

# ***FLISHRC***

# ***Helicopter***

## **Getting Started Guide**

Official website: <http://flishrc.com>

### HOW TO CONTACT US

1. Follow our YouTube channel to stay informed about the launch or inventory of new products in a timely manner

YouTube channel: [flishrc8908](https://www.youtube.com/channel/flishrc8908)

2. If you need more help, please email us: [flishrc@163.com](mailto:flishrc@163.com)

3. If you need to assemble a video, please contact us and send it to you

4. Facebook: +8613421707774

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### INTRODUCTION

Thanks for choosing FLISHRC, there's some matters need attention and knowledge you need to know, then just enjoy flying with remote control helicopter. Before you begin, please read this manual very carefully for your safety and also keep this manual properly for reference.

### IMPORTANT NOTES

RC helicopter was a product that designed base on variety of high-tech and with a certain dangerous. So it may cause serious injury or even death under inappropriate operations. Do read this instruction carefully before operating it and pay more attention to the security.

In the use of RC helicopters, manufacturers and dealers are not in any responsibilities for the accidents caused by the of the parts in the abnormal operation or improperly assembling of the helicopter. This product is available for the experienced adults who have operated the helicopters before and the operators who have the substantial technical staff standing by in the local legitimate remote control flying field to ensure the safety.

After the sale of the products, FLISHRC shall have no responsibilities in the performance and security issues causing in the operations and uses.

RC-model requires a certain degree of skill to operate, and is a consumer item. Any damage or dissatisfaction as a result of accidents or modifications are not covered by any warrantee and cannot be returned or replace.

Neither FLISHRC Helicopter Division nor its agents have any control over the assembly, maintenance and use of this product. Therefore, no responsibility can be traced back to the manufacturer.

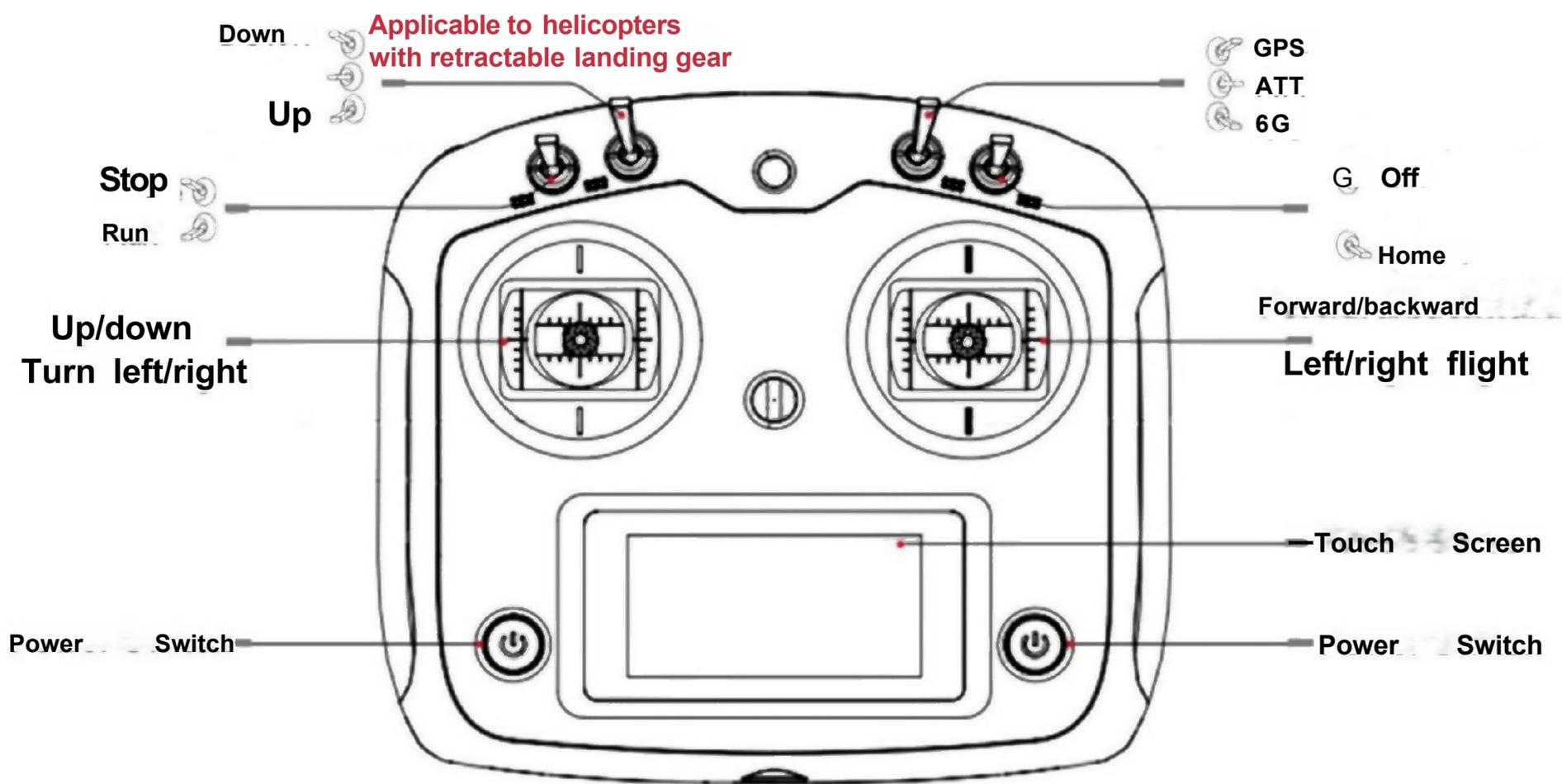
You hereby agree to release FLISHRC Helicopter Division from any responsibility or liability arising from the use of this product.

## About transmitter

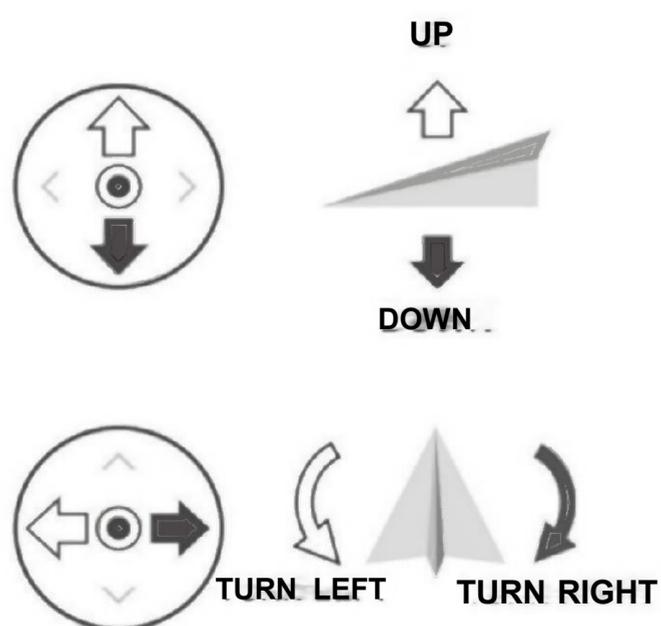
This product using FS-i6S transmitter which is 2.4GHz,1km\*control distance.

Please don't touch your transmitter menu  it has been factory set,if the setting is changed incorrectly,you will not be able to start the helicopter.

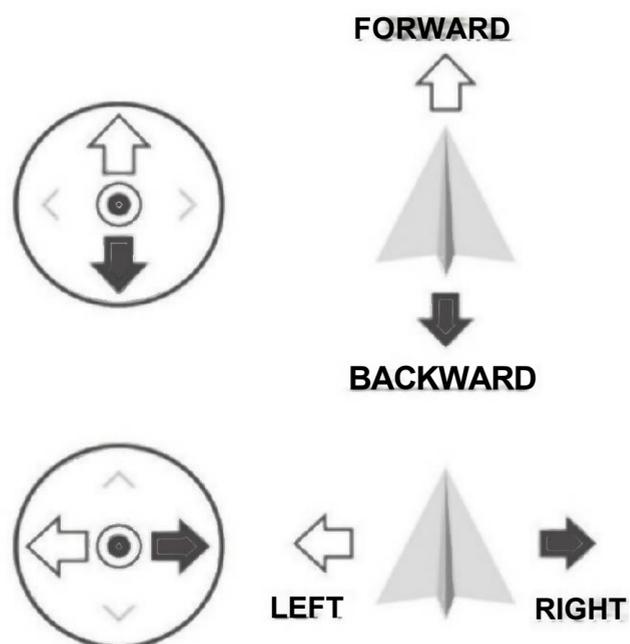
## Transmitter overview (Take Mode2 as an example)



### Left stick



### Right Stick



\*The maximum communication distance is measured in the experimental environment for reference only.

# Transmitter Takeoff Unlocking Method

## Left-hand Throttle(Mode 2)



Push the left throttle stick to the bottom right corner, wait for a few seconds to complete the unlock.

When the flight controller light stays on and beeps long, it means unlock success.

## Introduction to flight mode

Three different flight modes can be achieved by switching the toggle on the remote control.

### GPS

Through GPS satellite positioning, functions such as self-stabilizing flight, fixed height and point, and automatic hovering in the air can be achieved, making it suitable for newcomers without 3D flight experience.

### ATT

No GPS positioning function, can achieve fixed height flight, but can not fix the point, manual control is needed to avoid the helicopter offset. The operation is relatively complex, with a certain risk of crash, suitable for players with a little 3D flight experience.

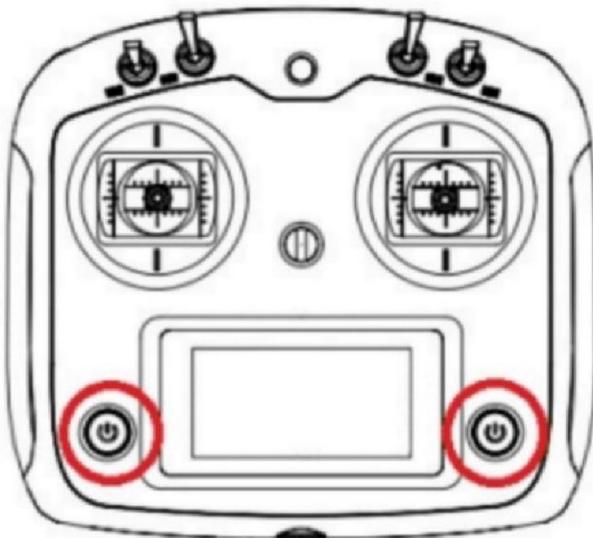
### 6G

No GPS positioning function, no fixed height or point. Manual control of the joystick is required throughout the process to keep the helicopter balanced at all times. The operation is very complex, with a high risk of crashing, suitable for experienced players who have mastered flight skills.



## 1.Starting transmitter

Long press the power buttons on both sides of the remote controller for 2 seconds to turn on the remote controller.If the remote controller alarms at this time,please switch all toggle switches to the top(Stop, GPS, Off).



开始页

FL Y MODE:  
1 Mode@1  
1500

TX-transmitter power  
RX-Receiver connection  
prompt  
,NO Helicopter power -  
Setting(No touch)

## 2.Connect the helicopter power supply

Please remove the aircraft cowling and install the aircraft battery at the front of the aircraft,ensuring that the battery is secured.Connect the yellow plug of the battery to the ESC plugof the aircraft,and keep the aircraft stationary.After the rotor head has completed its regular motion,correctly reinstall the aircraft cowling.



## 3、 Battery usage precautions

01

Keep away from flammable and explosive materials when charging

02

Batteries that have already ruptured,please dispose of them as waste in a timely manner and cannot be reused

03

Connecting positive and negative poles can cause short circuits and explosion hazards

04

Damage caused by human overcharging and discharging,unable to be returned or exchanged

05

The voltage value of each individual cell in a lithium battery pack should not be lower than 3.2V/s, which can cause permanent damage or even scrap

# Battery usage reminder

## Charging requirements

- The charging current must not exceed 1C, and the lithium battery pack must be charged using a balanced plug.
- The charging voltage must not exceed the specified voltage, and do not overcharge. The charging voltage should not exceed the specified voltage. Do not overcharge a single cell of a regular LIPO battery, with a maximum of 4.2V.
- Charging must use a regular charger and strictly follow the required wiring, without reverse or short circuiting.
- The temperature of the battery cell must be within the range of 0-45°C during charging.

## Usage requirements

- The discharge current should not exceed the product specifications. Excessive current can cause the battery to swell and affect its lifespan.
- Lithium batteries should not be over discharged, otherwise the battery may swell and cannot be charged. In severe cases, ordinary LIPO batteries may be scrapped with a minimum single cell voltage of 3.2V. When the battery is at the above voltage, the actual battery level is almost depleted and cannot be used anymore!
- The temperature of the battery cell during discharge shall not exceed 65°C.

## Storage requirements

- Must be stored in a dry and cool place with an ambient temperature of  $23\pm 5^{\circ}\text{C}$ .
- It is recommended to charge and discharge once a month if not used for a long time.
- When not using storage, the voltage of each cell in LIPO batteries must be between 3.8-3.9V. Otherwise, the battery is prone to swelling, affecting its lifespan and even being scrapped.

## Other requirements

- It is prohibited to disassemble, impact, or bend batteries. Batteries that have been deformed or swollen are flammable and cannot be used again.
- Short circuits are prohibited as they can cause the battery to explode. Do not throw the battery into fire or liquid.
- The model lithium battery does not have a protective plate, and someone must be guarding it during charging to avoid other accidents. Scrap batteries must be packaged and placed in a dedicated recycling bin.

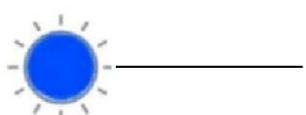
## L7 Flight controller status indicator light

 **Yellow flash** Acquiring GPS location,  
**or other fault reminders**

 **Green solid** GPS mode unlocked,  
motor ready to start

 **Green flashing slowly** Already searched for enough GPS  
signals to unlock

 **Green flashing quickly** GPS signal is better  
positioning accuracy is better

 **Blue solid** No GPS signal and in ATT/6G mode,  
the flight controller has been unlocked

 **Blue flash** No GPS signal and in ATT/6G mode,  
flight controller not unlocked

**Note:**The green and blue lights of the flight controller indicator only represent whether the flight controller has collected enough GPS signals,not the flight mode.The flight mode of the helicopter shall be subject to the position of the flight mode switch on the remote transmitter and the screen display.

## 4.Prepare for flight

Please place the helicopter in an outdoor area that is flat and open.The user should face the rear of the helicopter.

### Unlock/Takeoff in GPS mode(using Mode 2 left-hand throttle as an example)

1.Switch all the switches on the remote control up, make sure the start switch is in the off position(Stop), and switch the mode switch to "GPS".Ensure the flight mode on the remote controller screen is GPS mode.



2.Move the helicopter to an open outdoor area with no people, avoiding buildings,trees,power lines,signal towers,and other sources of interference.After the helicopter is powered on,the flight control indicatorlight will show a yellow flash.



3.After waiting for a few minutes,the flight controller emits a prompt tone,and at the same time,the indicator light changes to a slow green flashing state,indicating that enough GPS signals have been collected and the take-off conditions have been met.(If you continue to wait until the green fast flash,the GPS signal will be better.)

4.Take-off unlock.push the left joystick to the bottom right, and wait for a few seconds.When the flight control indicator light turns into a constantly-on green light with a long "beep" sound,it indicates that the aircraft has been unlocked and can take off at anytime.

**Note:**Before takeoff,make sure to check again that the remote controller switch and screen are in GPS mode.



5.During the period when the green light is constantly on,switch the start switch located on the far left from off (Stop)to on(Run),and the helicopter will begin to start the motor.

6.After waiting for the helicopter's speed to stabilize, push up the throttle lever, and the helicopter will take off slowly.If you release both hands,the helicopter will hover in the air.



.Do not stop the motor during flight,otherwise the helicopter will crash.Unless there are special circumstances (e.g.the helicopter may collide with a crowd),it is necessary to stop the motor urgently to minimize the injury.  
.The helicopter will not be able to take off in case of serious low power alarm.

.After starting the helicopter motor,the blade will rotate at high speed,which is dangerous.The operator shall keep a certain distance from the helicopter and keep the helicopter away from the crowd,buildings,trees

other obstructions to avoid collision.

After landing,please turn off the helicopter power first and then the transmitter.

# ATT/6G mode unlock and take-off(Using Mode2 left-hand throttle as an example)

1.Set the remote control start switch to the neutral gear position,and set the mode switch to the ATT or 6G gear.The remote control screen will also display the corresponding flight mode.



2.Power on the helicopter and wait for the self-inspection to be completed.In ATT or6G mode,if the helicopter receives sufficient GPS signals,the indicator light will flash green at this time.If it does not receive GPS signals,the indicator light will flash blue.

Note:The blue light and the green light are not the status lights representing the flight mode.



3.Push the leftjoystick of the remote controller to the bottom right corner,after a few seconds,the helicopter will make a long "beep"sound,and the indicator light will remain on constantly,indicating that the helicopter has been successfully unlocked.

Pay attention to the screen and the remote controller switch to ensure the flight mode is correctly selected.



4.In the unlocked state,switch the start switch to the start position "run",the motor starts,wait for the speed to stabilize,and then gently push up the throttle joystick to take off.



Note:The 6G mode does not have the height fixing function.When the helicopter is flying in the air, after switching from GPS mode to 6G mode,the helicopter will quickly fall.If you are a beginner, this operation can be very dangerous and may cause the helicopter to crash.Experienced pilots can quickly manually increase the pitch control after switching to 6G mode.

## 5.Home Mode

If you need to use the home mode (one key to return,low power return),please make sure that the GPS satellite signal is good before take-off,and there are no buildings or trees around the take-off point that hinder the return.

### ● Smart return :

Dial the switch to HOME,the helicopter return automatically.Then dial to OFF mode to terminate the return flight.

·Low power return:when the power system judges that the current power is low,it will auto return and land.Please ensure that the current distance of the helicopter conforms to the range of the helicopter's remaining power.

·When returning with low power,the helicopter will auto rise up to 10 meters,and then return, which isn't controlled by the operator.If there are obstacles (trees or buildings )on the way back, the auto flight needs to be terminated

### ● Ways to stop low power

·If you want to stop the low power return,please flick the switch to HOME,and then flick the switch to OFF.You can manually control the helicopter after landing and manually turn off the motor.

During this period,the helicopter will not return with low power until the helicopter is powered off.



# Special precautions



Please ensure that the flight mode is in GPS mode (the joystick is in the GPS position and the remote control screen displays GPS) before unlocking the helicopter. Once the helicopter is unlocked, the helicopter will lock the current flight mode and cannot be changed until after takeoff.

For example, an incorrect operation instance: Before the helicopter is unlocked, it is in Manual 6G or ATT mode. After unlocking the helicopter, you find that the flight mode is not GPS mode. Then directly switch the flight mode from 6G or ATT mode to GPS mode, but the helicopter will still be in 6G or ATT mode at this time. (Because the helicopter locks the flight mode once it is unlocked, and the flight mode can only be changed after relocking.) After the helicopter takes off, it is unable to self-locate, which leads to a crash.

When you find that the flight mode you are using is not GPS mode, you should shut down the engine immediately. Then lock the helicopter, switch the flight mode to GPS mode, unlock the helicopter again, start the helicopter's motor, and after the speed stabilizes, push the stick to take off.

## FLIGHT SAFETY NOTICE

suggests that users enjoy flying in a reasonable safe environment .The knowledge of flight safety is very important for the safety of yourself,the surrounding people and the environment.

- Fly in open areas away from buildings,trees,High voltage power cable lines,crowd water surface,and any near by obstacle.
- Please keep the remote control transmitter in hand,even when using the Auto Flight/Auto Landing and AutoReturn Home function,to control the helicopter at any time.
- Please fly the helicopter within your sight range at all times
- To ensure flight safety,please do not fly the helicopter beyond 120 meters above the ground.If there are no flying height restrictions or if the restriction is lower than 120 meters in your area,please follow the regulations.

## PREFLIGHT SAFETY INSPECTION

Please check the helicopter carefully before taking off.

Precautions are as follows:

- Check whether the main blades,tail blades,helicopter body and landing skids are damaged or distorted,please replace them with the new parts.
- Check whether the flight control linkages and fuselage are fixed firmly,and whether the GPS unit is correctly fixed on the helicopter tail boom(horizontally placed,straight line behind the main mast)H1 Unit is fixed firmly on the double sided foam pad either at the front or at the back of the mainmast. Pay attention to the direction of the arrow which has to be pointed towards the direction of travel.
- Check whether the power of the helicopter and the transmitter are sufficient.After the transmitter is powered on,turn on the power supply of the helicopter,and check whether the helicopter passes these self inspection test

(the rotor head and swashplate move regularly for several seconds)

## FLIGHT ENVIRONMENT REQUIREMENTS

- Do not fly in bad weather,such as strong wind (10m/s),rain ,snow and foggy weather,etc.
- Choose an open place with no tall buildings around the flight pathway.Any large number of buildings using steel bars will affect the effectiveness of compass function,and they will block GPs signal,resulting in poorpositioning of helicopter and even unable to receive the signals.
- Please do not fly in any area with high voltage cable line,radio tele-communication station,mobile phone transmission tower or Wi-Fi,to avoid signal interference of your transmitter and receiver.
- Please take extra caution when flying above 6000 meters as performance of the battery and the motor powersystem of the helicopter will be reduced to cold temperature and thinner air density.

## FLIGHT OPERATION REQUIREMENTS

- Fly within your sight of range (VLos)
- Keep away from rotating blades and motor.
- Activating the stop switch during flight will cause the helicopter to fall.Please use this function only in case of emergency.
- During the flight,please do not answer or make phone calls ,send short messages or use other mobile devices that may interfere with your helicopter operation.
- Do not operate the helicopter under the influence of alcohol or drugs.

- Please return home as soon as possible when low power warning appears from the transmitter.
- In the process of runaway return,when the radio signal becomes normal again,the helicopter landing position can be controlled by the transmitter.
- After landing,the helicopter electronic power should be stopped first and then the transmitter should be turned off to avoid any loss of transmitter signal.
- When using the GPS Autopilot flight mode and Return Home functions,you should always be prepared to control the helicoptermanually by turning the transmitter 3D mode switch in case of Emergency .Please note that the helicopter is still in the Auto GPS flight modstate at this time.if you need to completelyexit the flight mode,please turn the flight stop button on the transmitter.
- Please keep control of the helicopter all the way.Do not rely on GPS to provide information.In specific flightmode or flight environment,GPS system can not work normally, such as precise landing or active braking and other functions will not be available.Please make a reasonable judgment on the flight condition bynaked eye observation,and set the corresponding flight and return altitude according to the flight environment.

## WARNING

Through reading of the entire user manual to familiarize with the product functions before operation.If the product is not operated correctly,it may cause serious injury to yourself or others,or causeproduct damage and property loss.This product is complex,it needs to be familiar with it for a period of timebefore safe usage,and you need to have some basic knowledge before operation.If there is no strong safety awareness, improper

operation may lead to product damage and property loss, and even cause serious injury to oneself or others.

This product is not suitable for children. Do not use parts not provided or recommended by our company.

You must strictly follow the company's guidelines to install and use these products.

This guidance document contains safety, operation and maintenance instructions. Be sure to read all instructions and warnings in the user's manual carefully before assembling, setting up and using. You have read and understood all the contents of this document before using it.

**To avoid possible injury and loss, it is important to observe the following items:**

- Users are not allowed to operate this product in any condition of poor physical or mental states such as drinking, drug taking, drug anesthesia, dizziness and fatigue, nausea, etc.
- Except in special circumstances (such as the helicopter may hit a crowd), it is forbidden to turn off the engine during the flight
- After landing, be sure to turn off the helicopter before turning off the remote control transmitter.
- It is forbidden to use this product to throw or launch any dangerous object to buildings, people or animals.