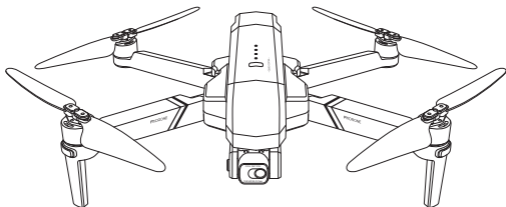


Ruko®

14+
for age

F11 GIM

FOLDING DRONE



— ULTRAPORTABLE AND FOLDABLE —

+1 (909) 494-2127

Whatsapp: +86 13760395206

Email: Rukodrone@gmail.com

www.rukotoy.com

In order to make sure that it meets the requirement of the electromagnetic environment of the aviation radio station, flying within the scope of 10 kilometers on each side by taking the airport runway center line as the middle line is HIGHLY FORBIDDEN or flying within the scope of 20 kilometers by taking both ends of the runway as the center is HIGHLY FORBIDDEN. Flying on the route of the airline is also PROHIBITED. Stop using all kinds of flying models or unmanned Quad-rotors in the AREA that prohibited by related authority or department of our country.

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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:

1. This product should 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.
2. This product is suitable for experienced UAV pilots no less than 14 years of age.
3. In the event of a problem during using, operating, or maintenance, please contact the local sales agent or retailer or keep in touch with the responsible staff of our company.

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.

1. 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.
2. 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.
3. 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.

4. 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.
 5. 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.
 6. 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.
 7. 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.
- 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.
 - 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.

WARNING

1. There is important information contained in this package and instruction manual, please keep it for future reference.
2. 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.
3. 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.
4. Our company and distributors won't be responsible for any incorrect operation, which may cause loss or damage or injury to the body.
5. 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.
6. Please correctly assemble and use this product as shown on the instruction manual or packing instruction. Some parts should be assembled by an adult.
7. 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.
8. Playing on the road or near high traffic areas is strictly FORBIDDEN so as not to cause an accident.
9. Please dispose of the packing material timely so as not to cause injury to children.
10. Please DO NOT disassemble or re-equip the aircraft as it may cause a breakdown of the aircraft during flying.
11. Batteries in the battery compartment of the charger should be inserted into the designated power source which has the same logo as the product.
12. Built-in rechargeable 3.7V lithium polymer battery included in the transmitter.
13. Only the original charger made from our factory can be used.
14. Charger is not a toy.
15. 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.
16. Please DO NOT make it short-circuited or squeeze the battery so as not to cause an explosion.
17. DO NOT mix the Li-ion battery with a different type of battery.
18. Intelligent lithium battery is loaded in the Quad-rotor. Both built-in or external can be used for charging.
19. 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).

20. 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.
21. 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.
22. Engine will heat up. Please DO NOT touch it to avoid being burned or injured.
23. Please DO NOT close this product to your ear as it may cause injury to your hearing.
24. Mini USB 5V wall charger recommended for charging. DO NOT use any charger stronger than 5V.
25. 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.
26. Keep your UAS within sight.
27. Never fly over groups of people.
28. Never fly over stadiums or sports events.
29. Understand airspace restrictions and requirements.



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

WARNING: CHARGING OF THE AIRCRAFT BATTERY MUST BE SUPERVISED AT ALL TIMES BY AN ADULT. UNPLUG THE BATTERY WHEN FULLY CHARGED. DO NOT OVER-CHARGE THE BATTERY.

FLY SAFETY



+



+



+



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 8 m/s or 18 mph.



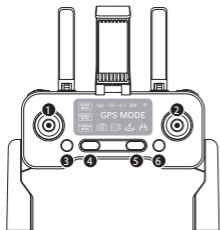
No Fly Zone

Stay away from the rotating propellers and motors.

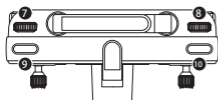


It's important to understand basic flight guidelines, for the safety of both you and those around you. Don't forget to read the Safety Guidelines before flight.

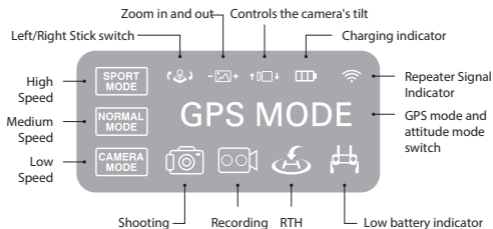
CONTROLLER FUNCTIONS



1. Throttle stick
2. Direction stick
3. Click once speed switch
4. Click once then keep pressing for 3 seconds to emergency stop
5. Click once power on; **Click once then keep pressing for 3 seconds power off**
6. Click once to RTH mode; Hold the button for 5 seconds to turn off GPS mode and turn on attitude mode

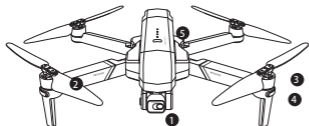


7. Camera zoom in and out
8. Gimbal Dial: adjust the angle of the camera
9. Shooting
10. Recording



Tip: When the controller is in low power, the power indicator light on the transmitter will keep flashing, now you need to charge the controller.

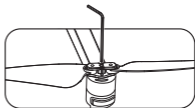
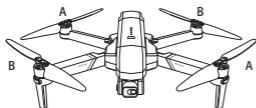
DRONE DIAGRAM



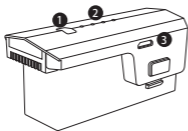
1. 2-Axis stable Gimbal
4K Wifi camera
2. Propeller
3. Motor
4. LED indicator
5. Intelligent battery

1. 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.



2. INTELLIGENT FLIGHT BATTERY



1. Battery switch
2. Battery power indicator
3. USB charging port

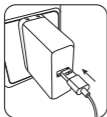
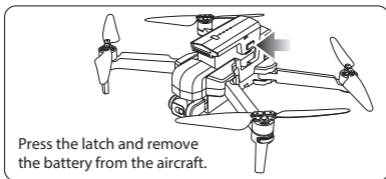
Low Electricity High



- Hold the switch button for 3 sec. power on; then press the button for 3 sec. power off.
- When the battery in low voltage, blue indicators will be blinking, now please charge the battery.

Note: Please do not install the battery with the power already switched on.

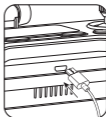
3. CHARGE THE BATTERY



Phone adapter:
5V=3A
(Not included)



Charging time:
About 4.5 hours
(Depending on
charging adapter)



Controller
charging method

4. LITHIUM BATTERY CHARGING INSTRUCTIONS

1. Either power on or power off, the drone can be charged. Connect the USB charger to an DC power supply(4.5V-5.5V,2A-3A), and then connect with the charging port of the drone, when in charging, the indicator on the drone will become Blue blinking; when fully charged, the indicator on the drone will turn to solid blue.
2. Quad-copter can be charged by the mobile power or car-loaded power.
3. Charging time takes about 4.5 hours; operating time takes about 28 min.
4. Controller is built-in 3.7V 300 mAh lithium polymer battery, charging time takes about 25min. (Battery indicators turn RED during charging; Indicators turn to SOLID BLUE when fully charged.)

(When in charging, the indicator on the controller becomes red when fully charged, the indicator on the controller will turn to solid green

Note: If you don't use the battery for a long time, it should be charged to 50%~80% power, remove it and store it in a dry and cool environment, and charge the battery every 3 months to avoid battery failure due to low power caused by self-discharge a for long time.

CONTROLLER OPERATION

Throttle Joystick



Direction Joystick

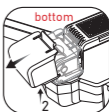
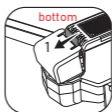


FLIGHT

Before take off, please remove the cover gently to avoid causing damaging the camera

1. Open the gimbal cover buckle.
2. Pull up the cover to unlock it, and then take it off gently.

Replace the cover after flying, to protect the camera when not in use.



1. FLIGHT PREPARATION

- ▲ Before flying, make sure the GPS mode is turned on in case the drone gets lost! (The drone starts with GPS mode enabled, when you turn on the controller.)
- ▲ Place the drone in a wide open space with head forward.



Step 1: Turn on the drone and set down on a level surface

- The drone will auto-trim to this level surface.
- All lights blinking red.



Throttle Joystick

Step 2: Turn on the controller

- Power on the controller, push the left joystick up then down to pair with the drone.
- Lights flashing white (front) and blue (back). Pairing successful.



Step 3: Connect app

Note: Please connect the phone after pairing the controller with the drone to avoid connection error

RUKO-GIM-*****



Connect your smart phone to the Wi-Fi of drone and check the drone's status on the app "RUKO DRONE".

Step 4: Compass Calibration



1. Compass Calibration Part 1

- Push the joysticks into the 1 & 11 o' clock position.
- Lights rapid-blinking white(front)and "Compass calibration." (back)
- App drone status: "Compass calibration" .



▲ Always pay attention to the tips of the APP!

2. Compass Calibration Part 2

- Keeping the drone level, pick up the drone and rotate the drone in one full circle (360°).
- Back lights will turn to solid pink.



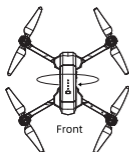
3. Compass Calibration Part 3

- Hold the drone vertically with camera facing to the ground, rotating circle (360°).

- Lights return to rapid-blinking white (front) and blue (back) --This means the drone is searching the GPS signal.
- After a while, front lights will turn to solid white and back lights solid blue
- App drone status: "Compass calibration okay."



360° horizontal rotation



Front

Step 5: Calibrate Gyroscope/Reset to factory Setting

- Push the joysticks into the 11 & 1 o' clock position.
- Lights rapid-blinking white (front) and blue (back)
- App Drone Status: "Gyroscope is being calibrated" Gyroscope okay.




- After a while, front lights will turn to solid white and back lights solid blue
- App Drone Status: "Ready to fly"



Once the lights have switched to all solid, you are ready to fly

Step 6: Starting/Stopping motors

- Push the joysticks into 5 & 7 o' clock position
- Motors are starting automatically, push the left joystick up to take off, or you can press  button on the app to take off.




NOTE: Please start the motor before take off.

Stopping the Motors

Pushing the joysticks into 5 & 7 o'clock position again, motors stop running

The motors will stop running if the motors starting are not operated more than 20 seconds.

Step 7: 3 Ways to land the drone

1. Press the RTH home  (will return to takeoff point)

2. Click the button  on the app, the drone will land directly.




Note: Press 3 seconds for Emergency Stop




3. Keep pushing left joystick down until the drone lands and the motor stop

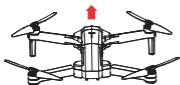
▲ Set the connection in right order to avoid signal connection error.

Dual Controller Mode

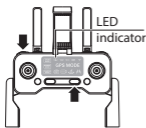
—Power off the controller.

—Keep pressing the , clicking the  simultaneously, the controller beeps twice indicating the right joystick changed, to the throttle stick, the LED indicator  OFF.

Turn off the controller, then keep pressing the , clicking the  simultaneously, the controller beeps twice indicating the left joystick changed to the throttle stick, the LED indicator  OFF.



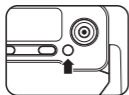
Always keep the head of drone facing forward




Left Stick






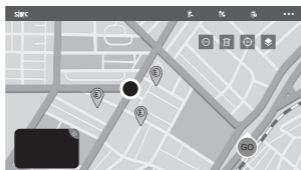
Right Stick



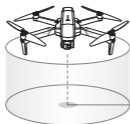
NOTICE: The LED indicators on the front arms (white) and rear arms (blue) keep flashing if the GPS signal is weak; press and hold  for 5 seconds on the controller to turn off GPS mode, drone can be take off. But it may increase the risk of losing your drone by not enabling GPS to assist in locating.





WAYPOINT FLIGHT



- Make sure the mobile internet is connected, select  in the APP, catch the map data of the area when you intend to fly in your mobile device, then connect your mobile device with your drone, you can view the map from  in the APP.
- Successfully connect to the drone WIFI with your smart phone, click  on the App, then you can find a RED CIRCLE (LIMITED FLIGHT RANGE)/TAKE-OFF POSITION/AIRCRAFT CURRENT POSITION on the map, mark the points (16 points at most) you plan to fly within the RED CIRCLE range on the map. If you would like to reset the points or flight route, click [Delete route](#) or [Delete all](#) . Click [Save](#) ,confirm to start Waypoint Flight. Push the Right Joystick to cancel the Waypoint Flight Function.



POINT OF INTEREST

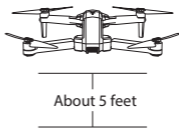


1. Hover the drone around the center point.
2. Press "  +  " on the controller at the same time.
3. Move and set the drone surround radius range (within 2 meters-100 meters) by the Direction Joystick.
4. Press "  +  " on the controller at the same time again, then the drone starts to fly around according to the radius range you set in STEP 2 (Note: If the surround radius range less than 2 meters, the drone will fly to 2 meters automatically) . Move the Direction Joystick to cancel the Point of Interest mode.

NOTE: Press "  +  " on the controller at the same time, Point of Interest Function" can be activated if the drone and controller successfully paired and the drone flies up .

PRODUCT FUNCTION PROFILE

1. TAKEOFF/LANDING/EMERGENCY STOP





! Press and hold the **STOP** for 3 seconds to enter into Emergency Stop mode. It is activated for aircraft drone up to 3 meters; otherwise, it is not activated.

Only stop motors mid-flight in emergency when doing so can reduce the risk of damage or injury.

2. FOLLOW ME

When the Follow Me function activated, the drone will use the GPS in your smart phone to follow you wherever you go.
(Make sure the smart phone connects with the drone successfully, turn on APP on your smart phone.)

1. Make sure the flight scope is within 10-100 meters.
2. Click  on the APP interface.
3. Waiting for APP drone Status to display "Follow Me ready" ---Now the aircraft is moving along with the positioning coordinates on the APP.
4. Click the  on the APP interface again to exit the Follow Me mode.


Common Issues:

GPS Follow Me function will be affected by the tall structures, trees and the living areas with WIFI signal interference.

GPS Follow Me function is not activated if the GPS signal weak or GPS positioning OFF in the mobile device.

* Use in open area and be mindful of your surroundings. Drone is NOT equipped with obstacle avoidance.

3. HAND GESTURE

Click  on the APP, count down 3 seconds to 0 with the hand motion to take photos or record video. Please follow the tips.



4. RETURN-TO-HOME (RTH)

The Return to Home (RTH) function brings the drone back to the Takeoff Point. This function only can be achieved under GPS mode. There are 3 types of RTH: Smart RTH, Low-battery RTH, and Fail connection RTH.

①. Smart Return To Home



This function is available if GPS signal is available [3 or more satellite reception] and the home point was recorded previously. Press the RTH button and the drone will automatically ascend or descend to the return altitude and return to the takeoff point in a straight line. Press the button again to stop the RTH procedure. Pull the throttle down to land the drone in a safe area.



RTH Button



The app's RTH Button

②. Low -Battery Return To Home

Low-Battery RTH is triggered when the Flight Battery level is low. When low battery RTH activated, drone ascends or descends automatically to an altitude of 30 meters. Then you can control the drone with the left and right joysticks to land it in a safe area. Drone returns to the takeoff point if the current battery level can only support the drone long enough to descend from the current altitude.



③. Fail Connection Return To Home (RTH)

Drone will enter Return to Home mode if the signal from the controller is lost. The drone will return to the takeoff point. The drone may link the controller control automatically during RTH activation. If link is successful, you can resume operating the drone.

WARNING:

1. This drone is NOT equipped with obstacle avoidance.
2. Pay attention to the drone's status on the "RUKO DRONE" app.
3. The drone can not return to home point without a good GPS signal.

5. TRIM UNDER NO GPS MODE

When flying the drone under NO GPS Mode, you can trim the drone to obtain more balanced flight. Keep pressing the  button until the controller beeps once, to enter Trim Mode. Push the direction joystick to the opposite side that the aircraft drifts, to rebalance the drone. For example, if the drone drifts to the left, push the direction joystick to the right to balance the drone. Release the , and exit Trim Mode.

DOWNLOAD THE RUKO DRONE APP



QR code of "RUKO DRONE" software for Apple IOS system.
(Please scan this QR code to install this software.)



QR code of "RUKO DRONE" software for Android system.
(Please scan this QR code to install this software.)

- Connect the power of this model, and then access into "SETTING" in the smart phone, open the "WIFI" and find the "RUKO-GIM-XXXX".
- When the link is successfully connected, please exit the "Setting" option.
- Open "RUKO DRONE" software in the smart phone to access into the control interface.

APP FUNCTIONS

1. APP INTRODUCTION

Wait until the drone Status says "Ready to Fly" before initiating flight. This will ensure that your GPS is synced and your drone is ready to fly.



Back to Main Menu



Remote Battery



GPS Signal



Aircraft Battery



Setting



Auto Takeoff

SD Card Status



Photo/Video Switching



GPS Return Home

Shutter



More Functions

Media Gallery
(One key to share)



Altitude(meters)



D 0.0m

H 0.0m

DS 0.0m

VS 0.0m/s



Distance (meters)

Speed (meters/sec)

Sound
Recording



Image follow



GPS follow



Music



VR



Lens angle



Gestural



Ges record



Route rules

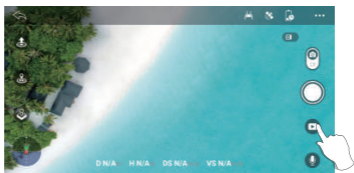


Filter

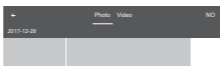


Zoom

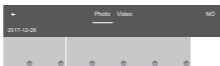
2. APP ONE KEY SHARE FUNCTION



Pic. 1






Pic. 2



Pic. 3

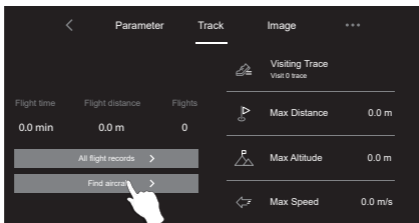


1. Open the app, click , enter into the file (Pic 1.)
2. Click once or press  to choose the photos which will be shared, click , choose the platforms that need to be shared (Pic 3).

Reminder: You can share as many as 9 pictures at the same time. But only 1 video can be shared each time.

3. HOW TO SEARCH FOR LOST DRONE

1. click **Find aircraft >** to open the map surface for search the drone.



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



Current position of the mobile phone

4. FLIGHT SETTING and BEGINNER MODE

The Default GPS Mode is BEGINNER MODE:

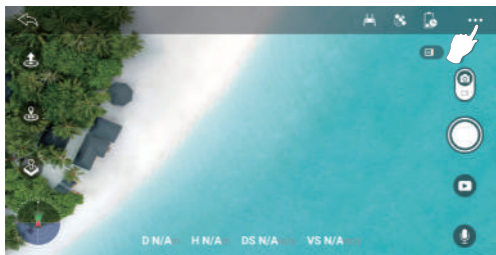
1. Flight Distance is between 0 and 30 m.
2. Flight Altitude is between 0 and 30 m.
3. RTH Altitude is under 20 m.

You can turn off the BEGINNER MODE to set the parameters in the app from the smart phone.

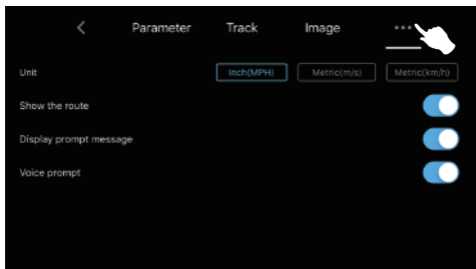


5. HOW TO CHANGE APP UNITS

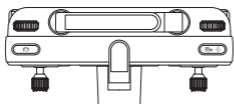
①. Click **...** to enter SETTINGS



②. Click **...** on SETTING to switch units



CAMERA FUNCTIONS





 Take Photo

 Take Video

ICON ON APP

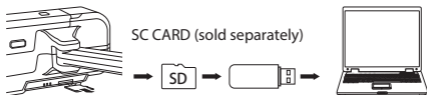
Click  on the controller, or click  on the app, the indicator  will flash once, means the camera takes one photo.

Click  on the controller, or click  on the app, the indicator  will keep flashing, meaning the camera is recording.

Press  again to save the video.

DO NOT take photo during recording.

NOTE: When using the "RUKO DRONE" app, the original photos and videos will be compressed and saved to smartphone.



The original images and videos are saved in the TF card. Press the SD card slightly to take it out, then insert the card into the card reader and insert into the USB input of a computer to read the data from SD card. The images can be also viewed in the app.

SPECIFICATIONS

● Drone

MODEL: F11 GIM

Weight (Including Battery): 585 g/20.6 oz

Flight Time: About 28 min

Motor Model: 1806

Operating Temperature Range:

32° to 104° F (0° to 40° C)

Satellite Systems: GPS/GLONASS

Dimensions (LxWxH): Unfolded: 45X40.5X8 (cm)

Folded: 17.6X10.5X8 (cm)

● Gimbal Stabilization: 2-axis (tilt,roll)

Mechanical Range: Tilt About -100° TO +70°

Roll About -35° TO +35°

Controllable Range: Adjusted angle of camera (up and down):

About -80° TO +0°

● Camera

Lens: FOV: 100°

Equivalent Focal Length: 60 cm

Focus range: Fixed-focus

Resolution of photo: Phone 3840X2160P

SD card 3840X2160P

Resolution of video: Phone 1280X720P

SD card 3840X2160P

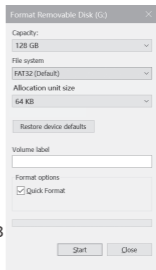
Photo Format: jpeg

Video Format: MP4

Supported SD Cards: Micro SD card (Class

10/U1 or later) 32 GB - 128 GB

Supported File Systems: FAT32



● 5 GHz Transmission

Operating Frequency: 5150-5350 MHz, 5460-5720 MHz, 5758-5825 MHz

Transmitter Power (EIRP): 24 dbm

Supported Transmission Protocol: 802.11a; 802.11n20; 802.11n40

Video Transmission Frame Rate: 30 FPS

● APP / Live View

Mobile App: RUKO DRONE

Live View Working Frequency: 5150-5350 MHz, 5460-5720 MHz,
5725-5825 MHz

Live View Quality:

CONFIGURATION	STORAGE METHOD		RESOLUTION	TRANSMISSION FRAME RATE
4K	Phone	Photo	3840X2160P	
		Video	1280X720P	30 fps
	SD card	Photo	3840X2160P	
		Video	3840X2160P	30 fps

Required Operating System: OS 9.0 or later/Android 5.0 or later

● Controller

Operating Frequency: 2.4 GHz

Capacity: 300 mAh

Operating Voltage: 3.7V

Max Charging Time: 25 min

Operation Time: About 11 hours

Mobile Device Holder: 4.7" to 6.5" Smart Phones

Operating Temperature: 32° to 104° F (0° to 40° C)

● Intelligent Flight Battery

Capacity: 2500 mAh

Voltage: 11.1V

Battery Type: Li-polymer

Energy: 27.75 Wh

Net Weight: 195 g / 6.8 oz

Max Charging Power: 15 W

Max Charging Time: About 4.5 hours (Depending on Charging Power)

Charging Temperature Range: 32° to 104° F (0° to 40° C)

● USB Cable

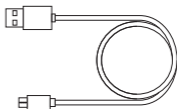
Voltage: 5V= 3A

Rated Power: ≤15 W

PARTS LIST (Included)



Blade X4



USB cable X1
Only for charging



Instructions X1



Allen wrench X 1



Screw X12





COMMON PROBLEMS AND SOLUTIONS

Num	Problem	Reason	Solution
1	The motors don't turn on	Weak GPS signal	Turn on the drone in the outdoors
		The red lights always on	Turn off the drone, pause for about 10 minutes, restart, and calibrate your drone
		All 4 lights are flashing	Refer to step 4 on page 10 of manual for compass calibration.
2	The product has a minor scratches	We tested all of our drone before shipping	For the best experience to you, we tested all of our drones before shipping, so your drone may have slight inevitable blemishes, but it can be guaranteed that all drones are 100% brand new.
3	Video freezes	The drone out of range of the Wi-Fi	Fly the drone within the range of the Wi-Fi
		The Wi-Fi didn't stay connected	Set the phone to connect with the Wi-Fi "RUKO-GIM-*****" automatically. Disconnect your phone from any wireless networks which it may be automatically connecting.
4	App can't display image	The phone is not connected to Wi-Fi	Open the phone Wi-Fi, search name: RUKO-GIM-*****, connect to this Wi-Fi
		The phone doesn't support 5 GHz Wi-Fi	Android 4.44 and above, IOS-8.0 and above, support dual-band Wi-Fi (2.4 GHz and 5 GHz)
		App update needed	Delete this app and try to download and install again.
5	Phone can't connect to Wi-Fi	The Wi-Fi of drone has no internet connection, causing some phones to refuse to connect	Pay attention to your phone and make sure the phone stays connected.
6	The controller does not charge/app always shows the controller low battery	Poor contact due to transportation	Try tapping gently to restore good contact. If it still doesn't work, please contact customer service.
		The phone doesn't connect to the controller since the wrong opening order	The right order is power on the drone first, second the controller and push the left joystick to the 12 o'clock position then to the 6 o'clock position to pair with the drone, and finally the WLAN connection.
7	Video is laggy	Signal interference	Please fly outdoors without interference.
8	Drone always moves left or right	Haven't calibrated the drone	Place the drone on a level surface and recalibrate
9	The app shows weak signal	Nearby signal interference	Move to an open outdoor area to fly.
10	Wobbly in flight	Blade deformation	Replace the blades
11	Loss of control	Signal interference or beyond the controller control distance	Please fly outdoors without interference. Make sure to fly within the control distance.
12	Suddenly falls	The battery is loose and loses power	Make the battery tight to ensure good contact
13	The motor is not working properly	The indicator light continues to flash rapidly	Begin compass calibration. Please place the drone on a solid ground.

Scan the QR code and watch the video guide



LIGHT COLOR INDICATION

Light	color	Reason	Solve
Front and back lights flashing red		Low power	Charge the drone
		The controller is not connected to the drone	Push the left joystick up and down to unlock the controller. Restart, turn on the drone first and then the controller
Front and back lights flashing pink		Compass was disturbed	Continue the calibration process or try another open outdoor place
		The drone turns to the compass calibration process	Continue the calibration process
Lights flashing white and blue		GPS search	It may take several minutes please wait to turn to solid blue patiently.
Lights rapid-flashing white and blue		Gyroscope is disturbed	Recalibrate the gyroscope

⚠ WARNING:

- Please read the instructions carefully before use and keep the card for reference at any time.
- Should be charged with the original USB cable.
- Only batteries of the same or equivalent type can be used.
- Do not mix new and old batteries.
- Please dispose of the worn out batteries correctly as required by the Environmental Protection Agency.
- Keep batteries away from fire or high temperature environment.
- Please check the plug and other accessories periodically. If any damage is discovered, please do not use it until completely repaired.

⚠ WARNING:

CHOKING HAZARD -Small parts.
Not for children under 3 years.



NO FTI GIM

Depend on product configuration

Please understand that the picture on the package may differ from actual product.

Special warning: Adult supervision required for children under the age of 14

*Use in open area and be mindful of your surroundings. Drone is not equipped with obstacle avoidance.

*Drone battery must be charged with the provided USB cable with a power source no greater than a standard 5V wall charger.

Black White Blue

MADE IN CHINA

Any questions or need help, please contact us

Whatsapp: +86 13760395206

Email: Rukodrone@gmail.com

Phone: +1 (707)-461-0782 +1(909) 494-2127