GT8 Quadcopter aircraft

Your personal photographer ...

Drone User Manual



Please keep the user manual safe
As a reference for daily maintenance and adjustment!

Video demonstration
of drone operation

User Notice

Attention: The device has been tested and found to comply with the restrictions on Class B digital devices under Part 15 of the FCC regulations. These restrictions aim to provide reasonable protection in residential installations to prevent harmful interference. This device generates, uses, and may radiate radio frequency energy. If not installed and used according to instructions, it may cause harmful interference to radio communication. However, it cannot be guaranteed that interference will not occur during a specific installation. If the device causes harmful interference to radio or television reception, it can be determined by turning off and restarting the device. It is recommended that users try to correct the interference by taking one or more of the following measures.

- Repositioning or moving the receiving antenna.
- Increase the distance between the device and the receiver.
- Insert the device into a socket that is different from the circuit connected to the receiver.
- Please consult your dealer or experienced radio/television technician for assistance.

⚠ Important Notice:

Changes or modifications that are not explicitly approved by the manufacturer may result in users losing their ability to operate the device.

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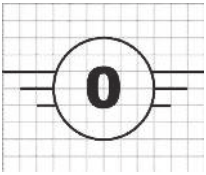
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GT8 Drone Manual

Foreword

Welcome to our drone user manual. This manual has been carefully prepared to ensure that you can fully understand the operation of the drone and use it safely and effectively. In order to enhance your flying experience while complying with all safety regulations, this tutorial is divided into four detailed sections covering various aspects from basic safety knowledge to flying skills.

– Characteristics and important information of GT8PRO unmanned system



1. Weight of drone: 175 g
2. Maximum Takeoff Mass (MTOM) of the drone: 175 g
3. Maximum flight speed of drone: 9 meters per second
4. Maximum reachable height: 30 meters
5. Drone category: CO
6. Drones do not have payload capacity.
7. Drone remote control equipment and software: Equipment: Remote control/software: WiFi drone.
8. Description of unmanned aerial vehicles and their behavior when the data link is lost: When the data link is lost, the unmanned aerial vehicle will land vertically on the ground.
9. Operational restrictions: Avoid outdoor operations under strong winds or thunderstorms, and ensure that night flights are within line of sight.
10. This drone is only suitable for individuals aged 12 and above to operate. To ensure flight safety, please avoid flying near airports, highways, train stations, subway stations, and densely populated urban areas.

GT8 Drone Manual

Part 1: Safety Guidelines

It is crucial to understand all safety related information before starting to use drones. This section provides basic safety rules and guidance to prevent potential injury or damage. Following these basic guidelines not only ensures the safety of you and those around you, but also protects the drone from damage.

Part 2: Introduction to Product Components

In order to familiarize you with your drone, this chapter provides a detailed introduction to the names, functions, and operations of various components. By learning the basics of product components, you can quickly diagnose problems when they occur and more effectively utilize the diverse functions of drones.

Part 3: Flight Tutorial

This section provides a comprehensive overview of the basic setup steps and operational techniques, aimed at helping beginners easily master the activation and basic flight movements of drones. Once you have mastered the basic operations of drones, this section will further guide you in improving your flying skills. The content includes detailed flight procedures, operational skills, use of advanced functions, and strategies for responding to potential emergency situations. Whether you are just starting to learn or an experienced pilot, these in-depth tutorials will provide valuable guidance and advice.

-We urge you to carefully read every part of this manual to fully understand all the functions and safety measures of the drone. We hope you can find fun and safety when using drones. Thank you for choosing our product. Have a pleasant flight!

Safety Guide Explanation

1. Please keep the aircraft accessories out of reach of children.
2. This aircraft has very strong power. During the first flight, to prevent unnecessary collisions and injuries caused by the aircraft rising too fast, please slowly push the left control lever.
3. When ending the flight, please turn off the remote control power switch first, and then turn off the aircraft power switch.
4. Do not place aircraft batteries in high temperature environments or near flammable and explosive materials.
5. To ensure safety and prevent injury, please keep the aircraft at a distance of 4.5 meters from people and animals.
6. This aircraft is suitable for people aged 12 and above, and ensures safe flight within the line of sight of the operator (instructor).
7. If the remote control is a non rechargeable battery, do not charge it. The aircraft must be used in conjunction with the factory battery.
8. When the aircraft is not in use for a long time, please remove the batteries from the aircraft and remote control.
9. Do not cause a short circuit during the charging process.
10. If the aircraft is not used for more than 10 days, please discharge the aircraft battery to 40-50% (half of the flight time is sufficient when fully charged), which will greatly extend the battery's service life.
11. To prevent injury, please maintain a safe distance from the rotating propeller.
12. n order to comply with the electromagnetic environment regulations of the national aviation radio (station), the use of remote control radio within a range of 5000 meters from the airport runway is prohibited. All operators should also comply with the certification and broadcasting regulations established by relevant regulatory agencies, including flight time and area.
13. Please assemble the drone under adult supervision.
14. The operator is responsible for safe flight and safe distance, and should not hover over crowds (more than 12 people).

Safety instructions

Flight environment requirements

Indoor flying

Please choose a spacious indoor area and make sure there are no obstacles, people or pets around for flying. Please ensure that babies and young children are kept at a safe distance and avoid any physical contact with the drone to prevent unnecessary accidents.



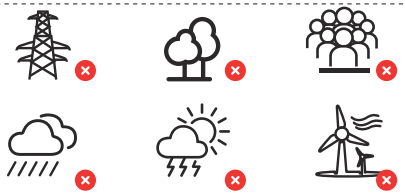
Outdoor flying

Please choose a sunny, windless or breezy day. Choose a location that is free of obstacles, crowds, pets, passersby, high walls and trees. Stay especially away from heat sources, electrical wires or electronic power sources to avoid collisions, entanglements, fires, electric shocks and other potentially disastrous accidents.



⚠ Caveats:

1. Keep the UAV in line of sight during flight and avoid obstacles such as power lines, trees, crowds, etc.
2. Do not fly in extreme weather conditions, including extreme cold, heat, strong winds and heavy rain.



Precautions before Flight

1. To avoid damaging or losing the drone due to improper operation, it is recommended that beginners carefully read the instruction manual and watch instructional videos before flying. Keep the flight distance within 98 feet/30 meters and only attempt high-altitude flight after practicing low altitude for three days.
2. Gyroscope calibration must be performed before each takeoff. Otherwise, the drone may fly unstably or even lose control.
3. To ensure a stable connection (WIFI connection) between the APP and the drone during the flight, it is recommended to first turn off the option of automatically connecting to strong signal nearby WIFI networks in the WLAN settings of the phone.
4. Please ensure that the positive and negative terminals of the dry battery in the remote control are installed correctly. Avoid using high-voltage batteries.
5. When operating with a remote control:
   - If the APP is not connected, the shooting function will be unavailable, but all flight functions of the remote control can still be used normally.
   - If the APP is connected, the shooting function can be used, and the APP can assist in real-time viewing of camera images.
6. If you plan to operate a drone through an APP:
   The remote control must be disconnected first; Otherwise, the APP control function will be disabled.
   - The APP control functions include basic flight direction control and intelligent flight features, such as following the palm, following pedestrians, trajectory flight, and gravity control.
   - It is not recommended to use apps instead of remote controls to operate drones. The flexibility of using an APP to control a drone is not as good as using a remote control, and the effective distance controlled by the APP is much smaller than the effective distance operated by the remote control.
7. The maximum connection distance between the remote control and the drone is 230 feet/70 meters. Please do not fly out of this range as it may cause the drone to crash or be lost due to loss of control.
8. The maximum connection distance between the APP and the drone (i.e. the WiFi data transmission range of the drone) is 98 feet/30 meters. Exceeding this distance may cause issues with receiving photos, videos, etc.
9. During flight, please keep the drone within line of sight.
10. When the drone takes off, please maintain a distance (it is recommended to maintain a distance of more than 6.5 feet/2 meters) and do not touch the drone during the flight to avoid injury caused by the rapidly rotating propeller.

Product Component Introduction

Aircraft Components









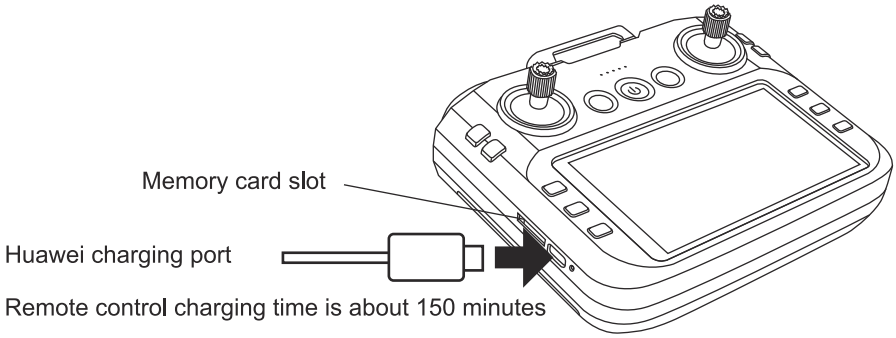
LCD display screen

⚠ Attention: The display screen shows 100% battery when fully charged, and the drone will start displaying low battery when used at around 40%. When the battery is used up to 10%, the drone will automatically decrease, but when a new drone is opened, it will display 40%. At this point, it is necessary to fully charge the battery again before using it.

Aircraft component names

1	Power switch	5	Boom	9	Front camera
2	Upper shell	6	Battery	10	Bottom camera
3	Lower shell	7	Electrical machinery	11	LCD display screen
4	Propeller	8	Obstacle avoidance head		

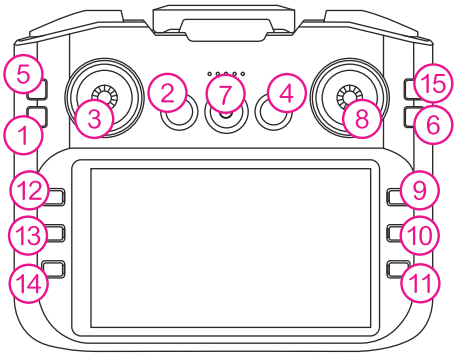
Remote control charging

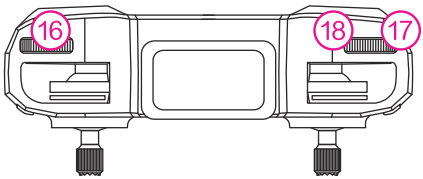


The battery charging indicator light is red and goes out when fully charged.

Remote control

Introduction to the Function Keys of the Remote Control





① Headless mode
② Unlock, one key takeoff/landing
③ Ascending/descending/turning left/right
④ Roll
⑤ Obstacle avoidance
⑥ Gyroscope calibration (Calibrate before takeoff)
⑦ Power switch
⑧ Forward/backward/fly to the left/fly to the right
⑨ Photos
⑩ Video
⑪ Confirm
⑫ Return
⑬ Menu switching
⑭ Screen switch
⑮ One key back
⑯ Speed switching
⑰ Camera up adjustment
⑱ camera down adjustment

GT8 Drone Manual

Accessories List



Aircraft (including battery) x1



Remote control x1



Backup propeller Ax4Bx4



Screwdriver x1



USB charging cable x1

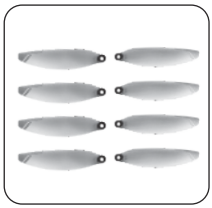


Obstacle avoidance head x1

⚠ Precautions:

If you purchase the dual battery version, the package will include an additional spare battery. If you purchase the 3-cell battery version, this package will include 2 additional spare batteries.

Other drone accessories are available for purchase



Backup propeller Ax4Bx4



Battery



USB charging cable x1



Drone optical flow dual camera



Drone Forearm A



Drone Forearm B



Drone rear arm A



Drone rear arm B



Obstacle avoidance head

If the drone parts are damaged or you wish to have additional spare parts, you can purchase the accessories listed above separately.

In addition, we also provide links to purchase additional drone accessories and installation tutorials. If you need more detailed information, please feel free to contact us at any time.

Prepare to fly

⚠ Please undergo flight training or training (guided by professionals, etc.) first. Please choose a suitable flying environment when flying.

Before flying check

Please check the following items before flying.

(1) Is the battery of the aircraft and remote control fully charged.
(2) Is the fan blade installed correctly and without any damage.
(3) Can the fan blades start normally after startup.
(4) Has the aircraft successfully completed the gyroscope.
(5) Has the aircraft successfully connected to the mobile app and received image and information feedback.
(6) Does the surrounding environment meet the flight requirements.

⚠ Attention: Check that the folding arm of the aircraft is fully opened.

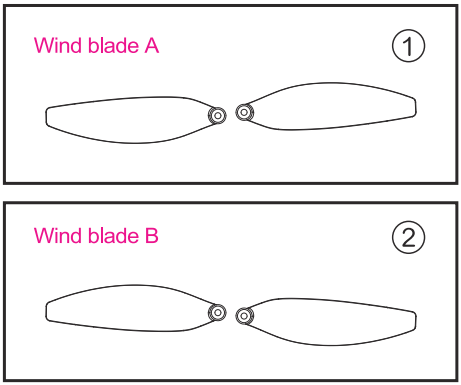
Aircraft

Aircraft Description

This aircraft has good maneuverability and stability, with real-time image transmission, information feedback, mobile phone control, photography and video recording, gesture recognition, trajectory flight, headless flight mode and other functions, as well as low battery alarm prompt.

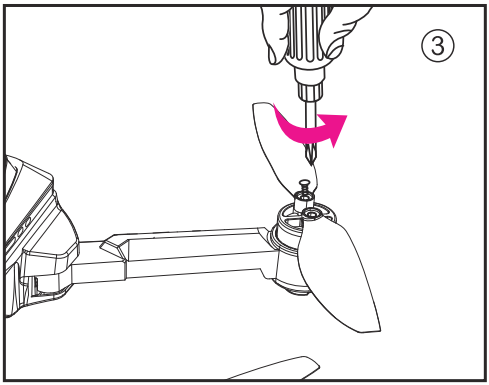
Install and replace the fan blades

The fan blades used in this product are divided into A and B. If they are damaged, please replace them with the spare fan blades in the accessory kit.

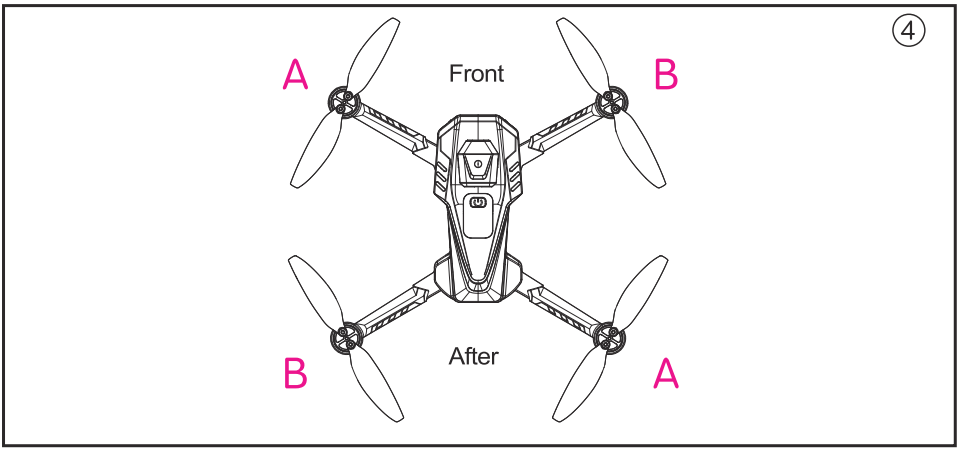


(1) As shown in the figure, please carefully distinguish the fan blades.

Corresponding models A and B.



(2) During the initial installation. Refer to Figure 3 and use the provided screwdriver to unscrew the screws of the fan blades that need to be replaced, remove the original fan blades, install the new fan blades to be installed, and tighten the screws again.

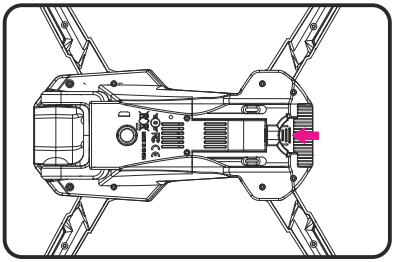


(3) Referring to Figure 4, please check if the model of the wind blades on the aircraft is consistent with the picture. The blades need to be installed in the correct position, otherwise the aircraft will not be able to fly normally.

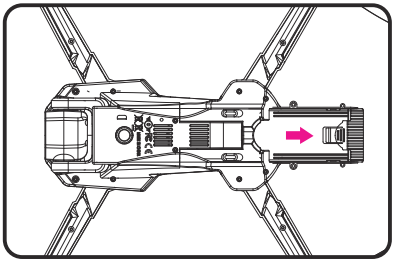
Body charging method

Please fully charge the battery when using it for the first time

The lithium battery used in this product is a 3.7V battery with charge and discharge management function. The battery must be charged using the factory configured dedicated charging cable.

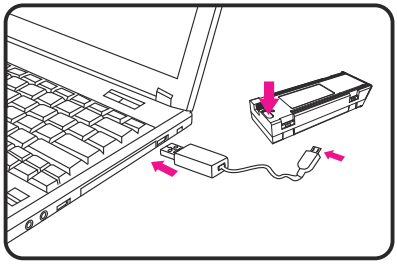


A. Press the buckle button

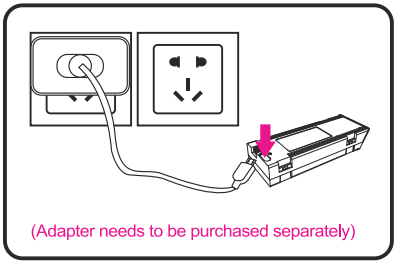


B. Remove the battery backwards

Charging method



Method 1: Connect the USB charger to the battery and USB charging port



Method 2: Insert the plug into the socket and connect the battery plug to the charger female plug

⚠ The GT8 battery has a red light when charging and a green light when fully charged

⚠ **Precautions:**

Please use a charger with an output voltage of less than or equal to 5V.

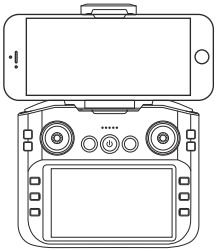
Safety precautions

1. The use of lithium batteries carries inherent risks and may cause significant harm to personnel and property. Please use with caution and assume all related responsibilities.
2. If the battery leaks, avoid contact between the liquid and the skin and eyes. If in contact with skin, please wash immediately with soap and water. If in contact with eyes, immediately rinse with plenty of cold water and seek medical assistance.
3. If the charger emits a suspicious odor, abnormal noise, or smoke, please disconnect the power immediately.
4. Do not charge batteries that are swollen, leaking, or damaged.
5. Avoid overcharging. Once the battery is fully charged, please disconnect the charger.
6. Do not charge near flammable materials (such as carpets, wooden floors, solid wood furniture, etc.) or on conductive surfaces. Please keep the battery within sight when charging.
7. If the battery is still hot, do not charge it immediately after use.
8. The battery should be charged within a temperature range of 0℃ to 40℃ (32F to 104F).

APP Operation Guide

Install mobile client

Mobile phone installation stuck on the remote control



Attention: The display control of the phone and remote control can only be chosen between two options

For (iOS) users, please search for KYUFO in the "APP Store" or scan the QR code below to download.
(Android) users can search for KYUFO on the APP store or scan the QR code below to download.

Add Device

1. Turn on the power switch of the product
2. Go to "Settings" on your phone and turn on WIFI (note not Bluetooth √ ×)
3. Find the WIFI hotspot "LOWXXXXXX" of the device from the WIFI list, click to connect until successful
4. Open the APP, click on the "Start" icon, and enter the real-time interface



1. Connect to WIFI 2. Open the APP 3. Start operation

⚠ Attention: If the APP requires access permission, please click confirm all, otherwise the APP cannot be used normally.

Precautions

1. The APP and remote control cannot simultaneously control the takeoff/landing of the drone.

   ⚠ (APP functions can be used normally in any state except for flight control)

2. If an APP is needed to control the drone's flight, the remote control and drone need to be disconnected. Specific steps: Turn off the remote control and open the APP's control switch

3. If a remote control is needed to control the drone's flight, the control switch of the APP needs to be turned off. Specific steps: Turn off the control switch of the APP, and connect the remote control to the drone.

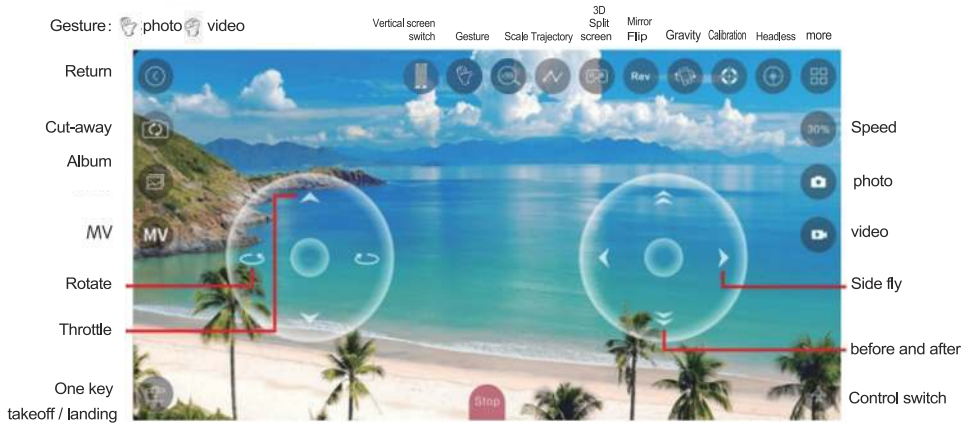
   ⚠ (When switching control, the drone needs to be in a stationary state and cannot switch in flight state)

   ⚠ (For beginners, it is recommended to use a remote control because it is difficult to control flight through an app.)

   ⚠ To control with a remote control, you need to first turn on the drone, then open the remote control connection, and then connect to the APP. This defaults to using the remote control. If you need to switch APP control, please refer to the second step.

Operating instructions

The meaning of each icon on the operation and playback interface. As shown in the following figure

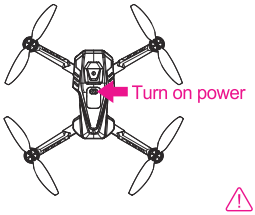


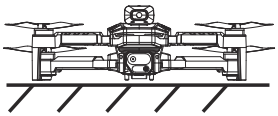
◆ When switching to portrait mode, it is not possible to perform flight control on the device.

Precautions

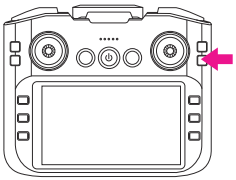
1. Calibration

Turn on the power switch of the aircraft and place it horizontally on a flat ground. At this time, the aircraft indicator light flashes. Turn on the power switch of the remote control, and the aircraft will automatically calibrate its frequency. After completing the calibration, press the gyroscope calibration button on the remote control, and the buzzer will sound a "di" sound. The aircraft indicator light will flash and remain on, indicating that the calibration is complete. At this point, the aircraft can take off.





⚠ Please note that the drone should be placed horizontally on the ground

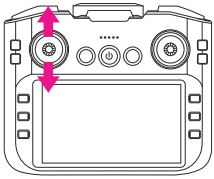


⚠ Please note that the gyroscope needs to be calibrated every time the takeoff stops and the flight resumes

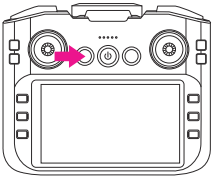
2. One key takeoff / landing

Reminder: This product is calibrated using a barometer. Due to various environmental factors such as temperature, it is normal for the aircraft to experience high and low changes when starting flight or at low voltage.

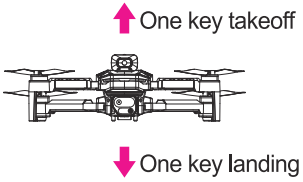
It can only be operated after 2.4G frequency matching is completed



Control takeoff and landing through throttle lever



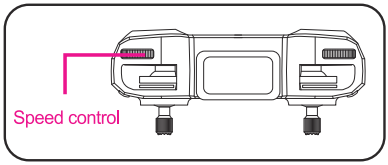
Control takeoff and landing with one key takeoff/landing button



Operation of various flight functions

Speed gear switching

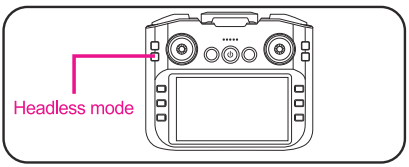
Pressing the speed switch button on the remote control can switch the flight speed of the aircraft. When switching to medium speed, the remote control emits two beeps of "di" and "di"; When switching to high gear, the remote control emits three beeps of "di", "di", and "di". Every time the remote control is turned off and the aircraft is restarted, the gear of the aircraft will automatically return to low gear.



Operation of various flight functions

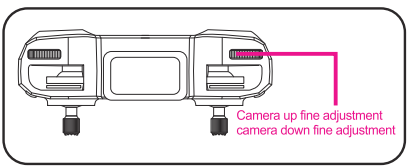
Headless mode

Place the drone directly in front (with the drone nose facing straight ahead), take off after frequency matching, press the "Headless Mode" button, and the drone lights will start flashing slowly. The remote control will emit a beep sound, entering Headless Mode; To exit headless mode, press the "headless mode" button again to exit.



Camera up/down adjustment

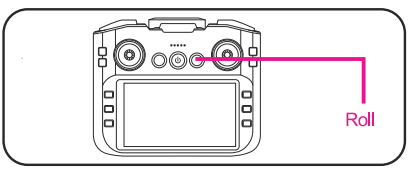
The drone camera can be adjusted. Press the "Camera Up Fine Adjustment" button to turn the drone camera up. Press the "Camera Down Fine Adjustment" button to turn the drone camera down.



Roll

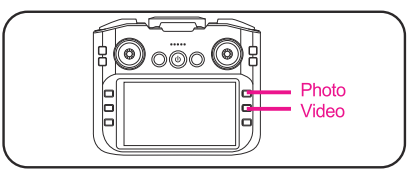
Pressing the roll button and then pushing the directional control lever can achieve rolling in different directions.

⚠ Warning: Novices are advised to use it in open spaces. If used indoors, please keep a distance of at least 1 meter from the ceiling to avoid collisions. In addition, the rolling function consumes a lot of power and should be used as little as possible. (The rolling time is about 10 minutes when the battery is fully charged, and the rolling function is temporarily suspended during the remaining battery time. Other functions are used normally.)



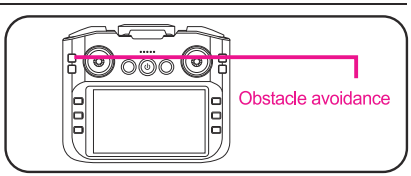
Photo/video

After opening the aircraft, press the photo/video button to take photos/videos.



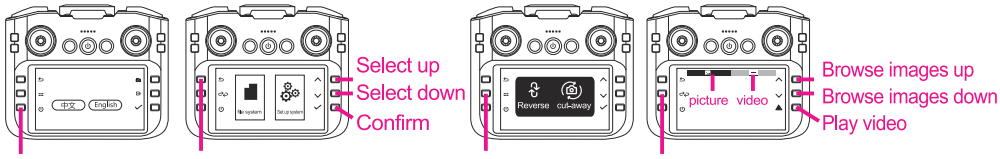
Obstacle avoidance mode

After the aircraft takes off, press the "obstacle avoidance mode" button briefly. At this time, if the directional lever is turned in any direction, the drone's obstacle avoidance head will automatically sense whether there are obstacles in that direction. If there are, the drone will not be able to fly in that direction.



⚠ Attention: When outdoor ultraviolet rays are strong, the determination of obstacle avoidance mode may deteriorate, so please avoid areas with strong ultraviolet rays when turning on obstacle avoidance mode.

Screen operation

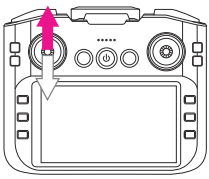
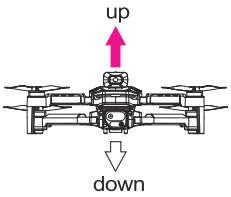
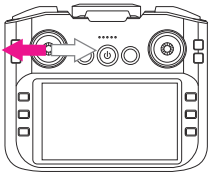
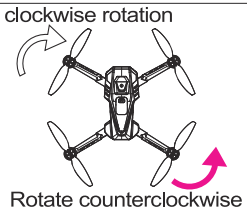
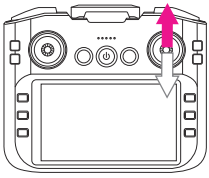
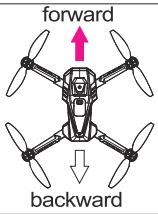
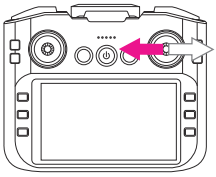
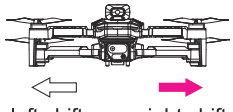


1.The language selection for both Chinese and English can only be set when the aircraft is not connected.

2. Press the back button to view files or set up the system.

3. Press the up or down button on the right to select the front and back camera

Basic Operations

Remote control	Aircraft	Control mode
		Push the left joystick upwards, and the aircraft will ascend vertically; Pull down the left joystick and the aircraft descends vertically.
		Push the left joystick to the right, and the aircraft rotates clockwise; Push the left joystick to the left, and the aircraft rotates counterclockwise.
		Push the right joystick upwards, and the aircraft will fly horizontally forward; Pull down the right joystick and the aircraft will fly horizontally backwards.
		Push the right joystick to the right, and the aircraft will fly to the right; Push the right joystick to the left, and the aircraft will fly to the left.

Why do drones lose control when using a remote control?

1. Operation error:
   a. The operator may accidentally press the wrong button or be unfamiliar with the directional control of the joystick, resulting in the drone's behavior deviating from expectations.
   b. The operator may mix the two directional control modes of the drone, namely normal mode and unmanned mode.
2. Signal interference: If there are many wireless signals or signals from other devices nearby, it may interfere with the connection between the remote control and the drone.
3. Low battery level: Low battery level on remote controls or drones may affect their performance, resulting in ineffective control or delayed response.
4. Distance too far: If the drone flies out of the maximum control range of the remote control, it may lose connection with the remote control.
5. Environmental factors: Strong winds or other environmental factors may affect the flight path of drones, making them appear to be out of control.
6. Hardware failure: Some components of the remote control or drone may malfunction or be damaged, causing them to malfunction.

⚠ If you encounter this situation, it is recommended to find a safe place for emergency landing, and then troubleshoot and handle it. If possible, consider flying again in an area without signal interference and always ensure that the remote control and drone battery are fully charged.

Appendix Overview

General information

1. Project list, including qualified accessories:
   - Model: GT8 Propeller: Weight (4 pairs): 6.6 grams; Size: 63.7mm x 14.6mm x 4.7mm; Maximum speed: 11000RPM
   - Model: GT8 Battery (Model: WH952558); Weight (1 piece): 35.2 grams: Size: 76 millimeters x 29 millimeters x 18.5 millimeters

2. List of drone combinations:
   - Combination 1: GT8, GT8 remote control

     Remote control automatic pairing, manual mode.
   - Combination 2: GT8, Mobile application (WiFi drone)

     Application pairing: After clicking the application control button, it automatically pairs with the drone in manual mode.

3. Distinguish by similar products from the same manufacturer:
   - Similar products produced by the same manufacturer can be distinguished by product model and appearance color.

MTOM Declaration

1. The maximum takeoff mass (MTOM) of GT8 includes the aircraft, propeller, and battery, with a total weight of 175 grams, which meets the C0 category standard. There is no additional load.

2. It is crucial to comply with the maximum takeoff weight regulations to ensure that your GT8 drone meets C0 requirements. Users must follow the following instructions:

- Calculate takeoff weight: Before takeoff, add the weight of the drone (including batteries and any installed accessories) to the expected additional payload.
- Overweight warning: Failure to comply with the above requirements may result in decreased flight stability, operational difficulties, and increased risk of accidents. In addition, the product will no longer meet the C0 requirements.
- Compliance: Ensure compliance with all local and international aviation regulations when operating drones to avoid legal liabilities and potential safety hazards.

Remote control of unmanned aerial vehicle equipment

1. Remote control model: GT8RC
2. Application: WiFi drone
   - The product comes with an "application manual" and is compatible with Android 6.0 and above, as well as iOS 9.0 and above.
3. Reminder explanation
   - A low battery alarm: emits "di" "di" sound as a warning.
   - Automatic frequency pairing: A single "di" sound is emitted, and the lights on the aircraft's fuselage change from flashing to constant to indicate successful pairing.
   - Headless mode: Short press the headless mode button on the remote control; When in headless mode, the aircraft fuselage lights flash.
   - Speed mode switching: Press the speed mode button: one "di" indicates slow gear, two "di" "di" indicate medium gear, he three sounds of "di" "di" "di" indicate fast gear.
   - Remote control activation: When the remote control is turned on, it emits a quick "di" sound.

Lost command and control link:

1. The maximum flight altitude of the GT8 drone can reach 30 meters above the takeoff point. When the drone reaches this altitude, the system will automatically prevent it from further ascending, but it can still operate in other directions. During flight, environmental factors or signal interference may cause the drone to lose control and descend uncontrollably, making it difficult for pilots to effectively control the drone's ascent or other movements, thereby increasing flight safety risks. To ensure safety and prevent drone loss, users should fully understand the 30 meter height limit before operating the well. Please pay attention to the surrounding environment and fly in areas with strong signals to avoid flight risks.
2. Response of the drone when the remote control is disconnected:
   - The indicator light of the drone will start flashing, and then the drone will slowly descend.

Operator Health Precautions

1. When operating a drone, ensure that the operator (you) is awake and alert, and not affected by alcohol, drugs, or other substances. In addition, if you feel dizzy, tired, nauseous, or any other health condition that may affect operational safety, please avoid flying.

Ground Service Guidelines

1. Safely handle energy storage (battery):
   - When installing and replacing batteries, ensure correct polarity and avoid using damaged or incompatible batteries.
   - When charging, use the original charging cable, avoid charging near flammable materials, and ensure that the charging environment temperature is between 0℃ and 40℃.
   - Immediately disconnect the power supply after charging is complete to prevent overcharging.
   - If the battery experiences swelling, leakage, or other abnormal phenomena, please stop using it and handle it promptly.
2. Cleaning and maintenance:
   - Regularly clean the exterior and propeller of the drone to ensure that there is no dust, dirt, or foreign matter on the equipment.
   - Check every part of the drone, especially the moving parts and connection points, to ensure that there is no wear or damage.
3. Pre takeoff calibration:
   - Before turning on the drone and remote control, ensure that the drone is placed on a horizontal surface.
   - Follow the steps in the manual for one click calibration and frequency pairing to ensure the accuracy of the drone's flight attitude.
4. Use of plugs and protective covers:
   - Protect electronic interfaces and plugs from dust and moisture when using and storing remote controls and other accessories.
5. Selection of Flight Environment:
   - Choose an open and accessible environment for flying, avoiding flying in densely populated or animal infested areas.
   - Avoid flying under extreme weather conditions such as strong winds, rain, snow, or extreme temperatures.

Transportation and storage of drones, remote control of drone equipment and batteries.

1. Packaging of drones and remote controllers:
   - Use original packaging materials or equivalent protective materials to package drones and remote controls to prevent impact or pressure damage during transportation.
   - Ensure that every component of the drone and remote control is securely fixed to avoid damage caused by movement.
2. Safe transportation of batteries:
   - Remove the battery from the drone and store it separately in fire-resistant and explosion-proof packaging.
   - Avoid exposing the battery to extreme temperatures or direct sunlight to prevent overheating.
   - Comply with local transportation regulations, especially those related to lithium batteries.
3. Storage environment:
   - Store the drone and remote control in a dry, clean, and suitable temperature environment, avoiding humid or extreme temperature conditions.
   - A storage area should be kept away from any potential heat sources, such as heaters or direct sunlight, to prevent material aging or equipment damage.

4. Long term battery storage:
   - If the battery is not used for a long time, please keep the battery level at about 50% to avoid fully charging or discharging.
   - Regularly check the status of stored batteries and charge and discharge them at least once every three months to maintain battery activity and safety.

5. Inspection and maintenance:
   - Regularly inspect stored drones and remote controls for any signs of physical damage or functional abnormalities.
   - Ensure that all connections and interfaces are clean and dust-free to prevent corrosion or poor contact during long-term storage.

Post flight operations - To ensure the safety and performance of the GT8 drone after each flight, the operator must conduct a comprehensive visual inspection, including checking the battery and all critical components. The detailed inspection steps are as follows:

1. Battery inspection:
   - Visual inspection: Remove the battery and carefully inspect the battery casing for any signs of damage, deformation, leakage, or swelling.
   - One touch inspection: Gently touch the surface of the battery to check for any abnormal temperature (too hot or too cold).
   - Connector inspection: Check the battery connectors and wires to ensure they are intact and undamaged, with no signs of looseness or poor contact.
   - Battery level check: Use a battery level detector or the built-in battery display function of the drone to check if the remaining battery level is normal.
2. Physical examination:
   - Appearance inspection: visually inspect the drone body for cracks, scratches, or other physical damage, especially in the installation areas of the boom, landing gear, and propeller.
   - Structural integrity: Gently shake the drone to check for loose parts or abnormal sounds, ensuring the drone's structural stability.
   - Sensor and camera inspection: Check the surface of the drone sensor and camera to ensure they are clean and free of scratches or other damage to ensure normal operation.
3. Propeller inspection:
   - Appearance inspection: Check the propeller for cracks, bends, or other damages. If there is any damage, replace the propeller immediately.
   - Installation inspection: Ensure that the propeller is securely installed and not loose. Check if the propeller locking mechanism is working properly.
4. Motor inspection:
   - Appearance inspection: visually inspect the motor casing for any signs of damage or deformation.
   - One rotation inspection: Gently manually rotate each motor to check if it runs smoothly without any jamming or abnormal noise.
5. Inspection of wiring and connectors:
   - Visual inspection: Check all internal and external wiring and connectors of the drone to ensure they are not broken, worn, or loose.
   - Connector inspection: Ensure that all connectors are securely connected without any signs of looseness or poor contact.
6. Remote control inspection:
   - Appearance inspection: Check if the remote control casing is damaged or cracked.
   - Function check: Turn on the remote control and check if all buttons and levers are working properly to ensure proper connection with the drone.

Summary:

By following the detailed inspection steps mentioned above, operators can ensure the safety and performance of the GT8 drone after each flight. Regular visual inspections can help detect potential issues early, enabling timely maintenance and repair, ultimately extending the lifespan of drones.

Related restrictions:

1. Speed limit:
   - High speed: 9 meters per second
   - Medium speed: 5.5 meters per second
   - Low speed: 1 meter/second (for indoor use only)
2. Specific flight restrictions:
   - Horizontal distance from the building:
   - To ensure safe operation of the GT8 drone during flight and maintain a safe distance from buildings:
   - Drones should always maintain a horizontal distance of at least 50 meters from buildings during flight, unless specifically authorized.
   - When flying in cities or densely populated areas, extra caution should be taken to maintain a greater safety distance to avoid collisions or interference with buildings.
3. Environmental restrictions:
   - Wind speed limit for one operation
   - Wind resistance: 3 meters per second
4. Environmental restrictions:
   - Height for operation, transportation, and storage:

   4.1. Operation:
   - Maximum takeoff altitude (allowable flight altitude: 120 meters, drone height limit: 30 meters)

   4.2. Storage:
   - A drone should be stored at an appropriate height, avoiding storage in extremely high or low altitude areas.
   - When storing drones in high-altitude areas, the temperature and pressure of the storage environment should be controlled to ensure that drone components are not damaged due to pressure changes.

   4.3. Transportation:
   - During transportation, especially in air transportation, attention should be paid to complying with relevant height restrictions to ensure the safety of drones during high-altitude transportation.
5. Environmental restrictions:
   - Humidity during operation, transportation, and storage:

   5.1. Operation:
   - Avoid operating drones in environments with high humidity (relative humidity exceeding 80%) or low humidity (relative humidity below 20%).
   - Avoid flying in fog, drizzle, hail, or snow to prevent the drone from getting damp or freezing.
   - Immediately inspect all components of the drone for moisture or condensation after flight. If necessary, use a clean, soft cloth to wipe.

   5.2. Storage:
   - Ensure that all electronic components and batteries of the drone are well sealed to prevent moisture from entering.
   - Store the drone in a dry and well ventilated environment, avoiding damp areas or near water sources.
   - The relative humidity of the storage environment should be maintained between 40% and 60%. If necessary, a dehumidifier or desiccant can be used to control humidity.

   5.3. Transportation:
   - During transportation, store the drone and its accessories in moisture-proof packaging materials such as moisture-proof bags or sealed containers.
6. Environmental restrictions:
   - Other (thunderstorms, bird flocks, sandstorms):
   - Avoid operating drones in special environmental conditions such as thunderstorms, bird flocks, or sandstorms to ensure the safety and reliability of the drone system.

According to EU Regulation (EU) 2019/947, operators should fully understand the following main risks and take necessary measures to ensure safety:

1. Ensure the safety of the drone system during maintenance operations:

1.1 Regular Inspection:

- Regularly inspect and test key components of the drone, such as batteries, motors, propellers, and control systems.
- Perform basic checks before and after each flight to ensure that the drone is in good working condition.

1.2 Battery maintenance:

- Regularly check the battery for signs of expansion, leakage, or damage, and promptly replace any problematic batteries.
- Avoid overcharging or overdischarging the battery and follow the manufacturer's charging guidelines.

1.3 Hardware maintenance:

- Check and tighten all screws and connectors to ensure the stability of the drone structure.
- Clean the exterior and sensors of the drone to prevent dust and debris from affecting its performance.

2. Ensure the safety of the drone system during transportation:

- Drones and their accessories should be packaged in sturdy and appropriate protective packaging to prevent mechanical damage during transportation.
- Shock absorbing materials (such as foam or bubble film) are used inside the package to reduce the vibration and shock that may damage the UAV.
- Ensure the safe storage of batteries and transport them separately from drones to prevent short circuits or overheating during transportation.
- Avoid transporting drones and batteries under extreme temperature conditions to prevent damage caused by high or low temperatures.
- Prevent drones from coming into contact with moisture or water sources to avoid short circuits or corrosion.

3. Ensure the safety of the drone system during shelf storage:

- Drones should be stored in a dry, well ventilated environment, avoiding moisture, high temperatures, and direct sunlight.
- The storage area should be kept away from flammable, explosive materials and chemicals.
- A battery should be stored separately from the drone to avoid excessive discharge or charging.
- Before long-term storage, charge the battery to about 50% to extend its lifespan.

Safety instructions

Ensuring software integrity and security is crucial when using GT8 drones. The following are security instructions regarding software integrity:

- Download only from official channels: Ensure that all videos, images, and software updates are downloaded only from official or trusted sources, such as the manufacturer's official website or certified app store.

- Avoid using third-party software: Avoid downloading any software or updates from unknown sources or,unverified third-party websites to prevent malware infections and data breaches.

Privacy related information - When operating drones, special attention must be paid to protecting personal privacy that may be accidentally captured by cameras. The following are guidelines and requirements for privacy protection:

1. Legal operation:
   - When using drones for video recording or filming, ensure compliance with local laws and regulations, especially when operating in public places or private property.
   - Before operation, familiarize yourself with and comply with relevant privacy protection laws, including obtaining necessary permits or authorizations.
2. Informed consent:
   - In cases where the drone operation may capture an individual, inform the public in advance, such as by posting notices or posting notices on websites, informing them of the time and area of the drone operation.
   - Avoid not obtaining it, especially in private situations or events.