



# ZERO ZERO ROBOTICS X1 Hover Camera Drone Owner's Manual

[Home](#) » [ZERO ZERO ROBOTICS](#) » ZERO ZERO ROBOTICS X1 Hover Camera Drone Owner's Manual 

## Contents

- [1 ZERO ZERO ROBOTICS X1 Hover Camera Drone](#)
- [2 Safety Instructions](#)
- [3 Storage and Transportation](#)
- [4 Product Transportation](#)
- [5 FCC STAEMENTS](#)
- [6 Documents / Resources](#)
- [7 Related Posts](#)



## ZERO ZERO ROBOTICS X1 Hover Camera Drone



## Safety Instructions

## Flight Environment

Hover Camera X1 should be flown in a normal flight environment. Flight environment requirement includes but is not limited to:

1. Hover Camera X1 adopts downward vision positioning system, please be aware that:
  1. Make sure Hover Camera X1 does not fly lower than 0.5m or higher than 10m above ground.
  2. Do not fly at night. When the ground is too dark, vision positioning system may not work well.
  3. 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 Hover Camera 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)
2. Do not fly in severe weather conditions including windy (wind exceeding 5.4m/s), rain, snow, lightning and fog;
3. Do not fly when environment temperature is below 0°C or above 40°C.
4. Do not fly in restricted zones. Please refer to“Flight Regulations and Restrictions”for details
5. Do not fly over 2000 meters above sea level
6. Fly with caution in solid particle environments including desert and beach. It could result in solid particle entering Hover Camera X1 and cause damage.

## **Wireless Communication**

When using wireless functions, make sure that wireless communication is working properly before flying Hover Camera X1 Be aware of following limitations:

1. Be sure to operate the Hover Camera X1 in an open space.
2. 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, Hover Camera X1 wireless transmission performance will likely be affected by interference. If the interference is too large, Hover Camera X1 will not work normally.

## **Pre-flight Inspection**

Before using Hover Camera X1 you should make sure that you fully understand Hover Camera X1, its peripheral components and anything involved with Hover Camera X1 Pre-flight inspection should include but is not limited to:

1. Ensure Hover Camera X1 is fully charged;
2. Ensure that Hover Camera 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;
3. Ensure the firmware and App have been updated to the latest version;
4. Ensure that you have read and understood the User Manual, Quick Guide and related documents and are familiar with operations of the product.

## **Operating Hover Camera X1**

Make sure that Hover Camera 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 Hover Camera X1 include but are not limited to:

- Do not approach the propellers and motors when they are working;
- Please ensure that Hover Camera X1 is flying in an environment suitable for vision positioning system. Avoid reflective areas such as flying over water surfaces or snowfields. Make sure Hover Camera X1 is flying in open environments with good light condition. Please refer to "Flight Environment" section for more details.
- When Hover Camera 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 Hover Camera X1 is at good status and charged up before taking any valuable videos or photos. Make sure to shutdown Hover Camera 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 Hover Camera X1. Any consequences caused by using non-official parts will be your sole responsibility. 7. Do not disassemble or modify Hover Camera X1. Any consequences caused by disassembling or modification will be your sole responsibility.

## **Other Safety Issues**

1. 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.
2. Do not use Hover Camera X1 to throw or launch any dangerous object towards buildings, people or animals.
3. Do not use a Hover Camera X1. which has experienced serious flight accidents or abnormal flight conditions.
4. When using Hover Camera X1 be sure to respect others' privacy. It is forbidden to use Hover Camera X1 to conduct any violations of the rights of others.
5. Ensure that you understand the local laws and regulations related to drones. It is forbidden to use Hover Camera X1 to conduct any illegal and improper behaviors, including but not limited to espionage, military operations and other illegal work.
6. Do not stick finger or any other objects into Hover Camera X1 protection frame Any consequences caused sticking into protection frame will be your sole responsibility.

## **Storage and Transportation**

### **Product Storage**

1. Place Hover Camera X1 in a protective case, and do not squeeze or expose Hover Camera X1 to sunlight.
2. 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.
3. When Hover Camera 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):  $-10^{\circ}\text{C} \sim 30^{\circ}\text{C}$  ; Long-term storage (more than three months):  $25 \pm 3^{\circ}\text{C}$  .
4. 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**

1. Temperature range when transporting batteries :  $23 \pm 5$  °C.
2. 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”.

## **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**

1. It is forbidden to operate Hover Camera X1 in the no-fly zones and sensitive areas prohibited by laws and regulations.
2. It is forbidden to operate Hover Camera X1 in densely populated areas. Always be vigilant and avoid other Hover Camera X1. If necessary, please land Hover Camera X1 immediately.
3. Ensure that the drone is flying within sight, if necessary, arrange observers to help you monitor the position of the drone.
4. It is forbidden to use Hover Camera X1 to transport or carry any illegal dangerous objects.
5. 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 Hover Camera X1 to conduct unauthorized flight activities and any illegal flight behavior that violate the rights of other people.

### **Flight Restrictions**

1. You need to use Hover Camera 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
2. 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 Hover Camera X1 and follow local laws and regulations.
3. 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.

## **FCC STATEMENTS**

### **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.

### **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.

### **Compliance Information**

Battery Use Warning Caution

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

### **FCC Regulations FCC**

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)**

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**

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.

This guide will be updated irregularly, please visit [zzrobotics.com/support/downloads](https://www.zzrobotics.com/support/downloads) to check out the latest version.

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### **Disclaimer and Warning**

Please be sure to read this document carefully to understand your legal rights, responsibilities, and safety instructions before using the product. Hover Camera X1 is a small smart flying camera. It is not a toy. Anyone who may be unsafe when operating Hover Camera X1 should not use this product. This group of people includes but is


not limited to:

1. 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 Hover Camera X1;
2. People under the influence of alcohol, medication, who have dizziness, or are in a poor physical or mental state;
3. People in conditions that make them unable to safely operate Hover Flight Environment

#### **Camera X1;**

- In scenarios where the above group of people is present, user must operate Hover Camera 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 Hover Camera 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.

#### **Documents / Resources**

	<a href="#"><b>ZERO ZERO ROBOTICS X1 Hover Camera Drone</b></a> [pdf] Owner's Manual ZZ-H-1-001, 2AIDW-ZZ-H-1-001, 2AIDWZZH1001, X1, X1 Hover Camera Drone, Hover Camera Drone, Camera Drone, Drone
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