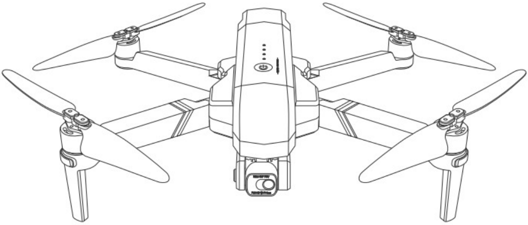
Ruko

14+
for age

User Manual

v2.0



F11 GIM2

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1 Using This Manual

1.1 Legend

- The following terms are used throughout the product literature to indicate various levels of potential harm when operating this product :

✓ Recommend ⊗ Warning ⚠ Hints & Tips 📖 Reference

1.2 Read Before the First Flight

- Read the following documents before using Ruko drone.
  ① User Manual
  ② Quick Start Guide
  ③ Disclaimer and Safety Guidelines
- To ensure a safe first flight, it is an essential step for you to watch all the guide videos on our website and read the disclaimer and user manual.

1.3 Video Tutorials

- Scan the QR code to watch the guide videos, which demonstrate how to use Ruko drone.

1.4 Download the App

- Scan the QR code downlaod RUKO DRONE app.

QR code of "RUKO DRONE" for Apple IOS system.

The IOS version of RUKO DRONE is compatible with IOS v9.0 and later.

QR code of "RUKO DRONE" for Android system.

The operation system version of RUKO DRONE is compatible with Android v5.0 and later.

2 Package Contents

Drone

Remote Controller

Drone Battery

Gimbal Cover

Spare Propeller

USB Charging Cable

Ruko
User Manual
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User Manual

Allen Wrench

Screw

3 Preface

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

Important

- This product shoud be operated by the people who are over 14 years old. It is a precision device; integrating machinery and electronics with air mechanics and high frequency transmission. It requires correct assembly and debugging to avoid any accident. The user should operate and control this product in a safe manner. In case of incorrect operation, it may cause serious injury or damage property. It can also be lost due to incorrect operation.
- This product is suitable for experienced UAV pilots no less than 14 years of age.
- 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.

Safety Precautions

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. Please pay close attention to flying safety and learn to recognize more dangerous conditions which may cause an accident due to your own negligence.

- **Keep it far away from any structures or crowds.**

  This R/C aircraft may vary slightly in speed or sensitivity while flying and can cause potential danger. Therefore, please keep it far away from crowds, buildings, trees, structures, high-voltage wire, etc. Please also avoid flying in adverse weather conditions such as rain, electrical storms, and high winds to ensure safety of the user, any spectators, and surrounding property.

- **Keep it away from any moist environment.**

  The inside of the aircraft is composed of many precision electronic and mechanical parts. Therefore, please try to avoid any moisture or water content from entering the main body of the aircraft as it may cause a breakdown of the mechanical and electronic parts and thus cause an accident.

- **Only operate with included parts for intended use.**
  Please use the original parts made by Ruko-Series for any re-equipping or maintenance to ensure flying safety. Please operate and use only under the scope of the product function permitted. Using un-approved parts will void warranty.
  DO NOT use for any illegal purpose or use beyond the scope of which your local laws and regulations have stipulated.
- **Avoid controlling it independently.**
  New users may have certain difficulties during the early stages of learning to operate this aircraft. Please try to avoid operating the aircraft alone. When available, always operate this aircraft under the guidance of a more experienced user.
- **Do not operate under the influence of drugs or alcohol.**
  Please operate this R/C aircraft according to your own state and flying skill. Any fatigue, bad mental state, or incorrect operation may increase the probability of accidental risk.
- **Please keep a safe range from aircraft when using top speed.**
  When the operator is flying in high speed, please keep the aircraft far from the pilot and any surrounding persons or objects so as not to cause danger or damage.
- **Store it in a cool, dry place.**
  The R/C aircraft is composed of material such as metal, fiber, plastic, electronics, etc. Therefore, please keep it away from any heat source and avoid prolonged exposure to direct sunlight. Excessive heat exposure can cause distortion and damage.
- **Read the Disclaimer & Safety Guidelinese**

Ruko 14+

Disclaimer & Safety Guidelines
v2.0

F11 GIM2

⚠ 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 interfer-ence 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.
- Please note that changes or modifications not expressly approved by the party responsible for compliance could void the use's authority to operate the equipment.

4 Warning

There is important information contained in this package and instruction manual, please keep it for future reference.

- You have the responsibility to make sure that this model of aircraft won't cause injury to others' body or cause any damage to property.
- Please operate strictly as shown on the instruction manual when debugging or assembling this aircraft. During the process of flying or landing, please pay more attention to keep 1-2 meters between the user and the aircraft to avoid colliding to the head or face or body, which may cause injury.
- Our company and distributors won't be responsible for any incorrect operation, which may cause loss or damage or injury to the body.
- Children ages 14 and up should use this product under the guidance of an adult. This product is FORBIDDEN to be used by children under 14 years old.
- Please correctly assemble and use this product as shown on the instruction manual or packing instruction. Some parts should be assembled by an adult.
- Small parts are included with this product. Please place it beyond the reach of the children to avoid a CHOKING HAZARD or parts being mistakenly swallowed.
- Playing on the road or near high traffic areas is strictly FORBIDDEN so as not to cause an accident.
- Please dispose of the packing material timely so as not to cause injury to children.
- Please DO NOT disassemble or re-equip the aircraft as it may cause a breakdown of the aircraft during flying.
- Batteries in the battery compartment of the charger should be inserted into the designated power source which has the same logo as the product.
- Built-in rechargeable 3.7V lithium polymer battery included in the transmitter.
- Only the original charger made from our factory can be used.
- Charger is not a toy.
- When charging the battery, please conduct it under the surveillance of an adult. Please also keep it far away from any combustible object when charging. Please keep this aircraft within eyesight when charging.
- Please DO NOT make it short-circuited or squeeze the battery so as not to cause an explosion.
- DO NOT mix the Li-ion battery with a different type of battery.
- Intelligent lithium battery is loaded in the Quad-rotor. Both built-in or external can be used for charging.

- Please DO NOT make the battery short-circuited or decompose the battery or throw the battery into the fire; DO NOT place the batteries near the high temperature or heated area (such as near the fire or near the electric heating device).
- The aircraft should be kept far away from any other electric compliance or equipment as far as possible or kept far away from the place where having the magnetic object nearby as they may cause interference with each other.
- Please keep the safe distance from the high-speed rotating rotor so as not to cause twisted or danger of being wounded or being cut.
- Engine will heat up. Please DO NOT touch it to avoid being burned or injured.
- Please DO NOT close this product to your ear as it may cause injury to your hearing.
- Type-C 5V wall charger recommended for charging. DO NOT use any charger stronger than 5V.
- To comply with the command of the magnetic environment requirement formulated by the Aviation Radio Bureau and the related authority, during the regulated period in certain areas, please stop using the transmitter of this model when such regulation command is issued.
- Keep your UAS within sight.
- Never fly over groups of people.
- Never fly over stadiums or sports events.
- Understand airspace restrictions and requirements.

⚠ **WARNING:**
CHOKING HAZARD -Small parts.
Not for children under 3 years.

⚠ WARNING
NOT SUITABLE FOR
CHILDREN UNDER3YEARS
DUE TO SMALL PARTS
0-3
هشدار! برای کودکان زیر ۳ سال
مناسب نیست ، دارای قطعات کوچک است
تحذير : غير ملائم للأطفال تحت ثلاثة (٣) سنوات بسبب
القطعة الصغيرة
COUNTRY OF ORIGIN: CHINA
بلد المنشأ : الصين

صنعت وفقا للمواصفات والمعايير العالمية
Tested according to international standards

PLEASE RECYCLE
0-3
MADE IN CHINA

⚠ • Product should only be used by adults and children 14 years and older. Adult supervision required for children under 14 years of age.

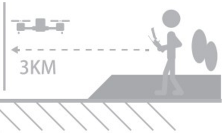
5 Fly Safety

- WIFI transmission area requirements:

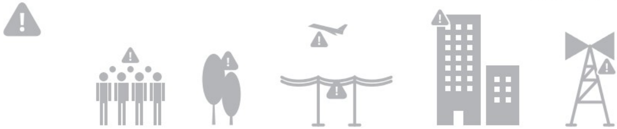
① Make sure correctly open the remote control antenna.

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

③ Do not fly against the wind; WIFI transmission distance is 3KM.



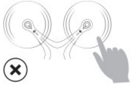
+
+
+
120m
Fly in Open Areas
Strong GPS Signal
Maintain Line of Sight
Maximum flight altitude height is about 120 meters



- Avoid flying over or near obstacles, crowds, high voltage power lines, trees, airport or bodies of water.

  DO NOT fly near strong electromagnetic sources such as power lines and base stations as it may affect the onboard compass.

- DO NOT use the drone in adverse weather conditions such as rain, snow, fog and wind speeds exceeding 7 m/s or 16 mph.



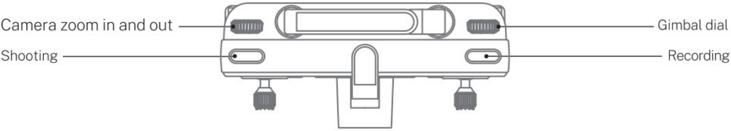
Stay away from the rotating propellers and motors.

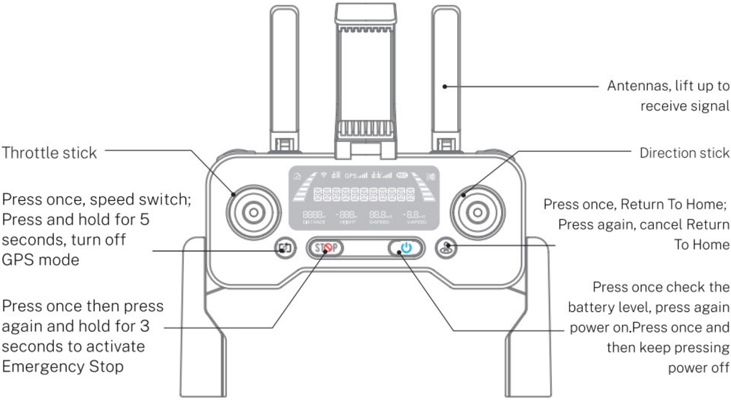
☒ No Fly Zone

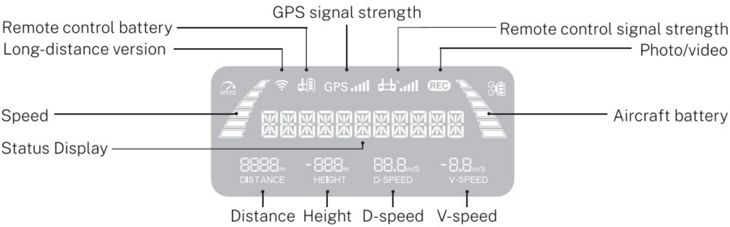
It's important to understand basic flight guidelines,for the safety of both you and those around you. Don't forget to read the Safety Guidelines before flight.

6 Remote Controller

6.1 Controller Features


Camera zoom in and out
Gimbal dial
Shooting
Recording


Antennas, lift up to receive signal
Throttle stick
Direction stick
Press once, speed switch; Press and hold for 5 seconds, turn off GPS mode
Press once, Return To Home; Press again, cancel Return To Home
Press once then press again and hold for 3 seconds to activate Emergency Stop
Press once check the battery level, press again power on.Press once and then keep pressing power off
STOP

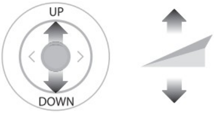

GPS signal strength
Remote control battery
Long-distance version
Remote control signal strength
Photo/video
Speed
Aircraft battery
Status Display
SPEED
GPS
REC
8888m
DISTANCE
-888m
HEIGHT
88.8m/s
D-SPEED
-8.8m/s
V-SPEED
Distance
Height
D-speed
V-speed

- The F11 GIM2 has three speed mode: Camera mode 14.76 ft/s, Normal mode 29.53 ft/s, and Sport mode 39.37 ft/s. The default speed is Normal mode, higher speed will consume battery faster.

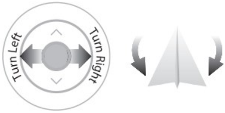
6.2 Controlling the Drone

- **Remote Controller Stick Mode-Mode 1 (Defalut Mode)**

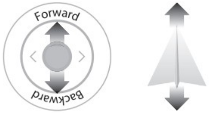
Throttle Joystick



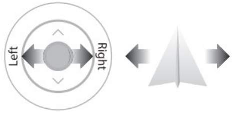
Left Joystick


Turn Left
Turn Right

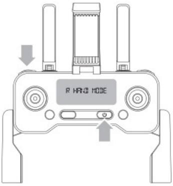
Direction Joystick


Forward
Backward

Right stick



- **Switch Remote Controller Stick Mode--Mode 2**



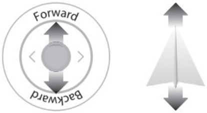
Power off the remote control.

Keep pressing the 📷, clicking the ⏻ twice.

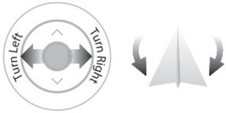
(Click once indicating the power level, click again the remote control beeps three times and power on, LED screen indicates "RHAND MODE".)

Note: Once restart, the controller will back to default mode - Mode 1.

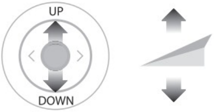
Direction Joystick


Forward
Backward

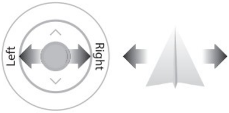
Left Joystick

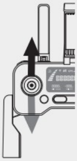
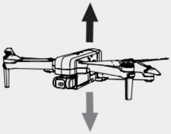
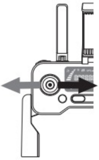
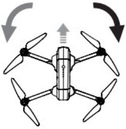
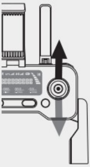
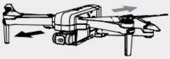
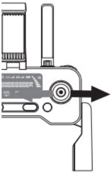
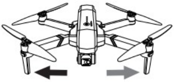

Turn Left
Turn Right

Throttle Joystick



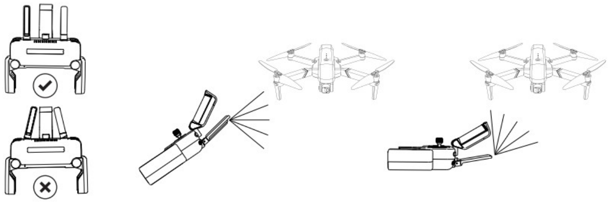
Right stick



Transmitter (Defalut Mode)	Aircraft Direction	Remarks
		Push up/down the throttle stick to control the aircraft up and down. Push up and the aircraft rises. Pull down the lever and the aircraft lowers. 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 up and the aircraft takes off off the ground (please push the stick slowly to prevent the aircraft from suddenly rush up).
		Push the throttle stick left/right to control the aircraft heading. Push the stick to the left and the aircraft will rotate counterclockwise. Push the stick to the right and the aircraft rotates clockwise. In the neutral position, the angular velocity of rotation is zero, and the aircraft does not rotate.
		Push up/down the direction bar to control the aircraft to fly back and forth. Push the stick up and the aircraft leans forward and flies forward. Pull down the lever, the aircraft tilts backwards and flies backwards. The aircraft's front and rear directions remain level in the neutral position. The joystick offset corresponds to the angle of the aircraft's front and rear tilt. The greater the offset, the greater the tilt angle and the faster the flight speed.
		Push the direction stick left/right to control the aircraft to fly left and right. Hit the stick to the left, the aircraft tilts to the left and flies to the left. Hit the stick to the right, the aircraft tilts to the right and flies to the right. The left and right directions of the aircraft remain horizontal in the middle position. The joystick offset corresponds to the angle of the aircraft left and right tilt. The greater the offset, the greater the tilt angle and the faster the flight speed.

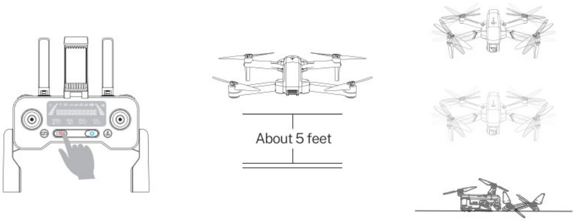
6.3 Optimal Transmission Zone

- The signal between the drone and the remote controller is most reliable when the antennas are positioned in relation to the aircraft as shown below.



> ⚠ • DO NOT use other wireless devices to avoid interference to the remote controller.

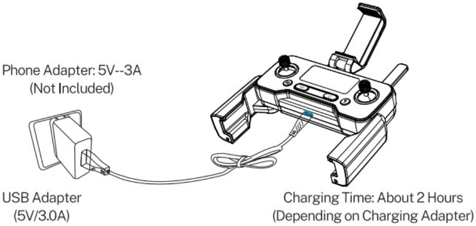
6.4 Emergency Stop

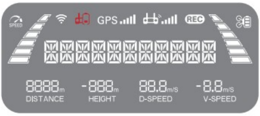

About 5 feet

- Click once and hold the STOP for 3 seconds to enter into Emergency Stop mode. It only activated when the drone's flight altitude within 5-42ft.

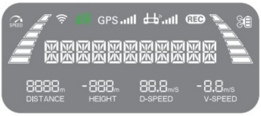
> ⚠ • By using this function the drone motor will stop working immediately thus fall to the ground, which might cause damage. Only use this feature when in emergency so as to reduce the risk of damage or injury.

6.5 Charging the Controller


Phone Adapter: 5V--3A
(Not Included)
USB Adapter
(5V/3.0A)
Charging Time: About 2 Hours
(Depending on Charging Adapter)


SPEED
GPS
REC
8888m
DISTANCE
-888m
HEIGHT
88.8m/s
D-SPEED
-8.8m/s
V-SPEED

The Remote Control Is Charging


SPEED
GPS
REC
8888m
DISTANCE
-888m
HEIGHT
88.8m/s
D-SPEED
-8.8m/s
V-SPEED

Fully Charged With Remote Control

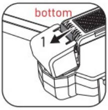
- When the remote control is charging, the LED screen will indicate the battery level, when fully charged, it will indicate "BAT 100 PCT" Controller is built-in 3.7V 1500mAh lithium polymer battery. Use the original type-C cable to connect an AC power adapter (4.5V-5.5V, 2A-3A) to charge. It takes apporximately 2hours to full charge the remote controller. The charing time depends on what adapter are using, suggest to use charger with output currency 5V/3A. Never overcharge.

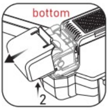
7 Drone

7.1 Preparing the Aircraft

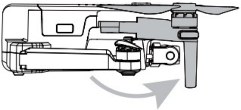
All aircraft arms are folded before ship out of the factory. Please follow the steps below to unfold the arms.

- Take off the Gimbal Cover

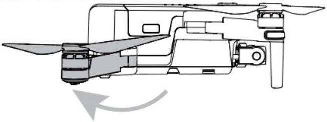




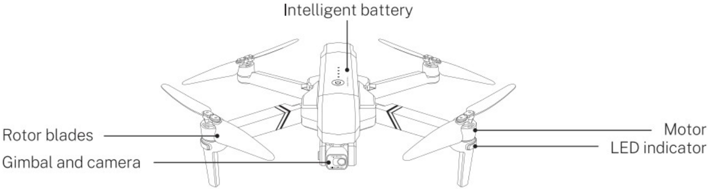
- Unfold the front arms

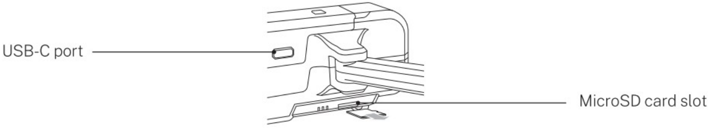


- Unfold the rear arms and then unfold all the propellers



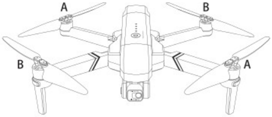
7.2 Drone Diagram

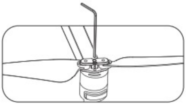

Intelligent battery
Rotor blades
Gimbal and camera
Motor
LED indicator


USB-C port
MicroSD card slot

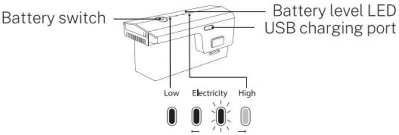
7.3 Assemble the Propeller

- Please note that the letter "A" or "B" is printed on each propeller, and make sure all the propellers are attached in the correct motor position.





7.4 Intelligent Flight Battery

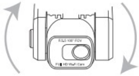

Battery switch
Battery level LED
USB charging port
Low
Electricity
High

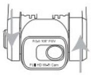
- Hold the switch button for 3 sec. power on; then press the button for 3 sec. power off.
- Refer to the battery level LED, when only one LED left, charge the battery.

⚠
- DO NOT install the battery with the power already switched on.
- DO NOT charge the battery immediately after flight as the temperature may be too high. Wait until it cools down to room temperature before charging again.

7.5 Gimbal and Camera

- The gimbal of F11GIM2 drone ensure the user can capture clear and stable impage and videos even when the drone is flying, the camera also equipped with electroni stabilization function.
- The camera uses an upgraded 5GHz Wi-Fi FPV real-time transmission function, equipped with 2-Axis Gimbal 4K EIS , 100°FOV lens and a 80° adjustable camera, which can stably shoot 4K ultra-clear videos and images, providing you with a broad field of vision for unforgettable moments.

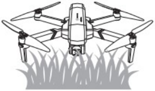




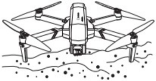
- **Camera Guideline:**

  ① Please take off the gimbal camera cover before flight.

  ② When taking off from grass or sand, please place the aircraft on the landing pad or cardboard to keep it level.

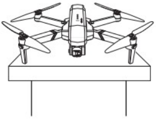


⊗ **On the grass**

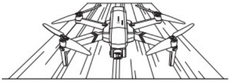


⊗ **On the sand**

③ Do not turn on the aircraft when it is on desk or hollow wooden floor. They will amplify the small vibrations into high-frequency vibrations, which will cause the gimbal cannot work.

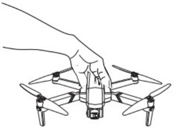


⊗ **On the desk**

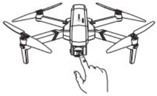


⊗ **On the hollow wooden floor**

④ Do not interfere with the gimbal by external forces or pick up the aircraft during calibration. Otherwise, the gimbal will stop to work.

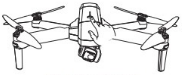


⊗ **Picking up the Aircraft**
(during self-inspection)

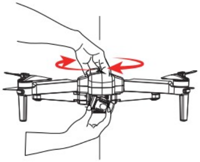


⊗ **Touching the camera**

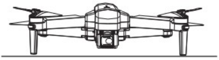
⑤ The Gimbal cannot work during the compass and Gyro calibration. Put the aircraft on a level surface after calibration, then the gimbal will start to work after 20 seconds.



Before Start



During Compass and Gyro calibration

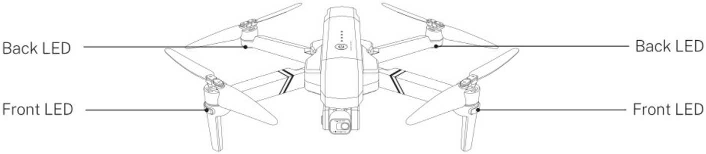


Put on a level surface and wait for 20 seconds

- ⚠ Precision elements in the gimbal may be damaged in a collision or impact , which may cause the gimbal to function abnormally.
- Avoid getting dust or sand on the gimbal and the camera, especially in the gimbal motors.
- DO NOT apply extera force to the gimbal after the gimbal is powered on, as this may cause the gimbal to function abnormaly or even lead to pemanentmotor damage.
- Make sure to install the gimbal cover when the drone is not in use.
- If the gimbal get wet after flying in wet weather, temporary failure might occur, make the gimbal and the drone dry so as to get it recover to full function.

8 Drone Status Indicators

- F11GIM2 drone has front and back four LED lights.



LED light indicator	Color	Reason	Action required
Front and back lights flashing red	🔴🔴 🔴🔴	Low Power	Charge the battery
		The controller is not connected to the drone	Restart and wait for the drone and controller auto-connection
Front and back lights flashing pink	⚪⚪ 🩷🩷	The drone turns to Compass Calibration process	Follow the insturction to rotate the drone to complete calibration process
Front and back lights rapid-flashing white and blue	⚪⚪ 🔵🔵	The drone is in Gyroscope Calibration process	Wait till the drone complete calibration automatically (This only take 2-3 seonds)
Front and back lights flashing white and blue	⚪⚪ 🔵🔵	GPS searching	Waiting for GPS signal
			Change to another place and try again

9 Product Functions Profile

9.1 Return to Home

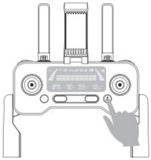
The Return to Home (RTH) function brings the drone back to the Home Point.

This function can only be achieved under GPS mode. There are three types of RTH: Smart RTH, Low Battery RTH, and Fail connection RTH. If the drone have successfully recorded the Take off Point and the GPS signal is strong, the RTH will be triggered when either the Smart RTH is initiated, the drone battery level is low, or when the signal between the drone and remote controller is lost.

Home Point	GPS	Description
📍	⌖	The default Home Point is the first location where the drone received a strong or moderately strong GPS signal (3 or more satellite reception).

- **Smart RTH**

  Smart RTH can bring the drone back to the Home Point. It is initiated by either clicking the 📍 button once on the remote controller or on the app, the remote controller will alert with a "DI DI" sound. Click the 📍 button again cancel the RTH process.



- **Fail Connection RTH**

  If the Home Point has been recorded successfully and the compass function can work normally, the Fail Connection RTH function will be triggered once the remote controller signal is lost, the drone will return to the Home point in straight line. The drone may link to the remote controller automatically during the RTH process, if connected successfully, the RTH process will stop.

- **Low-Battery RTH**

  Low-Battery RTH is trigrgered when the drone battery level is low, this function is triggered automatically, drone will first rise to the setted return altitude and fly back to the Home Point, this process is unable to cancel, but it is allowed to control the drone with direction joystick to land it in a safe area.

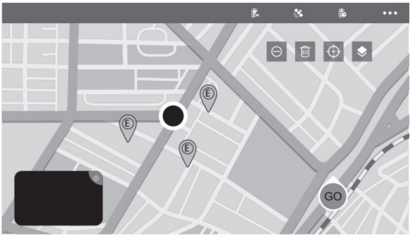
  If the battery can't support the drone fly back to the Home Point, it will land automatically where it is, and the remote controller dirction joystick is available during landing.

⚠ • **Cautions**

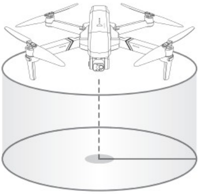
- Never turn off the remote controller during RTH process.
- Set a proper return home altitude on the app before take-off.
- NO obstacle avoidance function is available with this drone.
- When flight distance less than 98 ft, the drone flies back at the current altitude instead of setted return altitude, make sure it flies higher than any other objects surrounding.
- When flight distance further than 98 ft, make sure the drone has enough battery to fly back.
- The drone can NOT return to Home Point without a strong GPS signal.

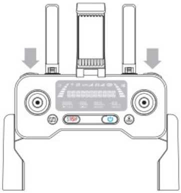
9.2 Waypoint Flight

- When the phone mobile data is available, select 🗺 in the app, load the map data of the area which intended to fly.
- Connect the drone's WiFi on the phone, view the map by clicking 🗺 on the app.
- The red circle is the limited flight range for this function, click to set points within the red circle to execute the wayponint flight function (16 points the most).
- Click Delete single and Delete all to reset the points of flight route.
- Click Send , confirm to start Waypoint Flight.
- Push the Direction Joystick to cancel the Waypoint Flight .



9.3 Point of Interest





- **This feature enable the drone to fly around the point in a 360 circle.**
- Hover the drone around the center point.
- Press 📷 + 🎥 buttons controller at the same time.
- Move and set the drone surround radius range (within 2 to 100 meters) with the Direction Joystick.
- Press 📷 + 🎥 buttons on the controller at the same time again, the drone starts to fly according to the radius range set in step 3.
- To cancel the Point of Interest fly, move the Direction Joystick.
- Note: If the surround radius range set less than 2 meters, the drone will automatically adjust to 2 meters.
- If the drone have connectted with the contrtoller and the drone is in air, press the 📷 + 🎥 buttons at the same time, the Point of Interest function will be activated.

⚠ • This function will only be available when the GPS signal is strong.

9.4 GPS Follow Me

GPS Follow Me function requires strong GPS signal, once the function been initiated, the drone can follow the smart phone whereever it goes, below are the steps to activate this function:

- Connect the drone's WiFi on the smart phone, access to the app CONTROL 🕹 interface.
- Make sure the flight distance is within 10-100meters.
- Click the 🏃 on the app.
- Waiting for app to indicate drone status "Follow Me Ready", now the drone will move along with the positioning coordinates on the app.
- Click the 🏃 on the app interface again to exit the Follow Me mode.

> ⚠ • GPS Follow Me function will be affected by the tall structures, trees and the living areas with WIFI signal inteference. GPS Follow-me function is not activated when the GPS signal weak or GPS positioning off on the mobile device.

9.5 Image Recognition Follow Me

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

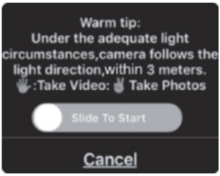
- Connect the drone's WiFi on the smart phone, access to the app CONTROL interface.
- Click , tap on the object or person plans to track, tap to confirm the selection, drone rotates following the object's in circle movement.

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

9.6 Hand Gesture

- Click on the app, count down 3 seconds to 0 with hand motion to take photos and record video. Follow the instruction on the app.

> ⚠ • When raise the hand, make sure to keep the elbow at the same height of the shoulder.



Warm tip:
Under the adequate light circumstances,camera follows the light direction,within 3 meters.
:Take Video: Take Photos

10 Connect the APP

10.1 Download the App

QR code of "RUKO DRONE" for Apple IOS system.

QR code of "RUKO DRONE" for Android system.

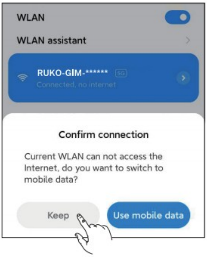
10.2 Connect the APP with Drone

- WIFI Guidelines

  ① For some android phones, after connection with Aircraft's WiFi "RUKO-GIM-******", please wait for about 10-40 seconds, note if there is any option popping up about internet settings, make sure connected, otherwise, there is no picture after entering App.

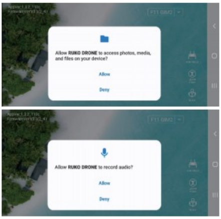
  ② If still without WiFi connection, please turn on your phone's airplane mode and connect aircraft WiFi.

  ③ Make sure allow all the permissions required when connecting with app. If failed at connection, please go to the phone "setting" to allow all the permissions.

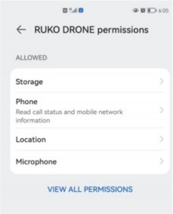


Confirm connection

Current WLAN can not access the Internet, do you want to switch to mobile data?


Allow **RUKO DRONE** to access photos, media, and files on your device?

Allow **RUKO DRONE** to record audio?


RUKO DRONE permissions

ALLOWED

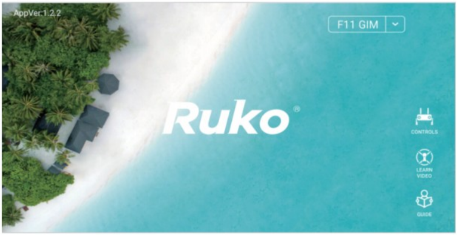
Storage

Phone
Read call status and mobile network information

Location

Microphone

- Once the drone WiFi has been connected, the app will recognize the drone model and connect automatically.



- CONTROLS: tap to access the instant video transmission and drone control interface.

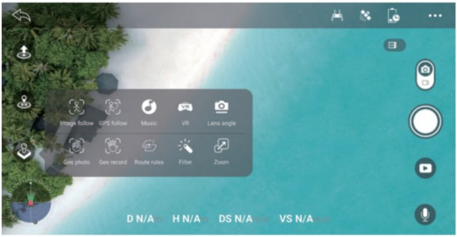
LEARN TO FLY: tap to watch the guide video.

GUIDE: tap in to read the manual, and watch instructional videoes.

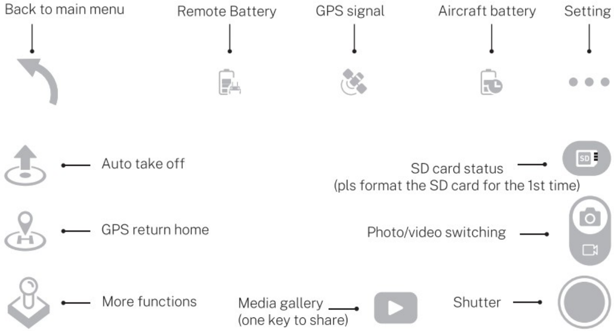
11 APP Functions

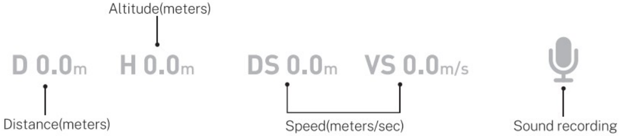
11.1 Control

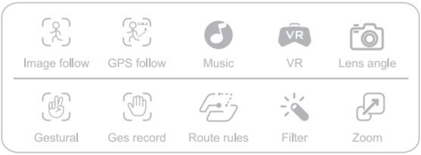
- Wait until the drone status says "Ready to Fly" before initiating flight, access to the control interface.



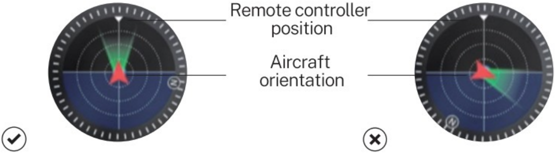
11.2 APP Icons Introduction





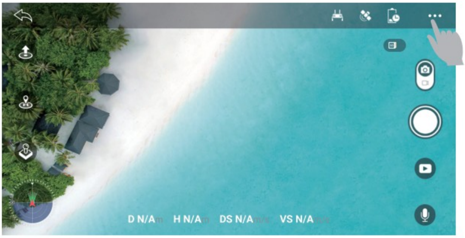


- User can refer to the aircraft flight direction from the Attitude Indicator in the app.



12 APP Setting

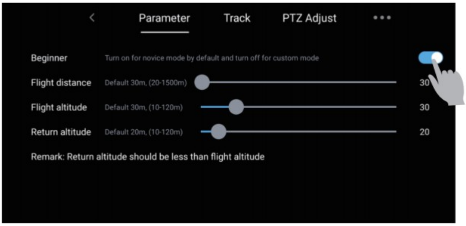
12.1 Settings



- **Flight Setting and Out of Beginner Mode**

While the drone is under GPS mode, its default mode is Beginner Mode, Which limites the flight range: Maximum Flight Distance is 30 meters; Maximum Flight Altitude is 30 meters; Setted RTH Altitude is 20 meters; Follow below picture to turn off the Beginner Mode and set the proper flight setting in the app.

⚠ • The drone must be conneted with the app to save the setting.



Beginner Turn on for novice mode by default and turn off for custom mode

Flight distance Default 30m, (20-1500m) 30

Flight altitude Default 30m, (10-120m) 30

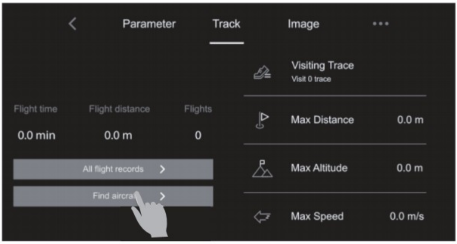
Return altitude Default 20m, (10-120m) 20

Remark: Return altitude should be less than flight altitude

- **Find the Lost Drone**

When the drone has connectted with app, and drone GPS signal is strong, the drone's location can be recorded in the app.

① Access to "Track", click Find aircraft > to open the map surface to search the drone.



Flight time 0.0 min

Flight distance 0.0 m

Flights 0

Max Distance 0.0 m

Max Altitude 0.0 m

Max Speed 0.0 m/s

② The last position of lost drone will be showed on the map.

Current position of the mobile phone