

SNAPTAIN



P10&P10+

■ Beginner GPS Drone

Age
14+



USER MANUAL

Please read this manual carefully before flying and keep it for future use.

Model:DR-STP11G

- For your safety, please follow the rules and safety guidelines whether you're a beginner or an expert at flying drones.
- According to the relevant laws and regulations in US, all drones must be registered, except those that weigh 0.55 pounds or less (less than 250 grams) and are flown exclusively under the Exception for Recreational Flyers. Please log in to the website of <https://faadronezone-access.faa.gov/#/> to complete the registration. Make sure to observe local laws and regulations about the take-off weight. If the buyer does not register timely, SNAPTAIN will not be responsible for any losses, penalties and injuries caused by illegal flights.
- To meet the electromagnetic requirements of aviation on the radio station, it is forbidden to fly drones within 6.21 miles(10km) on both sides of the runway centerline, or within 12.43 miles(20km) of both ends of the runway. It is also prohibited to fly a drone on the route of an airline. In the area that is prohibited by the relevant authority or department of your country, stop using all flying models and unmanned quadrotors.
- Please download the B4UFLY App from Google Play or App Store, which provides real-time information about airspace restrictions and other flying requirements based on your GPS location.
- Beginning September 16, 2023, all drone pilots who are required to register their UAS must operate in accordance with the rule on Remote ID.
- Failure to register a drone may result in regulatory and criminal penalties.

ENGLISH



Thank you for choosing our product and putting your trust in us.

Contact us via email at

support@snaptain.com or call us **(415)991-6646(Mon-Fri)**
if you have questions or concerns about the product.

We hope our products will make flying a whole new experience for you!

Please read the manual carefully for the best use of this product.

CONTENTS

FLIGHT SAFELY	01
BATTERY SAFETY	07
WHAT'S INCLUDED	08
PRODUCT OVERVIEW	09
Drone	09
Remote	11
FIRST-TIME USE	12
Flight Preparation	12
Calibration (Optional)	17
Connect the App with Your Drone	18
FUNCTION OVERVIEW	19
Flight Control	19
Functions	21
ARM INDICATOR LIGHTS	28
TOP INDICATOR LIGHT	29
REMOTE STATUS INDICATORS	29
SPECIFICATIONS	30
Drone	30
Camera	31
Remote	31

FLIGHT SAFETY

* Please fly the drone indoors or in a windless open area. The maximum flight height is limited to 80m(262ft), and the maximum flight distance is limited to 300m (1000 ft). Before your first flight, please read the **User Manual** and **Quick Guide** carefully. For detailed operations, refer to the **Flight Control** section.

1. For the safety of your property, keep the drone within your visual range during flight.
2. The drone is made of materials including metal, fiber, plastic, and electronic components. Avoid prolonged exposure to direct sunlight and keep them away from any heat sources. Excessive heat can cause deformation and damage.
3. The drone consists of various precision electronic and mechanical parts. Therefore, make sure that moisture and water do not enter the drone to prevent mechanical or electronic component failures that could lead to accidents.
4. The performance of the drone and battery can be affected by environmental factors such as air density and temperature. Exercise caution when flying at altitudes above 3000 m (10000 ft) above sea level, as the performance of the battery and drone may be reduced.
5. To avoid interference between the drone and other wireless devices, please turn off other wireless devices while using the drone.
6. Avoid flying in areas where magnetic or radio interference may occur, such as near Wi-Fi hotspots, routers, Bluetooth devices, high-voltage power lines, high-voltage power transmission stations, mobile base stations, or broadcast towers. Flying in areas where interference can disrupt communication between the drone and remote may adversely affect flight direction and positioning accuracy, possibly resulting in loss of control. Interference can also cause errors in the video downlink connection.

FLIGHT SAFETY

7. Be cautious around children. Avoid placing fingers in the rotating propellers.
8. Inside the packaging are small accessories. Do not swallow them. Seek immediate medical help if accidentally ingested.
9. Secure valuable items during indoor flights to prevent accidental damage due to operational errors.
10. – non-rechargeable batteries are not to be recharged;
 - for electric toys using rechargeable batteries, the batteries should be charged under adult supervision. For batteries charged using a battery charger for use by children, this instruction may be replaced by: "Batteries are only to be charged by persons of at least 8 years old";
 - different types of batteries or new and used batteries are not to be mixed;
 - batteries are to be inserted with the correct polarity (+ and –);
 - exhausted batteries are to be removed from the toy;
 - the supply terminals are not to be short circuited.
11. Do not touch the rotating rotor, avoid loose clothing or hair that could be caught in the rotor, do not fly near the face. Advice to adult supervisors to teach children how to safely fly and control the toy.
12. Use this toy with caution.

Adult supervision is required while children are using the drone, and children should learn flying techniques to avoid collisions with people or objects.

Do not approach the drone during startup.

Avoid touching the rotating propellers and keep loose clothing or hair away.

Adults should read the safety guidelines and manual before guiding children.

Keep the manual for future reference.
13. Rotor blades that are designed to be replaceable shall be accompanied by instructions that clearly indicate the steps necessary to remove and securely replace the rotor blades.

FLIGHT SAFETY

14. During the flight of the drone, it is not allowed to mount any items other than the memory card to avoid safety accidents.
15. If the environmental interference is too large (such as electromagnetic interference, high wind speed), it may cause accidents during drone flight. Please avoid flying in such environments.
16. When the drone is disconnected due to long distance or environmental interference, it will wait for 5 seconds in the air to reconnect. If it cannot reconnect, it will automatically land. At this time, the remote control and APP will prompt that the connection is disconnected.
17. It is recommended to check the drone and remote controller before takeoff, including but not limited to whether the propellers and arms are damaged, whether the drone and remote controller batteries are sufficient, whether the remote controller buttons cannot be pressed, etc.
18. If you are a beginner, in order to protect flight safety, we have enabled the beginner mode on the app by default to limit the flight height and distance. If you are already proficient in flying, you can freely choose to turn off or adjust the range of the beginner mode.
19. Please stay away from crowds before taking off, and avoid flying and filming over buildings, residential areas, etc., as this may infringe on the privacy of others.
20. Please fly during the day and avoid flying in an environment with a relative humidity of more than 40%. Do not take off when it is raining, snowing, hail, or foggy. Natural disasters such as thunderstorms, bird flocks, and sandstorms must be avoided during flight.
21. Please stay away from obstacles during flight and keep a distance of at least 1m.

FLIGHT SAFETY

Before Takeoff:

Check Equipment: Ensure the drone, remote control, battery, propellers, and other components are intact and fully charged. Risk: Equipment malfunction may cause loss of control or crash.

Choose Location: Avoid crowds, buildings, trees, and other obstacles; select an open and safe area for flight. Risk: Poor location choice may lead to collisions or disturbances.

Understand Regulations: Comply with local drone flight regulations and obtain necessary permits. Risk: Violating regulations may result in legal penalties or accidents.

Monitor Weather: Avoid flying in adverse weather conditions such as strong winds, rain, snow, or fog. Risk: Bad weather may cause loss of control or equipment damage.

During Flight:

Maintain Visual Line of Sight: Always keep the drone within your line of sight and avoid beyond visual line of sight (BVLOS) flights. Risk: Losing sight may lead to loss of control or the drone going missing

Control Altitude: Adhere to local altitude restrictions and avoid no-fly zones. Risk: Improper altitude or entering no-fly zones may cause collisions or legal penalties.

Monitor Battery: Keep an eye on battery levels and ensure sufficient time for return. Risk: Low battery may cause the drone to crash.

Avoid Interference: Stay away from interference sources such as airports, power lines, and radio towers. Risk: Interference may cause loss of control or signal loss.

FLIGHT SAFETY

After Flight:

Land Safely: Choose a flat, open area for landing to avoid collisions. Risk: Improper landing may damage the drone or harm others.

Power Off: Turn off the drone first, then the remote control after landing. Risk: Not powering off may lead to accidental activation or battery damage.

Inspect Equipment: Check the drone for damage and clean debris from the propellers. Risk: Unnoticed damage may cause accidents during the next flight.

Storage and Transportation:

Store Properly: Keep the drone in a dry, cool place, avoiding direct sunlight and high temperatures. Risk: Improper storage may cause equipment aging or battery damage.

Secure Battery: Ensure the battery is fixed during transportation to avoid shaking or short circuits. Risk: Shaking or short circuits may cause fire or explosion.

Use Protective Case: Transport the drone in a dedicated protective case or box to prevent collisions and pressure. Risk: Improper transportation may damage the equipment.



+



+



+



Fly in Open
Areas

Strong GPS
Signal

Maintain Line
of Sight

Maximum flight
altitude height is
about 80m (262 ft)

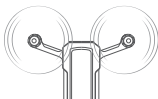


Avoid flying over or near obstacles, crowds, high-voltage power lines, trees, airports, or water areas.

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



DO NOT use the drone in adverse weather conditions such as rain, snow, fog, and wind speeds exceeding 5 m/s or 12 mph.



Stay away from the rotating
propellers and motors



No Fly Zone



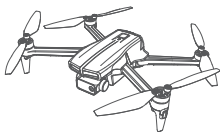
For your safety and that of those people around you, it's important to understand basic flight guidelines. Before flying, make sure you read the safety precautions.

BATTERY SAFETY

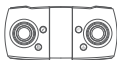


- RISK OF EXPLOSION BATTERY IS REPLACED BY AN INCORRECT TYPE
- DISPOSE OF USED BATTERIES ACCORDING TO THE INSTRUCTIONS
- BATTERY MUST BE RECYCLED OR DISPOSED OF PROPERLY
- Under no circumstances should the battery touch any liquids. Avoid using the battery in rainy or wet conditions, as it may catch fire or explode unexpectedly.
- It is not allowed to use batteries that are not provided by the manufacturer. Additionally, it is advisable to use the package-included USB charging cable for charging the batteries.
- Batteries that are swollen, leaking, or damaged are strictly forbidden.
- It is recommended to use the battery between 0°C and 40°C; overheating may lead to a fire or explosion. A battery's performance can be adversely affected by extremely low temperatures.
- Do not insert or puncture the battery with any sharp object.
- Battery liquid is highly corrosive, so stay away if it leaks. If skin or eyes are contacted, rinse immediately with plenty of water and seek medical attention.
- Please keep the battery out of children's reach. Immediately seek medical attention if a child swallows parts.
- After being dropped or impacted, the battery should not be used again.
- Place the battery away from heat sources, such as a car in direct sunlight or on a hot day, a fire or a stove.
- To prevent a battery from entering an over-discharged state, avoid storing it for extended periods of time once it has been fully discharged. If a battery is over-discharged, the battery cell will be damaged and unable to be recharged.

WHAT'S INCLUDED



Drone x1



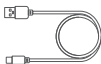
Remote x1



Battery x2



Spare Propellers
(Ax4 Bx4)



Charging Cable x1



Screws



Screwdriver x1



Storage Bag x1



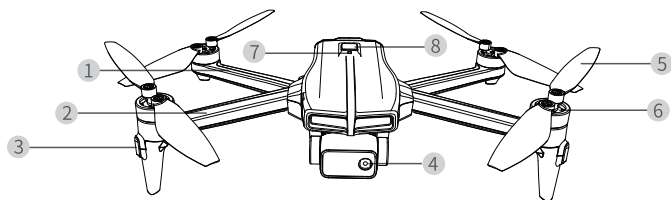
User Manual x1



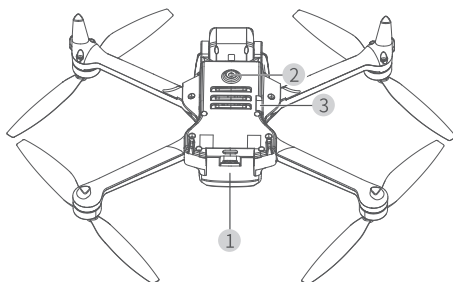
Quick Guide x1

PRODUCT OVERVIEW

Drone



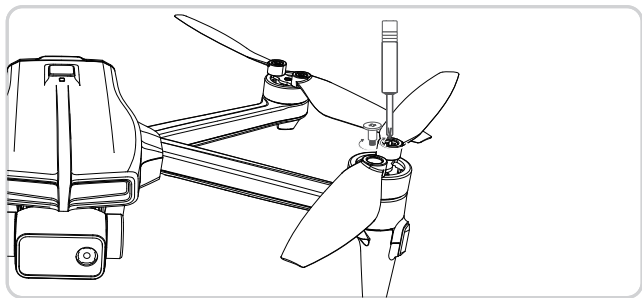
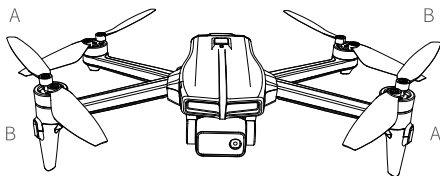
- | | |
|-----------------------|-----------------------|
| 1 Rear Arm | 5 Propeller |
| 2 Front Arm | 6 Motor |
| 3 Arm Indicator Light | 7 Top Indicator Light |
| 4 Camera | 8 Power Button |



- | | |
|-----------------------|----------------------|
| 1 Battery | 3 Micro SD Card Slot |
| 2 Optical Flow Sensor | |

*How to Replace the Propeller(Optional)

The marks on the propellers (A/B) should match the marks on the drone arms when you replace the propellers.

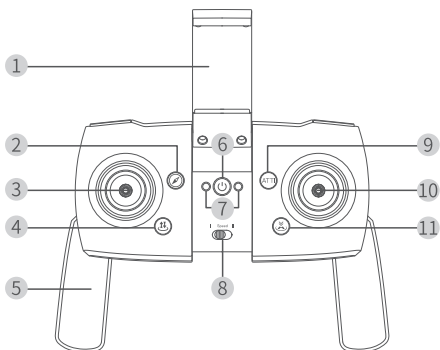


A propeller : Starting with letter A,
like A1, A2, etc.

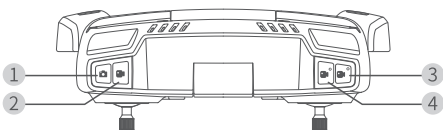


B propeller : Starting with letter B,
like B1, B2, etc.

Remote



- | | |
|------------------------------------|-------------------------|
| ① Phone Holder | ⑦ Status Indicators |
| ② Compass Calibration Button | ⑧ Speed Switch |
| ③ Left Control Stick | ⑨ Attitude Mode Button |
| ④ One Key Takeoff / Landing Button | ⑩ Right Control Stick |
| ⑤ Handle | ⑪ One Key Return Button |
| ⑥ Power Button | |

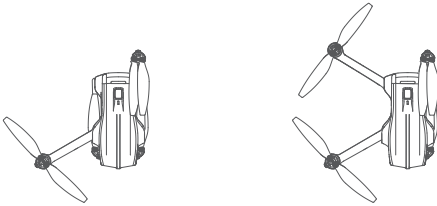


- | | |
|----------------|---------------|
| ① Take Photo | ③ Camera Up |
| ② Record Video | ④ Camera Down |

FIRST-TIME USE

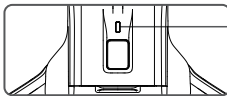
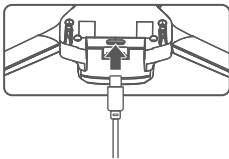
Flight Preparation

1. The propellers and arms of the drone are folded for packaging purposes. Please unfold the front arms, then the rear arms.



2. Charge the battery with the USB charging cable provided in the box. The cable can connect to a plug with a maximum output of 5V/2A.

Charging (battery $< 30\%$): Top indicator light flashes red slowly.
Charging (battery $\geq 30\%$): Top indicator light flashes green slowly.
Fully charged: Top indicator light remains solid green.

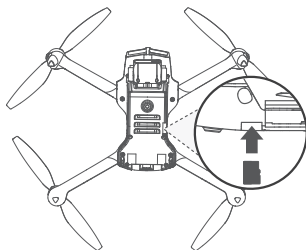


When battery is low, the arm indicator lights flash red rapidly;
when battery is critically low, the arm indicator lights flash red slowly while the top indicator light turns solid red.

Notes

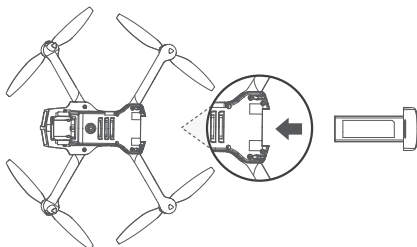
- ① It's not recommended to charge the battery using the USB port of a PC.
- ② Please note that when flying in low-temperature environments, the flight time of the drone may be reduced.

3. Insert a memory card into the memory card slot. (Memory cards must be purchased separately. However, you can still use the drone's camera even if a memory card is not inserted, although the resulting videos and pictures may not be in high-definition quality).



- * Support up to 128GB
- * Support FAT32 and EXFAT formats

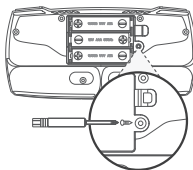
4. Install the battery into the drone after it's fully charged.



5. Insert 3 AAA batteries into the remote and tighten the screw.



1.5V AAA Battery x3
(not included)



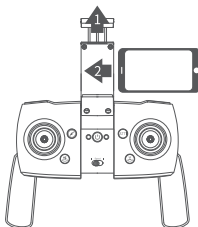
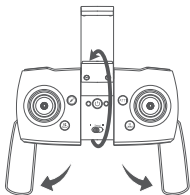
Loosen

Tighten

Low Battery:

Status indicators on the remote flash red slowly.

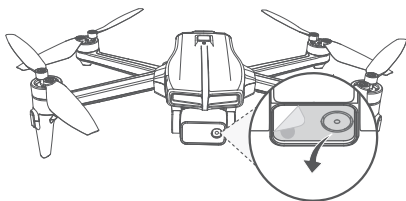
6. Unfold the phone holder and handles. Then mount your mobile phone to the phone holder.



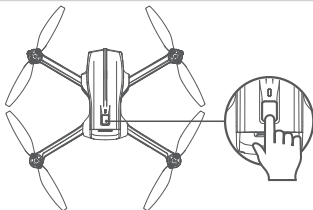
Note

The phone holder can accommodate smartphones with a width up to 80.01 mm (3.15 inches).

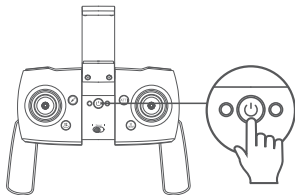
7. Please remove the protective film on the lens before flying.



8. Place the drone on a flat and level surface, then press and hold the power button on the drone for 2s to power it on.

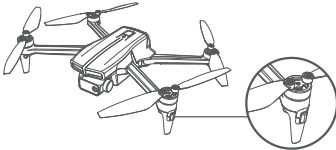


9. Press and hold the power button on the remote for 2s to power it on. The drone will automatically pair with the remote. If the pairing does not succeed within 30 seconds, please power off the remote and drone and then try again.



- * **Pairing:** Status indicators flash green rapidly.
- * **Successfully paired:** Status indicators turn solid green.

10. Wait for the drone to search for GPS signals and enter GPS mode. The arm indicator lights will change from flashing green to solid green. Then, it is ready for take off.



Flashing green → Solid green

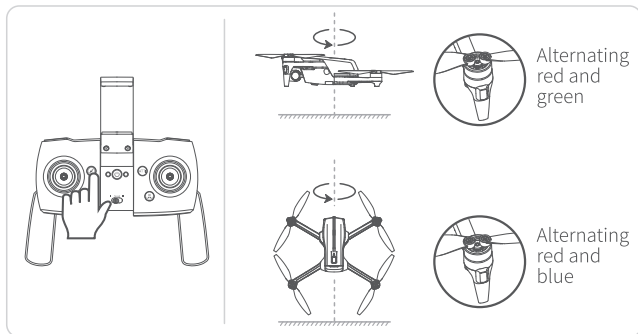
Notes

- * If the drone fails to search for a GPS signal within a few minutes, it indicates that the signal strength at your current location is weak. Please move your drone to an open area with a stronger signal and try again.
- * To return accurately, the drone needs to acquire home point info using GPS positioning when takeoff, so please launch the drone in an outdoor area with strong GPS signal. Poor GPS signal or indoor takeoff will switch the drone to Attitude mode, potentially leading to unstable control.

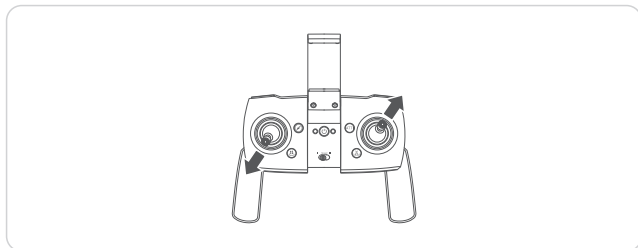
Calibration (Optional)

For the first time use, it is recommended to calibrate the drone.

Compass Calibration: Press the  button on the remote for 3 seconds to activate the compass calibration. Or, launch the app, go to **Control > Compass > Calibration**, and follow the instructions to perform horizontal and vertical calibration.



Gyroscope Calibration: Simultaneously push the left control stick to the lower left corner and the right control stick to the upper right corner, or launch the app, go to **Control > Gyroscope > Calibration**, and follow the instructions to perform calibration.



Connect the App with Your Drone

Step 1:

Download and install **SNAPTAIN Sky** from Google Play™/App Store™ or scan the QR codes below.



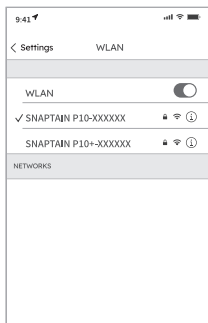
For Android 8.0 and later



For iOS 8.0 and later

Step 2:

Simply navigate to the WiFi setting of your mobile phone and search for **SNAPTAIN P10-XXXXXX** or **SNAPTAIN P10+-XXXXXX** WiFi to connect.



Step 3:

Launch the **SNAPTAIN Sky** app, then tap **START** to enter the main page to see the live preview.

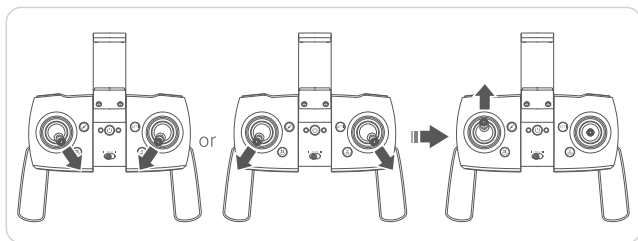
FUNCTION OVERVIEW

Flight Control

1. Take-off

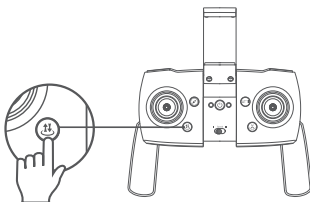
Option 1:

Unlock the drone by simultaneously pushing the **Left Control Stick** to the lower right at 45° and the **Right Control Stick** to the lower left at 45° (or **Left Control Stick** to the lower left and **Right Control Stick** to the lower right) until the propellers start rotating. Then, push the **Left Control Stick** forward.



Option 2:

Press and hold the **One Key Take-off** button for 1s.



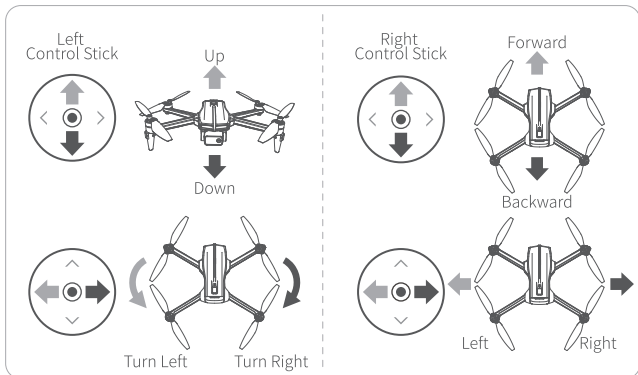
Note

Before taking off, ensure the drone is on a level surface and the surrounding area is obstacle-free.

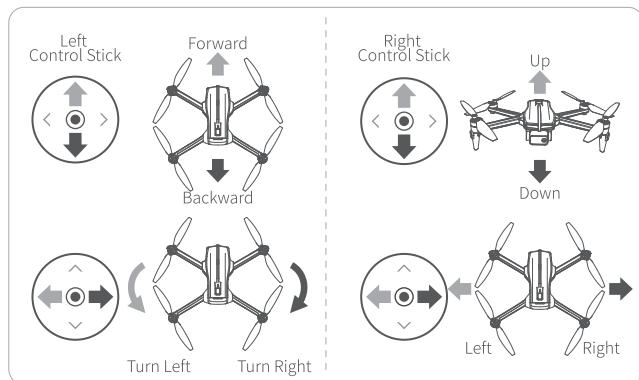
2. Flight Directions

The default remote mode is Mode 1 (used for manual illustration). To switch the mode: with the remote turned off, press and hold the  button; while holding the  button, press and hold the **Power button** until the remote is turned on.

Mode 1

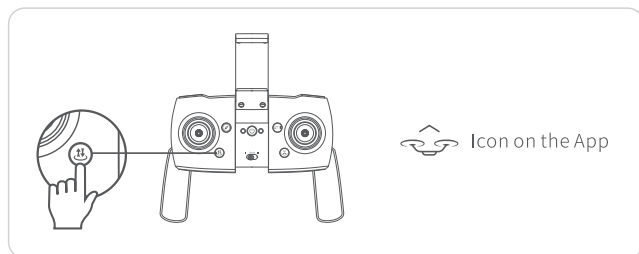


Mode 2

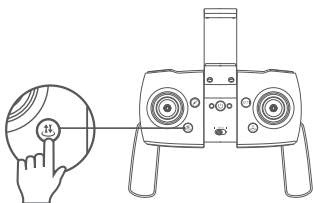


Functions

One Key Take-off and Landing



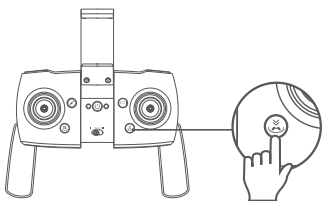
* Land: When the drone hovers in the air without any obstacles, press and hold the  button for 1s to make it descend and land until the propellers stop rotating.



Icon on the App

One Key Return

Press and hold the  button for 1 s on the remote. The drone will automatically return to the recorded takeoff point (home point). To cancel this function, press the  button again.



Icon on the App

Note

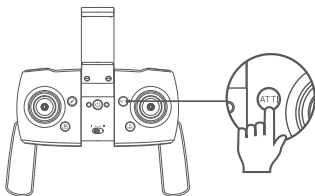
When the drone's battery level is critically low or the drone and the remote disconnect, it will initiate a return. You can manually control its return within a 30-meter distance between you and the drone, and if the drone is within 5 meters of the home point, it will descend and land directly.

GPS Mode / Attitude Mode

When GPS signal is strong (outdoors or areas with weak signal interference), the drone automatically switches to **GPS Mode**, making all GPS-related functions available. In areas with weak GPS signal, the drone will not take off for safety reasons. To proceed with takeoff, manually switch to **Attitude Mode** by pressing and holding the **ATTI** button on the remote for 3 seconds. The drone will remain in **Attitude Mode** until the drone is restarted.

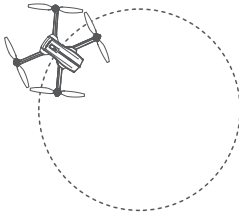
Note

In Attitude Mode, all GPS functions are unavailable and the drone cannot automatically return home, affecting flight safety. For safety purposes, please maintain a safe distance from crowds, fly in open areas, and keep the drone within your line of sight.



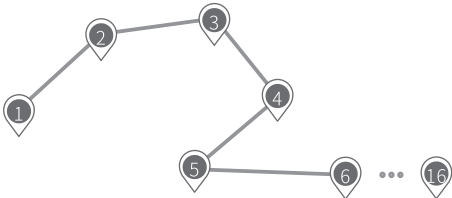
Circle Fly

Ensure there are no obstacles around the drone. Launch the app, tap  on the flight control interface and select  to set the desired radius, then confirm to initiate the circular flight pattern. You can use the left control stick to adjust the circular flight altitude and the right control stick to stop circular flight.



Waypoints

To initiate a **Waypoint Flight**, launch the app, tap  on the flight control interface and select . Follow the instructions to choose up to 16 waypoints within the circle on the map, and then tap **Start** to begin the flight. The drone will then fly to each waypoint in sequential order.



Intelligent Shooting

You can access the intelligent shooting modes next to the shutter icon  on the app's flight control interface.

Far Away:

The drone will fly backward and upward from the current position for about 15 meters (49.21 ft) while recording a video. Afterward, it will return to the original position.

Rocket:

The drone will vertically ascend about 15 meters (49.21 ft) from the current position while recording a video. Afterward, it will return to the original position.

Panorama:

Tap the  button to start capturing, and then manually control the drone to rotate horizontally. Tap the  button again to stop capturing.

Time-lapse:

Choose the desired time-lapse interval, and then tap the  button to start capturing. Tap the  button again to stop capturing.

Notes

- * Please use these functions in a spacious area to prevent any potential collisions.
- * These functions only work when the drone is flying, so activate them after hovering the drone at the desired position.
- * If any unexpected situation occurs, use the control stick to interrupt the drone's actions.

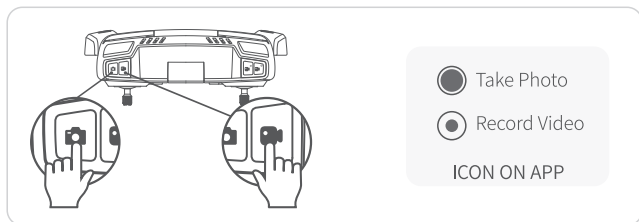
Camera

Take Photos:

Press the button  on the remote or tap  on the app to take a photo. The photo will be saved both on your mobile phone and the memory card.

Record Videos:

Press the button  on the remote or tap  on the app to start recording a video. Press the same button or tap the same icon on the app again to stop recording. The video will be saved both on your mobile phone and the memory card.



Tip:

* To adjust the camera tilt angle, press the **Camera Up** and **Camera Down** buttons on the remote. The adjustment range is from 0° to 90°.

Switch Speeds / Reset Drone's WiFi Password

Switch speeds: Toggle the **Speed Switch** to select between two speed levels: slide left for slow, right for fast.

Reset WiFi password: Press and hold the **Take Photo** button for 5 seconds to clear the drone's WiFi password. You can also clear and reset the password directly in the app.