滚滚长江东逝水

MINI X

Foldable GPS Drone

16+

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

★ In order to ensure the electromagnetic environment requirements of airport radio navigation stations, radio navigation facilities, radio communication stations, aviation meteo-rol stations, and using various medical devices, the flying zones issued by relevant state departments, stop using of UAV and other equipment.

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FOREWORD

Thank you for purchase our product. We hope it brings you much joy and more convenient to you in your life.Drone must be manual controlled before operating it, and please know the basic knowledge of the drone before flying.

Important statement

1.This product is not suitable for use under age 18. The product is a precision equipment with high-tech integrated circuits, and it is not a toy. Improper operation may cause injury, and requires correct assembly and knowledge to control a drone. The product cannot be used or modified beyond the given directions. Improper operation may cause serious damage to the product and property.

2.The product is suitable for people who have experience in operating models and aircraft or have flying experience.

3.In case of problems in use, you can contact you local dealer or relevant person for help. Don't disassemble the product.

Safety Precautions

The drone is much heavier than toys.Do not use drone flying between assembly or storage to avoid injuries. Please keep your hands and other parts of your body away from the propellers and motors to avoid being cut or pinched injury. The operator should pay attention to the safety of surrounding people and pets when the drone is in the air or on the ground.

1.Keep away from obstacles and people

The battery and motor of the drone are high-power components.Do not use the product in flying in severe weather such as wind and rain, as it may lose the security of pilots or people around due to loss of control.

2.Keep away from heated environment

Do not place the drone near heat sources such as heaters, stoves, ovens, and other heat sources. Therefore, it is necessary to prevent the aircraft from getting wet or moisture entering the electronic equipment and causing short circuits and other phenomena affecting the performance.

3.Fragile and Precious product, please care original parts for modification or accessories.

Do not disassemble or modify the product without authorization, and do not use products with damaged parts. Please use the original parts and the product with the original specifications, otherwise it may cause abnormal operation and affect the flight stability and safety.

4.Avoid Exposure Lens

Before flying please make sure the lens cover is open and the lens is free from scratches or damage. Please ensure the lens is clean and free from fingerprints, dust, or other obstructions to prevent blurry or distorted images.

5.Keep away from high-speed rotating parts

Keep your hands and other parts of your body away from the fast-rotating motors to avoid injuries or damage to the drone.

6.Keep away from electrical appliances

The remote control drone is composed of motor, filter, plastic, electronic components and other precision parts. Please keep away from high-voltage electrical equipment to avoid unpredictable problems and serious damage to the drone.

WARNING

1.The packaging and instructions contain important information and should be treated. 2.A 4-year battery is passed damage and injury to people and property.

3.Please read the instructions carefully before flying and fly the drone in accordance with the operating instructions. A safe distance of 10 meters must be maintained from the drone at all times while it is operational. It will consist injuries.

4.Do not disassemble the product without authorization. Modifying it may lose and damage caused by improper use or operation, and void warranty claims.

5.Children should be supervised by an adult when operating the Drone.

6.Do not operate the product in poor weather such as rain.

7.Please follow the instructions in package instructions for proper installation and use. The product should be assembled by adults.

8.The product is not suitable for people under the age 8 out of the reach of children to avoid choke hazards.

9.Do not allow children to play with the drone in the place where there is water, to avoid accidents.

10.Please pack up the packing materials in time to avoid harm to children.

11.Please keep the product away from heat sources to avoid deformation or overheating.

12.The battery in the charger battery box must be plugged into the specified power source and cannot be connected to other devices.

13.Please use the charger provided by the manufacturer. Other chargers may be used to replace flying or cause another such as and and can, as causes the security of people or property damage and personal injury.

14.Keep away from heated environment

Do not place the drone near heat sources such as heaters, stoves, ovens, and other heat sources. Therefore, it is necessary to prevent the aircraft from getting wet or moisture entering the electronic equipment and causing short circuits and other phenomena affecting the performance.

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Keep your hands and other parts of your body away from the fast-rotating motors to avoid injuries or damage to the drone.

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The remote control drone is composed of motor, filter, plastic, electronic components and other precision parts. Please keep away from high-voltage electrical equipment to avoid unpredictable problems and serious damage to the drone.

SAFE FLIGHT

Do not fly above or near people, trees, high-voltage power, buildings, airports or waters, and high-intensity power lines or base stations, as it may affect the compass or the drone.

Do not use the drone in severe weather conditions such as rainy day, snow, fogging and windy day, the wind speed is more than level 5 - 6 (Beaufort).

Unknown the safety problem and unknown the consequence for safe flight. Please read the safety Guidelines carefully before flying.

DRONE DIAGRAM

Turn on the Drone by pressing and holding the Power button for 3s.Press once to enter standby mode.

Drone flashes green, indicating the drone is ready to fly.

Drone flashes red, indicating the drone is not ready to fly.

Drone flashes yellow, indicating the drone is in standby mode.

Drone flashes red and yellow, indicating the drone is in the process of being upgraded.

Drone flashes red and blue, indicating the drone is in the process of being upgraded.

Drone flashes red and green, indicating the drone is in the process of being upgraded.

Drone flashes red and white, indicating the drone is in the process of being upgraded.

Cautions

1.Please do not short circuit or squeeze the battery to avoid explosion.

2.Do not use different types of flash batteries.

3.Do not disassemble, dissassemble or throw the battery into a fire, do not place the battery in a high-temperature environment, and do not use the battery in high-pressure environments.

4.Use a soft cloth when cleaning the battery.

5.The battery should be fully charged when it is not used for a long time (about 3 months) to ensure its firmness.

6.Please charge the battery within a period of time after electrical equipment and chargers stopping. Please pay attention to the battery temperature.

7.Please stop using the battery if it is found that the battery has a bulge or is crushed, and the indicator will stop increasing when fully charged.

Cautions

1.Please use the original charging equipment. Do not touch it to avoid burns.

2.Do not charge the battery in the place where there is water, to avoid short circuit.

3.Do not use the master near your ears! Weaver can cause hearing damage.

4.Do not fly in the rain.

5.Do not fly in the place where there is electromagnetic interference area, and government regulated no fly zones.

LITHIUM BATTERY

Place the Battery and pull out the battery from the drone

TRANSMITTER

REMOTE CONTROL OPERATION METHOD

GUIDELINES FOR FLIGHT OPERATIONS

Step 1 Compass Calibration

Place the Drone and the remote control on a flat surface, and the Drone will flash red and green. Pull the throttle stick to the middle position, and the Drone will flash red and green. Pull the throttle stick down to land, and the Drone will flash red and green.

Step 2 Compass level calibration step 1

Place the Drone and the remote control on a flat surface, and the Drone will flash red and green. Pull the throttle stick to the middle position, and the Drone will flash red and green. Pull the throttle stick down to land, and the Drone will flash red and green.

Step 3 Compass vertical calibration step 1

Place the Drone and the remote control on a flat surface, and the Drone will flash red and green. Pull the throttle stick to the middle position, and the Drone will flash red and green. Pull the throttle stick down to land, and the Drone will flash red and green.

Step 4 Compass level calibration step 2

Place the Drone and the remote control on a flat surface, and the Drone will flash red and green. Pull the throttle stick to the middle position, and the Drone will flash red and green. Pull the throttle stick down to land, and the Drone will flash red and green.

Step 5 Compass vertical calibration step 2

Place the Drone and the remote control on a flat surface, and the Drone will flash red and green. Pull the throttle stick to the middle position, and the Drone will flash red and green. Pull the throttle stick down to land, and the Drone will flash red and green.

Step 6 Remote Battery settings, flex gyro calibration

1. Press the remote control **left button**, and the remote control will be in the gyroscope calibration mode.
2. Press the remote control **1 button** and **gesture photo button** to complete the remote control gyroscope calibration.

Note: Gesture photo button is the **2 button** on the remote control, the **2 button** is the **gesture photo button** when the remote control is in the **Flex APP** mode.

APP DOWNLOAD AND INSTALLATION TUTORIAL

Wait until "APP Ready" is displayed on the mobile APP before flying.

Note: Please ensure the mobile phone is connected to the Internet when downloading the APP.

Step 1. Turn on the drone,place it on a flat surface place.

Place the drone under the bed, sofa, the drone will flash red and green.

Step 2. Turn on the remote control and wait for the connection between the drone and the remote control to be completed.

Wait until the drone flashes green, indicating the drone is ready to fly.

Step 3. Pull the throttle stick to the middle position to start the motor.

Pull the throttle stick to the middle position, the drone will flash red and green.

Step 4. Push the throttle stick slowly and the hover will be stable.

Push the throttle stick slowly, the drone will flash green.

Step 5. Pull the throttle stick down to land.

Pull the throttle stick down to land, the drone will flash red and green.

Step 6. Turn off the remote control and the drone.

Turn off the remote control and the drone.

Left and right hand throttle switch

The remote control is in operational first press and hold the power button for 3 seconds to enter the left and right hand throttle switch mode, the remote control will be in the left and right hand throttle mode.

Attitude mode

The drone is equipped with optical GPS signal, such as indoor, the drone will stay for a long time between satellite (Point) + radar between, it hard to take off and fly, the drone will automatically switch to the attitude mode, it will turn off the GPS function, the drone will be more stable and easier to control.

Note: Please ensure GPS signals in open areas, indoor GPS signals will be affected by interference.

DOWNLOAD THE "RET FLY" GPS APP

Step 3: Open the APP and click "Allow" button to allow the APP to access the camera, photo, and microphone.

Step 4: Click "Allow" button to allow the APP to access the location.

Step 5: Click "Allow" button to allow the APP to send you notifications.

Step 6: Click "Allow" button to allow the APP to access the local network.

Step 3: Open the APP and click "Allow" button to allow the APP to access the camera, photo, and microphone.

Step 4: Click "Allow" button to allow the APP to access the location.

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Step 5: Click "Allow" button to allow the APP to send you notifications.

Step 6: Click "Allow" button to allow the APP to access the local network.

APP ONE-CLICK SHARING FUNCTION

APP AIRCRAFT INTERNAL FUNCTION

Aircraft internal function shows the last position before flying.

SAFE FLIGHT TIPS (GPS)

Degree mode is the default operation mode of the product, in the beginner mode, the speed is limited to 30 meters.

1. Right rotation is clockwise rotation
2. Left rotation is counterclockwise rotation

Gps return, follow me and surrounding function, you can select the left and right hand throttle switch mode, the remote control will be in the left and right hand throttle mode, the drone will be in the attitude mode, it will turn off the GPS function, the drone will be more stable and easier to control.

CAMERA FEATURES EXPLAINED

1. Press the button **1** to the remote control, or click the button **1** in the APP interface, the drone will take photo, the GPS function is enabled, the drone camera is facing to the front.
2. Press the button **2** to the remote control once, or click the button **2** in the APP. The drone will start to record, the GPS function is enabled, the drone camera is facing to the front.
3. Press button **2** to stop recording and save the video to the APP and TF card. (Please ensure there is a TF card in the drone).

Click the APP interface photo and video icon to view the photo and video.

Click the photo and video icon to view the photo and video.

Vertical Screen Image Photography

Click the APP vertical shooting icon, shot and screen and horizontal screen.

2.You can change the vertical screen ratio by clicking the vertical special photography.

Note:

When using the "AR Pen", AR, the original photos and videos captured by the camera are not compressed and saved the phone.

1. Press the button **3** on the remote control, or click the button **3** in the APP interface, the drone will take photo, the GPS function is enabled, the drone camera is facing to the front.
2. Press the button **3** on the remote control once, or click the button **3** in the APP. The drone will start to record, the GPS function is enabled, the drone camera is facing to the front.
3. Press button **3** to stop recording and save the video to the APP and TF card. (Please ensure there is a TF card in the drone).

Click the APP interface photo and video icon to view the photo and video.

Click the photo and video icon to view the photo and video.

Vertical Screen Image Photography

Click the APP vertical shooting icon, shot and screen and horizontal screen.

2.You can change the vertical screen ratio by clicking the vertical special photography.

Note:

When using the "AR Pen", AR, the original photos and videos captured by the camera are not compressed and saved the phone.

PRODUCT FUNCTION ANALYSIS

1.ONE KEY TAKE OFF/LANDING

Auto

After connecting the aircraft, please press **1**, it rotates all at 1 height around 1.5 meters, it takes over the hand is flying forward, **1 flip again**, **2** and the drone will land automatically. **Press once then when the drone is operation, do not touch the drone, the drone will automatically stop and hover in the current position.**

2. GPS FOLLOW

1. Turn on the remote control and the mobile phone, enter the drone and fly follow your mobile phone and the drone will stop and connected, and open the GPS.
2. Click **2** to enter the GPS follow mode and a height of 30 meters.
3. Click **2** to exit the GPS follow mode.
4. Tap the APP **2** button to enter the GPS follow mode.
5. Tap the APP **2** button to exit the GPS follow mode.

Cautions:

1. Please ensure the mobile phone and the drone are connected to the Internet and the drone will automatically return to the last recorded home point.
2. Please ensure the mobile phone is in the GPS mode, the drone will be in the GPS mode.
3. Interference exists in Group, Tu Lamb Lambda, you need to return the drone manual control.

3. REAL-TIME 2D VR FUNCTIONAL EXPERIENCE

Click button screen appears dual screen can be used with VR glasses to experience the real-time image.

1. Connect software to drone/remote control.
2. Click the button **3** on the APP interface to enter the real-time 2D VR function.
3. Click the button **3** on the APP interface to exit the real-time 2D VR function.

The product supports the use of VR glasses to experience the 2D real-time image, to ensure the 2D real-time viewing the TF card are the same, the product supports the use of the APP software installed on the mobile phone or the computer to view the gps.

4.GPS RETURN

The GPS return function (RTH) function returns the drone to last recorded home point. This function can only be implemented in GPS mode.

1. Press button **4** on the remote control, or click button **4** in the APP interface.

GPS return:

Press the button **4**, on the remote control or the "Return home" button the APP interface, there are continuous beeps and the drone will fly back to the last recorded home point (the drone flies forward to reverse home front and pound to land).

2. Press the button **4**, again to stop returning. If it does the drone hovers in the last recorded home point and waits for a safe.

Cautions: Please ensure the drone is in the GPS mode.

Low battery return:

When the drone enters low power mode, the drone will automatically return to the last recorded home point.

Low battery return:

When low power return is activated, the aircraft will fly back to the city. About 10 meters from the ground, the aircraft will stop and hover for 10 seconds and then land. If the aircraft is not in the GPS mode, the aircraft will not return to the home point and will land in the current location. When the battery is too low, the aircraft will land in the current location.

Return aircraft signal

When the remote control signal is lost, the drone will automatically enter the home mode and the drone will automatically return to the last recorded home point.

Return aircraft signal:

When the remote control signal is lost, the drone will automatically return to the last recorded home point.

5. HEADLESS MODE

Headless mode is a mode in which the drone's orientation is not important. It adds the drone's movement to the remote control's orientation, so the drone will move in the "Headless mode" regardless of the drone's orientation. Headless mode simplifies the operation of the camera. Much disorientation, it is easier to control the drone.

1. With the drone's head facing the pilot, press button **5** on the remote control headless mode button or click headless button on the APP interface, the drone will be in headless mode, and the drone will be in headless mode. The remote control and the drone will be in headless mode.
2. Press button **5** on the remote control or click headless button on the APP interface, the drone will exit headless mode.

6.ROUTE PLANNING

1. Ensure the drone is in the GPS mode.
2. Click the button **6** on the APP interface to enter the route planning.
3. After entering the APP operation interface, click "Add point" function, put in and adjust the position of the point, click "Add point" function, put in and adjust the position of the point, click "Add point" function, put in and adjust the position of the point, click "Start" function, the drone will fly according to the route planning, the drone will stop and hover at the last point of the route planning, the drone will return to the last recorded home point and land automatically.

Cautions: Ensure the drone is in the GPS mode, the drone will be in the GPS mode.

1. With the drone's head facing the pilot, press button **6** on the remote control headless mode button or click headless button on the APP interface, the drone will be in headless mode, and the drone will be in headless mode. The remote control and the drone will be in headless mode.
2. Press button **6** on the remote control or click headless button on the APP interface, the drone will exit headless mode.

7.POINT OF INTERESTING

1. Fold the drone or the drone stop mode.
2. Tap **7** to activate POI(round or OFF) Mode during flying.
3. Tap **7** to exit POI(round or OFF) Mode during flying. The drone will stop and hover at the current position and wait for the next command.

Note: Ensure the drone is in the GPS mode, the drone will be in the GPS mode.

8. LEAP FLIGHT

Click button screen appears dual screen can be used with VR glasses to experience the real-time image.

1. Connect software to drone/remote control.
2. Click the button **8** on the APP interface to enter the leap flight function.
3. Click the button **8** on the APP interface to exit the leap flight function.

The product supports the use of VR glasses to experience the 2D real-time image, to ensure the 2D real-time viewing the TF card are the same, the product supports the use of the APP software installed on the mobile phone or the computer to view the gps.

9. OPTICAL FLOW VISION SYSTEM

The optical flow vision system can be used in the absence of GPS or Beer system, which the component consists of a camera and a sensor. The optical flow system can hover and fly indoors and outdoors without GPS or with weak GPS signals.

1. The optical flow vision system can only assist in flight when the surrounding environment is rich in texture and the ground is clear and the lighting is sufficient. The optical flow system can also identify on the ground and hover and fly indoors and outdoors.
2. Do not use the optical flow system in the following scenarios:
3. The optical flow vision system is ineffective in situations where the ground texture is unclear or the lighting is too dim.
4. Avoid using the optical flow system on highly reflective surfaces, such as water or glass, as reflections can interfere with its performance.
5. The optical flow system may not function properly if the drone moves too fast or too close to the ground. Ensure the drone maintains a safe distance and flies at a controlled speed for optimal performance.
6. Keep the optical flow sensor clean to ensure accurate data collection and prevent any obstructions from affecting its performance.
7. Avoid flying in environments with rapidly changing lighting conditions, as this can affect the sensor's ability to track movement accurately.
8. Regularly check the optical flow system for any signs of wear or damage and replace any damaged components as needed.

FREQUENTLY ASKED QUESTIONS (FAQ)

1. The mobile device and the remote control connection failed
Please ensure the mobile device is connected to the Internet.
2. The drone cannot connect to the remote control
Please ensure the drone and the remote control are in the same network environment.
3.Change the flight title, please do not fly in high buildings, near the power grid.
4.Drone flying time is too short
Please ensure the drone power is fully in the vertical, or high temperature, or low temperature.
5.Drone is out of control, return and land
Please ensure the drone is in the GPS mode and the GPS signal is strong.
6.Large rotation the control back and are pitch forward
Please ensure the drone is in the GPS mode and the GPS signal is strong.
7.Drone flying time is too short
Please ensure the drone power is fully in the vertical, or high temperature, or low temperature.
8.Drone is out of control, return and land
Please ensure the drone is in the GPS mode and the GPS signal is strong.
9.Drone flying time is too short
Please ensure the drone power is fully in the vertical, or high temperature, or low temperature.
10.Drone is out of control, return and land
Please ensure the drone is in the GPS mode and the GPS signal is strong.
11.Drone flying time is too short
Please ensure the drone power is fully in the vertical, or high temperature, or low temperature.
12.Drone is out of control, return and land
Please ensure the drone is in the GPS mode and the GPS signal is strong.
13.Drone flying time is too short
Please ensure the drone power is fully in the vertical, or high temperature, or low temperature.
14.Drone is out of control, return and land
Please ensure the drone is in the GPS mode and the GPS signal is strong.
15.Drone flying time is too short
Please ensure the drone power is fully in the vertical, or high temperature, or low temperature.
16.Drone is out of control, return and land
Please ensure the drone is in the GPS mode and the GPS signal is strong.

ACCESSORY LIST

CARE AND MAINTENANCE

1. Be sure to clean off your drone with a dry cloth.
2. Do not use any chemical solvents or cleaning agents.
3. Do not immerse the drone in water or other liquids.
4. Do not disassemble the drone without authorization, and do not use non-original parts.
5. Do not place the drone in high-temperature or high-humidity environments.

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