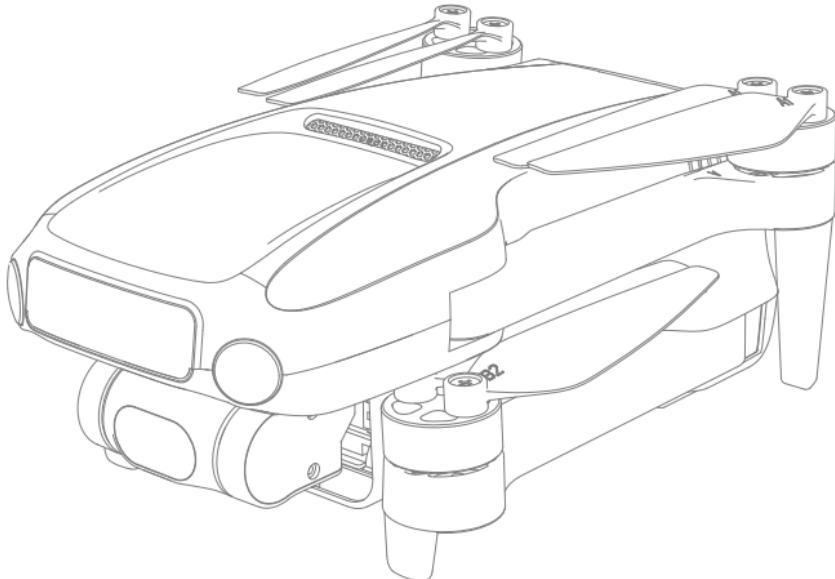


udir/c

U-HAWK

# OPERATING INSTRUCTIONS



Applicable to U98PRO V1.0

This product is suitable for users over 14 years old. Please read this instruction manual carefully before use.



# IMPORTANT NOTICE

**The package or instruction manual contains important information and must be retained.**

Our company's products are improving all the time, design and specifications are subject to change without notice. All the information in this manual has been carefully checked to ensure accuracy, if any printing errors, our company reserve the final interpretation right.

**The spare parts (including batteries and chargers) mentioned in the User Manual are subject to sales. Configurations vary by version, please refer to the sales version.**

## THANK YOU

- Thank you for choosing this product. If you have any problems or need help, please call us and we will try our best to help you.
- This is a drone, not a toy! which needs regular maintenance to obtain the best performance. If you don't do regular maintenance, it can affect performance.
- The warning or attention symbol will alert you to potentially dangerous steps. Please read and understand the instructions carefully before proceeding.



### WARNING



### ATTENTION

Failure to follow these instructions may result in injury to yourself or others. You may also cause property damage or model damage.

**For more safety precautions, please refer to the "Disclaimer and Safety Operation Guidelines".  
Usage: Please follow the instructions to install and operate the model.**



UDIRC SUPPORT

# ⚠ WARNING

The product should only be used by adults and children over 14 years.  
Adult supervision is required for children under 14 years.

## Hinweis:

Dieses Produkt ist für die Erwachsene und die Kinder ab 14 Jahren.  
Die Kinder unter 14 Jahren müssen von Erwachsenen beaufsichtigt werden.

## Avertissement:

Ce produit est destiné aux adultes et aux enfants de plus de 14 ans.  
Les enfants de moins de 14 ans doivent être surveillés par des adultes.

## Avvertimento:

Questo prodotto è destinato all'uso per i adulti e bambini di età superiore ai 14 anni.

I bambini di età inferiore ai 14 anni devono essere sorvegliati da un adulto.

## Advertencia:

Este producto es para adultos y niños mayores de 14 años.

Los niños menores de 14 años deben ser supervisados por adultos.

## 警告:

この製品は、大人と14歳以上の子供には使用対象です。

14歳未満の子供は大人の監視が必要です。

## ريذخت:

قوف لافطلأاو نيغل ابلال بق نم طقف جتنمل امادختسا بجي

أماع 14 نس.

أماع 14 نس نود لافطلألل بولطم رابكل افارش!



**DANGER!**

Only suitable for age 14+



# BATTERY SAFETY

- Please read and observe all precautions before use. Improper use of battery may cause danger.
  - It is normal for the battery to heat up after operation. Please be careful when handling the battery. If the wire is worn, it is easy to short circuit and cause fire.
  - Wasted li-ion battery must not be placed with household trash. please contact local environmental or waste agency or the supplier of your drone or your nearest li-ion battery recycling center.
- 1) After use, please disconnect the power supply and pull out the plug;
  - 2) Remove the battery from the drone before charging;
  - 3) DO NOT charge the battery when it is bulging or expanding;
  - 4) Keep away from damp, corrosive environment and heat source;
  - 5) Please charge the battery under adult supervision;
  - 6) Pay attention to the polarity of the battery when installing or replacing the battery;
  - 7) Different types of batteries or old and new batteries should not be mixed;
  - 8) DO NOT short circuit any terminals;
  - 9) DO NOT short circuit, decompose or put the battery into fire;
  - 10) Please use the attached special charger to charge the battery.



# ATTENTION

<b>Before Operation</b>	<ul style="list-style-type: none"><li>● Read the instruction manual in detail, or ask for the person with experience in operation, and read with the guardian if necessary.</li><li>● Make sure the propeller are not damaged and installed correctly.</li><li>● The remote control and the drone should always use the battery with saturated power to avoid losing control of the drone.</li></ul>
<b>During Operation</b>	<ul style="list-style-type: none"><li>● First turn on the power of the remote control, and then turn on the power of the drone.</li><li>● Use this product only in open areas without pedestrians.</li><li>● DO NOT put fingers or any objects inside rotating and moving parts.</li><li>● Improper operation caused the crash. It is necessary to check and confirm the connection of the motor, blade or electric pool of the drone and the damage degree, so that the drone can fly again.</li></ul>
<b>After Operation</b>	<ul style="list-style-type: none"><li>● First turn off the drone power, then turn off the remote control power. And take out the battery.</li><li>● Daily maintenance is required after the drone is used.</li></ul>

# TROUBLESHOOTING

Problem	Solution
The transmitter indicator light is off	<ol style="list-style-type: none"><li>1) The battery is low, please charge in time.</li><li>2) Please make sure turn on the power.</li></ol>
Unable to frequency	<ol style="list-style-type: none"><li>1) Operate the drone step by step in accordance with the user manual.</li><li>2) Make sure signal interference nearby and keep away.</li><li>3) Restart the drone and power on the controller.</li><li>4) The electronic component is damaged for frequent crash.</li></ol>
Under-powered or can not fly	<ol style="list-style-type: none"><li>1) Make sure the propeller is damaged or replace a new one.</li><li>2) When the battery is low, please charge it in time.</li><li>3) Make sure Install the propeller correctly.</li></ol>
Abnormal flight cannot altitude hold and yaw serious	<ol style="list-style-type: none"><li>1) Make sure the propeller is it damaged. If so, replace the propeller.</li><li>2) Confirm whether the body shell is damaged and replace it.</li><li>3) Restart and "correct" according to the instructions after 10 seconds of shutdown.</li><li>4) Confirm whether the motor is damaged or replace with a new motor.</li><li>5) Follow the instructions for "flight trimming".</li></ol>
The drone indicator light is off	<ol style="list-style-type: none"><li>1) When the battery is low, please charge it in time.</li><li>2) Replace the damaged battery with a new one.</li><li>3) Over-powered protection, restart after 30 seconds of shutdown.</li></ol>



## Li-Po Battery Disposal & Recycling

Wasted Lithium-Polymer batteries must not be placed with household trash. Please contact local environmental or waste agency or the supplier of your model or your nearest Li-Po battery recycling center.



# FCC NOTE

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.*

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

## FCC Notice

The equipment may generate or use radio frequency energy. Changes or modifications to this equipment may cause harmful interference unless the modifications are expressly approved in the instruction manual. Modifications not authorized by the manufacturer may void user's authority to operate this device.

This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions:

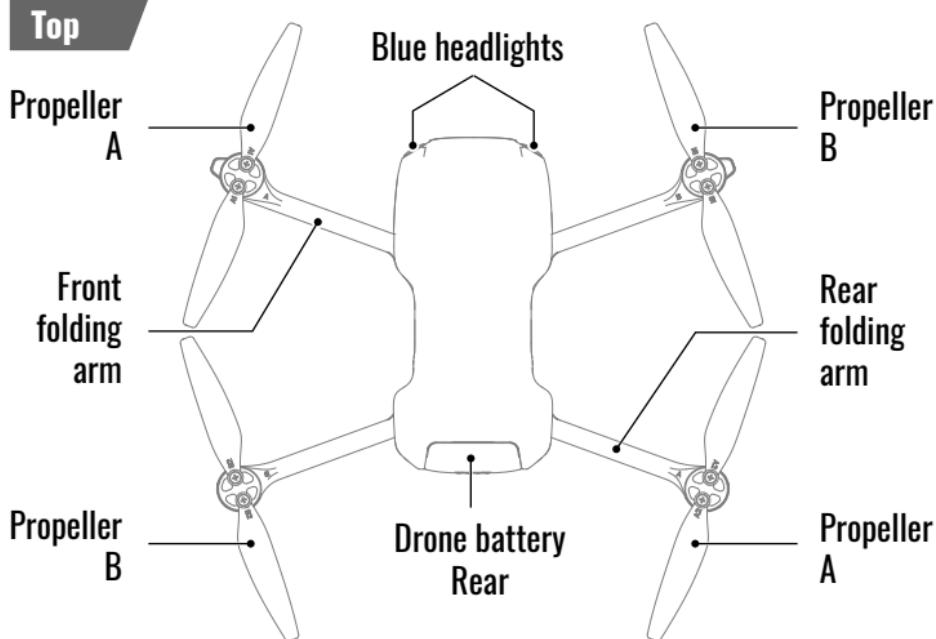
(1) This device may not cause harmful interference. (2) This device must accept any interference received, including interference that may cause undesired operation.

## FCC Radiation Exposure Statement

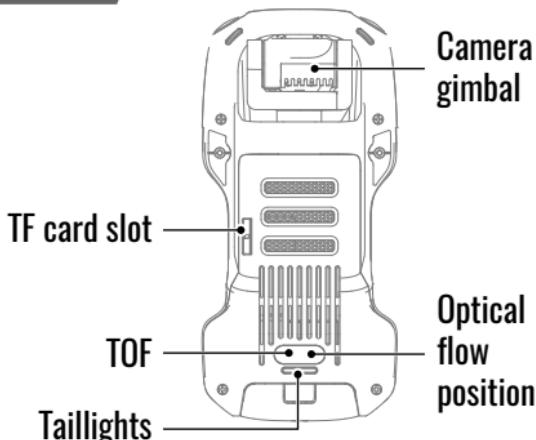
The device has been evaluated to meet general RF exposure requirement.  
The device can be used in portable exposure condition with out restriction.

# DRONE SUMMARY

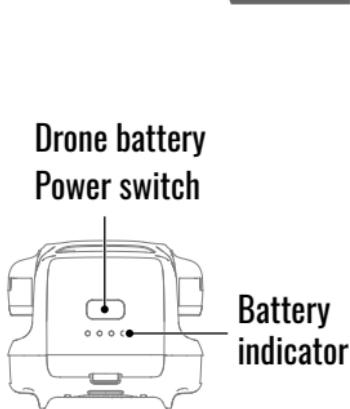
Top



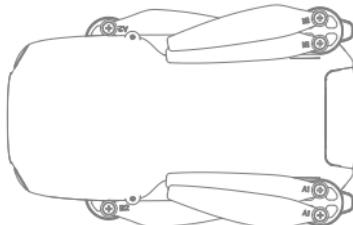
Bottom



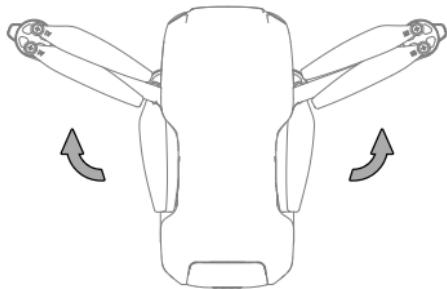
Back



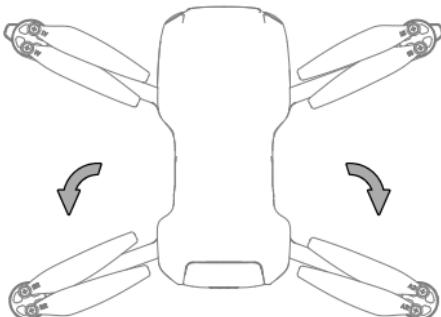
# Unfolding instruction



Folding State

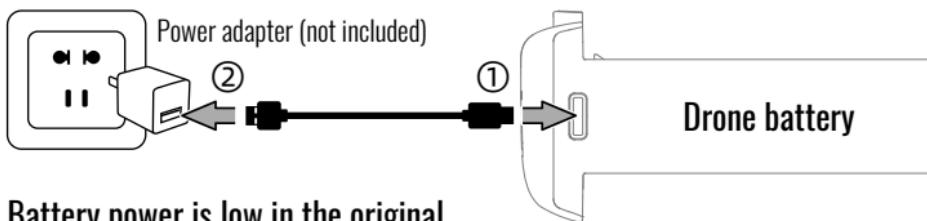


1) Front folding arms unfold



2) Rear folding arms unfold

## Drone battery charging



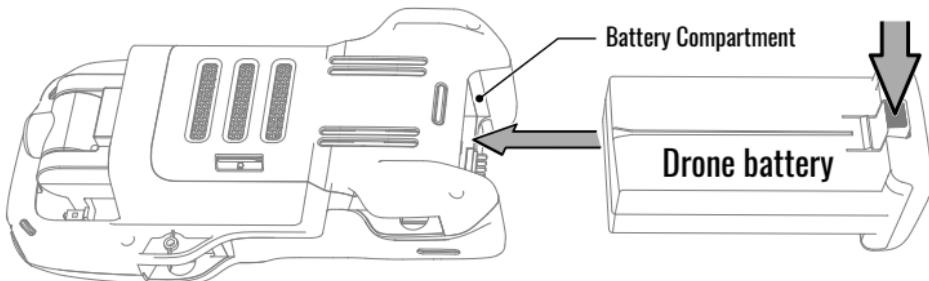
Battery power is low in the original factory. It must be fully charged before use. Connect the Drone-battery to charging port with included USB charger cable, and then connect to other USB output port (Output: 5V, >2A). Battery indicator flashes when charged, and always on when fully charged.

**Warning: Must be supervised while charging.**

*Please use the included USB charging cable and make sure it is properly connected.*

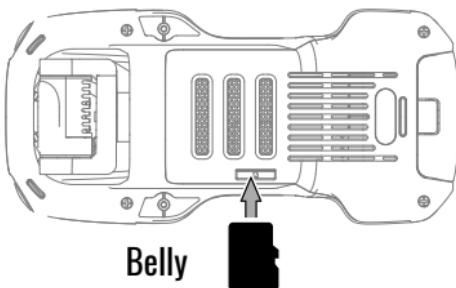
# Installation of drone battery

Take out: Press down on the latch and pull the battery.



When the drone's battery put into the battery compartment and the contact is connected, it will sound "ka", that it indication the battery is successfully installed.

## Install an TF card (Not Include)



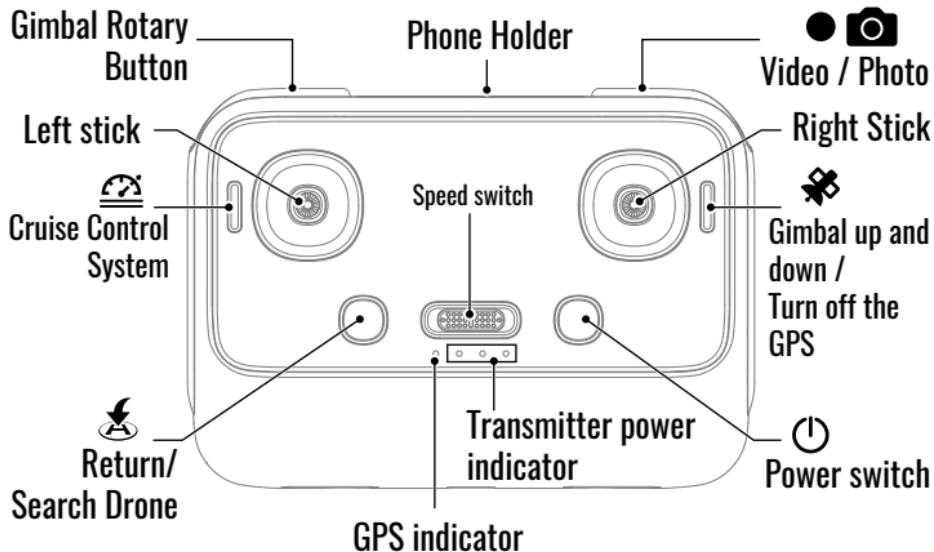
Insert the TF card into the slot in the drone's body. Please make sure the metal contact facing. After installation, the TF card can be used normally only after formating in "Setting-other" of the APP.

**Note:** High-quality video or photo shooting requires the storage device to support fast writing. Use a micro TF card with UHS-I Speed Grade 3 or higher specifications to ensure the shooting performance. Please do not insert or remove the TF card when the drone is turned on or remove the battery when the power is turned on. Otherwise, the TF card may be damaged and data may be lost.

## Navigation light status

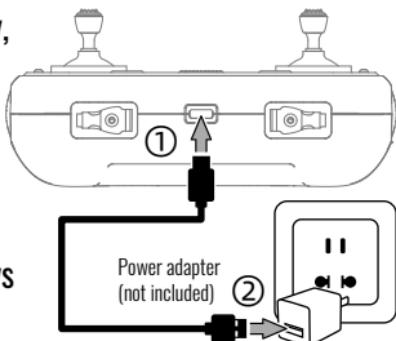
Status	Corresponding functions
The headlights are keep bright, the green taillights are flashing slowly.	Paring frequency successful, search GPS signal
The headlights and green taillights are keep bright	Complete GPS satellite search
The headlight keep bright, the red taillights flash twice, pause once	In paring frequency
The headlights and red taillight are flashing slowly	Low battery alarm
The headlights are keep bright, the yellow taillights are flashing slowly.	Compass calibration
The headlights and yellow taillights are keep bright	Indoor flight mode
The headlights are keep bright, the yellow taillight are flashing quickly	Gyroscope calibration in progress

# TRANSMITTER SUMMARY



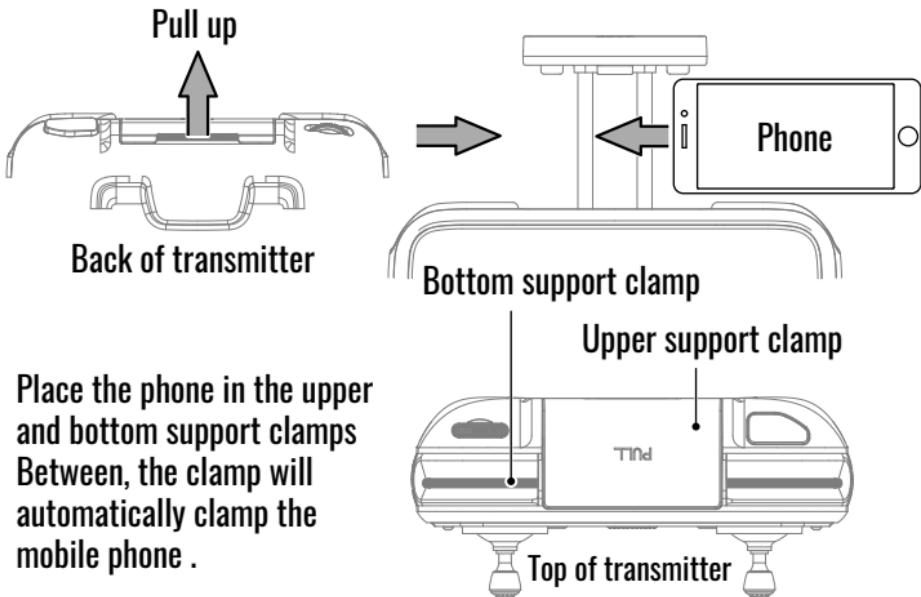
## Transmitter charging

Battery power is low in the original factory, It must be fully charged before use. Connect the transmitter to charging port with included USB charger cable, and then connect to other USB output port (Output: 5V, 2A). the transmitter indicator flashes circularly when charged, and always on when fully charged.

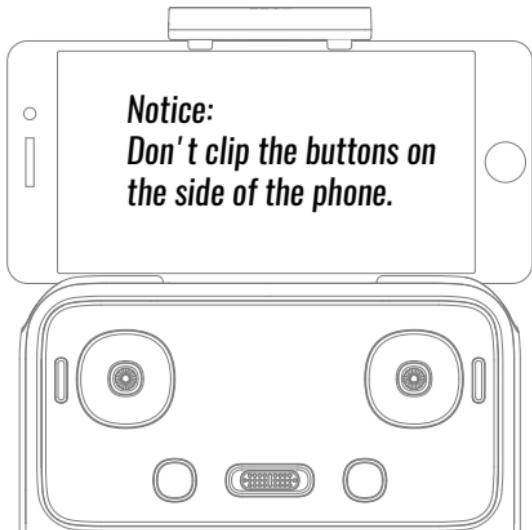


**Warning: Must be supervised while charging.**  
Please use the included USB charging cable and make sure it is properly connected.

# Installation of phone holder and phone



Place the phone in the upper and bottom support clamps. Between, the clamp will automatically clamp the mobile phone.



# FLIGHT OPERATIONS

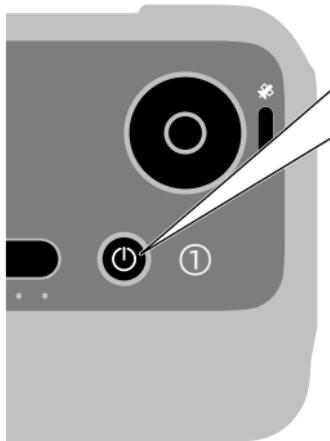
## Mobile phone connect with Drone

### Download and install APP: UDIRC-X

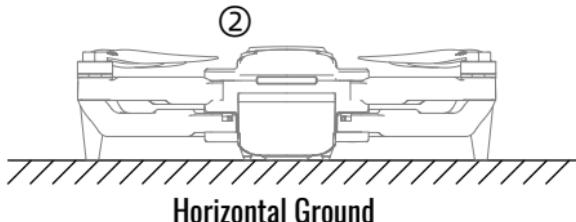
This software is suitable for mobile phones in the IOS 9.0 or later and Android 4.4 or later system. For detailed operation, please check the system "HELP" of APP.



### Frequency Pairing



1) Press  2 seconds to turn on the power of the transmitter and the indicator will flash, then enter to wait for frequency pairing. Press 2 seconds to turn off the power.



2) Place the drone on the horizontal ground, press the switch  on the drone battery for 2 seconds to turn on the power and the front navigation light will keep long bright. The transmitter continuously sounds "di", and sound stops after about 30 seconds, the transmitter indicator light will keep bright, the front light of the drone will keep bright, the green taillight will be flashing slowly, the frequency pairing is successful, and it will enter into the state of searching for the GPS signals.

# Compass calibration

Follow the APP guide to operate

When the compass is affected by geomagnetic interference, it will be notified in APP. Please follow the instructions.

## GPS Signal Search

After the frequency paring is successful, the drone will search for GPS signal automatically. When the transmitter sounds "di", it indicating the GPS connection is successful.

(When the GPS signal is weak or flying indoors, the flight height defaults to about 4m.)

## Unlocking/locking the motor

Push the left and right stick inward to the 45° angle simultaneously.



- 1) On standby drone, motor rotation, drone unlocked.
- 2) When the drone is not take off, the motor stops rotating and the drone is locked.

*The drone can only take off when the motor is unlocked, this function requires a GPS connection, or turn off the GPS function to unlock the motor.*

## Control stick operation

### Left stick



Counter-clockwise turn



Clockwise turn

## Right stick



Forward



Fly to the left



Backward



Fly to the right

## Take off

After unlocking the motor, the left stick slowly pushes up and the drone slowly rises.

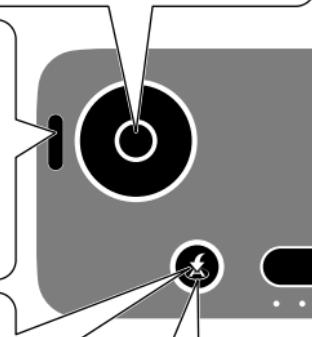
## Landing

During the flight, the left stick slowly pull down , and the drone slowly lands until landing.



Press <1 second to start cruise control system.

By operating the remote control stick and briefly pressing the button, then releasing the stick, the drone will automatically fly according to the control movements, activating the speed control auto-cruise mode.



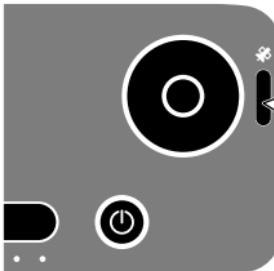
## Return

During the flight, press "  " <1 second, and the transmitter will sound "di" then the drone will return to the take off point automatically. During the drone return, the power indicator of the transmitter flashes circularly.

Note: During the return, the right stick are not able to control the drone. It must wait until the drone returns to the take off point and keeps in the same direction as the take off, the right stick can control the drone.

## Search Drone

Press and hold for <2 seconds to turn on the drone search function.



Press <1 second to adjust the angle of the gimbal.



**GPS ON / OFF** GPS is on by default.

Long press, the transmitter will sound "di..." to turn off the GPS. After repeated operation, the transmitter will sound "di" to turn on the GPS.

Note: this function is only used when the motor is locked. If you want to fly indoor please turn off the GPS function first.

**Photo** Press "● " button once to take a picture and the transmitter will sound "di".

**Video** Press "● " button for 2 seconds, the transmitter will sound "di..." to start recording. Repeat this action to stop recording and save the video.

Attention: The recording process cannot be photographed

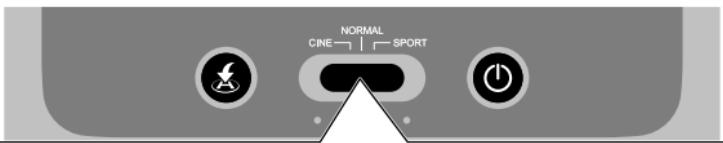
**Gimbal Adjustment** 

Roll Gimbal Rotary Button, adjust Camera Angle.



## Notes for Filming

- 1) Photos taken will be saved to mobile picture library and drone TF card; Video can be saved in TF card first.
- 2) The APP must be authorized to read the phone gallery to view the aerial photos.
- 3) Turn off the power supply of the drone before taking out the TF card.
- 4) When aerial video is read by computer, it must have corresponding playback software.



CINE: Low speed

NORMAL: Medium speed

SPORT: High speed

Low speed: suitable for beginners to practice without wind.

Medium speed: suitable for skilled operator operating in light breeze.

High speed: suitable for professional operation in outdoor wind resistance.

## Following Function

Follow the APP guide to operate

The function is standard by the mobile phone App signal, so it's a must to make the drone and App connected normally, turn on the mobile location service at the same time, otherwise this function is invalid.

## Encircling flight

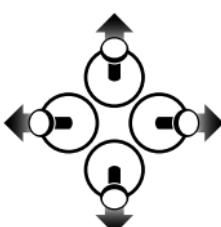
Follow the APP guide to operate

*In the state of encircling flying, the left stick could only control the height of the drone.*



Go upward to narrow the radius of encircling.

Turn left, the drone flies clockwise; Move further, the flying speed will become faster.



Turn right, the drone flies counterclockwise; Move further, the speed will become faster.

Go downside to enlarge the radius of encircling.

## Low Battery Alarm

When the battery power of the transmitter is running out, it will sound of "didi" and the power indicator flashes. This moment, please return soon and charge the transmitter.

## Automatic Return

Attention to prompts on the APP

When the power of the drone is running out, the headlights flash slowly, and the red taillight flash slowly. At this time, the drone will automatically return to the take-off point above.

## Out of range alarm

When the drone is out of the remote control distance, the transmitter will sound "di-di" to alarm the user to return the drone immediately.

## Stuck Protection

When the propeller is stuck and does not rotate, the drone will start the automatic protection function to stop the motor working.

## Gyroscope Calibration

When the drone doesn't appear to use the trim correction flight status, or being hit hard (or falling abnormally). Thus cause the difficulties in controlling. Now frequency making and adjustment are needed again. After placing the drone on a level ground, go to the APP remote control interface: Settings → Calibration → Gyro Calibration

## Intelligent Hover

Intelligent flight control can calculate the suspended height, the visual system points the ground position, GPS coordinates allow the vehicle to stay in your desired position. The drone is like a camera fixed in the air. Aerial photography and control are very convenient.

*Notice: Drone must be connected to GPS properly in order to give full play to fixed-point hovering function. Atmospheric pressure or wind force affects hovering stability.*

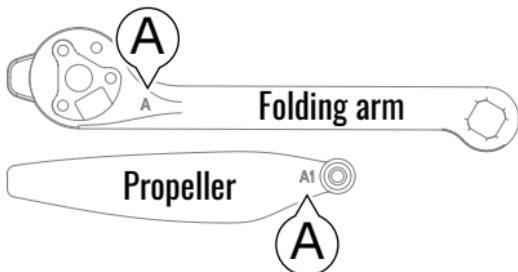
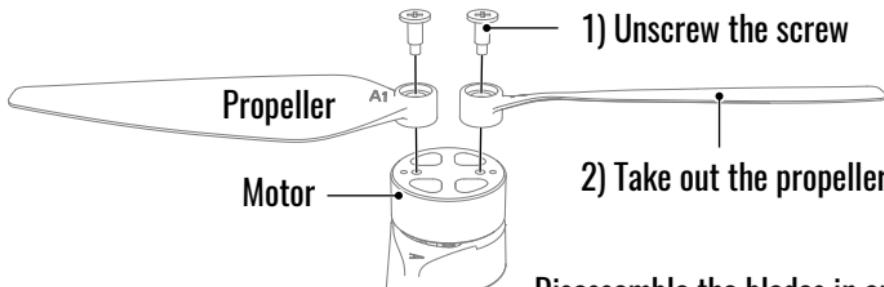
## Out of Control Protection

Out of control protection refers to the flight control system automatically controls the drone to fly back to the return point after receiving the remote control signal (ie, out of control), the drone does not have the function of avoiding obstacles during the uncontrolled return flight. The user can set the return altitude value to avoid obstacles on the way back.

### Possibility of entry into runaway protection mode

- \* The remote control is off.
- \* Flight distance exceeds the effective distance of remote control signal transmission.
- \* There is an obstacle between the transmitter and the drone.
- \* Transmitter signal is disturbed.

# PROPELLER REPLACEMENT



Disassemble the blades in order of serial numbers. Reverse operations during installation. The blade is divided into AB, corresponding to the letters on the folding arm. Please make sure the propeller are properly installed, otherwise the drone cannot fly.

MADE IN CHINA



Manufacturer: SHANTOU CITY UDIRC TECHNOLOGY CO., LTD

Address: Guangfeng Industrial Zone, Guangyi Street, Chenghai District, Shantou City, Guangdong Province, CN