




GLOBAL DRONE GD100 Remote Control Foldable Drone User Guide

[Home](#) » [GLOBAL DRONE](#) » GLOBAL DRONE GD100 Remote Control Foldable Drone User Guide 

GLOBAL DRONE

MANUAL VERSION: V1.2

Foldable Drone

(User Manual)

FOR AGES 12+

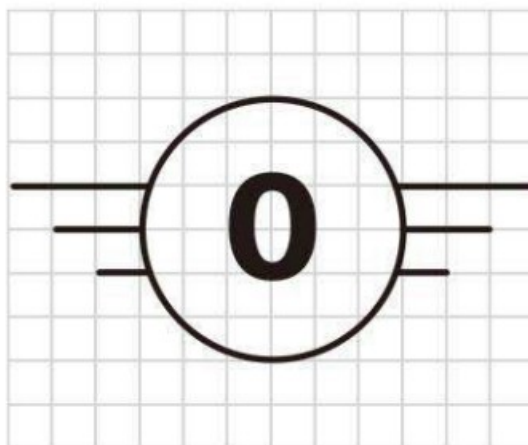


Contents

1	GD100 Remote Control Foldable Drone
2	Important Safety Information
3	Safety Precautions
4	Lithium Polymer Battery (LiPo)
5	Remote Controller and Drone Battery Installation and Charging Instructions
6	Drone Installation
7	Remote Controller Function Instruction
8	Remote control operation
9	Definition and Mode Selection for Headless Mode
10	Enable Obstacle Avoidance
11	Photo/Video
12	Speed Mode Selection
13	Drone Settings Reset
14	Troubleshooting Guide
15	Accessories List
16	DRONE INFORMATION
17	DRONE OPERATION
18	DRONE OPERATION LIMIT
19	RISKS OF DRONE OPERATION
20	APP USER GUIDE
21	Documents / Resources
21.1	References

GD100 Remote Control Foldable Drone

Drone Specifications Manual



2.4 GHZ EDITION

- Only use the original USB charger for charging.
- Do not leave the drone unattended while charging.
- Store the battery in a cool place, avoiding direct sunlight.

Read the manual thoroughly before use (pay special attention to the notice and warning sections). Keep this manual for future reference.

Important Safety Information

1. This product is not an ordinary toy but a precision device that integrates mechanical, electronic, aerodynamics, and high-frequency knowledge. Proper assembly and calibration are required to avoid accidents. The owner of the product must operate it in a safe manner; improper operation may cause serious personal injury or property damage. We assume no responsibility for this, as we have no control over the assembly, usage, or operation process.
2. This product is suitable for users with experience in operating models and who are at least 12 years old.
3. The flight area must be a legally authorized remote-controlled model flying field.
4. Once the product is sold, we assume no safety responsibility arising from its operation, use, or control.
5. For any issues related to usage, operation, or maintenance, we have authorized our distributors to provide technical support and after-sales service. Please contact your local distributor.

Safety Precautions

Remote-controlled model aircraft are high-risk products, and must be kept away from crowds during flight. Improper assembly, body damage, faulty electronic control equipment, or unfamiliarity with operation can lead to unpredictable accidents such as damage to the aircraft or personal injury. Pilots must pay attention to safety and be aware of their responsibility for any negligence.

1. Stay away from obstacles and crowds

Remote-controlled aircraft can have unpredictable flight speeds and conditions, posing potential dangers. You must stay away from crowds, tall buildings, and high-voltage power lines during flight. Also, avoid flying in bad weather such as wind, rain, or thunderstorms to ensure the safety of the operator, nearby people, and property.

2. Stay away from damp environments

The drone is composed of many precise electronic and mechanical components, so it is essential to prevent moisture or water vapor from entering the body to avoid malfunctions of mechanical or electronic components, which could cause accidents.

3. Operate safely

Operate the remote-controlled aircraft according to your own condition and flying skills.

Fatigue, poor mental state, or improper operation will increase the risk of accidents.

4. Keep away from high-speed rotating parts

When the propellers are rotating at high speed, keep operators, nearby people, and objects away from the rotating parts to avoid danger and damage.

Lithium Polymer Battery (LiPo)

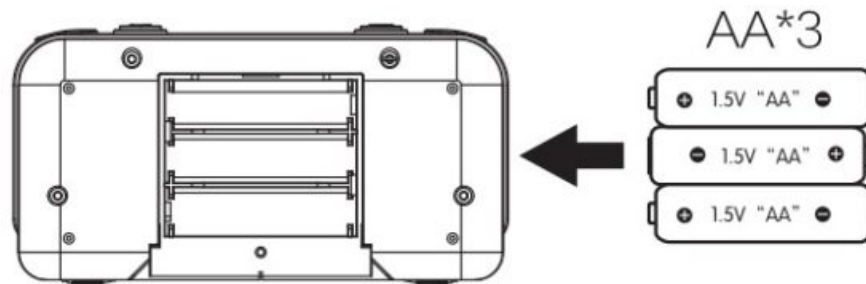
Lithium batteries are different from ordinary batteries. They are wrapped in a thin layer of foil containing chemicals, which significantly reduces weight but makes them more fragile when subjected to rough or improper handling. As with all batteries, improper handling can result in fire or explosion.

- Do not charge the battery while it is inside the model, as this could cause the battery to catch fire and result in damage.
- If you plan not to use the product for a week or longer, keep the battery at 50% charge to extend its lifespan. To achieve this, charge the battery for half the time required for a full charge.
- Use the original manufacturer's professional charger to charge the battery.
- Do not charge the battery on a carpet to avoid fire hazards.

- If the lithium battery is stored for more than three months, it must be recharged to maintain voltage and ensure its lifespan.

Remote Controller and Drone Battery Installation and Charging Instructions

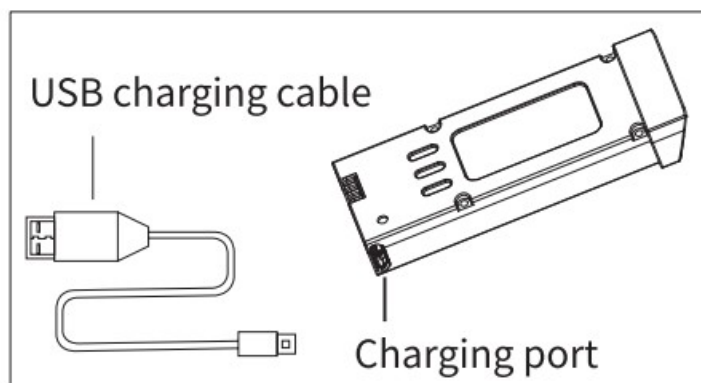
1. Remote Controller Battery Installation



Insert the batteries into the remote controller following the polarity markings (+, -) as shown in the diagram.

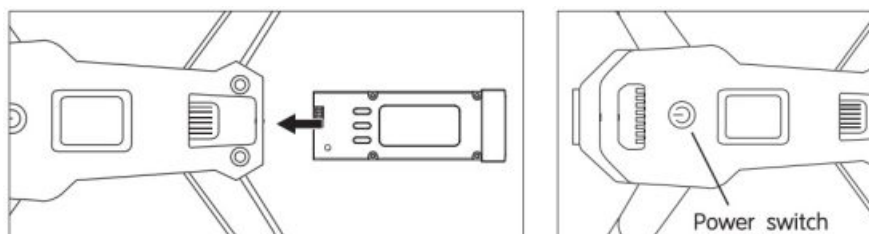
2. Drone Battery Charging

- (1) Remove the battery from the body of the drone.
 - (2) Connect the battery to the dedicated charging cable, then plug the cable into a USB port on a computer or similar power source.
 - (3) The red light will be on during charging and will turn off when the battery is fully charged.
- Charging time is approximately 80-100 minutes.



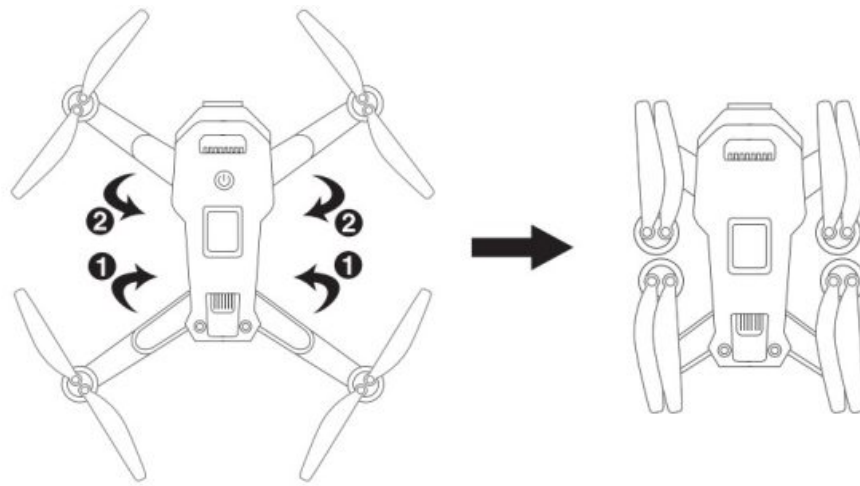
3. Drone Battery Installation and Activation

Insert the fully charged battery into the battery compartment of the drone and hold down the power button until the flight lights turn on.



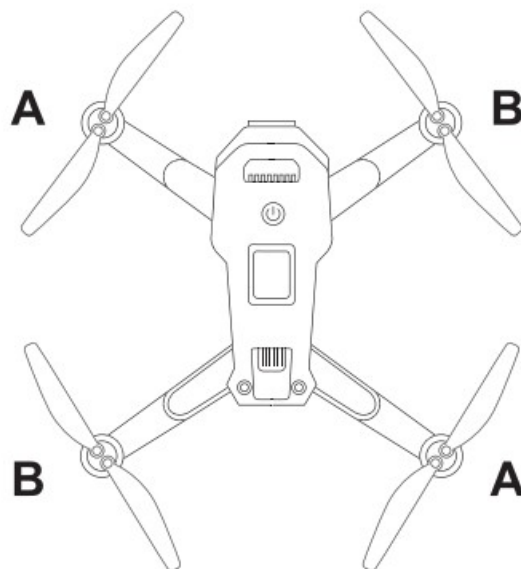
Drone Installation

1. Folding Function

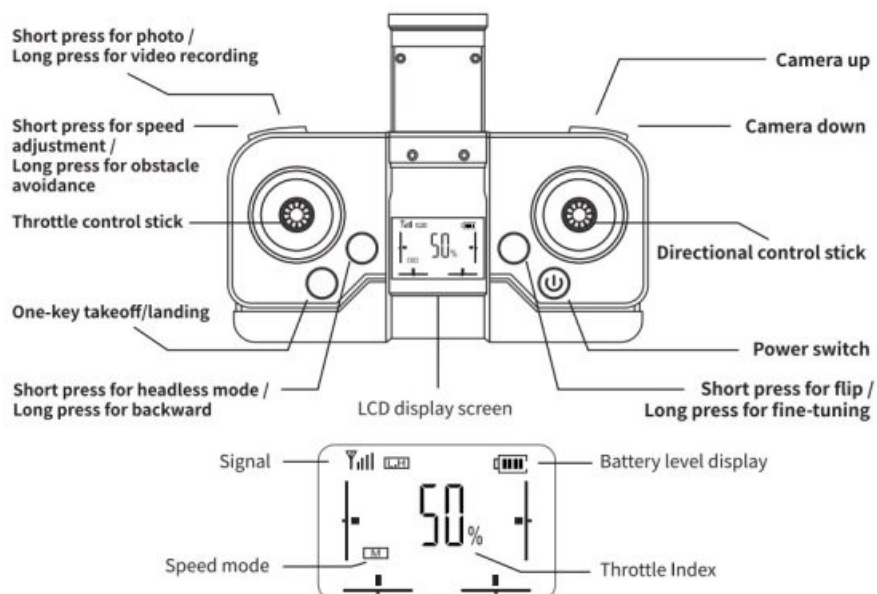


2. Drone Propeller Installation

Install the propellers in the correct direction. Attach the propeller marked “A” to the left front and right rear arms of the drone, and the propeller marked “B” to the right front arm. After installation, make sure to tighten the screws securely.



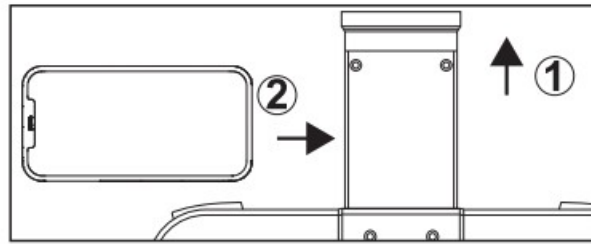
Remote Controller Function Instruction



Remote control operation

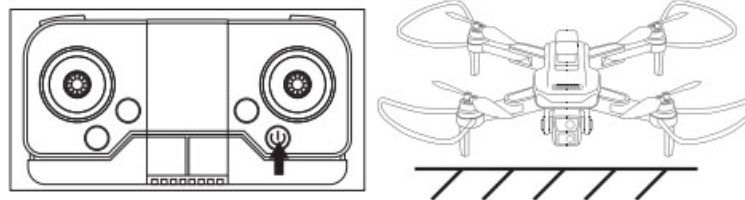
1. Phone Holder

Open the phone holder on the remote controller and secure the phone in place.



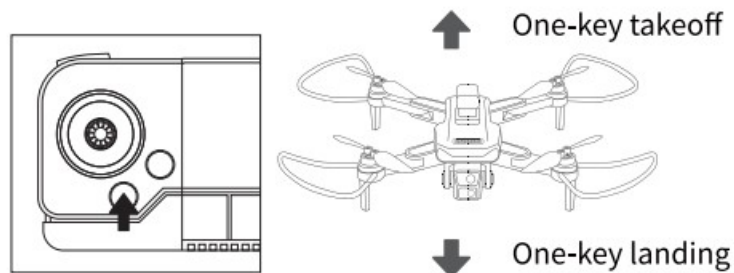
2. 2.4G Frequency Pairing

Turn on the drone's power switch and place the drone on a flat surface. The drone's indicator lights will flash. Then, turn on the remote controller, and you will hear a "beep" from the buzzer. The drone's lights will turn solid, indicating that frequency pairing is complete.



3. One-Key Takeoff and One-Key Landing

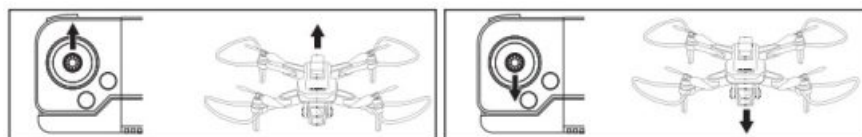
Note: This product uses a barometer for altitude hold. Height variations at the start of the flight or during low battery levels are normal due to environmental temperature changes and other factors.



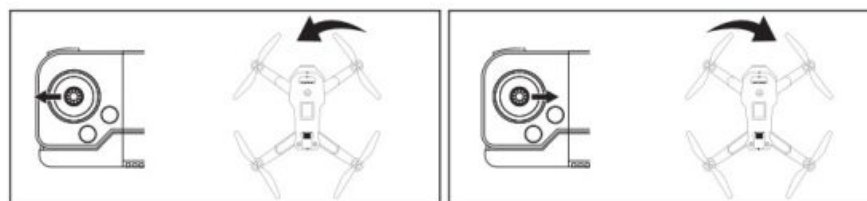
Operation can only proceed once the 2.4G pairing is complete.

4. Flight Control

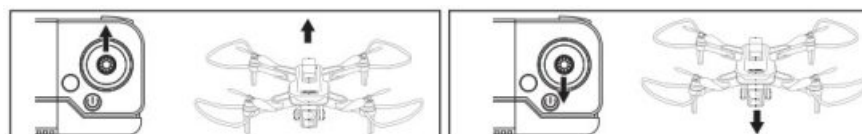
• Throttle (left stick)



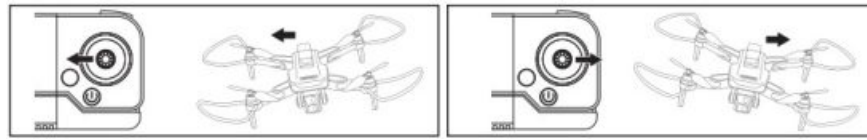
• Rotation (left Stick)



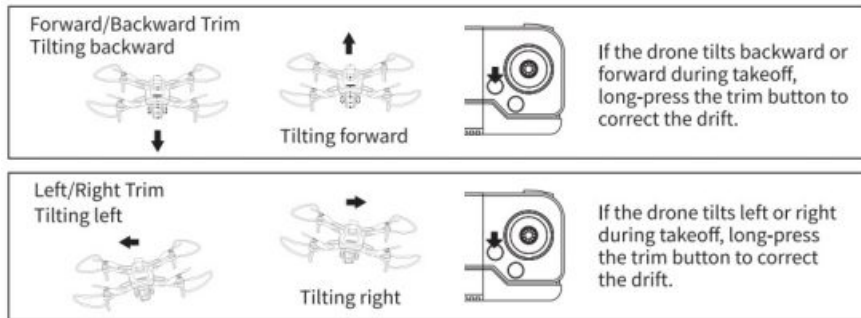
• Forward/Backward (right stick)



• Side flight left/right (right stick)



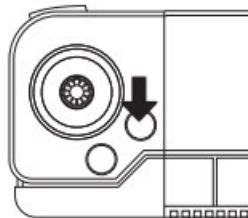
5. Trim Control



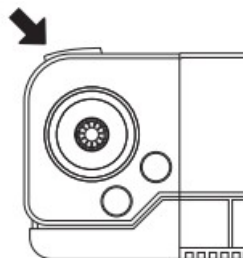
Definition and Mode Selection for Headless Mode

In headless mode, the drone disregards its own forward, backward, left, and right directions, and instead, the direction where the camera is facing at the time of 2.4G pairing becomes the forward direction.

1. Direction definition before takeoff: Ensure the drone's front (camera side) is facing directly in front of you, then turn on the remote controller to pair via 2.4G, completing the direction definition for headless mode.
2. During flight, press the headless mode button, and the remote controller will continuously beep, and the drone's lights will flash rapidly to indicate it has entered headless mode. Press the button again, and you will hear a "beep beep" sound from the remote controller, indicating the drone has exited headless mode.



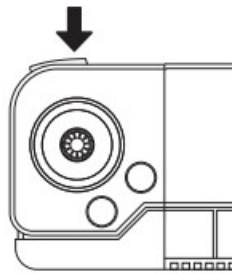
Enable Obstacle Avoidance



After turning on the drone, long-press this button to activate obstacle avoidance mode (in this mode, the drone operates at a low speed).

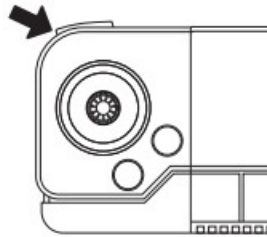
Long-press the button again to disable obstacle avoidance mode.

Photo/Video



Short press this button to take a photo, long press to start video recording.

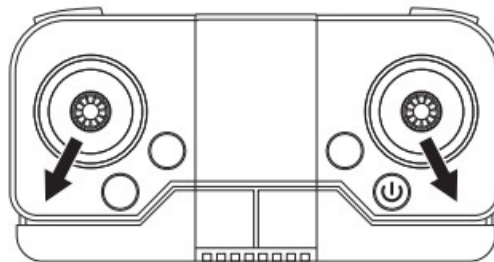
Speed Mode Selection



The speed mode divides forward, backward, and side flights into three speeds. After turning on the remote controller, the default setting is low speed. Press the remote controller button once, and you will hear two “beep” sounds indicating medium speed. Press it again, and you will hear three “beep” sounds for high speed. Press it once more, and a single “beep” will return it to low speed. (It is recommended for beginners to use the low-speed mode.)

Drone Settings Reset

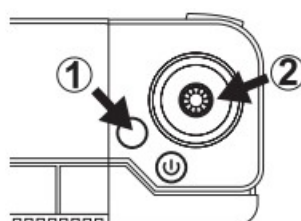
For beginners, if the drone flies unstably or drifts in one gyro horizontal calibration direction after takeoff, use the function to correct the drone. As shown in the diagram, after turning on the drone and completing the 2.4G pairing, place the drone on a flat surface. Push both control sticks outward on the remote controller, and the buzzer will beep. The drone’s lights will flash and then remain solid, indicating that the calibration is complete.



⚠ Emergency Stop

1. When the tilt angle of the drone exceeds 60 degrees, the drone will stop rotating.
2. When the propeller is jammed, the motor will automatically stop.

360° Flip



Steps to Perform:

1. Press the “360° Flip” button, and the remote controller will continuously beep.
2. Push the right stick, and the drone will perform a 360° flip in the direction indicated by the right stick.


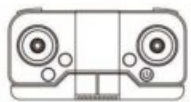








The 360° flip function will automatically be disabled when the drone's battery is low.

Troubleshooting Guide

Problem	Cause	Solution
After connecting the battery, the drone's lights flash continuously, and it does not respond to controls.	The drone and the remote controller failed to complete the 2.4G pairing.	Re-perform the 2.4G pairing between the drone and the remote controller.
No response after connecting the battery.	(1) Check if the remote controller or drone is powered on. (2) Check if the battery of the remote controller or drone is low. (3) Check if the battery terminals have poor contact.	(1) Reinstall the battery. (2) Recharge or replace with a new battery. (3) Ensure the correct polarity of the battery is installed.
When pushing the throttle stick, the motor does not turn, and the drone's lights keep flashing.	The drone's battery is insufficiently charged.	Charge the battery or replace it with a fully charged one.
The propellers continue to spin, but the drone does not take off.	3) Propeller is deformed. 2) The drone's battery is insufficiently charged.	(1) Replace the propeller. (2) Charge the battery or replace it with a fully charged one.
The drone vibrates excessively.	The propeller is deformed.	Replace the propeller.
The drone continuously drifts in one direction,	The gyro center point on the drone is incorrect.	Perform a horizontal calibration again or restart and re-pair the drone.
The drone loses balance and cannot recover after falling.	The gyro center point on the drone is incorrect.	Perform a horizontal calibration again or restart and re-pair the drone.

Accessories List

 Drone x 1	 Remote controller x 1	 Propeller blades x 2	 USB charger x 1
 Battery x 1	 Protective frame x 4	 Screwdriver x 1	 User manual x 1

GD100 Infrared Obstacle Avoidance Sensor Module Installation:

1. Open the cover of the obstacle avoidance head and connect the terminal wires from the drone to the terminal wires of the obstacle avoidance head module.
2. After connecting, put the obstacle avoidance head module into the slot of the obstacle avoidance head, the installation is completed.

GD100 Propellers Protective Frame Installation:

Slip the propellers protective frame through the foot of the drone's arm, press it into the arm snap, and the installation is complete.

DRONE INFORMATION

Model No.: GD100 Class: CO

List of Items:

1. Battery (Model: YN953465), weight: 52g, Capacity: 3000mAh, Maximum Voltage: 4.4V, Nominal Voltage: 3.7V
2. Propeller (Model: 7.0cm), weight: 1.0g
3. Infrared Obstacle Avoidance Sensor Module (Model No.: KY-027), Weight: 10g, Size: 3 x 2.5 x 4.2 cm (OAS Compatibility: This KY-027 obstacle avoidance sensor module is compatible with each GD100 drone, but not with other models.)
4. Propeller Protective Frame (Model No.: GD100 Propeller Protective Frame), Weight: 1.6g, Size: 95mm

List of Combination:

1. Remote Control Drone (GD100) + Remote Controller (GD100 Remote Controller)
2. Remote Control Drone (GD100) + APP (WiFi_CAM)
3. Remote Control Drone (GD100) + Remote Controller (GD100 Remote Controller) + APP (WiFi_CAM)

Drone Weight: 203.5g Maximum Take-Off Mass (MTOM): 213g

MTOM Statement:

1. GD100 drone's maximum take-off weight is 213g, including battery, propellers, infrared obstacle avoidance sensor module and propellers protective frame;
2. Users are prohibited from carrying accessories other than the list of items.

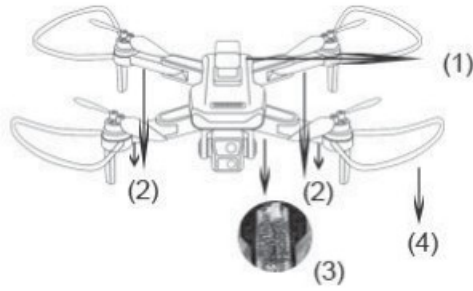
Max Size (Unfolded): 31 x 21 x 9 cm

Maximum Propellers Rotation Speed: 15540 RPM

Drone Sensor/Lights/Antenna Location: Refer to right photo

How To Distinguish GD100 and GD100 Pro (Max):

1. GD100 is without GPS and control range is below 100m, GD100 Pro (Max) is with GPS and control range is below 1000m;
2. GD100 is equipped with infrared obstacle avoidance module, GD100 Pro (Max) is equipped with laser obstacle avoidance module.



1. Infrared Obstacle Avoidance Sensor Module
2. Drone A Lights
3. Drone Antenna (inside the drone)
4. Propeller Protective Frame

Installation Steps: Please refer to Page 2-3 of User Manual

Remote Controller Model: GD100 Remote Controller

Remote Control Frequency: 2405MHz-2475MHz

RC Firmware Version: V1.3 RC Hardware Version: V1.2

Potential Sources of Interference: Crowd people, high-rise buildings, high-voltage wires, severe weather and etc.

Risks Of Misuse: Operation is disturbed, operation is insensitive, and even collision and crash may occur, causing damage to personnel and property.

How To Reduce Risks: Fly away from the sources of interference to ensure the safety App Support: iOS 9.0 or above, Android 6.0 or above

Remote Controller Alert:

1. When the GD100 drone equip with infrared obstacle avoidance sensor module and it detect obstacle while operating it to fly to one direction, the remote controller will quickly beep, and fly a short distance in the opposite direction.
Solution: Fly to Opposite direction.
2. When the GD100 drone power is lower, the remote control will slowly beep and the lights on the drone will slowly flash.
Solution: Stop flying and charge the battery of the drone.

The Connection Between Drone & Remote Controller:

1. When the drone and remote controller have not been connected, the power indicator on the remote control will be slowly flash, the lights on the drone will be slowly flash too.
2. Turn on the drone and the remote controller, they will auto connect, and all the lights stop flash.
3. There is not any alert when the connection between drone and remote controller lost, so please fly the drone within 100m to avoid lose connection. If fly further from 100m, please land the drone right away, restart the drone to re-build up the connection.

DRONE OPERATION

Pilot Health Requirements: This product should not be used while drinking alcohol or consuming drugs, if the pilots are feeling fatigued, taking medicine, or feeling any physical discomfort.

Instructions:

1. Safe handling of batteries: Refer to Page 1
2. Cleaning and refurbishment: The interior of the drone is made up of many sophisticated electronic components and mechanical parts, it is necessary to prevent the drone away from wet or into the body, as as to avoid mechanical electronic components failure caused by accidents!
3. Pre-flight Calibration: Before each flight need to calibrate the gyro on the level surface (refer to Page 6 'Drone Settings Reset')

Flight Altitude Restrictions: Below 30 meters

Away From Crowds: The flight of the drone has an uncertain flight speed and state, which has potential risk.

Please fly away from the crowds during your flight, to ensure the safety of pilots, the surroundings population and the property.

Other Local Restrictions Apply: The flight site must be a local legal remote control model flight site, please away from flight-forbidden area.

Visual & Functional Checklist of Drone:

1. Drone structure is complete, appearance is not damaged and can be connected to the remote control normally;
2. Motor is complete and good use;
3. Propellers are complete, no damage and install correctly;
4. Battery is full power;

Visual & Functional Checklist of Remote Controller:

1. Remote controller can be connected to the drone normally;
2. Buttons and joysticks use normally;
3. Battery is full power

Standard (Recommended) Flight Environment: Away from interference sources, obstacles and crowds, in a clear, windless or lightly breezy environment

Emergency Operation Introduction: When the drone meet emergency situation, please use the "emergency stop" method to stop the drone flying and avoid any people or property damage. Software Update Guide: Please update the APP when Google Play or iOS App Store upload the latest version of APP

Take-off Method: Please refer to Page 4

Guidance On Transportation & Storage Of Drone, Remote Control And Battery:

1. Please keep the drone, remote control and battery in a dry and cool environment to prevent moisture from entering the drone and damaging electronic components;
2. Please take out the battery of remote control after each using;
3. Don't put the battery in the drone for charging, which may cause the battery to fire and damage the drone;
4. If plan to not use this product for one week or more, keep the battery 50% power and it will increase the battery life; 5
5. Please use the original professional charging cable to charge the battery;
6. Don't charge the battery on the carpet to prevent fire;
7. If the battery keep 3 months or more, please charge it again to keep its battery life.

Checklist After Flight:

1. The drone isn't crashed or damaged, motors and propellers are good;

2. The drone and the remote control has been closed after flight;
3. If the battery is in low power, please charge it in time.

DRONE OPERATION LIMIT

GD100 drone only have one flight mode: optical flow mode, and this mode has 3 gear:
Maximum Speed:

1. First Gear: 3.92 m/s
2. Second Gear: 7.2 m/s
3. Third Gear: 8.55 m/s

Maximum Flight Altitude Restrictions: Below 30 meters

Flight Restrictions:

1. Maximum Take Off Altitude: 3000 meters
2. Don't fly near electromagnetic sources such as high-voltage electric pipes;
3. Don't fly near high-intensity radiation fields (such as high-power radar or TV broadcast antenna transmitters);
4. Do not fly near buildings, and fly at least 100m away from buildings

Performance Limit:

1. Battery Working Temperature: -5~40C
2. Battery Using Cycles: About 150 times
3. Battery Usage Time: About 20 minutes (from 100% power to 0% power)
4. GD100 battery only could be used for GD100 models, can't be used for other drones or other products.

Environmental Restrictions:

1. The drone can be fly at the daytime or night;
2. Maximum wind resistance: 3.3 m/s. When the user is operating in first or second gear, it is recommended to fly in an environment with a wind speed below 1m/s;
3. Operation, transportation & storage limit: Please operate, transport and store the drone below 3000 meters altitude, -5~40°C temperature and below 70%RH dry environment. Battery performance deteriorates at low temperatures, please avoid storing and using the battery at low temperatures.;
4. Avoid to fly the drone in rainy, snowy, foggy and other extreme weather conditions

RISKS OF DRONE OPERATION

Risk Checklist

1. Risk Checklist for Pre-flight:
 - i. Install propellers incorrectly and caused the drone could not take off successfully
 - ii. The battery is low power and caused the drone could not take off successfully
2. Risk Checklist for Post-flight:

- i, Forget to close the power of drone/remote controller and misoperate the remote control cause motors suddenly rotating/drone suddenly take off;
 - ii. Forget to take out the battery of remote controller for a long time and caused battery damage
3. Risks During Flight Operations:
- i, Unfamiliar to drone operation, misoperate the drone and caused the drone fly to wrong direction, hit some obstacle or even crash;
 - ii. Fly in a unsuitable weather and caused the drone fly to wrong direction, hit some obstacle or even crash;
 - iii. Fly too closed to the interference sources or building and caused the drone hit some obstacle or even crash.
4. UAV System Maintenance:
- i. Repairs by personnel who are not familiar with drones may cause damage to the drone's internal parts;
 - ii. Repairs using unofficial parts may render the drone unusable or even damage other internal electronic components.
5. Transportation Risks:
- i. The appearance/internal damage of the drone caused by violent transportation.
 - ii. The appearance/internal damage of the drone caused by inappropriate transportation conditions, such as high temperature, high humidity, transportation with other corrosive chemicals, etc.
6. Storage Risks
- The appearance/internal damage of the drone caused by inappropriate storage conditions, such as high temperature, high humidity, stored with other corrosive chemicals, etc.

Flight Restrictions:

- 1. Maximum Take Off Altitude: 3000 meters
- 2. Don't fly near electromagnetic sources such as high-voltage electric pipes;
- 3. Don't fly near high-intensity radiation fields (such as high-power radar or TV broadcast antenna transmitters);

Data Safety:

- 1. This model cannot use external devices to download video images and software updates through the Internet, so it will not cause data exchange and endanger software integrity.
- 2. This drone cannot be equipped with sensors that can detect personal data, so it will not infringe or damage personal data.

Privacy Protection

When using drones to take photos/videos, you should fully consider the content of the photos/ videos, respect the privacy of others, and avoid infringing on the privacy of others.

List of All Safeguards

- 1. Protective Frame of Propellers: Please refer to Page 7 'GD100 Propellers Protective Frame Installation'.
- 2. Emergency Stop: When encountering an emergency, please press and hold the 'emergency stop' button to stop the operation of the drone.
- 3. Infrared Obstacle Avoidance: Please refer to Page 5 'Enable Obstacle Avoidance'.

Address: No. 133, Block 7-14, Kaide Garden, No.145 Jinsha Road, Longhu District,
Shantou City, Guangdong, China

Website: www.toys-china.com

Brand: Global Drone

APP USER GUIDE

INSTALL THE DRONE' S APP:

1. Search 'WiFi_CAM' in Apple Store or Google Play to get the App.
2. Scan the QR Code to download the App.



<http://qr02.cn/FrW2Ym>

CONNECTION DETAILS:

1. Turn on the power of the model, the red light flash, waiting for connection on the mobile phone.
2. Click 'Settings' option on the mobile phone, open the Wifi, find a Wifi network list called "WIFI_xxx xxxX", click connection until 'Connected', and then exit the settings option.
3. Open the software, click 'START' icon into the control interface.



WiFi_CAM FUNCTION INTRODUCTION:

