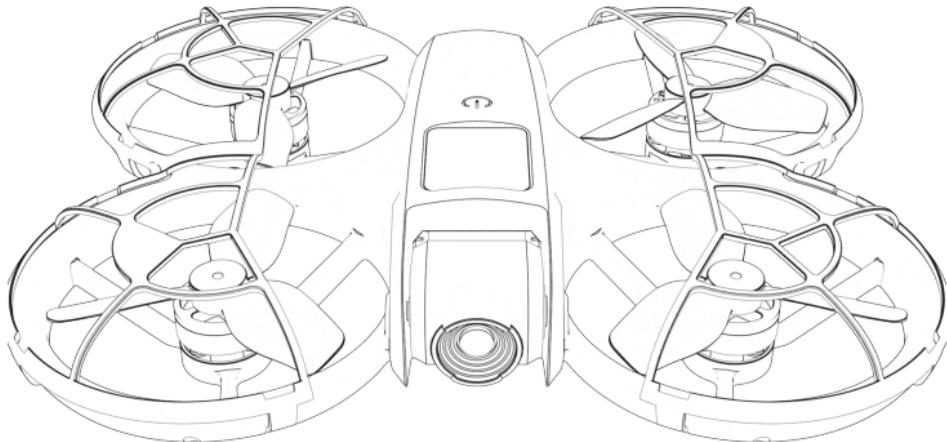


USER'S MANUAL

用户手册



- 限于原厂配备充电器(USB)进行充电。
- 充电时人员切勿离开。
- 电池需存放在阴凉处，避免暴晒，出厂电池默认没满电 需先充满电在飞行。

● Limited to charging with the original factory equipped charger (USB).

● Personnel must not leave while charging.

● The battery should be stored in a cool and shaded place to avoid direct sunlight.

The factory default battery should be fully charged before flying.

安全防范：Security precautions:

1. 为保证航空无线电电台(站)电磁环境的要求：禁止在以机场跑道中心点为圆心、半径10公里的区域内使用各类模型遥控器。在国家有关部门发布无线电管制命令的期间、区域区，应按要求停止使用模型遥控器。选择温暖晴朗无风的天气飞行，切勿在过热、过冷、强风、暴雨等恶劣天气条件下飞行；选择室内或户外空旷地方，并与人、宠物、空架电线及其他障碍物保持安全距离，确认无其他使用相同频率；不能让飞机离开视线；

2. 飞行器发动后，请不要接触飞行器的高速旋转部分与高速旋转的螺旋桨保持距离，以免发生绞伤危险。(包括齿轮、旋翼等)。

3. 飞行器使用中和使用后，电池及电机将会产生高温，请勿触摸，以免发生烫伤的危险。

4. 请勿直视发光二极管的光束，以免影响眼睛。

1. To ensure the electromagnetic environment requirements of aviation radio stations, it is prohibited to use various model remote controllers within a radius of 10 kilometers from the center point of the airport runway. During the period when relevant national departments issue radio control orders and in certain regions, the use of model remote controllers should be stopped as required. Choose warm, sunny and windless weather to fly, and do not fly in severe weather conditions such as overheating, supercooling, strong wind and rainstorm; Choose an open indoor or outdoor area and maintain a safe distance from people, pets, overhead wires, and other obstacles, ensuring that there are no other uses of the same frequency; Cannot let the plane out of sight;

2. After the aircraft is launched, please do not touch the high-speed rotating parts of the aircraft and keep a distance from the high-speed rotating propellers to avoid the risk of entanglement, (including gears, rotors, etc.).

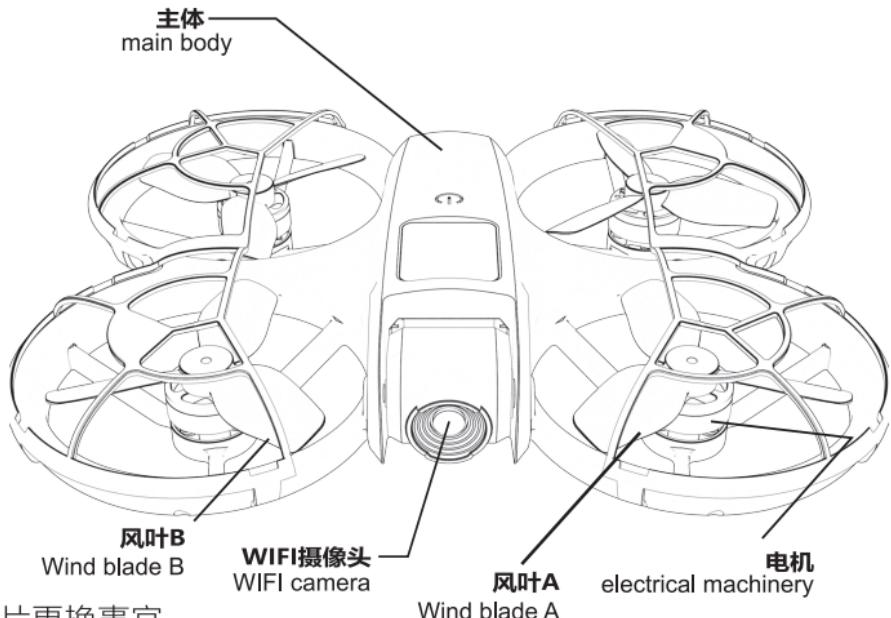
3. During and after the use of the aircraft, the battery and motor will generate high temperatures.

Please do not touch them to avoid the risk of burns.

4. Do not look directly at the light beam of the LED to avoid affecting your eyes.

温馨提醒，建议初学者低空练习飞行3天左右。熟悉飞行后再高空飞行

Kind reminder, it is recommended that beginners practice flying at low altitude for about 3 days. Familiarize yourself with flying before flying at high altitude



叶片更换事宜

1. 将要更换的风叶必须对应机上相对的位置更换。风叶A需安装在A的位置上，风叶B需安装在B的位置上，如更换风叶错误将无法操控。
2. 飞行时风叶A往顺时针方向转动，风叶B往逆时针方向转动。

Blade replacement matters

1. The fan blades to be replaced must be replaced at the corresponding positions on the machine. Fan blade A needs to be installed at position A, and fan blade B needs to be installed at position B. If the fan blade is replaced incorrectly, it will not be controllable.
2. During flight, blade A rotates clockwise and blade B rotates counterclockwise.

1. 重要说明1. Important note

本产品不是玩具。错误的使用会造成的损害。请在使用此产品前请按照说明书使用。不要自己拆卸此产品。否则，造成任何损伤制造商不负责。

This product is not a toy. The damage caused by incorrect use. Please follow the instructions before using this product. Do not disassemble this product yourself. Otherwise, the manufacturer is not responsible for any damage caused.

2. 安全说明2. Safety instructions

警告：要在安全的区域内或远离他人飞行。不要在密集人群上方操控飞行器，遥控飞行器飞行时由于飞行员操作过程中操作错误或无线干扰，很容易发生事故、故障，容易对人群造成损害或伤害。

禁止：特别室内和室外飞行时，请远离障碍物此产品适合室内和室外飞行（风级不超过4级），请选择一个，没有障碍物、人群和宠物。路人的地方，例如，加热源、热源、电线或电子电源不会受到碰撞着陆，纠缠，导致的火灾、触电和造成的生命和财产损失的地方。

警告：请一位飞行经验丰富的飞行员帮助产品主要适合14岁以上，在开始学习时有一定的难度，建议请一位飞行经验丰富的飞行员指导。

Warning: Fly within a safe area or away from others. Do not operate the aircraft above a dense crowd. When flying remotely, accidents or malfunctions can easily occur due to pilot errors or wireless interference, which can cause damage or injury to the crowd.

Prohibited: When flying indoors or outdoors, please stay away from obstacles. This product is suitable for indoor and outdoor flights (with wind speeds not exceeding level 4). Please choose one without obstacles, crowds, or pets.

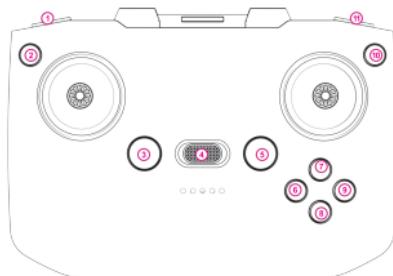
Places where pedestrians, such as heating sources, heat sources, wires, or electronic power sources, will not be affected by collisions, landings, entanglements, resulting in fires, electric shocks, and loss of life and property.

Warning: Please have an experienced pilot assist with the product, which is mainly suitable for those aged 14 and above. There may be some difficulty in learning at the beginning, and it is recommended to have an experienced pilot guide.

遥控器按键功能介绍:Introduction to remote control button functions:

X6遥控器

X6 remote control

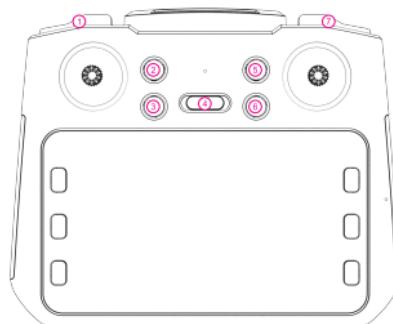


- 1. 舵机向下
- 2. 速度 (3档)
- 3. 一键起飞降落/长按急停
- 4. 遥控器开关
- 5. 无头模式/长按返航
- 6. 拍照
- 7. 微调
- 8. 灯光控制
- 9. 摄像
- 10. 翻滚/长按灯光控制
- 11. 舵机向上

- 1. Servo downwards
- 2. Speed (3rd gear)
- 3. One click takeoff and landing/long press emergency stop
- 4. Remote control switch
- 5. Headless mode/long press to return
- 6. Take photos
- 7. Fine tuning
- 8. Lighting control
- 9. Camera
- 10. Roll/long press light control
- 11. Servo up

X12遥控器

X12 remote control



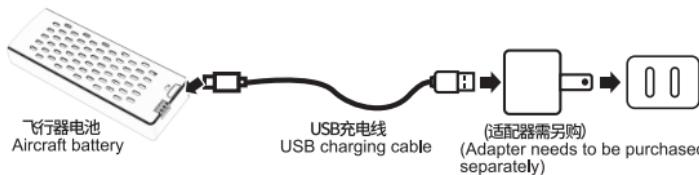
- 1. 速度 (3档)
- 2. 一键起飞下降/急停(长按)
- 3. 微调
- 4. 遥控器开关
- 5. 无头模式/一键返航
- 6. 翻滚
- 7. 舵机上下

- 1. Speed (3rd gear)
- 2. One click takeoff/descent/emergency stop (long press)
- 3. Fine tuning
- 4. Remote control switch
- 5. Headless mode/One click return
- 6. Rolling
- 7. Steering gear up and down

为飞行器电池和遥控器充电：Charging the aircraft battery and remote control:

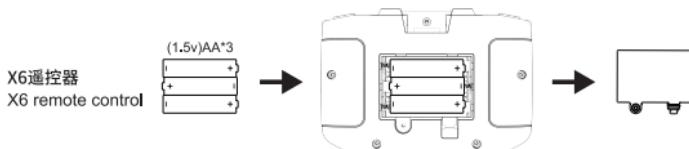
取出USB充电线，连接电池充电插口，充电时电池红灯亮，充满灯灭。

Remove the USB charging cable and connect it to the battery charging port. When charging, the battery red light will turn on and the fully charged light will turn off.



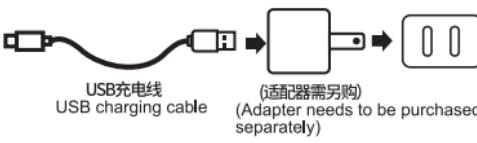
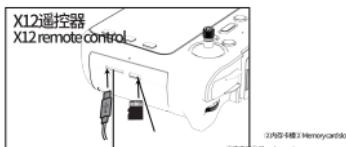
按照电极说明(+-)将电池放在电池盒上，如图所示。

Place the battery on the battery box according to the electrode instructions (+, -), as shown in the figure.



取出USB充电线，连接电池充电插口，充电时电池红灯亮，充满灯灭。

Remove the USB charging cable and connect it to the battery charging port. When charging, the battery red light will turn on and the fully charged light will turn off.



插入内存卡储存照片和视频，飞行结束，用配备的读卡器在电脑上读取内存卡拍摄的内容；

Insert a memory card to store photos and videos. At the end of the flight, use the provided card reader to read the content captured by the memory card on the computer;

温馨提示：

- 请按正确方式插入插头。 ● Please insert the plug in the correct way.
- 建议使用5V1-2A适配器进行充电。 ● It is recommended to use a 5V1-2A adapter for charging.

注意事项

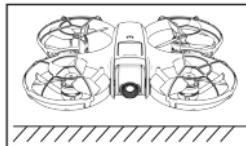
- 给电池充电时，不要单独给儿童使用，必须在成人监护进行，充电时必须远离易燃物，充电时监护人请不要离开航模到监视范围外；
- 请不要短路、挤压电池，以免发生爆炸；
- 电源接线端不应从模型中取出，接线端不应短路；切勿将电池短路、分解或投入火中；切勿将电池放在高温、受热的地方（如火中或电热装置附近）；
- 模型只能使用推荐的充电器，定期检查充电器的电线、插头、外壳和其他部件是否损坏，发现损坏时应停止使用，直至修复完好；
- 充电器不是玩具；充电器只能在室内使用；
- 飞行后的电池需充电再保存，如不使用，建议每3个月内至少对电池充电一次，以免电池过度放电而永久性的损坏电池；

⚠️ precautions

- When charging the battery, do not use it alone for children. It must be done under adult supervision. Keep away from flammable materials during charging, and the guardian should not leave the model airplane outside the monitoring range;
- Please do not short-circuit or squeeze the battery to avoid explosion;
- The power terminal should not be removed from the model, and the terminal should not be short circuited; Do not short-circuit, disassemble or put the battery into fire; Do not place the battery in high temperature or hot places (such as in a fire or near an electric heating device);
- The model can only use the recommended charger. Regularly check the charger's wires, plugs, housing, and other components for damage. If damage is found, stop using it until it is repaired;
- The charger is not a toy; The charger can only be used indoors;
- After the flight, the battery needs to be charged before storage. If not in use, it is recommended to charge the battery at least once every 3 months to avoid permanent damage caused by excessive discharge of the battery;

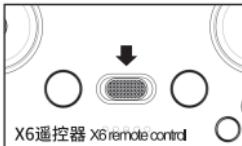
准备飞行: Preparing for flight:

确保螺旋桨安装正确,紧固。Ensure the propeller is installed correctly and securely fastened

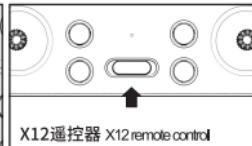


1. 打开机身电源将飞行器放 置于水平面上;

1. Turn on the power supply of the aircraft and place it on a horizontal surface;



X6遥控器 X6 remote control



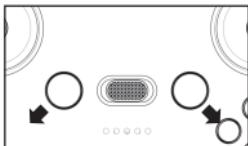
X12遥控器 X12 remote control

2. 打开遥控器电源飞行器将自动对频

2. Turn on the remote control power, and the aircraft will automatically match the frequency

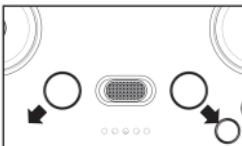
起飞方法1: (二类遥控器同理)

Takeoff method 1: (The same applies to three types of remote controls)



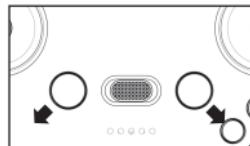
1. 将飞行器放置于水平面上,两摇杆同时如图操作2-3秒飞行器指示灯常亮变成快速闪烁,再过2-3秒变成常亮,表示校准成功。

1. Place the aircraft on a horizontal surface and operate both joysticks simultaneously as shown in the figure. For 2-3 seconds, the aircraft indicator light will remain on and quickly flash. After another 2-3 seconds, it will remain on and indicate successful calibration.



2. 两摇杆同时如图操作2-3秒飞行器解锁。

2. Operate both joysticks simultaneously as shown in the figure for 2-3 seconds to unlock the aircraft.

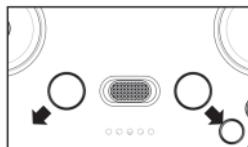


3. 缓慢向上推动油门杆 飞行器起飞。

3. Slowly push the throttle lever upwards for the aircraft to take off.

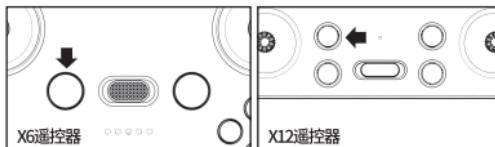
起飞方法2: (二类遥控器同理)

Takeoff method 2: (The same applies to three types of remote controls)



1. 将飞行器放置于水平面上，两摇杆同时如图操作2-3秒飞行器指示灯常亮变成快速闪烁，再过2-3秒变成常亮，表示校准成功。

1. Place the aircraft on a horizontal surface and operate both joysticks simultaneously as shown in the figure. For 2-3 seconds, the aircraft indicator light will remain on and quickly flash. After another 2-3 seconds, it will remain on and indicate successful calibration.

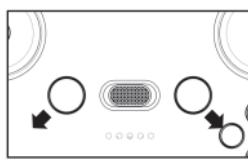


2. 按下一键起飞/降落键，飞行器一键起飞

2. Press the one click takeoff/landing button, and the aircraft will take off with one click

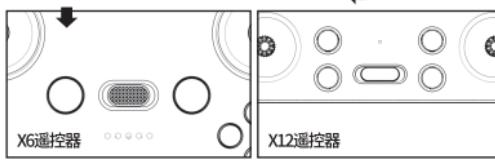
起飞方法3: (二类遥控器同理)

Takeoff method 3: (The same applies to three types of remote controls)



1. 将飞行器放置于水平面上，两摇杆同时如图操作2-3秒飞行器指示灯常亮变成快速闪烁，再过2-3秒变成常亮，表示校准成功。

1. Place the aircraft on a horizontal surface and operate both joysticks simultaneously as shown in the figure. For 2-3 seconds, the aircraft indicator light will remain on and quickly flash. After another 2-3 seconds, it will remain on and indicate successful calibration.

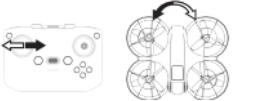
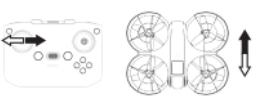
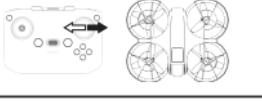


2. 按下一键起飞/降落键，飞行器缓慢降落。

2. Press the one key takeoff/landing button to slowly land the aircraft.

操作方法 (二类遥控器同理)

Operation method (The same applies to Class II remote controllers)

1	上升/下降 rise/fall	当作操纵杆(油门)向上或向下推， 飞行器相应的上升或者下降。 Push the control lever (throttle) upwards or downwards, The corresponding ascent or descent of the aircraft.	
2	转弯 turn	当左操纵杆(油门)向左或向右推， 飞行器相应的左转或者右转。 When the left control lever (throttle) is pushed to the left or right, The aircraft should turn left or right accordingly.	
3	前进/后退 Forward/ Reverse/	当右操纵杆(方向)向上或向下推， 飞行器相应的前进或者后退。 When the right joystick (direction) is pushed up or down, The aircraft moves forward or backward accordingly.	
4	左右侧飞 Fly left and right	当右操纵杆(方向)向左或向右推， 飞行器相应的左侧飞或者右侧飞。 When the right joystick (direction) is pushed left or right, The aircraft flies to the left or right accordingly.	
5	无头模式 headless mode	在无头模式状态下，操作者无需确认飞行器机头位置，只需根据遥控器的操纵杆方向来控制飞行器。当启动在无头模式后，听到“滴滴声”，表示进入无头模式。短按2秒听到“滴”声，表示退出无头模式。在无头模式下，飞行器的无人机灯光为慢闪。 In headless mode, the operator does not need to identify the position of the aircraft's nose, but only needs to control the aircraft based on the direction of the remote control's joystick. When the headless mode button is pressed, it will hear a 'drip' sound. It indicates entering headless mode. Short press for 2 seconds and hear a long 'beep' sound, it indicates exiting headless mode (in headless mode, the drone light of the aircraft flashes slowly)	
6	恢复出厂设置 Restore factory settings	当飞行器在控制摇摆或偏航严重的情况下，可关机重启后，将飞行器放置于水平面上，两个操纵杆同时按压操作2-3秒，飞行器指示灯常亮，变成快速闪亮，再过2-3秒变常亮，表示重新校准成功。 When the aircraft is hovering or yawing severely, it can be shut down and restarted. Then the aircraft is placed on a horizontal plane and both joysticks are operated simultaneously as shown in the figure for 2-3 seconds. The aircraft indicator light will constantly flash rapidly, and after another 2-3 seconds, it will remain on, indicating successful recalibration	

(二类遥控器同理)
(The same applies to Class II remote controllers)

飞行实践 (二类遥控器同理)

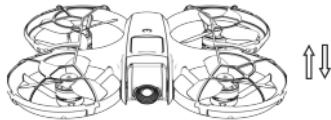
Flight Practice (The same applies to Class II remote controllers)

1. 飞行实践操作：

慢慢推动油门杆，直到四轴飞行器从地面起飞，盘旋在空中，然后拉加速杆，直至飞行器缓缓下降。反复练习，直到你可以顺利控制的加速杆。

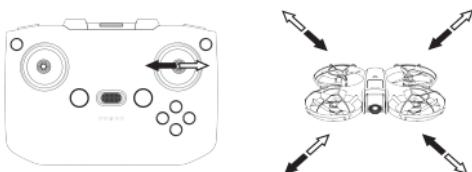
1. Flight practice operation:

Slowly push the throttle lever until the quadcopter takes off from the ground and hovers in the air, then pull the accelerator lever until the aircraft slowly descends. Practice repeatedly until you can smoothly control the accelerator lever.



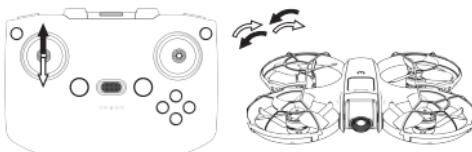
2. 当飞行器悬停在空中时，慢慢推右操纵杆，使四轴飞行器相应的前进/后退/或者向左转/右转。

2. When the aircraft is hovering in the air, slowly push the right control lever to make the quadcopter move forward/backward/or turn left/right accordingly.



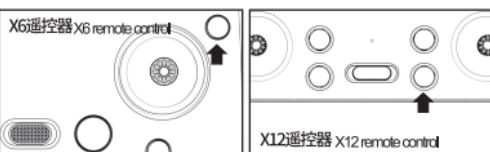
3. 飞行器悬停在空中时，慢慢的推动左操纵杆。使飞行器转向左侧或者右侧。

3. When the aircraft is hovering in the air, slowly push the left control stick. Turn the aircraft to the left or right.



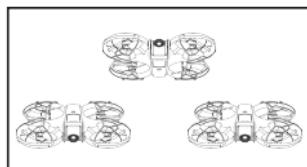
3D翻滚操作 (二类遥控器同理)

3D Rolling Operation (The same applies to Class II remote controllers)



按下遥控器上的滚动功能按钮

Press the roll function button on the remote control



1. 前面的基本动作都很熟练时就可以玩一些惊险的翻滚动作,按一下遥控器右上角的“3D翻滚”按键,遥控器发出“嘀”的一声响,此时进入3D翻滚状态,这时打遥控器杆右边方向,操纵杆上下左右推动,即可完成相应方向的3D翻滚。

注意:由于无人机翻滚瞬间需要较高的电压,所以当无人机电池电量电压不足翻滚使用时无人机自动启用保护程序,无法进行翻滚!

2. 注意:当飞行器悬停偏离较多时,把飞行器平放在地面上同时把遥控器的两个摇杆往右下角和左下角拨动4秒钟,此时飞行器主板指示灯闪烁,松开操纵杆,主板闪烁2秒钟后停止闪烁,校准中位完成。

1. When you are proficient in the basic movements ahead, you can play some thrilling rolling actions. Press the "3D Rolling" button in the upper right corner of the remote control, and the remote control will make a "beep" sound, entering the 3D rolling state. At this time, turn the right direction of the remote control lever and push the lever up, down, left, and right to complete the corresponding 3D rolling direction.

Attention: Due to the high voltage required for the drone to roll, when the drone battery is low and the voltage is insufficient for rolling, the drone will automatically activate the protection program and cannot roll!

2. Attention: When the aircraft is hovering and deviating significantly, place the aircraft flat on the ground and simultaneously move the two joysticks of the remote control to the lower right and lower left corners for 4 seconds.

At this time, the aircraft motherboard indicator light will flash. Release the control lever and the motherboard will flash for 2 seconds before stopping flashing. Calibration of the center position is completed.

温馨提示:

1. 飞行器起飞前,请务必把飞行器放置在水平面上,确保飞行器在起飞后平稳飞行!
2. 在室内飞行:请选择附近无障碍物、宠物和人的宽敞处飞行。
3. 在室外飞行:请选择温暖晴朗及没风或微风的天气飞行。

注意:

1. 切勿在气温极端的天气飞行,在过热或过冷的天气下飞行会影响飞行效果或损坏模型。
2. 切勿在强风的天气飞行,强风会对飞行造成局限或会妨碍你的飞行控制。在强风的情况下飞行,你的飞行器会不知所踪或令他损坏。

注意事项 precautions

- 1.(1) 摄像头默认优先连接屏幕图传,如需连接手机图传请先关闭屏幕开关,等待50秒左右,再用手机连接飞机摄像头WiFi!
(2) 使用遥控器屏幕图传时,需要在遥控器插上内存卡才可以拍照/录像。
(3) 仅兼容支持FAT格式的内存卡。
2. 当电源(飞行器或发射器)不足时,遥控距离将缩短。
3. 飞行器动力受伤时,起飞或飞行不易飞行。
4. 飞行器损坏时,请及时修理并停止使用,否则可能导致人身伤害。
5. 如果您不随时使用发射器,请取出电池以避免电池漏液。
6. 不要将发射机从高空坠落或严重撞坏,否则会缩短发射机的使用寿命。

- 1.(1) By default, the camera prioritizes connecting to the screen image transmission. If you need to connect to a mobile phone image transmission, please turn off the screen switch first, wait for about 50 seconds, and then use your phone to connect to the airplane camera WiFi!
(2) When using the remote control screen image transfer, it is necessary to insert a memory card into the remote control in order to take photos/videos.
(3) Only compatible with memory cards that support FAT format.
2. When the power supply (aircraft or transmitter) is insufficient, the remote control distance will be shortened.
3. When the power of the aircraft is injured, it is difficult to take off or fly.
4. When the aircraft is damaged, please repair it promptly and stop using it, otherwise it may cause personal injury.
5. If you do not use the transmitter at all times, please remove the battery to avoid battery leakage.
6. Do not drop or severely damage the transmitter from a high altitude, otherwise it will shorten the service life of the transmitter.

FCC Warning:

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.

Caution: Any changes or modifications to this device not explicitly approved by manufacturer could void your authority to operate this equipment.

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.

This equipment complies with FCC radiation exposure limits set forth for an uncontrolled environment. This equipment should be installed and operated with minimum distance 0cm between the radiator and your body.