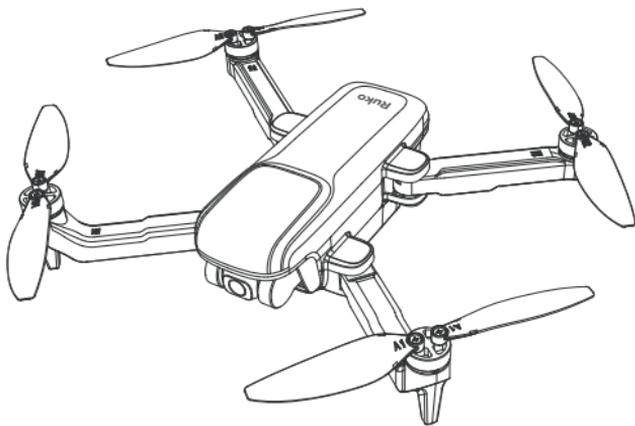


Ruko[®]

14+
for age

Flight Knowledge & Quick Start Guide

v4.0



U11PRO

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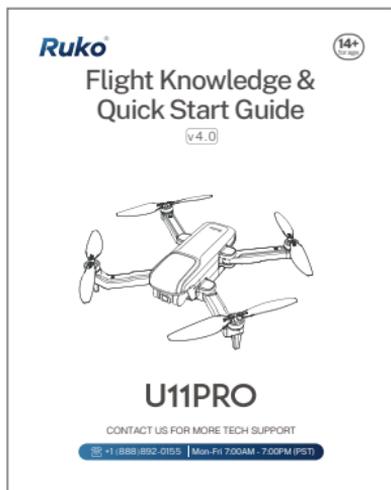
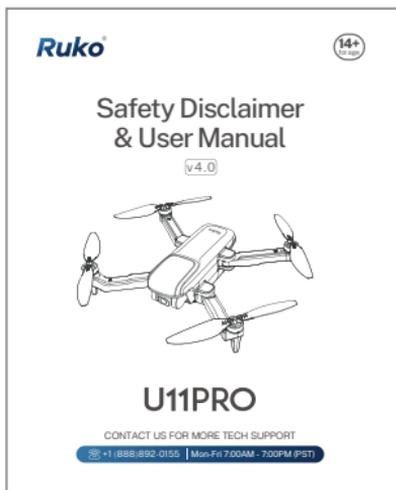


1. Learning How to Fly

There are many steps to operate the drone, you need to understand the performance, settings and operation of the drone.

Learning channels:

1. Manual **2. Quick Guide** **3. APP operation animation** **4. Operation video**



2. Flight Environment and Signal Interference

Obstacles and magnetic fields can cause interference with radio signals. Flying in an open, unobstructed environment can help reduce the likelihood of interference from physical obstacles.

Interference:

Loose Signal Type	Consequences	Solutions
Remote Controller Signal	<ol style="list-style-type: none">1. The remote control cannot control the drone2. Drone Automatically return to home after about 6 seconds	<ol style="list-style-type: none">1. Wait for the aircraft to return automatically2. Change the flight direction or environment flight3. The remote controller is pointed in the direction of the aircraft during flight
WiFi Image Transmission Signal	<ol style="list-style-type: none">1. Can't reach the transmission distance of the publicity image2. Screen freeze	<ol style="list-style-type: none">1. Use one-key return to return the drone2. Change the flight direction or flight environment3. Point the remote control and mobile phone at the flight direction of the aircraft during flight
GPS Signal	<ol style="list-style-type: none">1. Flight instability2. Drift and fly away by itself3. Can't return intelligently	<ol style="list-style-type: none">1. Manually control the drone to a safe area2. Keep away from obstacles and interference places3. The flying height is higher than the surrounding obstacles
Compass	<ol style="list-style-type: none">1. Fly in circles by itself2. Out of control3. Can't return intelligently	<ol style="list-style-type: none">1. Manual operation landing2. Recalibrate the compass Keep away from metal objects, buildings, and sources of magnetic field interference

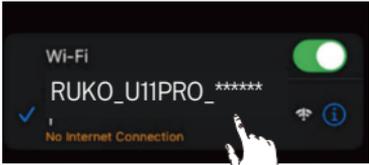
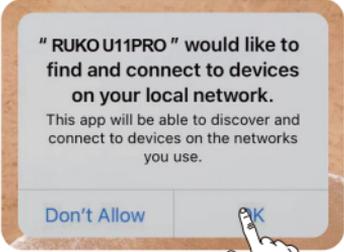
3.GPS Signal Searching

The quality and reliability of GPS signal reception can be affected by the environment

Environment	Searching Time	Search Situation	Situation
Indoor		Can't search	Cannot fly in GPS mode, need to switch to indoor mode
1.Close to Buildings 2.Doorstep 3.Under the Tree 4.Buildings /Forest/ Utility Poles	90s-5min	1. Unstable signal 2. Search failed	1. Unstable flight 2. Drift by itself 3. Cannot fly in GPS mode 4.Can't return home intelligently
Outdoor Open Area	60s-90s	Good signal	1. Flight stability 2.Intelligent flight and return

4. Wi-Fi Connection Settings

The WiFi signal of the drone does not require entering a password, and a setting option or prompt will pop up after connection

Phone System		Analyze
IOS	<p style="text-align: center;">Wi-Fi display</p> 	<p>Displaying no Internet connection or unsafe network is a normal reminder of the mobile phone and does not affect normal use</p>
	<p style="text-align: center;">Wi-Fi Setting</p> 	<p>Whether to allow the APP to access the mobile network permission</p>
Consequences of Wrong Settings	<p>The phone can connect to the WiFi of the drone, but the image transmission screen of the drone will not be displayed after entering the APP</p>	<p>Solution: Reinstall the correct settings</p>

Phone System		Analyze
Android	<p style="text-align: center;">Wi-Fi display</p> 	<p>Displaying no Internet connection or unsafe network is a normal reminder of the mobile phone and does not affect normal use</p>
	<p style="text-align: center;">Wi-Fi Setting</p> 	<p>The drone WiFi can only transmit images, but cannot access the Internet. The system will ask you whether you want to continue using this WiFi (most mobile phones will pop up the settings within 30 seconds after connecting to WiFi)</p>
Consequences of Wrong Settings	<p>After the wrong setting, the phone is disconnected from the drone WiFi, and the image transmission screen of the drone will not be displayed after entering the APP.</p>	<p>Solution: Forget this network, reconnect to the correct settings</p>

5.Equipment Requirements

Equipment Requirements	Detailed Parameters	Usage
Version Requirement	Android 6.0 iOS 10.0.2	Support
Android Phone WANL Function (2.4G+5.8G)	Wi-Fi , IEEE802 . 11 b/g/n	Not Support
	Wi-Fi 802.11 a/b/g/n/ac/6 , dual-band , Wi-Fi Direct , hotspot	Support

6.Pairing & Calibration

Item	Operate	Notice
Remote Control Pairing	Turn on the drone → turn on the remote control → automatically complete the frequency pairing	After the drone is turned off, the remote controller also needs to be turned off, and then turned on again to link to the frequency
Compass Calibration	1. Click on the compass calibration on the APP 2. Horizontal rotation calibration Vertical rotation calibration	When encountering strong magnetic interference, the APP pops up a calibration prompt or calibrates when it is out of control

7.Check Why the Screen Without Image Transmission

Problem	Reason	Solution
No image transmission	Not connected to WiFi	Find the WiFi of the drone and click to connect (the pop-up time of the WiFi of the drone depends on the performance of the mobile phone, you can refresh the WiFi list more often)
	WiFi setting not correctly	For more details, please refer to Chapter 4, WiFi connection settings
Image transmission freezes (in flight)	Signal interference causes image transmission signal instability or interruption	1. Replace the open environment 2.pay attention to flying skills

8. Flying Skills & Shooting Skills

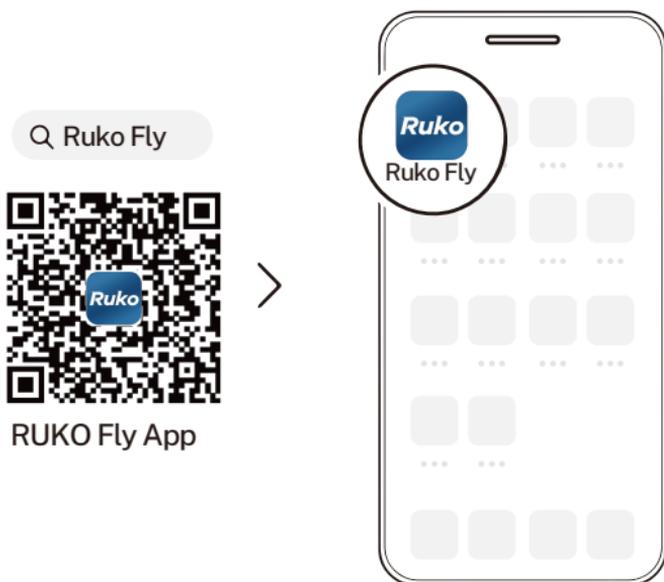
Flying Skills	Precautions	Flight Altitude	Return and Landing
Flying short distances for the first time	Open area	Above obstacles	One key take off or landing
Long distance flight	1. Open area 2. Fly out against the wind 3. The remote control and mobile phone are facing the drone to maintain the best communication	394ft	One key take off or landing

Item	Shooting Knowledge	Picture Effect
Weather selection	Good light, sunny	Cloudy days will affect the imaging clarity
Filming angle	Shot from a straight angle	Shooting at a backlight angle will result in a darker imaging effect, affecting clarity
Video shooting	1.No wind or light wind 2.Hover shooting, control the UAV smoothly and at a constant speed	In windy weather, violent manipulation of the drone will affect the stability of the flight and the stability of the imaging screen
Video file selection	SD card files	The highest pixel video file of the drone is saved in the SD card

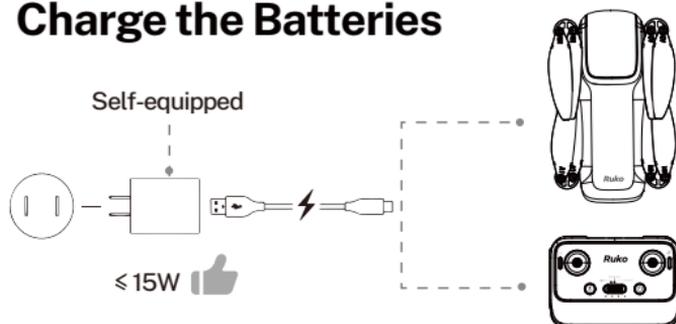
9. Battery Storage & Use

Battery Storage Recommendations	Details	Notice
Storage power	50%-60% power	Long-term full-charge storage will cause battery swelling
Operating temperature	0°-40°	In low temperature weather (below 0°), the power consumption is fast, and the flight time will be shortened
Charging power Charging time	5V=2-3A About 2.5 hours	1. It is forbidden to use high probability chargers 2. Prolonged charging is prohibited. 3. Charge immediately after flight is prohibited
Forbidden to Use	1. The battery is damp and water ingress 2. The battery drops and hits 3. Battery extrusion deformation 4. Battery leak	It is forbidden to use the battery when it is obviously abnormal, so as to avoid safety incidents such as power failure, crash, smoke and fire

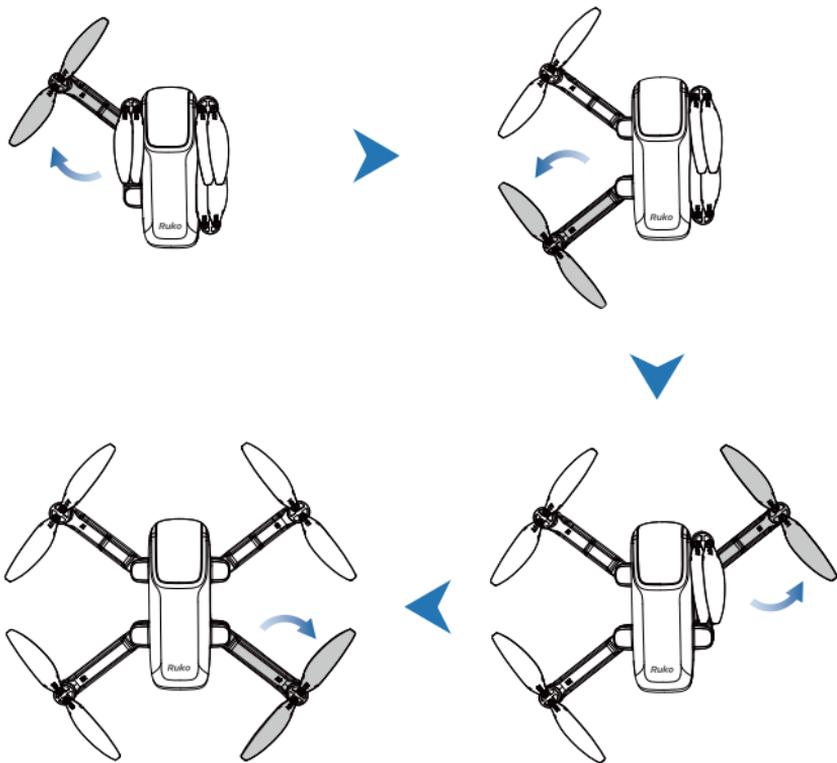
1.Download App



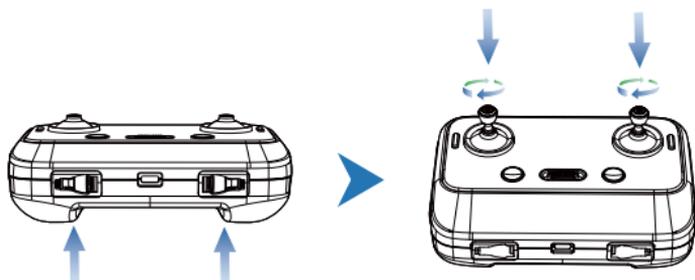
Charge the Batteries



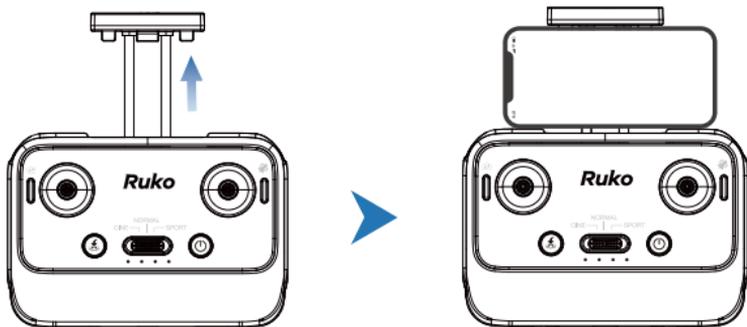
2. Unfold the 4 Arms of the Aircraft



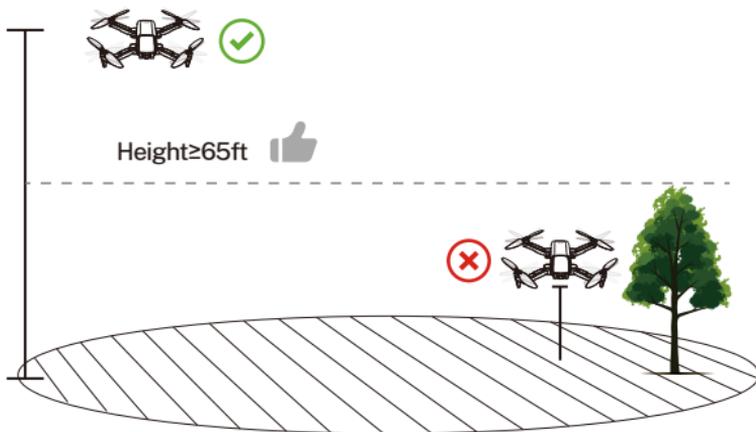
3. Unfold the Remote Controller



Put the Phone on the Holder



4. Select an Open Flying Area



5. Automatically Pair the Remote Controller with the Aircraft

1



- Remove the sponge sheet, then install the battery.

2

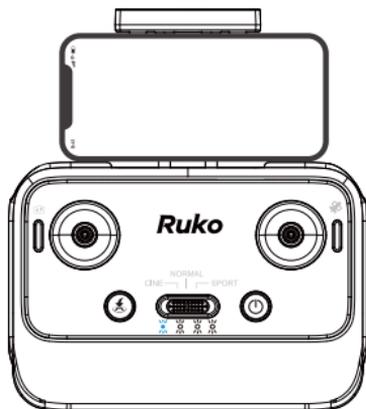


- Press and hold the button until the Aircraft plays startup sound.

3



- Long Press power switch for 3 seconds until the 4 indicator light flash



Once successfully paired, 4 indicator light flashing change to indicator light is always on.

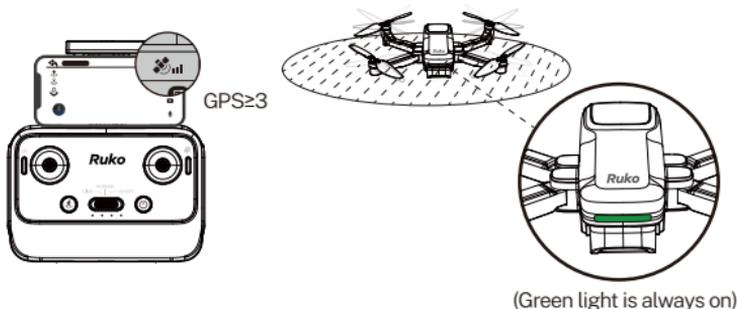
6.Connect to Wi-Fi

- Connect the mobile device to the Aircraft's Wi-Fi and enter the App operation page. Please refer to User Manual for more details.



Tap "Control" icon

Search for GPS Automatically



- ⚠ Tips:
1. The searching time depends on the flight environment.
 2. If unsuccessful, the motors can't be started.
 3. Once the $GPS \geq 3$, the green light of the drone is always on.

Start the Motors

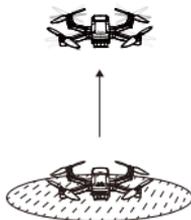
- Push joysticks to 5 & 7 o'clock position.
(About 2 seconds)



A level ground

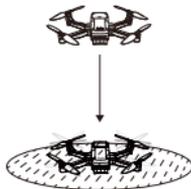
Take off

- Push up the left joystick.



Landing

- Push down the left joystick





NEW TO FLYING DRONES?

1



2



Check the Flight Guide in the App



Search **“Ruko U11 Pro First Flight”**
on YouTube for First Flight



Scan QR Code for More
Tech and Video Support

Common Problems and Solutions

Question	Reason	Solutions
Short battery life	The drone was not be charged when you received it	Please use a charger with 5V/3A to charge and discharge it three times or more
	Flying in cold weather	In low temperatures, the chemical reaction of the lithium battery is slowed down and the energy cannot be fully released
	Flying in windy weather	Flying in windy weather will accelerate power loss
Video and photo pixels are not 4K	The memory card setting is not set to 4K	In the upper right corner of the APP, enter the SD card and set it to 4K@15fts.
	Dim light when shooting	Find the best light angle when shooting, and the shooting effect will be better.
Wi-Fi can't be found or connected	Your phone doesn't support dual-band Wi-Fi	Change to another phone which supports dual-band Wi-Fi
	Your phone has a high-security system and treats it as unsafe Wi-Fi, refuse to connect	For android phones, please wait for seconds after connecting with the drone's Wi-Fi, if there is any, make sure your phone treats it as safe Wi-Fi to connect it.
	Wi-Fi still can't find after turn on the power	The Wi-Fi connect speed depends on reaction speed of the phone, please try to refresh the page
GPS signal can not be searched	The drone flies indoors (not recommended)	Recommend to fly the drone outdoors
	There is signal interference around, such as tall buildings and trees	Go to the another open-air area to fly the drone
Pictures and videos can not be saved in SD card	The card memory is full	Delete the contents of the SD card
	Use other formats and unsuitable SD card	Format the memory card and select FAT32 as the file system at the same time Choose the SD card memory is 32G or less, and the speed is over Class 10
The drone cannot return to home or drift	The GPS mode was turned off	Please check the GPS lights on remote control whether is off
		Please check it whether has GPS signal notification of closing on APP
		Turn on GPS mode when flying outdoors, Smart RTH and low battery RTH can't be used
The drone can't take off after unlocking	Do not search GPS signals successfully	Please go to an open area to fly it Search GPS signal again
	It does not switch to the indoor mode if you are indoor	Turn off GPS mode and switch to indoor mode(not recommended)
Can't take off after replacing propeller or flip over when taking off	The propellers are installed incorrectly	Please install the propellers according to the marks in the drone arm

Question	Reason	Solutions
The drone will rise automatically	The default altitude settings of Smart RTH and Low RTH is 20 meters	Notice: The drone will automatically rise to 20 meters to return and then land When below the default altitude
The drone flies unstably	Fly the drone in a windy weather	Adjust to high-speed mode to fly the drone Do not fly the drone under windy weather
	The drone does not do a right calibration	Please find the calibration function in the APP for Compass and Acc calibration
	Turned off GPS mode, Flying altitude was lower	Flight altitude greater than than 9 ft, less than 9 ft affected by air currents, It is recommended to fly outdoors in GPS mode with good GPS signal
There is no picture on the APP	It does not connect to the Wi-Fi successfully	Connect to Wi-Fi Successfully, complete network settings
Image transmission got stuck	There has signal interference in the flight environment	It is recommended to fly in an open area with little wireless signal interference
	The device runs too many programs to reduce the performance of the mobile device Signal direction is not aligned	Close other running program of the mobile device to get the best performance of the mobile device Please keep the remote control and phone pointing in the same direction as the drone during flight
		Transmitter and phone signals need to be aligned with the drone

Ruko Tech Support
<https://rukotoy.com/support-drones>

This User Manual is subject to change without notice.

**You can check the recently updated version of "User Manual"
on Ruko's official website**
<https://rukotoy.com/support-drones>

If you have any questions or suggestions about the User Manual,
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