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User Manual

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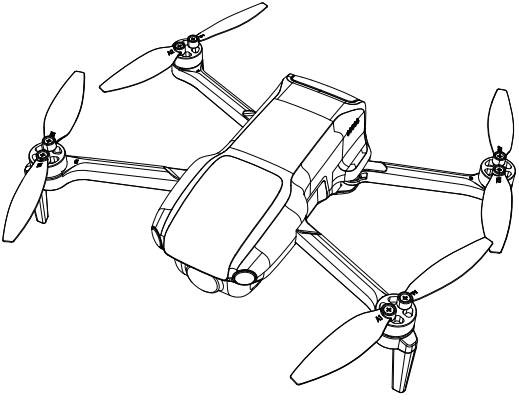

U11MINI

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1 Using This Manual

1.1 Legend

Recommend Warning Hints & Tips Reference

1.2 Recommendations

- RUKO U11MINI provides users with instructional videos and the following documents:

  1. 《User Manual》
  2. 《Quick Guide &Safety Disclaimer》

- It is recommended that users first watch the instructional video and then read the 《Quick Guide &Safety Disclaimer》 to understand the use process. Please read the 《User Manual》 for more details.

1.3 Download RUKO U11 APP

- Make sure to use RUKO U11 App during flight. Scan the QR code or Search in the Application store to download "RUKO U11".

- RUKO U11 app is compatible with Android 6.0 or above, iOS 10.0.2 or above.

(For Android) (For iOS)

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1.4 Video Tutorials

- According to the corresponding aircraft, visit the link or scan the QR code below to locate the model to watch tutorial videos or get more technical support, which how to use the aircraft safely.
  https://rukotoy.com/support

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2.Product Profile

2.1 Introduction

- U11MINI could hover and fly stably indoors and outdoors, with RTH function. The camera uses an upgraded 5GHz Wi-Fi FPV real-time transmission function, equipped with a 120°FOV lens and a 90° adjustable camera, which can stably shoot 4K HD video and 4K ultra-clear images, providing you with a broad field of vision for unforgettable moments.

2.2 Feature Highlights

- U11MINI aircraft adopts folding design, ultra-light and small body weight within 250g, easy to carry. Easy to use, you can take photos and videos with one click.

- U11MINI's leading flight control system provides agile, stable and safe flight performance. The RTH function enables the aircraft to automatically return to the return point and land even when the remote control signal is lost or the power is insufficient.

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2.3 Product List

Drone

Remote Controller

Intelligent Flight Battery

Camera Cover

Spare Propeller

USB Charging Cable

Screwdriver

Screw

User Manual

Quick Guide & Safety Disclaimer

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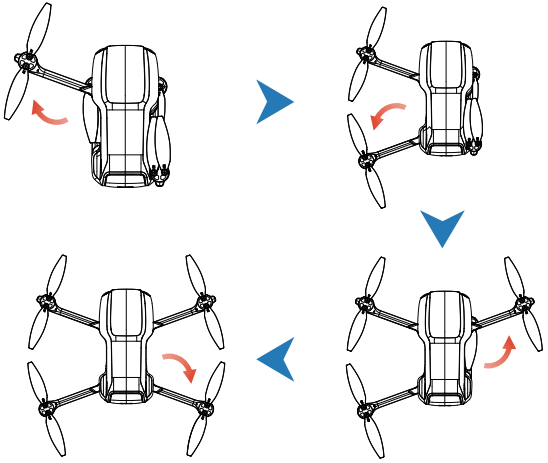
2.4 Preparing the Aircraft

- All propellers are folded before the aircraft is package. Follow the steps below to prepare the aircraft.

1. Unfold the front arms;
2. Unfold the rear arms, and then all the propellers.
3. Remove the camera cover from the aircraft's camera.



1. Unfold the front arms before unfolding the rear arms.

2. Before powering on the aircraft, ensure that the front and rear arms are extended and the aircraft is placed on the horizontal ground.

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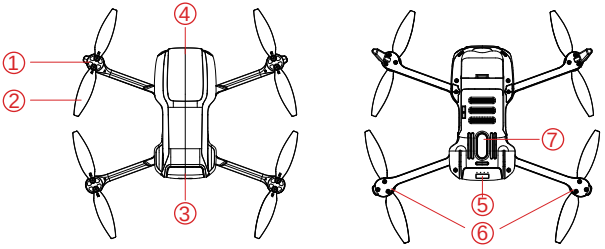
2.5 Aircraft Diagram



① Motor

② Propellers

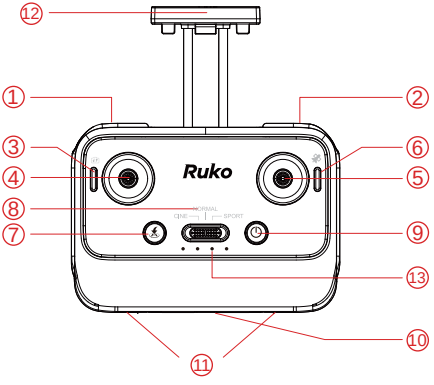
③ Battery

④ Camera

⑤ Power Button

⑥ Rear Indicator Light

⑦ Optical Flow Lens/TOF



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1.Gimbal Dial

2.Take Photo/Video
Short press once to take a picture. Long press once to start recording mode, repeat to stop recording.

3.One-touch Adjustment of the Gimbal
Press to automatically adjust to the maximum angle towards the bottom, repeat to restore the horizontal angle.

4.Left Control Joystick
(American control joystick) Use a control joystick to control aircraft movements.The left control joystick is the throttle lever, which can adjust the aircraft's altitude and nosedirection (Up/Down, Left Rotation/Right Rotation).

5.Right Control Joystick
The right stick controls the drone's flight direction (forward/backward /left/right).

6.GPS Mode/Indoor Attitude Mode
Press and hold the button for 3 seconds to turn off the GPS (GPS is on by default when the power is on, please do not turn it off when flying outdoors to avoid losing the drone). Press and hold the button again for 3 seconds to turn on GPS.

7.One Key Return
Shortly pressing, the drone automatically returns to the take-off position (due to GPS signal problems, the landing position may slightly deviate from the take-off position, the deviation range is about 9.84ft in diameter); short press once during the return to cancel the intelligent return.

8.Speed Adjustment (3 speed in total)
Left: low-speed
Middle: medium speed
Right: high speed

9.Power Switch
Long press to turn on the power, repeat to turn off

10.Charging Hole

11.Joystick Storage Hole

12.Cell Phone Holder

13.Indicator Light

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3 Aircraft

- RUKO U11MINI aircraft is mainly composed of a flight remote controller, acommunication system, a video downlink system, apropulsion system and an Intelligent Flight Battery. This section describes the functions of each section in details.

3.1 Flight Speed Mode

- RUKO U11MINI has three types of speed: low speed, medium speed and high speed, which can be adjusted by pressing the speed button to meet your different flight speed experience.

1. When wind speed is high, sport mode should be maintained to improve wind resistance effect. High speed mode is sport mode.
2. When flying in sport mode, the pilot should reserve at least 3 meters of braking distance to ensure flight safety .
3. When flying in sport mode, the power of the aircraft will be greatly improved, please reserve enough flying space to ensure the safety of the flight.

3.2 Calibration and Aircraft Status Indicator

- The U11MINI aircraft's status indicator is located under the rear arm of aircraft to indicate the current status of the flight control system.Please refer to the following table for the status of the flight control system represented by different blinking modes.

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	Blinking status of the indicator		Conditions
Aircraft		The red light blinks twice at short intervals	The remote controller and the drone are starting to match.
		Slow flash	Once the match is successful, search the GPS signal.
		Slow flash	Drone low battery
		Stay on	Complete GPS signal search
		Green light out	Start compass calibration.
		Stay on	Indoor attitude model
		Quick flashing	Start gyroscope calibration.
Remote Controller	● ○ ○ ○	Flash	GPS search in progress
		Stay on	Star search successful. Clear for takeoff
		Extinguish	Turn off GPS and enter attitude mode
	● ● ● ●	Often lit or one by one off	Display remote control battery level
	● ● ● ●	Flash quickly together	The remote controller and the drone are starting to match.
	● ● ● ●	Blue light blinking + green steady on	Frequency success, star search phase
	● ● ● ●	Three green lights flashing slowly together	Drone low battery
	● ● ● ●	Three green lights flash in turn	The drone is returning
	● ● ● ●	Blue light and three green lights flash in turn	The remote controller is charging

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3.3 Return to Home

- The U11MINI aircraft has an automatic return-to-home function in GPS mode, making the aircraft return to the take-off point. The Return to Home (RTH) function brings the aircraft back to the last recorded home point.There are three types of RTH: Smart RTH, Low Battery RTH, and Signal Disconnection RTH. If you activate the RTH function under the condition that the aircraft successfully recorded the home point and GPS signal is good, the aircraft will automatically return to the home point and land.

	GPS	Description
		When flying outdoors, the GPS signal icon is displayed with 3 bars or more for the first time, and the take-off location will record the aircraft's current position as the Home Point. During the flight, if the aircraft lands at a new location, the point from which it retook off will become the latest home point, and the aircraft will return to the latest home point.

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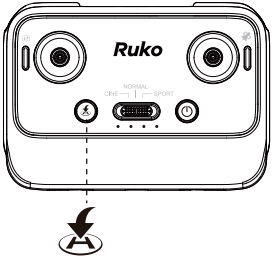
Smart RTH



Return

During the flight, press the " " button, the remote control will make a "di" sound, and the aircraft will return to the take-off point automatically. During the return flight, the power indicator of the remote control will flash cyclically.

Stop return

To stop the return flight, just press this button again.

1. When the pilot needs the aircraft to return home automatically, you can click the smart RTH button( ) on remote controller or tap the return icon( ) on the APP interface to start RTH.

2. During the return process,the user can operate the aircraft to ascend, descend, forward, backward, fly to the left or right to avoid obstacles.

3. During the return home, short press the smart return button on the remote controller or click the return icon ( ) on the U11MINI interface again to exit the return home.

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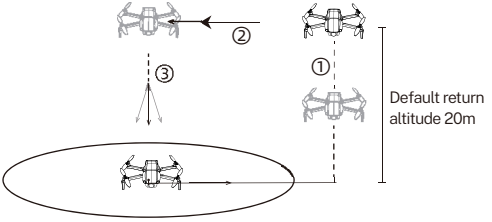
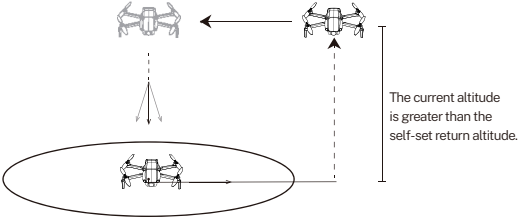
Note:

- If the flight altitude is below 65 feet (20 meters), the aircraft will automatically ascend to the default return altitude of 65 feet (20 meters) before returning home When the return altitude is not set.

- 65ft (20m) is the default return height. The return height range that can be set in the APP is 10-120 meters.



- If the flight height of the drone is lower than the set flight height, the drone will rise to the set flight height and then return to the take-off point. If the height of the drone exceeds the set flight height, it will return to the take-off point from the existing height.



- The drone is not equipped with an obstacle avoidance function. During the flight, please judge the flight situation reasonably, avoid obstacles in time, and set the corresponding flight and return height according to the flight environment.

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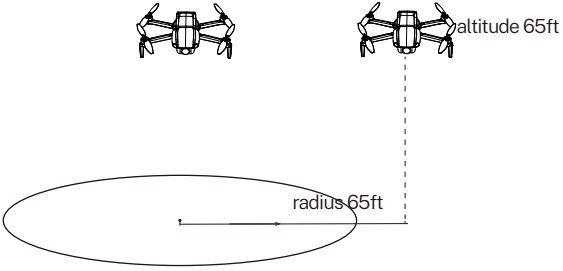
Low Battery RTH

- When the intelligent flight battery is too low or there is not enough power to return home,the user should land the aircraft as soon as possible to avoid aircraft damage or other dangers.

- In order to prevent unnecessary dangers due to insufficient battery power, when the aircraft battery power is low, the low battery return home function will be automatically triggered. According to the remaining power after returning, there are 2 situations after returning:

1. First-level low battery: the aircraft returns to the point 98 feet (30 meters) above the take off point and hover. After hovering, you can continue flying the aircraft at a height of 98 feet 30 meters) and within a radius of 98 feet (30 meters).



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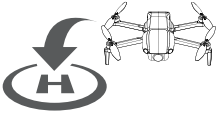
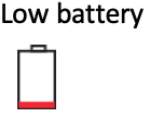
2. Second-level low battery: the aircraft will fly directly from the current altitude to the point above the Home Point and then descend to the ground.





- Must pay attention to the flight altitude when the battery is low. Avoid hitting obstacles due to the low flying altitude when returning home with the second-level low battery.
- The remaining power after returning is related to the return distance, wind speed, and wind direction.

Lost Signal RTH

- When the remote controller has low battery or is turned off or loses signal for 10 seconds, the aircraft will enter the auto-return mode and return to the take-off point. If the signal is recovered during the return home process, you can press the return button to cancel the return, and the remote control can control the aircraft again at this time.

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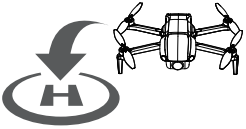
Automatically Return to Home:

1. Aircraft stores its position when taking off after the GPS signal is successfully received,and records it as the home point.

2. Loss of signal will trigger RTH 10 seconds later. (triggered by low battery of remote controller, signal loss, etc.).

3. After triggering the Return-to-Home function, the aircraft adjusts the nose direction and starts to return home.

4. The aircraft automatically flies over the home point, then starts to land, and completes the home return.



Note:

- When out of control, the aircraft cannot avoid obstacles.
- When the GPS signal is weak, the aircraft cannot return to home automatically

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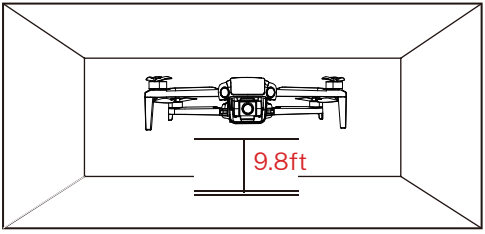
3.4 Optical Flow Positioning /TOF (Indoor Attitude Mode)

- The underside of the aircraft is equipped with a downlook optical flow system and a TOF altitude sensor, which allows the aircraft to better adapt to its environment.

- The downlook optical flow system, consisting of downlook vision camera sensors, enables the drone to hover stably at low altitude in indoor attitude mode without GPS.



Note:

1. The optical flow vision system can only assist flight when the surrounding environment is well lit and rich in texture,can not completely replace the user's judgement, please pay attention to the aircraft situation and APP tips, do not over-rely on optical flow vision system.

2. Optical flow vision system in the environment light is too bright, too dark, mirror, solid colour smooth ground, water,poor or ineffective effect in scenes such as reflective surfaces and sparsely textured surfaces.

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3. The optimal working range of the optical flow vision system is below 0.5-3 meters, beyond the range, the positioning of the optical flow vision system may be poor, please fly carefully.

4. Please make sure that the optical flow vision system lens is clear, and do not block or interfere with the optical flow vision system.

5. The optical flow vision system can only be used in the attitude mode, and the GPS fixed point mode can be used after the drone successfully searches the GPS signal in the outdoor GPS mode.

- If the GPS signal is weak and you are flying indoors, you will need to manually turn off the GPS and switch to the indoor attitude mode before take-off.

- Once GPS is turned off, the drone will not be able to return automatically, and the smart flight feature will not be used.

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3.5 Intelligent Flight Mode

- U11MINI has 5 intelligent flight modes to meet the user's shooting needs: Route Rules,GPS Follow, Point of Interest,Ges Quickshot/Ges Record and Image Follow. According to the user's shooting needs, the operation can be completed by one click, which is simple and fast.

- Route Rules: In this mode, aircraft flies along paths marked with way points.

- GPS Follow: In this mode, the aircraft will lock on to the user and automatically follow the operator's movement trajectory to capture and shoot.

- Point of Interest: In this mode, the aircraft is centered on the location set on the app, flying around at a specific distance to shoot.

- Ges Quickshot/Ges Record： The aircraft takes pictures or videos according to the steering instructions of different gestures.

- Image Follow:Image Follow function enables the drone to follow the object's in circle movement to rotate.

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Route Rules

1. Ensure that you have downloaded the RUKO U11 APP on your phone;
2. Connect the phone with the remote control via the data cable and open the APP.
3. After the aircraft takes off, in GPS mode, tap the icon( );
4. Mark interested of points (up to 16) which you plan to fly on app map's within red circle (limited flight range).
5. Tap "Delete Single Point" or "Delete All" to reset the marked point.
6. Make sure the marks are correct, click "Send", The aircraft will start waypoint flight.

   Note: Push right joystick to cancel waypoint flight function.

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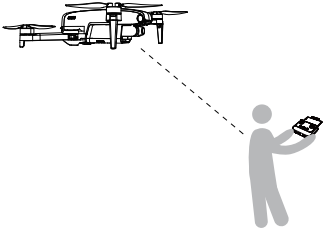
GPS Follow

1. Ensure that you have downloaded the RUKO U11 APP on your phone;
2. Turn on the smartphone’ s GPS location; connect the phone with the remote control via the data cable and open the APP;
3. After the aircraft takes off, the best effect is to ensure that the flight range is within 10-50 meters in an open environment with good GPS signal;
4. Tap the ( )icon on the app interface to start the ( ) mode.
5. "GPS Follow"( )will be displayed on the app interface and try to fly. The aircraft will track your movements to fly.
6. Tap the icon on the app interface again to exit the GPS Follow mode.



- The GPS Follow function only works when the GPS signal is strong. Please avoid high buildings, trees, and areas where Wi-Fi signal might be interfered.
- Aircraft is not equipped with obstacle avoidance function. Please use it in open areas free of obstacles.

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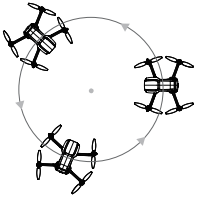
Point of Interest



1. Ensure that you have downloaded the RUKO U11 APP on your phone;
2. Turn on the smartphone’ s GPS location; connect the phone with the remote control via the data cable and open the APP;
3. Launch the aircraft and make it hover around the target center point.Fly to the target point where you want the aircraft to fly around.
4. Tap the ( ) icon on the app to activate Fly Around mode.
5. Move the right rocker forward and backward to set the radius of the drone to fly (within 5-50 meters);
6. The aircraft begins to orbit according to the radius set in step 5.
7. Tap the icon on the app interface again to exit the Point of Interest.

- The default minimum surround mode radius is 16 feet (5m).
- Move the right direction bar left and right to adjust the circling speed and direction.

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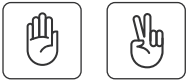
Ges Quickshot/Ges Record



1. Ensure that you have downloaded the RUKO U11 APP on your phone; Turn on the smartphone’s GPS location; connect the phone with the remote control via the data cable and open the APP;

2. After the drone takes off, use it in GPS mode;

3. Open the APP, tap the Multi-function icon on the APP interface, and tap the ( )icon. In this mode, raise the right hand and pose( ) at the same height of the shoulder to take photos;

4. Tap the ( )icon. In this mode, raise your right hand and show your palm at the same height of the shoulder to open the recording mode.

- Use in a well-lit environment. Tap the icon again to exit Ges Quickshot/Ges Record mode.
- Ges Quickshot/Ges Record mode can only be activated with the right hand.

Image Follow

1. Launch aircraft and ensure flight height is higher than the nearby obstructions, access to the app CONTROL interface.

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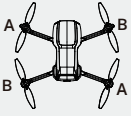
2. Click( ) , slide to start and tap on the object or person plans to track, tap to confirm the selection, drone rotates following the object's in circle movement.

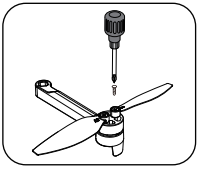
   Note: Make sure the size of the frame isn't too large, so as to ensure the recognization is acheiveable.

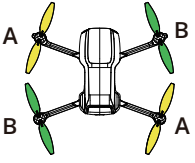
3.6 Propeller

- The adjacent propellers on the motors of the U11MINI are forward and reverse propellers. The two propellers on the same motor are the same, and the propellers are marked with A and B respectively.

- The rotation directions of the propellers with the same mark are the same.

Propellers	Mark A	Mark B
		
Installation location	Installed to the motor with A mark on the arm	Installed to the motor with B mark on the arm





Installation location

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Attaching the Propellers

- Taking the camera direction as the front, the left front arm and right rear arm must be equipped with propellers marked with A; the right front arm and left rear arm must be equipped with propellers marked with B. Use a screwdriver to install and make sure the screws are tightened.

Detaching the Propellers

- Use the screwdriver to detach the propellers from the motors.

- Please use the propellers provided by Ruko, and do not mix propellers of different types.
- Please check whether the propeller is installed correctly and tightly before each flight.
- Before each flight, please check to make sure that the propellers are in good condition.

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3.7 Intelligent Flight Battery

- The U11MINI intelligent flight battery has a capacity of 2200mAh, a rated voltage of 7.6V, and with charge and discharge management functions. This battery uses high-energy and large-capacity batteries to increase the flight time of the aircraft.

Battery Features

1. Balance Protection: Automatically balance the internal battery cell voltage to protect the battery.

2. Overcharge Protection: Overcharge will seriously damage the battery. When the battery is full, remove the charger device in time.

3. Over-discharge Protection: Over-discharge will seriously damage the battery. When the battery is not used for flight, the battery will automatically discharge to protect the battery life.

4. Short Circuit Protection: When the battery detects a short circuit, the output will be cut off to protect the battery.

5. Easy Charging: No need for a dedicated power adapter, just Android charger and USB charging head.

- Please read carefully and strictly abide by Ruko's Requirements in this User Manual, Quick Guide & Safety Disclaimer, and stickers on the battery surface before using the battery. The user shall bear the consequences caused by failure to use it as required.

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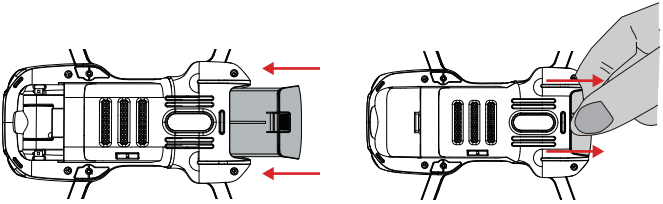
Using the Battery



- Install the intelligent flight battery into the battery compartment and push it down until you hear a "click" from the battery buckle, indicating that it pops up and locks. Make sure the battery is in place.

- To remove the battery, press the buckles on both sides of the battery and pull it out of the battery compartment.

- Do not install the battery into the aircraft or remove the battery from the aircraft when the battery power is turned on. Otherwise, the poor contact of the battery interface during the operation may cause the battery to short-circuit and burn the aircraft.

- The battery must be installed or removed with the battery power turned off.

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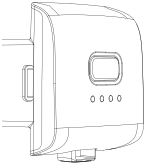
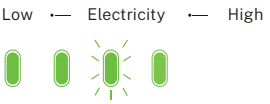
Checking Battery Power

- Turn on the power and check the current battery.





Powering On

- Press and hold the power button, after the indicator light turns on to the fourth, release the power button to check the current battery power.

Powering Off

- Press and hold the power button until all lights are off and release the power button. After closing, the indicators are off.

Low Temperature Notice

1. When using the battery in a low-temperature environment(0℃-5℃), make sure that the battery is fully charged. The discharge capacity of the battery will be reduced when working in a low-temperature environment.

2. In a low-temperature environment, due to the battery output power limitation, the aircraft's wind resistance and flight performance will be reduced. Please be careful.

3. You need to be extra cautious when flying in low-temperature and high-altitude environments.

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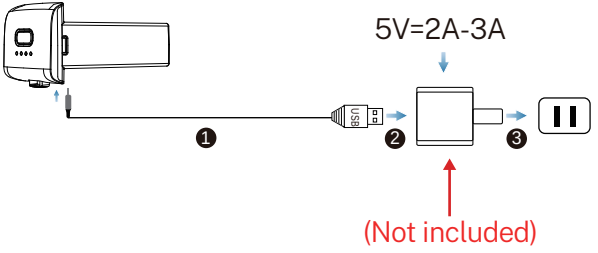
Charging the Battery

- Before using the intelligent flight battery, be sure to fully charge it.

1. Please use a 5V/2A or 5V/3A USB charging plug.
2. In the charging state, the battery power indicator will flash and indicate the current charge level; when the fourth indicator light is always on, it indicates that the charging is complete.
3. After charging is complete, please remove the charger in time.



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Daily Preservation Advice:

1. It is recommended to charge and discharge it once a month, do not store with a full charge, keep 50%-60% of the power, the storage temperature is 50°F-104°F(10°C-40°C), and the best storage temperature is 66.2°F-69.8°F(19°C-21°C).

2. If water enters the battery and the battery protection board fails,the battery cannot be used normally. Do not use the battery in rain or in a humid environment, as this may cause the battery to self-ignite or even explode.

3. If the battery is squeezed, deformed and dropped from a high altitude, it is forbidden to use it again.

4. Prolonged exposure to high temperatures is forbidden. High temperatures will cause the internal pressure of the battery to become too high and cause an explosion.

5. The positive and negative poles are short-circuited for a long time (such as the battery contacts have water, short-circuit caused by hair or foreign objects, etc.). If it exceeds 30 minutes, the protection board IC will fail and disconnect, and the battery cannot be used normally.

6. It is forbidden to use fast chargers that exceed the battery's rated power for charging.It is recommended to use a 5V/2A or 5V/3A charger.

7. If the aircraft has not been used for a month, the battery must be removed to prevent the battery from being discharged for a long time.

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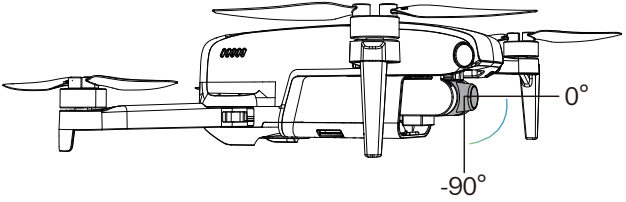
3.8 Camera Overview

- The camera uses an upgraded 5GHz Wi-Fi FPV real-time transmission function, equipped with a 120°FOV lens and a 90°adjustable camera, which can stably shoot 4K HD video and 4K ultra-clear images, providing you with a broad field of vision for unforgettable moments.



Storing Photos and Videos

- U11MINI is equipped with a micro SD card slot for storage space expansion.

  1.Card speed: 10M/s.
  2.File format: support FAT32 format.
  3.Memory capacity: a memory card with a memory capacity of 64G or less.

- The mobile phone and the memory card store photos and videos at the same time. If you want clearer videos, please download the video file on the memory card.

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Devices	Storage Method		Resolution	Frame Rate
U11MINI	App	Picture	3840×2160P	/
		Video	1280X720P	20fps
	SD card	Picture	3840×2160P	/
		Video	3840×2160P	20fps
			2976×1680P	30fps

1. Check whether the capacity of the memory card is sufficient. If the capacity of the memory card is insufficient, videos and pictures cannot be stored.

2. If you cannot save pictures or videos, try formatting the memory card.

3. After the memory card is installed, the photo and video files will be stored in the memory card, and the photos and videos will not be stored on the mobile phone.

4. You must turn on the aircraft and connect APP to copy or download the photos or videos stored in the aircraft memory card to the phone.

5. Please turn off the aircraft correctly, otherwise the camera parameters will not be saved and the video being recorded will be damaged. Ruko is not responsible for any damage caused by the inability to read videos and photos.

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4 Remote Controller

4.1 Remote Controller Profile

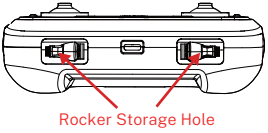
- U11MINI remote controller uses the 5 GHz frequency band, and the remote controller distance is up to 9842FT (unobstructed and interference-free environment). The folding handle can stably place the mobile phone, and the maximum adjustable width is 6.7 inches.

- Remote controller built-in 3000mAh capacity battery, charging time is 4 hours, the longest working time is about 3.3 hours.

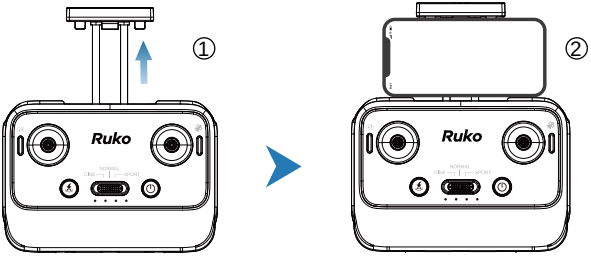
4.2 Using the Remote Controller

Install rocker

- When leaving the factory, the rocker is placed in the packaging bag of the product. When using, the rocker should be installed on the remote control as shown below.



- Unfold the phone clip and install the phone.



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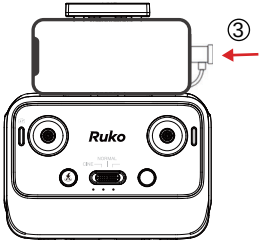
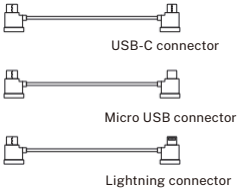
- Connect the phone with remote control via data cable.





- Note: Equipped with 3 different models of data cable, please choose the data cable suitable for your phone to connect.

  Please correctly set the USB Settings option that pops up. Select "Transterring tiles" for Android phones, and "Trust" for iPhones. Some USB Settings of Android phones are hidden in the “Developer options” , you need to change the "Default USB configuration" to" Transferring files" after opening the developer mode.

Powering On/Off

- Turn on the remote control: Press the power button for 3 seconds to turn it on.

- Turn off the remote control: Press the power button for another 3 seconds to turn it off.

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Charging the Controller Battery

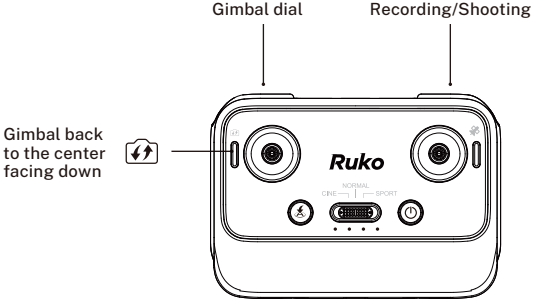
- Connect the remote controller Micro USB interface to the charger for charging. Do not use a fast charger that exceeds the rated power. A 5V/2A or 5V/3A charger is recommended.

  1. Charging: The four lights flash in turn.
  2. Charging is completed: 4 indicators are on.

Controlling the Camera

1. Photo/Video Button:
   Tap once to take a picture.
   Press and hold 3 seconds to start/stop recording.

2. Gimbal adjustment:
   Turn the gimbal dial to adjust the Angle.
   Quick down or up with one click.



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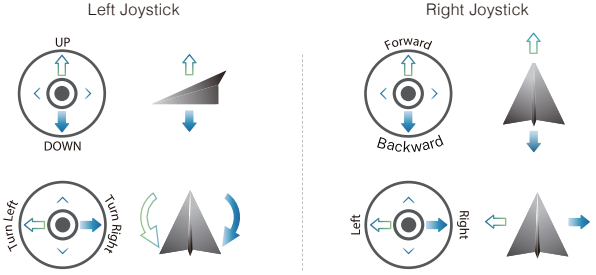
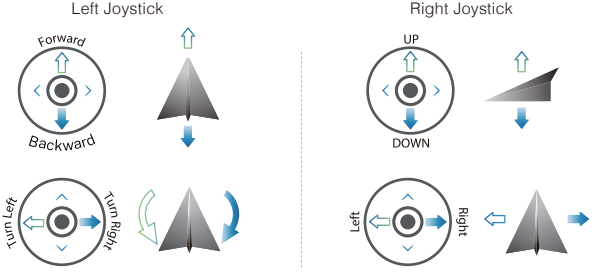
Joystick Control Aircraft

- The control method of the remote controller joystick is as follows: American hand's control（Mode 2）

American hand's control (Mode2)



- Switching to Japanese Hand's Control Stick:
  1.Turn on the aircraft.
  2. Press and hold the record button to turn on the power of the remote controller.



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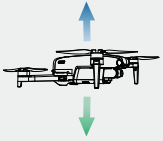
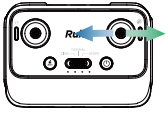
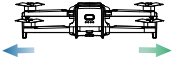
Remote Controller (American hand's control)	Aircraft Direction	Remarks
		Push up/pull down the throttle rocker to control the aircraft up and down. Push the lever up to raise the aircraft. Pull down the lever to lower the aircraft. When released, the joystick is in the middle position and the aircraft remains hovering. When the aircraft takes off, the throttle lever must be pushed upward, and the aircraft will leave the ground and take off (please push the lever slowly to prevent the aircraft from suddenly and rapidly going up).
		Push the throttle lever left/right to control the aircraft's heading. Push the stick to the left, the aircraft rotates counterclockwise. Push the lever to the right, the aircraft rotates clockwise. The rotation angular speed is zero at neutral position, and the aircraft does not rotate. The amount of rocker offset corresponds to the angular speed of flight rotation, the larger the offset, the larger the angular speed of rotation.
		Push up/pull down the directional stick to control the forward and backward flight of the aircraft. Push up the stick to tilt the aircraft forward and fly forward. Pull down the stick, the aircraft tilts backward and flies backward. In neutral position, the forward and backward direction of the aircraft remains horizontal. The amount of rocker offset corresponds to the angle of tilt back and forth, the larger the offset, the larger the angle of tilt, and the faster the flight speed.
		Push left / push right directional stick is used to control the flying machine to fly left and right. Push the stick to the left, the aircraft tilts to the left and flies to the left. When the stick is pushed to the right, the aircraft tilts to the right and flies to the right. In neutral position, the left and right direction of the aircraft remains horizontal. The stick offset corresponds to the angle of the left and right tilt of the aircraft, the larger the offset, the larger the tilt angle, and the faster the flight speed.

- Note: The forward direction of the aircraft is based on the direction of the nose.

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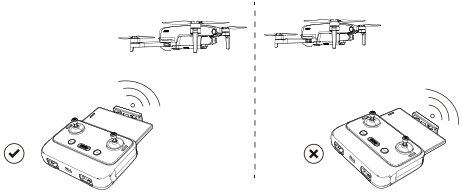
Smart RTH Button

- Tap the smart RTH button on the remote controller, and the aircraft will activate the automatic return function. Tap it again to exit the smart return . The aircraft is hovering in the mid-air of the return. At this time, you can operate the joystick to control the aircraft.

4.3 Communication Range of remote controller

- When controlling the aircraft, the position and distance between the remote controller and the aircraft should be adjusted in time, and the antenna position should be adjusted to ensure that the aircraft is always within the best communication range.



- Install the mobile phone into the remote controller bracket, refer to the aircraft flight direction of the Attitude Indicator in the app, and the attitude Indicator points straight ahead (perpendicular to the coordinates), indicating that the remote controller is facing the aircraft.

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4.4 Matching the remote controller

- Each time drone flights, it needs to be matched with the remote control. The flight of the drone can be controlled only after the frequency pairing is successful. The steps for the pairing are as follows:

  1.Turn on aircraft.

  2.Turn on remote controller.

  3.The drone and remote control will automatically complete the frequency pair, and the frequency alignment time is about 50 seconds.

  4.Connect the mobile phone with the remote control to enter the APP control interface; The phone displays information such as the power signal of the remote control and the camera screen indicates that the frequency is successfully matched.

- The remote controller pairs with aircraft successfully :
  1.The drone lights will change from red to green,
  2.The green light of the remote control changes from blinking to steady on.

- The drone and the remote control will automatically connect, the connection time is about 50 seconds. Please check the remote control power before each flight. The remote control will sound a tone when the battery is low.
- The remote control will automatically shut down after being idle for 10 minutes, and the remote control can be restored to normal working state by flipping the joystick or pressing any key.
- When using the remote control handle to grip the mobile device, be sure to press tightly to avoid the mobile device slipping.
- Keep the battery at around 3.8-3.9V, and recharge it every month or so to keep the battery active.

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5 RUKO U11 App

5.1 Home

- After running RUKO U11 App, enter the homepage.

Control

- Operate the aircraft through the app page buttons to realize the functions of the aircraft.

Guide

- Click to view the Help manual, Instructions videos and Quick start.

Feedback

- Click to call customer support.

Support

- Click to access technical support, after-sales service.

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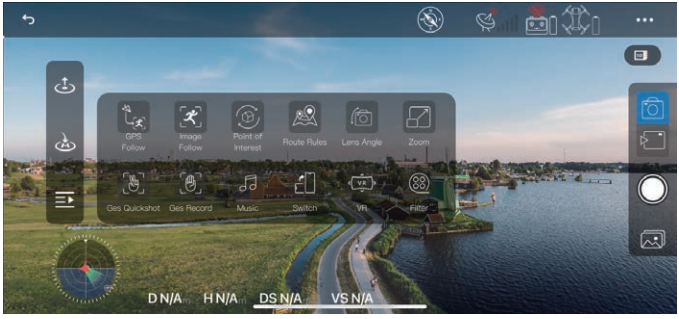
5.2 Control interface



	Back		GPS Status
	Controller Battery Level		Aircraft Battery Level
	Auto Takeoff/Landing		Return to home
	Shutter		Photo/video
	Photo Album		
	Compass Interference Value		A higher value indicates greater ambient interference . Reaching 200 will prompt compass calibration, and reaching 400 will force entry into compass calibration
	D 0.0m H 0.0m DS 0.0m/s VS 0.0m/s		D : Distance H : Height DS : flight speed VS : ascent and descent speed
	1 . SD card capacity display 2 . Format : Click to format when the memory card is loaded and cannot be recognized or save files		

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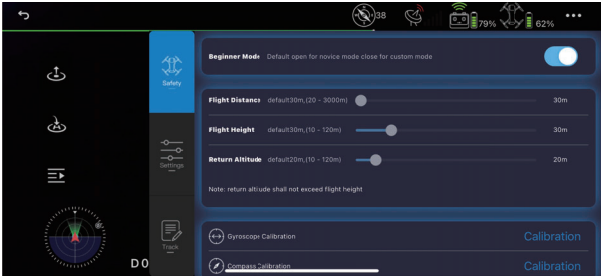
Attitude Indicator

- Display information of the orientation of the aircraft, and position of the remote controller.

Safety



- Beginner Mode : In this mode, the aircraft’ s farthest flight distance and altitude is 98ft so that the aircraft can fly more safely within sight.

- Flight Distance: Set the longest distance to fly.

- Flight Height : Set the maximum flight height.

- Gyroscope Calibration： When the drone is unstable, it can be placed horizontally to re-calibrate.

- Compass Calibration： Calibrate the compass first when flying in a new location or complex environment.

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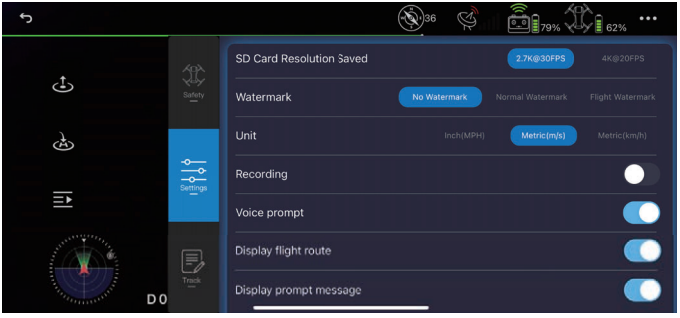
Settings



1. SD Card Resolution Saved: Set the smooth mode or default mode.

2. Watermark; Choose from 2 kinds of watermarks.

3. Unit: Switch between metric and imperial units of measurement.

4. Recording: When recording a video, you can record the sound into the video.

5. Voice prompt: Voice prompts the status of the drone when the APP is opened or closed.

6. Display prompt message: Switch on or off the prompt bar.

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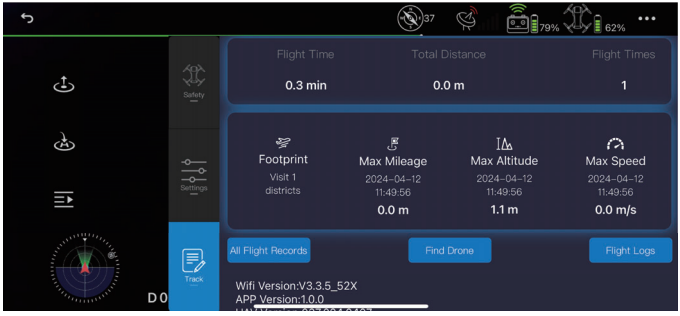
Track



- Flight records;
- All Flight Records: The date, location, distance, duration and maximum altitude of each flight.
- Find Drone: It shows the last position of the aircraft when it lost the image transmission signal. Open the map to find the position where the aircraft is disconnected from the App.
- Flight Logs: You can export the flight log data.
- Drone information display: APP version, Wi-Fi version, ID number.

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- Before using the RUKO U11 app, please correctly enable the required permissions for the app:
- Allow RUKO U11MINI to get your location. Otherwise, the following functions cannot be realized.
- Allow RUKO U11MINI to connect to the mobile phone on the local network, otherwise you will not be able to see the aircraft image transmission screen.
- Allow RUKO U11MINI to access to albums, recordings and other permissions.
- When using the RUKO U11 app on your phone, please keep your phone running smoothly and close other background software that you do not use.
- The map used in the map interface needs to be downloaded from the Internet. Before using

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6 Flight

- After the installation preparation is complete, please conduct flight training or training first. It is recommended to conduct training in the beginner mode. Please choose a suitable flight environment when flying. The flying altitude is limited to 393ft, and the local laws and regulations must be strictly observed during flight. Please be sure to read the U11MINI Disclaimer and Safety Summary, and understand the safety precautions before flying.

6.1 Flight Environment Requirements

1. Do not fly in severe weather such as strong wind, snow, rain, and fog.

2. Choose an open place with no obstructions around as the flying field. The compass and GPS signals on the Aircraft will be interfered by buildings, mountains, and trees. It is recommended to fly in an open space with a diameter of 32 ft without interference. It is recommended that the flight altitude be greater than 49 ft to avoid ground obstacles and other signal interference from the ground.

3. When flying, keep in sight and control, and stay away from obstacles, crowds, etc. When flying on the water surface, please be more than 9 ft above the water surface.

4. The Transmitter may be interfered by high-voltage lines, communication base stations or transmission towers. Please fly away from these areas.

5. Please fly below 6561 ft above sea level to ensure that the Air pressure setting function of the Aircraft can work normally.

6. When GPS is active, the Aircraft can achieve stable hovering, intelligent return to home, and intelligent flight functions. When the GPS function fails, these functions cannot be implemented. The Aircraft will be unable to hover, drifting away in the direction of the wind.

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6.2 Pre-Flight Checklist

1. Whether the remote controller, intelligent flight battery, and mobile device are fully charged.

2. Make sure that the aircraft arms are fully extended. Make sure that the battery compartment cover is fastened firmly and the intelligent flight battery is installed firmly.

3. Ensure that the propeller is free from damage, aging, deformation, no foreign matter entanglement, and secure installation.

4. Please make sure that GPS is turned on to avoid that it would be lost, please fly outdoor in an open place.

5. Whether the 4 motors can start normally after power-on, and whether the rotation speeds are consistent.

6. Ensure that the data cable between the mobile phone and the remote control is firmly installed and successfully connected.

7. Make sure the camera is clean.

8. If you need to replace parts, be sure to use original parts. The use of non-original accessories may cause danger to the safe use of the Aircraft.

9. For details on accessory support, please refer to the accessory support page in the appendix of the user manual.

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6.3 Pairing

- Match the aircraft with the transmitter and mobile phone

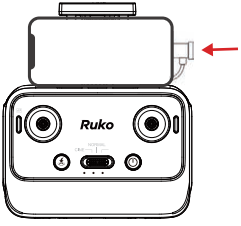
  1.Long press the power button of aircraft, the motor light will be on and you will hear a power-on sound, indicating that the aircraft has been turned on;

  2.Long press the transmitter power button once to turn on the Transmitter switch;

  3.The light of the remote control turns from flashing to steady on and emits' drop; ', indicates that the frequency is successfully matched.

6.4 Connection&Settings

1. Connect the phone with the remote control via data cable and then set up.



2.Tap the APP, the first time to use the interface will pop up the permission setting.

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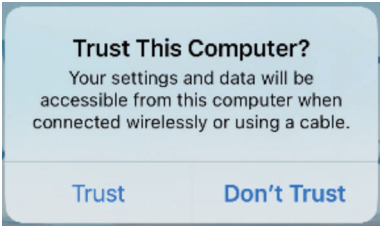
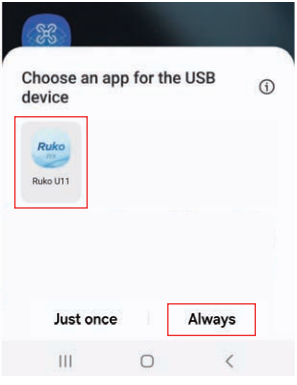
Please allow the following permissions

1.mobile phone location rights
2.network rights
3.recording rights
4.album access rights

IPhone Settings



Android phone USB Settings



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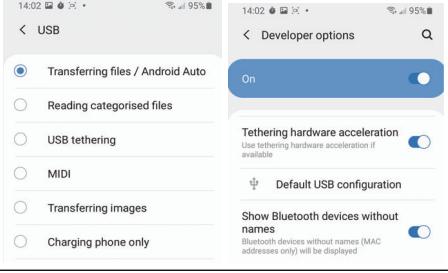
3. When you enter the operation interface and see the image transmission screen of the drone, the connection is successful.

1. When connecting the data cable, ensure that the plug of the data cable is in place.

2. For some mobile phones, due to the reasons of the phone case, the plug of the data cable is not installed in place, resulting in data transmission failure, poor contact, and no way to see the transmitted image.

3. Please set the permissions required by the APP correctly to avoid the inability to preview the image

4. USB Settings on some Android phones are hidden in the "Developer options", you need to change the "Default USB configuration" to "Transferring files" after opening the developer mode.
(The way to open "Developer options" varies depending on the phone model. You can search Google for details.)



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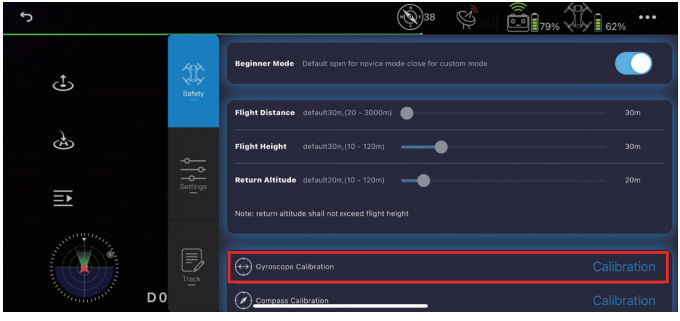
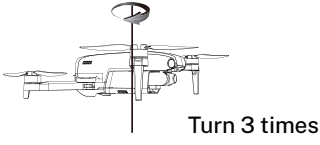
6.5 Calibration before flight

Calibrate the compass

- When the drone flies in a complex environment or when the magnetic field interference exceeds the set value, it is necessary to calibrate the compass.



1. Push the left and right joysticks to the "11 o'clock" and "1 o'clock" hold for 2 seconds (as shown in picture 1)or tap “Compass calibration” on the APP calibration interface (as shown in picture 2) to turn off the green light of the drone and enter the calibration step;



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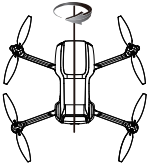
2. At this time, you need to follow the prompts to pick up the Aircraft at a distance of 3.28 ft from the ground and rotate the Aircraft horizontally for 3 laps until the app interface prompts to enter the vertical calibration.

3. Pick up the Aircraft at a distance of 3.28 ft from the ground, and rotate the Aircraft 3 laps vertically with the camera facing upwards until the prompt of vertical calibration on the app interface disappears. After the compass calibration is completed, place the Aircraft on a level ground. At this time, the three lights of the drone flash in turn.



Turn 3 times

- Before the flight, pay attention to the compass interference value on the APP. ( )When the interference value is close to 120, we can manually calibrate the compass, or change the environment to fly. When the interference value exceeds 180, the drone will automatically enter the compass calibration.

- When the Aircraft is flying in a circle or out of control in a complex environment, the aircraft compass calibration is not standard or interfered. Please land the Aircraft manually in time to manually calibrate the Aircraft (refer to the first step of calibrating the compass).

- When calibrating the Aircraft, please open the arm and keep the aircraft 1 meter above the ground to avoid the influence of the magnetic field of the motor.

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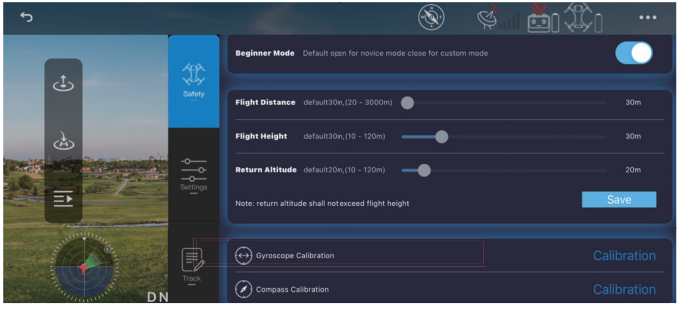
6.6 Calibrate the gyroscope

Calibrate the gyroscope

1. Make sure that the Aircraft is placed on a level ground.

2. It can be calibrated by gyroscope calibration function of APP.



- Or push the right joystick of the remote control to the "5 clock" position for calibration.

3. The rear light flashes quickly, and the drone enters horizontal automatic calibration

4. The light changes back to the original light state, indicating that the calibration is complete

5. "Fly" is displayed in the app, and you can now prepare to take off.

- When the Aircraft's flight state is tilted and unstable, please land the Aircraft on a level ground for gyroscope/horizontal calibration.
- When the tilt Angle of the fuselage is greater than 10°, the horizontal correction cannot be performed.

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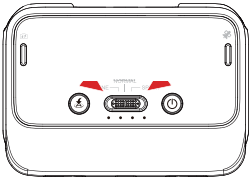
6.7 Starting/Stopping the Motors

Starting the Motors

- Push the joysticks into 5 & 7’ o clock positions to start the motor. After the motor starts, please release the rocker immediately.



- Stopping the Motors
  After the motor starts rotating, there are two ways to stop:

- Method 1: After the Aircraft takes off, push the throttle stick to the lowest position and operate the Aircraft to land until the motor stops, then release the joystick.

- Method 2: When the flight is not taking off, Push the joysticks into 5 & 7’ o clock position to stop the motor. After the motor is turned off, please release the joystick immediately.

- When manually landing the aircraft, continue to pull down the remote control throttle lever, landing 1.6 ft（0.5 meters) will stop, confirm the landing continue to pull down the throttle lever, the drone will land and stop the motor.

- Please choose the flat surface to landing.

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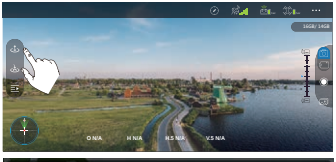
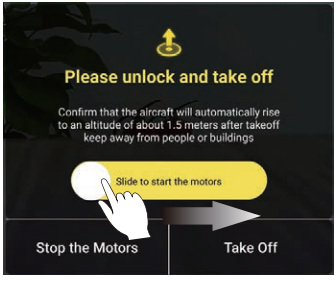
6.8 Auto Takeoff/Landing

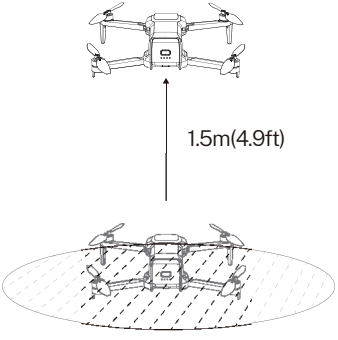
Auto Takeoff

- After the Aircraft is calibrated, users can use the take-off function on the app:

1. Start the motor after confirming the safe take-off conditions.
2. Tap “ ” on the App to take off.
3. Slide to unlock motor.
4. Click the One-key Takeoff button on remote controller or enter the app and click to take off.
5. The Aircraft will take off automatically and hover at a distance of 1.5m(4.9ft）from the ground.







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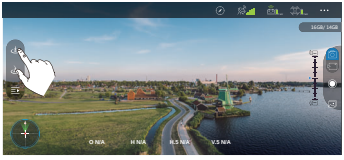
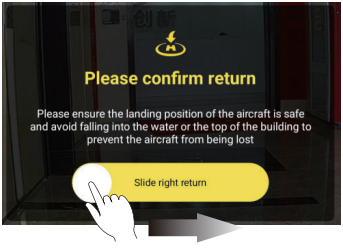
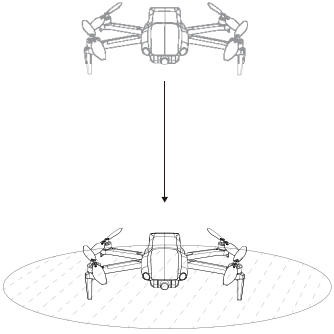
Auto Landing

- After the aircraft takes off, the user can choose to use the automatic landing function on the app:

1. Confirm the safe landing conditions, tap the “ ” on the APP,
2. Slide to confirm automatic landing.
3. The vehicle descends to the ground and turns off its motors.







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6.9 Basic Flight Steps

Basic Flight Steps

1. Place the Aircraft on a flat and open ground with the nose facing forward and the tail facing the pilot.

2. Press and hold to turn on the aircraft power.

3. Long press to turn on the remote control power, the drone and the remote control will automatically match the frequency, the time is about 50 seconds.

4. After a successful match, connect the phone to the remote control through the data cable (pay attention to the USB permission setting)

5. Open the RUKO U11 App, and enter the operation interface.

6. GPS signal search is completed, and the drone light is green and on.

7. Unlock and start the motor.

8. Slowly push the throttle stick upward to let the Aircraft take off smoothly.

9. Pull down the throttle stick to lower the Aircraft.

10. After landing, pull the throttle stick to the lowest position and hold it until the motor stops.

11. Turn off the power of Aircraft and Transmitter in turn after ⑨ shutdown.

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Aerial Photography Tips & Tricks

1. Perform pre-flight inspection.
2. It is recommended to take photos or videos in low-speed or medium-speed gear.
3. Choose sunny and less windy weather for shooting.
4. Push the stick as little as possible during the flight to make the Aircraft fly smoothly.

Awareness of flight safety is very important for the safety of you, the surrounding people and the environment. Please read the"Safety and Disclaimer Guidelines" carefully.

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7 Appendix

7.1 Specification Parameter

Drone	Model	U11MIINI
	Weight (Including Battery)	<250g
	Motor Model	1503
	Operating Temperature Range	50°to 104°F (10°to 40°C)
	Satellite Systems	GPS / GLONASS
	Dimensions (L x W x H)	Unfolded: 31 x 20.5x 5.7 cm
		Folded: 14.1x8.7 x 5.7 cm
Camera	Controllable Range of Camera (Up and down)	About -90°TO+0°
	Focus Range	Fixed-focus
	Resolution of Photo	Phone 3840 x 2160 P
		SD Card 3840 x 2160 P
	Resolution of Video	Phone 1280 x 720 P
		SD Card 3840 X 2160 P / 20FPS 2976×1680P / 30FPS
	Photo Format	JEPG
	Video Format	MP4
	Supported SD Cards	Micro SD card(Class 10/U1 or later) 64G
	Supported File Systems	FAT32
5G Transmission	Operating Frequency	5.15-5.35 GHZ; 5.725-5.825 GHZ
	Video Transmission Frame Rate	20 FPS
	Operating Frequency	5.8G
	Max Operating Distance	Up to 3KM (Outdoor and Unobstructed)
	Battery	3000mAh Li-polymer
Remote controller	Charging Time	About 4 Hours
	Operating Time	About 3.3 Hours
	Operating Voltage	3.7V
	Mobile Device Holder	4.7 to 6.7 Smart Phones
	Operating Temperature	32°to 104°F (0°to 40°C)

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Drone Battery	Capacity	2200mAh
	Voltage	7.6V
	Battery Type	Li-polymer
	Power	16.72Wh
	Net Weight	95 g /3.35 oz
	Max Charging Power	7.5W
	Max Charging Time	"About 3 Hours(Depending on Charging Power)"
	Charging Temperature Range	50°to 104°F (10°to 40°C)
Charging Cable	Interface Type	Type - C
	Input	100 - 240V, 50/60Hz, 0.5A
	Output	5V/1.5A or 5V/2A or 5V/3A
	Rated Power	≤ 15W
APP	APP Name	RUKO U11
	Mobile Phone System	"Android 6.0 And Above System IOS 10.0.2 And Above System
	Transmission Distance	"Up to 3KM (Outdoor and Unobstructed)"
	Connection Mode	Data line Connection

7.2 Accessories

Intelligent Flight Battery

Spare Propeller

Remote Controller

- The above accessories can be purchased by searching on Amazon and entering Ruko store.
- Always use original accessories. The use of non-original accessories may pose a risk to the safe use of the aircraft.

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7.2 Common Problems and Solutions

Question	Reason	Solutions
The motors cannot be started	Without GPS signal	Turn on the drone in an open area with a strong GPS signal, and signal full 3 bars or more to enable take-off.
	The red light stays on	The drone has low battery. Please charge the battery in time.
	The green light goes out	To begin compass calibration. Please refer to the Compass Calibration section of the user manual.
	The left and right joysticks are not in place	Push the left and right joysticks simultaneously to 5 o'clock and 7 o'clock for 2 seconds. Or use the one-click unlock take-off function on the APP.
Unstable flight	Flying too low, affected by aircraft airflow	Please fly the aircraft above 9.84ft(3 meters)
	The gyroscope is not calibrated	Place the aircraft on a horizontal surface and conduct gyroscope/horizontal calibration. Please refer to the "Gyroscope Calibration " section of the user manual
	The propellers become deformed and incomplete	Replace the propellers with new ones
	GPS signal is unstable. Flying near buildings and in obstructed places	Please fly the aircraft in an open area free of obstacles within the circle of radius 32.81 ft(10 meters)
Fly not far, fly out a distance to bounce back	In beginner mode, you will only be able to fly 30 metres in height and 30 metres in distance.	Enter the setting interface of APP, close the beginner mode, set the flight distance and height, and save the Settings.
During flight, the direction of the drone 's flight is opposite or different to the direction of the remote control.	4 propellers are installed backwards or a wrong propeller is installed	When installing the propeller, install it according to the corresponding mark
The drone suddenly crashed	1, The battery is not installed properly. 2, The propeller is not securely installed and falls off.	Check whether the battery or propeller is abnormal, and re-test after firm installation.

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Question	Reason	Solutions
Out of control, spinning around on its own, abnormal sound	The remote controller signal is interfered or the aircraft exceeds the range of remote control	Please fly the aircraft outdoors without interference, and ensure that it is within a controllable range
	Compass interference	Please manually land the aircraft in time and calibrate the compass. Please make sure to fly away from the buildings, trees, power lines, and signal towers
	The propellers become deformed and incomplete	Replace the propellers with new ones
The photo captured by the drone was unusually blurry	The camera cover is not removed	Remove the camera cover before flying.
	The camera lens is dirty.	Use a clean cloth to clean the lens.
Video freezes, image transmission distance is short	The aircraft is out of Wi-Fi range	Fly the aircraft within the range of the Wi-Fi
	Wi-Fi image transmission signal interference	Fly the aircraft in an unobstructed open area free of buildings, high-voltage wires and signal towers
	The remote controller and the mobile phone are not pointed at the direction of the aircraft	Point the remote controller and the mobile phone at the flying direction of the aircraft to maintain the strongest signal connection
	Phone performance freezes	Close unused apps running in the background to maintain the best performance of the phone
No image is displayed on the App.	The phone is not connected to Wi-Fi	The phone and the remote control need to be connected via data cable.
	The phone settings conflict with the APP	Try turning on airplane mode on your phone.
	Wrong app downloaded	Download the correct app (RUKO U11)
	The drone cannot be paired with the remote controller	It takes about 40 seconds for the drone and the remote control to match, and the image captured by drone will be displayed once the match is successful.
APP crashes or functions abnormally	Wrong app downloaded	Download the correct App(RUKO U11)
	Some phone versions are old and incompatible with APP	Please provide version and model of the phone, we will try to help you to solve it.
GPS signal is weak	When the drone is indoors.	GPS signals cannot be found indoors. Please search for GPS signals in an open area.
	Under the tree, next to the building, in an obstructed place	Please stay away from obstacles for more than 32.81 feet(10 meters), and search for GPS signals in an open area.

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Question	Reason	Solutions
Unable to return home, drifting and flying away	GPS signal was turned off during the flight	Please don't turn off GPS suddenly during outdoor flight. Switch back to GPS mode in time.
	Flying next to buildings, there are covered areas under trees that cause GPS signals to be lost or unstable	Fly away from buildings or covered areas.
The remote control and the drone take a long time to match	It takes about 5 seconds to match the remote to the drone	Please wait patiently.
Unable to charge battery/Not fully charged	Using inferior charger or charging on the computer with unstable voltage output	Use a mobile USB charger that ensures constant stable voltage output(5V) and amperage output(2-3A)
	Using inferior charging cables	Please use the original factory charging cable to charge
Short battery life	Flying in windy weather	Flying in windy weather will accelerate power loss
	The drone was not be charged when you received it	The batteries are fully charged with the correct USB charger before flying.
	Flying in cold weather	In low temperatures, the chemical reaction of the lithium battery is slowed down and the energy cannot be fully released
The product has slight marks	We tested all drone before shipping	In order to give you the best experience, we tested functions of all drone before shipping. Therefore, it is inevitable that there will be slight traces. However, it can be guaranteed that all drone are 100% brand new

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The aircraft 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.

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

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.
-- Consult the dealer or an experienced radio/TV technician for help.

This device and its antenna(s) must not be co-located or operation in conjunction with any other antenna or transmitter.

Radiation Exposure Statement
To maintain compliance with FCC's RF Exposure guidelines, This equipment should be installed and operated with minimum distance of 20cm from your body.

The motor 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.

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

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
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-- 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.

This device and its antenna(s) must not be co-located or operation in conjunction with any other antenna or transmitter.

Radiation Exposure Statement
The device has been evaluated to meet general RF exposure requirement in portable exposure condition without restriction.

Ruko®

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CONTACT US FOR MORE TECH SUPPORT

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