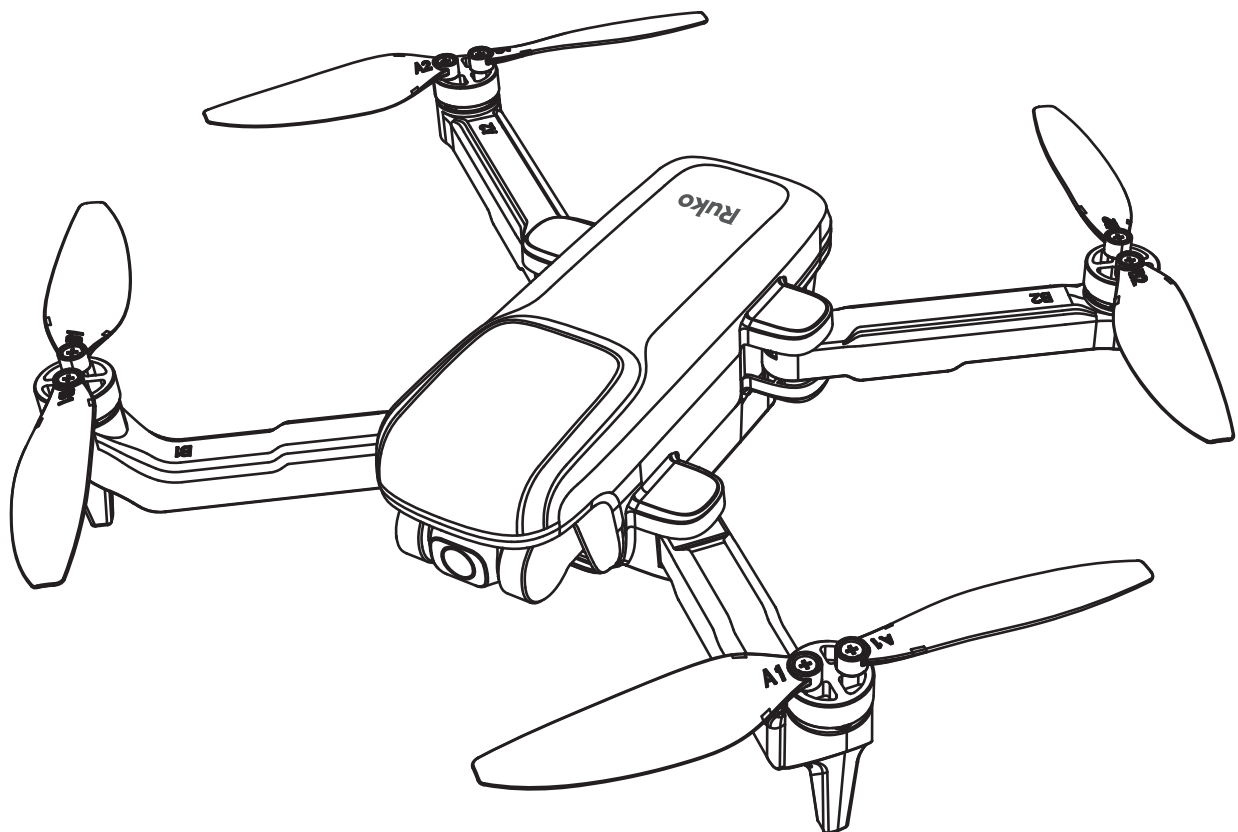


Ruko[®]

14+
for age

User Manual



U11 PRO

If you have any questions about this product, please contact Ruko by sending a message to Rukofunnytoys@gmail.com





📞 +86 19925221959 (Available from 9 pm to 6 am)

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1. Package Contents

		
Drone (no battery) X 1	Transmitter X 1	Drone Battery X 2
		
Phone Holder X 1	Propeller A x 4 Propeller B x 4	USB Charging Cable X 2
		
User Manual X 1	Screwdriver x 1	Screw

2. DRONE PRESENTATION

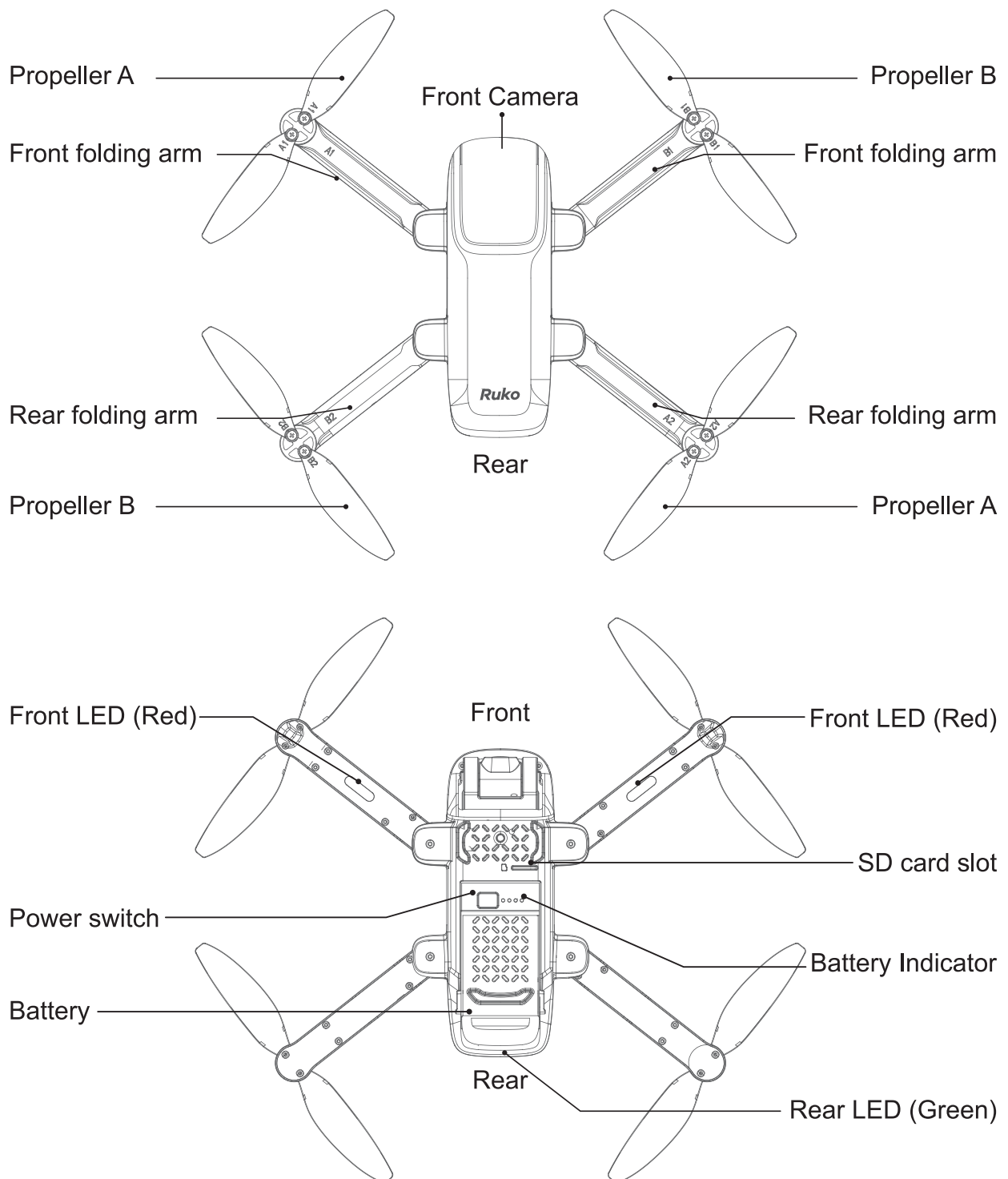
Thank you for purchasing the Ruko U11 PRO GPS drone. Please read all instructions and warnings carefully before operating. Please also keep this instruction manual for future reference and maintenance.

2.1 Important

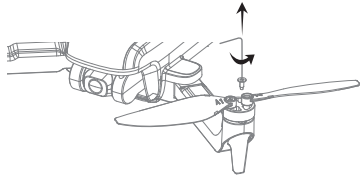
- 1) Drone U11 Pro is NOT a toy and is not suitable for people under the age of 14. It requires correct assembly and debugging to avoid any accident before every flight. Inappropriate use of the product could result in personal injury or property damages.
- 2) This product is suitable for experienced drone pilots no less than 14 years of age.
- 3) In the event of a problem during using, operating, or maintenance, please contact the local sales agent or retailer or keep in touch with the responsible staff of our company.

2.2 U11 Pro Drone Diagram

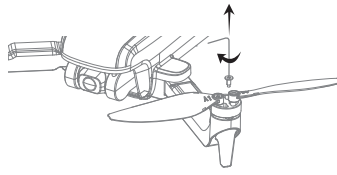
This drone is equipped with Optical Flow Positioning and GPS positioning systems. It can fly stably indoors and outdoors and has functions such as Return To Home, Route Planning, Follow Me, and Circle Flight.



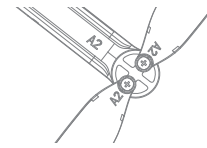
2.3 How To Replace the Propeller



Loose the screw and remove the propeller.



Replace the propeller and tighten the screws.



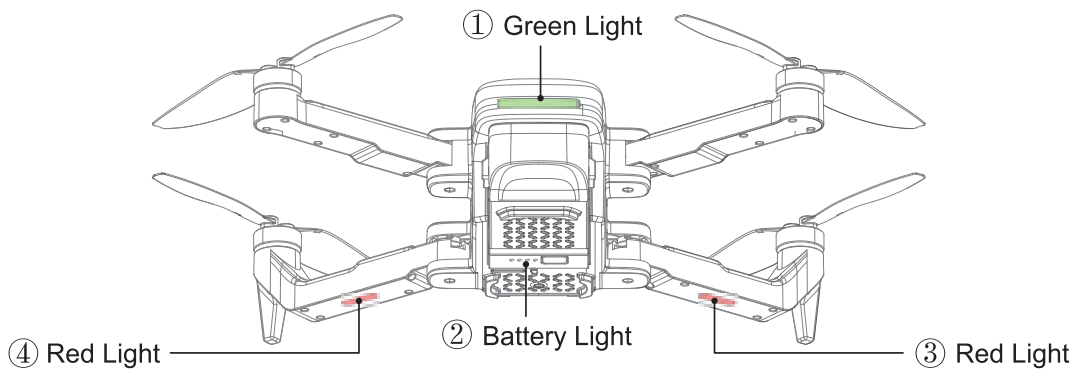
Make sure the marks of the propeller are same as the arm.

Notice:

- ① Please install carefully to avoid injury
- ② If the propeller is installed incorrectly, the drone can't fly normally and may cause damage.
- ③ Please use the propeller accessories provided by Ruko.

2.4 Drone Indicator

Please refer to the table below to understand the status of the flight indicated by different flashing modes.

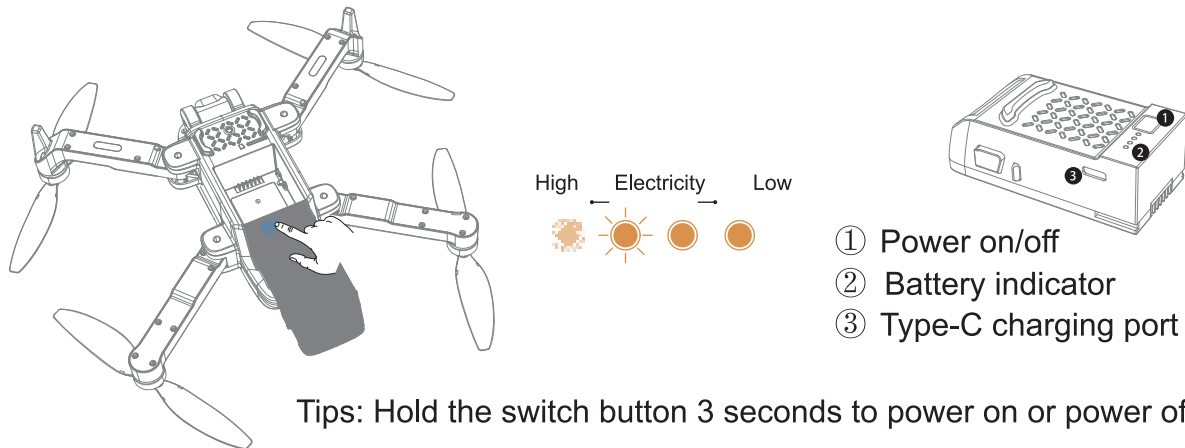


Indicator status	Meaning
Red Light flashes slowly, Green Light often light up	Ready to do Calibration
Green Light flashes, Red Light often lights up.	Ready to Vertical Calibration
Green Light often light up, Red lights flash slowly in turn	Indoor flight in progress
All lights flash alternately	Low Battery Return to Home
The Green Light changes from fast flashing to slow flashing, Red Light flashes slowly	Gyroscope calibration is successful
All LED indicate flash slowly alternately	Searching for GPS indoors(Please close GPS mode during indoor flight)
All LED Lights often light up	Searching GPS signal is successful

2.5 Intelligent Flight Battery

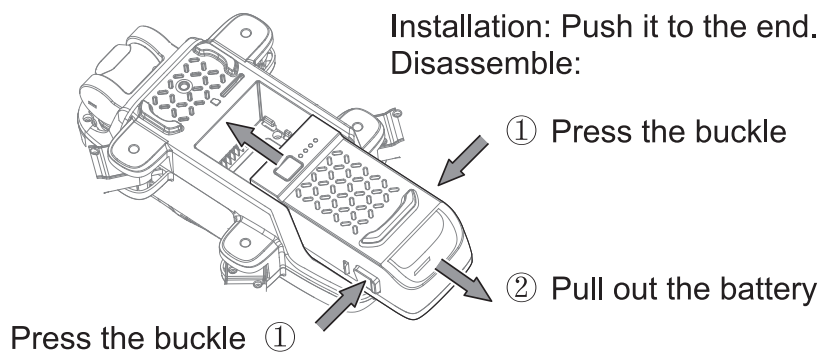
Please read Disclaimer and Safety Guidelines and the User Manual before use battery. Users take full responsibility for all usage and operations.

1) Battery Diagram



2) Installation & Disassemble Battery

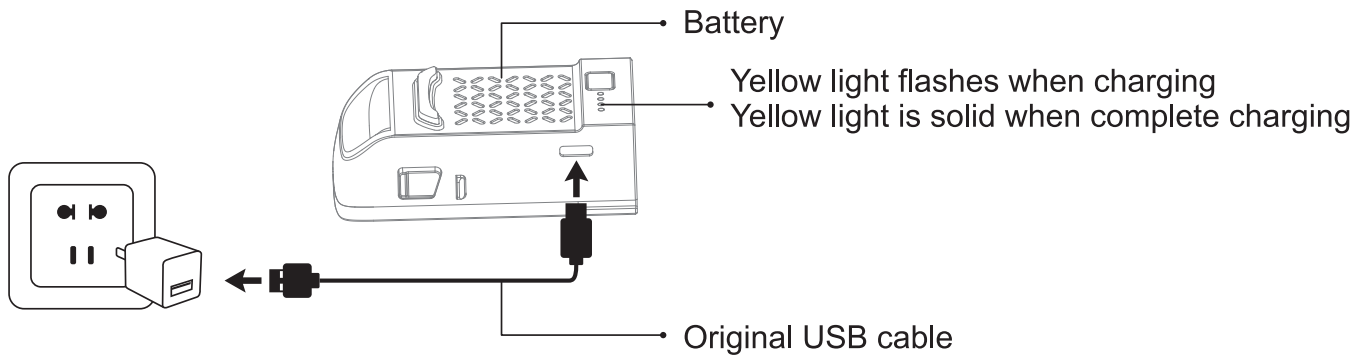
Please read Disclaimer and Safety Guidelines and the User Manual before use battery. Users take full responsibility for all usage and operations.



Notice:

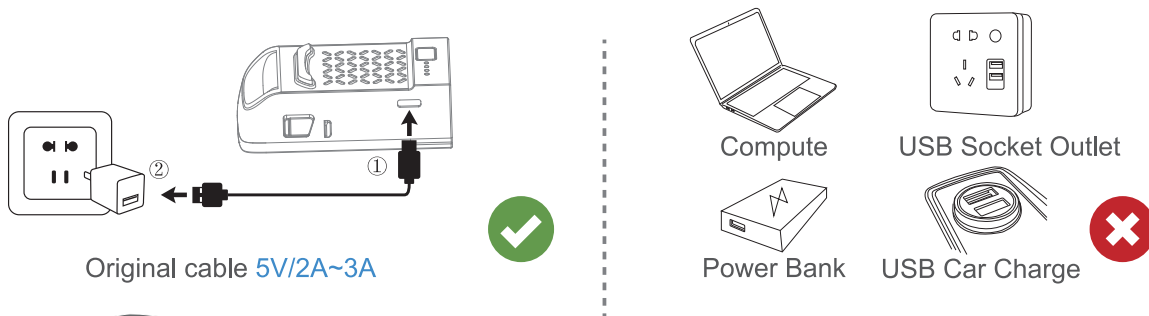
Make sure that the battery is installed correctly, otherwise, the battery may drop off during flight.


3) Precautions for Charging



Notice:

① Mini USB 5V/2A~3A wall charger recommended. Do not use any charger stronger than 5V/2A~3A, or the battery may be damaged, reduce performance, and cause a fire.

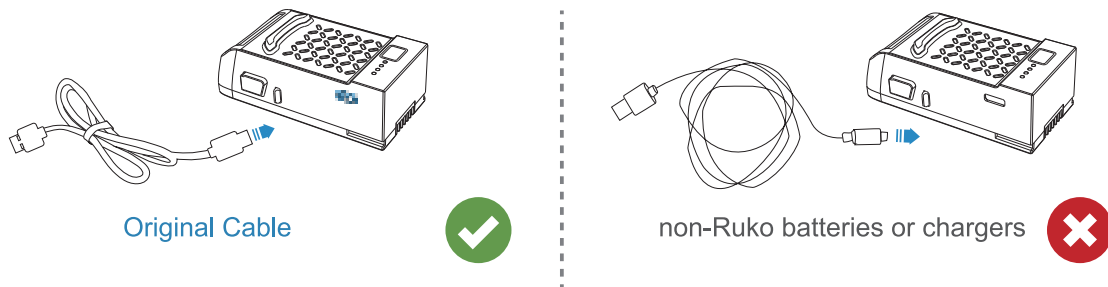


 $> 5V/3A$, such as 9V=2A, 10V=2A, 12V=2A

② Please remove the battery in time after fully charged to avoid damage due to overcharge. Charging time is about 2.5 hours.



- ③ DO NOT use non-Ruko poor quality batteries or chargers. Ruko takes no responsibility for any damage caused by non-Ruko batteries or chargers.

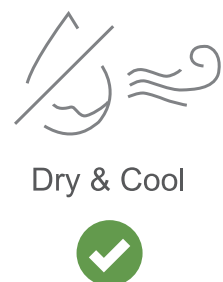


- ④ After flying, DO NOT charge battery immediately until the battery gets cool to avoid malfunctions due to excessive temperature. The batteries should be used at temperatures between 20°C and 40°C (68°and 104°F).



- ⑤ Please remove the battery in time after the drone has landed on the low electricity to avoid battery damage caused by battery over-discharge.

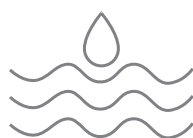
- ⑥ Lithium batteries should be charged with 50%~80% of electricity if they are not used for a long time, and they should be taken out of the instrument and stored in a dry and cool environment, and the batteries should be changed every month to avoid excessive storage time and battery self-discharge. Too low, causing irreversible capacity loss.



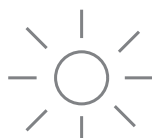
4) Daily Maintenance Of The Battery

Please use the battery according to the following introduction to ensure the safety of your and a third party.

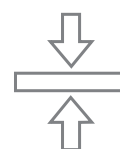
① DO NOT allow battery to touch with any kind of liquid, or put it under sun exposure, severely squeezed, and dropped from high altitude.



Liquid



Sun Exposure



severely squeezed

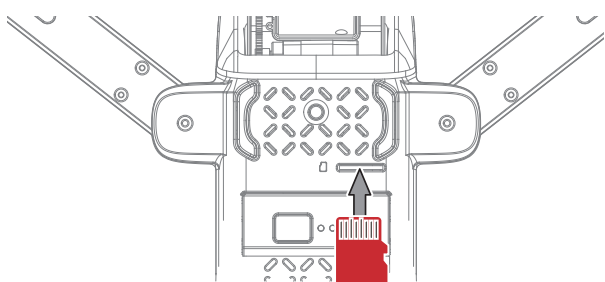


② Keep the batteries out of the reach of children and animals.

③ DO NOT disassemble or pierce a battery in any way or it may leak, catch fire, or explode.

④ DO NOT touch the electrolytes in damaged batteries, it may injure your skin or eyes

2.6 Install SD Card



* SD card is not included



1) There is a socket on the back of the camera, you can insert an SD card (not included).

2) When the SD card is not inserted, the photos and videos will be automatically saved in the phone album. After the SD card is inserted, the photos and videos will be automatically saved in the SD card and the

phone album at the same time. You can click  to view and download.

3) We recommend inserting an SD card because it helps to increase the resolution of the video.

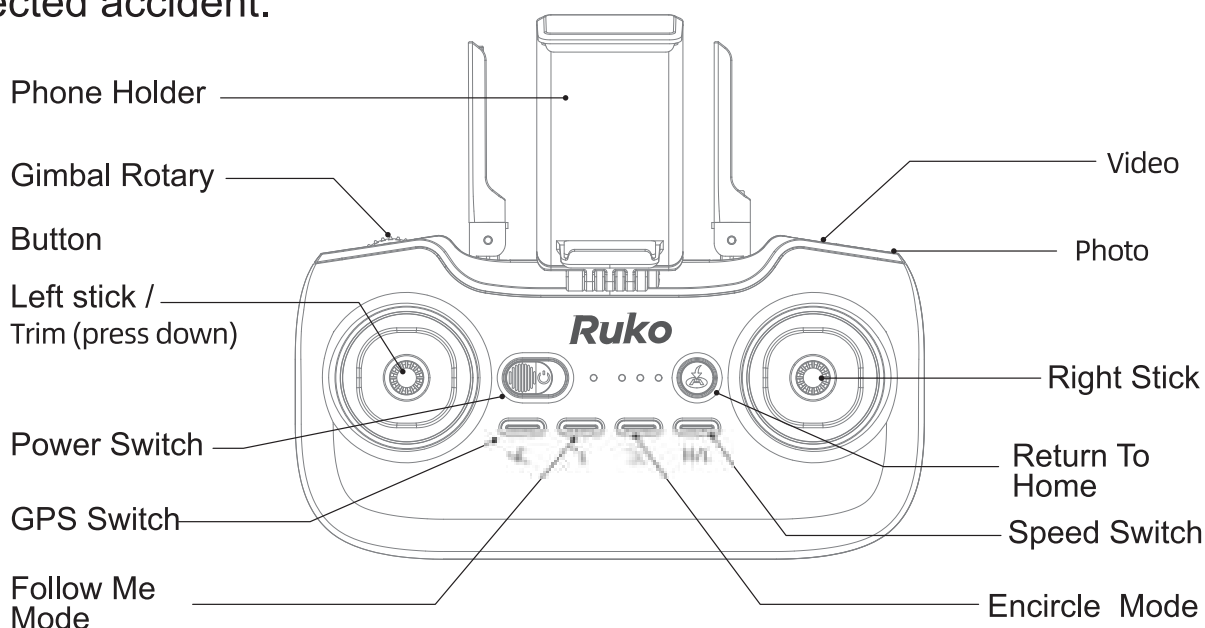
Storage Mode	Photo Resolution	Video Resolution
Mobile Phone	3840x2160P	1280x720P
SD Card	2048x1152P	2048x1152P

Notice: Click the SD card icon  to format the SD card and select FAT32 as the file system at the same time.

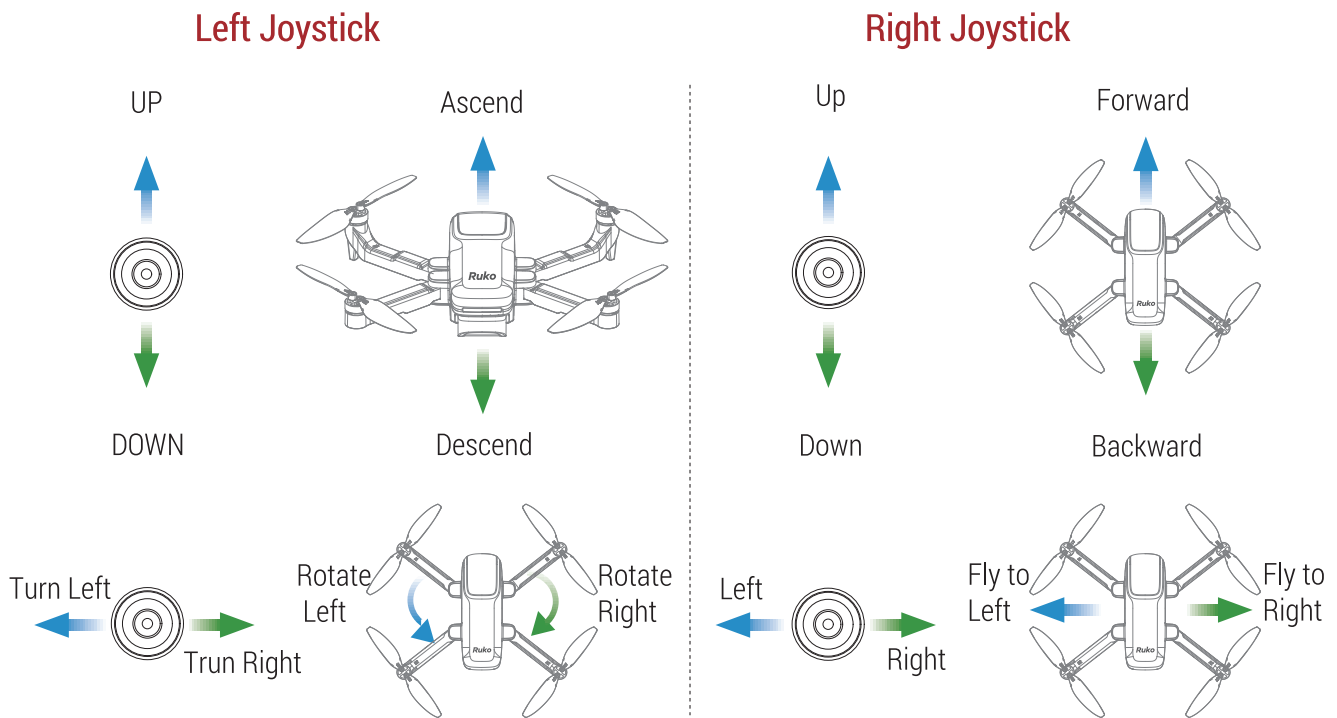
Tips: the SD card memory is 32G or less selected, and the speed rating is over Class 10.

3. Remote Control Diagram

This R/C aircraft can be dangerous when in use, please make sure you keep it far away from any persons or spectators when flying. In-correct installation, poor conditions, or users not familiar with operation may cause damage to the aircraft or injure people or may cause an unexpected accident.

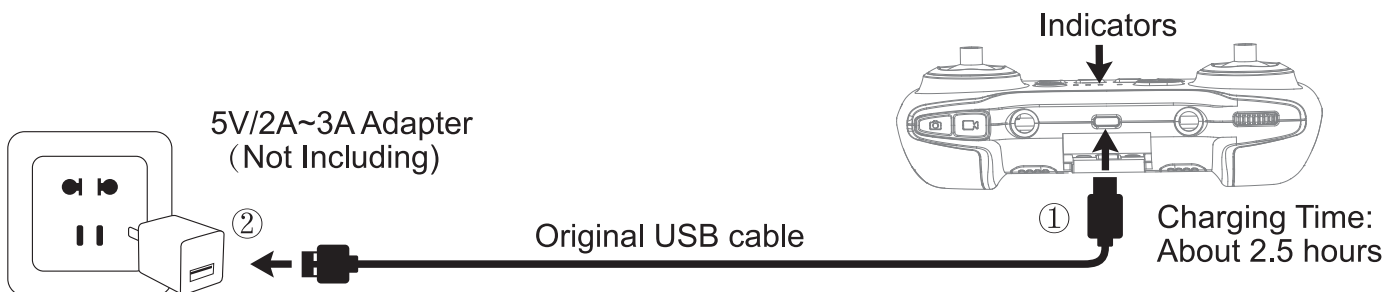


3.1 Default Setting



3.2 Charge the Remote Control

This remote control is built-in 3.7V 1200mAh lithium polymer battery.



All indicators are flashing when charging.

All indicators is off when complete charging

Tips: Refer to page 6 to get the Precautions for Charging(the same as charging of drone' s battery).

4. FLIGHT

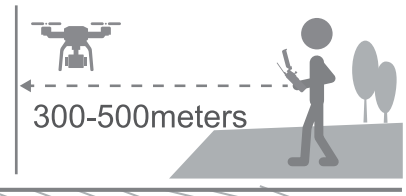
4.1 Fly Safety Guidelines

1) Wi-Fi transmission area requirements:

① Make sure to correctly open the remote control antenna.

② Make surely in the open area without any interference and obstacle.

③ Wi-Fi transmission distance is 300-500 meters.



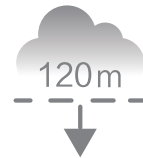
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Fly in Open Areas

Strong GPS Signal

Maintain Line of Signal

Max flight altitude height is about 120 meters.

2) DO NOT fly under obstacles, crowds, high voltage power lines, trees, tall structures and high levels of electromagnetism areas, otherwise there is no GPS signal or it may crash.



Obstacles



Crowds



Tree



Voltage power lines



Tall Structures



3) DO NOT use the drone in adverse weather conditions such as rain, snow, fog and gale.



Sunny



Windless



Snow



Rain

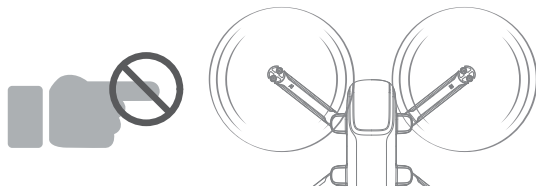


Fog



Windy





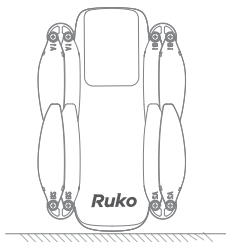
Stay away from the rotating propellers and motors.

Tips:

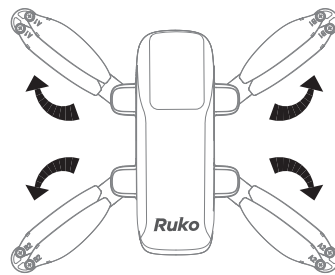
- ① Make sure to correctly open the remote control antenna.
- ② Don't forget to read the Disclaimer & Safety Guidelines before flight

4.2 How To Fly Outdoor

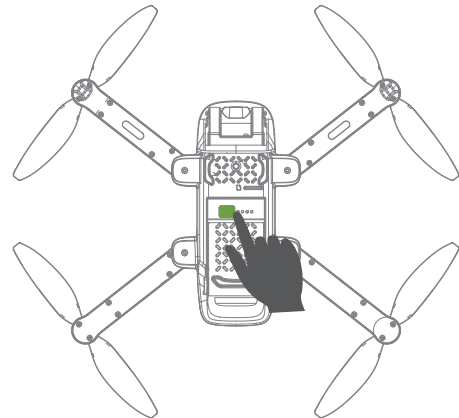
Step 1: Unfold the Drone Wings and Power on the Drone




① Horizontal Ground



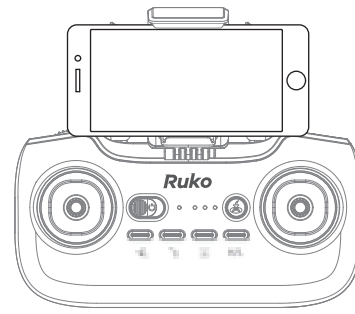
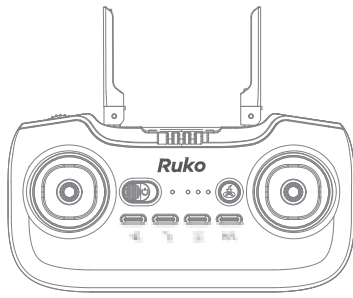
② Unfold the wings



③ Turn On the Power

- 1) Unfold the drone wings and put the drone on the horizontal ground.
- 2) Long press the power button  for 3 seconds to turn on the machine.
- 3) The front navigation light keep blinking and the rear navigation light off which means the drone is waiting for paring. When the remote control is turn on, the drone will automatically link to the remote control.

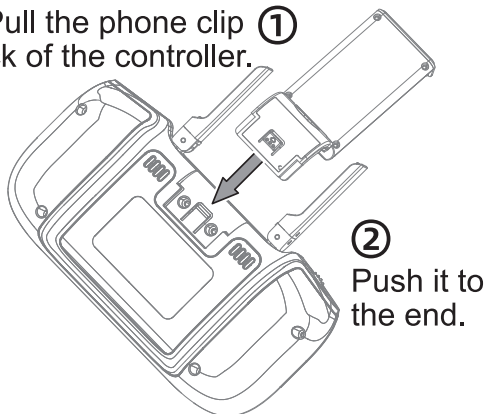
Step 2: Power On The Remote Control



- ① Unfold the remote control antenna and install mobile phone holder.
- ② Turn on the remote control power, the transmitter indicator light flashes and sounds "Beeps"
- ③ Push the left stick down to the 6 o'clock position and let go, the indicator lights of controller flash slowly.

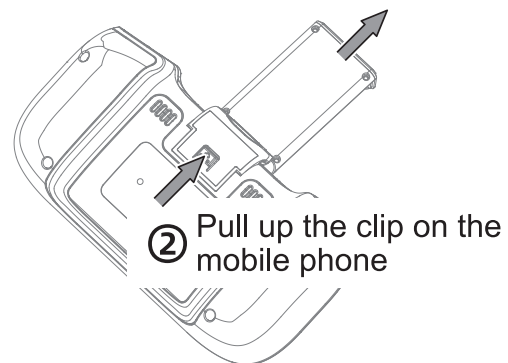
Installation

Pull the phone clip ① on the back of the controller.



Dissemble

① Press to unlock the lock



Tips:

- ① Make sure the remote control antennas unfold correctly before operation.
- ② It takes about 30 seconds for the drone to connect to the remote control

How is the pairing frequency between the remote control and the drone successful?

- 1) The red lights of the drone flash slowly and the green light solid.
- 2) The remote control will emit a "Beeps" sound.

Step 3: Connect the Wi-Fi and Enter App



**Scan the QR code
And download APP**

- 1) If you haven't downloaded the APP, please download the APP first. For how to download. For the APP, please refer to the APP function description.
- 2) Open the mobile phone Wi-Fi signal list, find and connect the Wi-Fi signal named "Ruko-U11Pro-XXXXXX".
- 3) Then you can enter the APP which is named "Ruko GPS".



Tips:

- ① The phone WLAN compatible with this drone must support dual-band Wi-Fi (2.4G & 5G).
- ② For android phones, after connecting with the drone's Wi-Fi "Ruko-U11Pro-XXXXXX" please wait for about 10-30 seconds, note if there is any option popping up about internet settings, make sure connected, otherwise, there is no picture after entering APP.
- ③ Connecting to the drone APP is to allow the drone to observe the pictures taken by the camera in real-time during the flight. There are many functions that can be used on App, such as route planning and so on.