致无法安全操控Hover Camera X1 的人；在有上述人群出现的场合，使用者务必谨慎操控Hover Camera X1 飞行其它谨慎操控飞行的情况：如人群、城市、飞行高度过低、临水区域等。

- 您应先阅读本文档全部内容，并且在熟悉产品的功能之后再进行操作HoverAir X1。如果没有正确操作本产品，可能会造成财产损失、安全事故和人身伤害。一旦使用本产品，即视为您已理解、认可和接受本文档全部条款和内容。

- 使用者承诺对自己的行为及因此而产生的所有后果负责。使用者承诺仅出于正当目的使用本产品，并且同意本文档全部条款和内容及深圳零零无限科技有限公司（以下简称“零零科技”）可能制定的任何相关政策或者准则。

- 零零科技不承担因用户未按本文档、《用户手册》、相关政策或准则的指引使用产品所引发的一切损失。在遵从法律法规的情况下，零零科技享有对本文档的最终解释权。零零科技有权在不事先通知的情况下，对本文档进行更新、改版或终止。

Safety Instructions

•Flight Environment

- HoverAir X1 should be flown in a normal flight environment. Flight environment requirement includes but is not limited to:
- HoverAir X1 adopts downward vision positioning system, please be aware that:
 - Make sure HoverAir X1 does not fly lower than 0.5m or higher than 10m above ground.
 - Do not fly at night. When the ground is too dark, vision positioning system may not work well.
 - Vision positioning system may fail if the ground texture is not clear. This includes: large area of pure color ground, water surface or transparent area, strong reflection area, area with drastically changing light condition, moving objects below HoverAir X1, etc. Make sure the downward vision sensors are clean. Do not block sensors. Do not fly in dust/mist environments.
 - Do not fly when there is large height variance(e.g., flying out of the window on high floors)
 - Do not fly in severe weather conditions including windy (wind exceeding 5.4m/s), rain, snow, lightning and fog;
 - Do not fly when environment temperature is below 0°C or above 40°C.
 - Do not fly in restricted zones. Please refer to “**Flight Regulations and Restrictions**” for details;
 - Do not fly over 2000 meters above sea level;
 - Fly with caution in solid particle environments including desert and beach. It could result in solid particle entering HoverAir X1 and cause damage.

•Wireless Communication

- When using wireless functions, make sure that wireless communication is working properly before flying HoverAir X1 Be aware of following limitations:
- Be sure to operate the HoverAir X1 in an open space.
 - It is forbidden to fly near sources of electromagnetic interference. Electromagnetic interference sources include, but are not limited to: Wi-Fi hotspots, Bluetooth devices, high voltage power lines, high voltage power stations, mobile phone base stations and television broadcast signal towers. If the flight location is not selected in accordance with the above provisions, HoverAir X1 wireless ransmission performance will likely be affected by interference. If the interference is too large, HoverAir X1 will not work normally.

•Pre-flight Inspection

- Before using HoverAir X1 you should make sure that you fully understand HoverAir X1, its peripheral components and anything involved with HoverAir X1 Pre-flight inspection should include but is not limited to:
- Ensure HoverAir X1 is fully charged;
 - Ensure that HoverAir X1 and its components are installed and work properly, including but not limited to: prop guard, batteries, gimbal, propellers, and any other flight related components;
 - Ensure the firmware and App have been updated to the latest version;
 - Ensure that you have read and understood the User Manual, Quick Guide and related documents and are familiar with operations of the product.

•Operating HoverAir X1

- Make sure that HoverAir X1 is properly operated and always pay attention to flight safety. Any consequences such as malfunctions, property damage, etc. due to user's incorrect operation, will be borne by the user. The correct methods of operating HoverAir X1 include but are not limited to:
- Do not approach the propellers and motors when they are working;
 - Please ensure that HoverAir X1 is flying in an environment suitable for vision positioning system. Avoid reflective areas such as flying over water surfaces or snowfields. Make sure HoverAir X1 is flying in open environments with good light condition. Please refer to "Flight Environment" section for more details.
 - When HoverAir X1 is at auto flight modes, please make sure the environment is open and clean, and no any obstacles that may block flight path. Please pay attention to surroundings and stop flight before anything dangerous happens.
 - Please make sure HoverAir X1 is at good status and charged up before taking any valuable videos or photos. Make sure to shutdown HoverAir X1 correctly, otherwise media files may be damaged or lost. ZeroZeroTech is not responsible for media file loss.
 - Please do not apply external force to gimbal or block gimbal.
 - Use official parts provided by ZeroZeroTech for HoverAir X1. Any consequences caused by using non-official parts will be your sole responsibility.
 - Do not disassemble or modify HoverAir X1. Any consequences caused by disassembling or modification will be your sole responsibility.

•Other Safety Issues

- Do not operate this product in poor physical or mental conditions such as under the influence of alcohol or drugs, drug anesthesia, dizziness, fatigue, nausea, etc.
- Do not use HoverAir X1 to throw or launch any dangerous object towards buildings, people or animals.
- Do not use a HoverAir X1, which has experienced serious flight accidents or abnormal flight conditions.
- When using HoverAir X1 be sure to respect others' privacy. It is forbidden to use HoverAir X1 to conduct any violations of the rights of others.

- Ensure that you understand the local laws and regulations related to drones. It is forbidden to use HoverAir X1 to conduct any illegal and improper behaviors, including but not limited to espionage, military operations and other illegal work.
- Do not stick finger or any other objects into HoverAir X1 protection frame Any consequences caused sticking into protection frame will be your sole responsibility.

安全操作指南

•飞行环境

- HoverAir X1应在可正常飞行的环境下飞行。飞行环境限制包含但不限于：
- HoverAir X1采用下置视觉定位，请注意以下条件：
 - 确保HoverAir X1距离地面的飞行高度不低于0.5m且不高于10m。
 - 避免夜间飞行，当地面亮度很低时(夜间)，视觉系统可能会失效。
 - 当地面纹理不清晰时，视觉定位系统可能会失效。纹理不清晰的情况包括大面积纯色地面，水面或透明地面，强反光地面，光照剧烈变化的地面，底部有移动的物体等。
 - 确保HoverAir X1的底部视觉传感器保持洁净。请勿遮挡传感器。请勿在粉尘/水雾环境中飞行。
 - 请勿在地面高度落差较大的情况下飞行（如从高层的窗户飞出）。
 - 请勿在大风(风速达到4级或以上)、下雨、下雪、雷电、有雾等恶劣天气飞行；
 - 请勿在在0°C以下或40°C以上环境中飞行；
 - 请勿在非法区域中飞行。非法区域详见“**飞行法律规范与飞行限制**”部分；
 - 请勿在海拔2000米以上地区飞行；
 - 在沙漠、沙滩等固体颗粒较多的环境中起飞要小心，避免固体颗粒进入飞行器内部。

•无线通信

- 当使用无线遥控功能时，HoverAir X1应在确保无线通讯可正常工作的条件下飞行。请注意以下条件限制：
- 确保在开阔空旷处操控HoverAir X1。
 - 禁止在电磁干扰源附近飞行。电磁干扰源包括但不限于：Wi-Fi 热点、蓝牙设备、高压电线、高压输电站、雷达站、移动电话基站和电视广播信号塔。若没有按照上述规定选择飞行场所，HoverAir X1的无线传输性能将有可能受到干扰影响。当干扰过大时，HoverAir X1可能无法正常工作。

•飞行前检查

- 在使用HoverAir X1前，您应确保对机身、周边部件以及任何涉及HoverAir X1的相关内容充分理解，并做好相应的检查工作。包括但不限于：
- 确保HoverAir X1的电量充足；
 - 展开HoverAir X1，确保HoverAir X1及其部件均可正常工作，包括但不限于保姆框、电池、螺旋桨、云台以及其他任何飞行相关部件；

3. 确保固件以及 App 已经更新至最新版本；

4. 确保已经认真阅读并了解《用户手册》、《快速指南》等产品相关手册，确保熟悉悉产品及其操作方式。

●操作 HoverAir X1

确保正确操控 HoverAir X1，并时刻注意飞行安全。如果因使用者错误操作导致 HoverAir X1 故障、财产损失等，其后果将由用户自行承担。正确操控方法包括但不限于：

- 切勿靠近工作转动中的螺旋桨和电机；
- 确保 HoverAir X1 的飞行环境。飞行过程中注意避开水面或雪地等镜面反射区域。请保证飞行器在光照良好的开阔环境中飞行。具体细则详见“飞行环境”部分；
- 当飞行器处于智能飞行模式时确保飞行环境开阔且无障碍物遮挡预设的飞行轨迹。飞行过程中留意周围环境是否安全，并在可能发生任何安全问题时及时停止飞行；
- 拍摄重要照片或视频时请确保 HoverAir X1 处于正常工作状态且电量充足，确保正确关闭 HoverAir X1，否则可能造成影像损坏或者丢失，零零科技对无法读取的影像损失不承担任何责任；
- 请正确操作云台，请勿在云台工作时对其施加外力；
- 仅可使用 HoverAir X1 官方配件。使用非官方配件造成的任何后果，由您自行承担 responsibility；
- 请勿对 HoverAir X1 私自进行改装或拆解，如因私自改装或拆解造成的任何后果，由用户自行承担 responsibility。

●其他安全事项

- 不得在饮酒、吸毒、药物麻醉、头晕、乏力、恶心等其他身体状态不佳或精神状况不佳的情况下使用本产品。
- 禁止使用 HoverAir X1 向建筑物、人群或动物投掷、发射任何危险物体。
- 请勿使用发生过严重飞行事故或飞行状态异常的飞行器。
- 使用 HoverAir X1 时请务必尊重他人隐私，禁止使用 HoverAir X1 进行任何侵犯他人隐私权、许可权等权利的行为。
- 确保清楚理解当地无人机飞行相关的法律法规，禁止使用 HoverAir X1 进行任何违法及不当的行为，包括但不限于间谍活动、军事行动以及其他非法工作。
- 为确保安全，请勿将手指或异物放置于保护框中。因将手指或异物放置于保护框中造成的任何后果，由用户自行承担 responsibility。

Storage and Transportation

●Product Storage

- Place HoverAir X1 in a protective case, and do not squeeze or expose HoverAir X1 to sunlight.
- Never allow the drone to come in contact with liquids or be immersed in water. If the drone gets wet, please wipe it dry promptly. Never turn on the drone immediately after it has fallen into the water, otherwise it will cause permanent damage to the drone.
- When HoverAir X1 is not in use, make sure the battery is stored in an appropriate environment.Recommended battery storage temperature range:Short-term storage (not more than three months): -10 °C ~ 30 °C ; Long-term storage (more than three months): 25 ± 3 °C .
- Check battery health with the App. Please replace the battery after 300 charge cycles. For more details of battery maintenance, please read the "Intelligent Battery Safety Instructions".

●Product Transportation

- Temperature range when transporting batteries : 23 ± 5 °C.
- Please check the airport regulations when carrying the batteries on board, and do not transport batteries that are damaged or have other abnormalities.

For more information of batteries, please read "Intelligent Battery Safety Instructions".

产品储存和运输

●产品储存

- 将HoverAir X1放置在保护盒内，切勿挤压或者暴晒HoverAir X1。
- 切勿让HoverAir X1接触到液体或浸入水中。若HoverAir X1入水，请及时取下电源并擦拭。切勿在落水后立刻开启电源，否则将会对HoverAir X1造成永久损坏。
- 未使用HoverAir X1时，确保电池放在适当的环境中保存。推荐电池储存温度范围：

短期储存（不超过三个月）：-10℃ ～ 30℃；

长期储存（超过三个月）：25 ± 3℃。
- 注意电池健康情况。当提示电池健康状况不佳时，请及时更换新电池。电池保养事宜详见《智能电池安全使用手册》。

●产品运输

- 运输电池时温度范围：23 ± 5℃
 - 携带电池登机时候请遵守机场相关规定，切勿运输有破损或者已经出现其他异常的电池。
- 更多电池相关信息请参阅《电池安全使用手册》。

Flight Regulations and Restrictions

Legal norms and flying policies may vary in different countries or regions, please contact your local authorities for specific information.

●Flight Regulations

- It is forbidden to operate HoverAir X1 in the no-fly zones and sensitive areas prohibited by laws and regulations.
- It is forbidden to operate HoverAir X1 in densely populated areas. Always be vigilant and avoid other Hover Camera X1. If necessary, please land HoverAir X1 immediately.
- Ensure that the drone is flying within sight, if necessary, arrange observers to help you monitor the position of the drone.
- It is forbidden to use HoverAir X1 to transport or carry any illegal dangerous objects.
- Make sure you have understood the type of flight activity and obtained the necessary flight permits from the relevant local flight department. It is forbidden to use HoverAir X1 to conduct unauthorized flight activities and any illegal flight behavior that violate the rights of other people.

●Flight Restrictions

- You need to use HoverAir X1 safely in compliance with local laws and regulations. It is highly recommended that you download and install the latest version of the firmware from official channels.
- Flight restricted areas include but are not limited to: the world's major airports, major cities/regions, and temporary event areas. Please consult your local flight management department before flying HoverAir X1 and follow local laws and regulations.
- Please always pay attention to the surroundings of the drone and stay away from any obstacles that may hinder flight. These include but are not limited to buildings, roofs and woods.

飞行法律法规与飞行限制

不同国家或地区的法律法规和限飞政策有所不同，请联系当地的有关部门了解具体信息。

●飞行法律法规

- 禁止操控HoverAir X1 使之进入法律法规规定禁止飞行区域和敏感区域附近。
- 禁止在载人飞机、人口密集、临时举行活动等区域飞行。
- 确保HoverAir X1在您可视范围内飞行。
- 禁止使用HoverAir X1运输或搭载任何违法危险物品。
- 确保您已清楚了解飞行活动的类别，并向飞行当地有关部门获取飞行许可证。禁止使用 HoverAir X1 进行未经授权的飞行活动、侵犯他人权利的飞行活动以及任何违法的飞行行为。

●飞行限制

- 您需要在符合本地法律法规的框架下安全使用HoverAir X1。强烈建议您从零零科技官方渠道下载并安装最新版本的固件。
- 飞行限制区域包括但不限于世界上主要的机场、主要城市/地区和临时举行活动区域。起飞前请咨询当地飞行管理部门，并遵守当地法律法规。
- 请您时刻注意HoverAir X1周围环境，并远离一切可能阻碍飞行的障碍物。包括但不限于建筑物、屋顶和树林等。

RF exposure statement

This equipment meets the exemption from the routine evaluation limits in section 2.5 of RSS-102. It should be installed and operated with a minimum distance of 20cm between the radiator and any part of your body.
Cet équipement est conforme à l'exemption des limites d'évaluation habituelle de la section 2.5 de la norme RSS-102. Il doit être installé et utilisé à une distance minimale de 20 cm entre le radiateur et toute partie de votre corps.

IC WARNING

This device contains licence-exempt transmitter(s) that comply with Innovation, Science and Economic Development Canada's licence-exempt RSS(s). Operation is subject to the following two conditions:
1. This device may not cause interference.
2. This device must accept any interference, including interference that may cause undesired operation of the device.
L'émetteur/récepteur exempt de licence contenu dans 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;
2. L'appareil doit accepter tout brouillage radioélectrique subi, même si le brouillage est susceptible d'en compromettre le fonctionnement.

Compliance Information 认证信息

Battery Use Warning Caution 警告

RISK OF EXPLOSION IF BATTERY IS REPLACED BY AN INCORRECT TYPE. DISPOSE OF USED BATTERIES ACCORDING TO INSTRUCTIONS.

FCC Regulations FCC 法律宣告

This equipment 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.
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 radiated 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.

RF Exposure Information (SAR) 射频 SAR 信息

This device meets the government's requirements for exposure to radio waves. This device is designed and manufactured not to exceed the emission limits for exposure to radio frequency (RF) energy set by the Federal Communications Commission of the U.S. Government.
This device complies with FCC radiation exposure limits set forth for an uncontrolled environment. In order to avoid the possibility of exceeding the FCC radio frequency exposure limits, human proximity to the antenna shall not be less than 20cm (8 inches) during normal operation.

FCC Note FCC 备注

Changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

- The device is restricted to indoor use only when operating in the 5150 to 5250 MHz frequency range.
- Lorsque l'appareil fonctionne dans la gamme de fréquences de 5150 à 5250 MHz, il est limité à une utilisation en intérieur uniquement.

This guide will be updated irregularly, please visit zrobotics.com/support/downloads to check out the latest version.
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