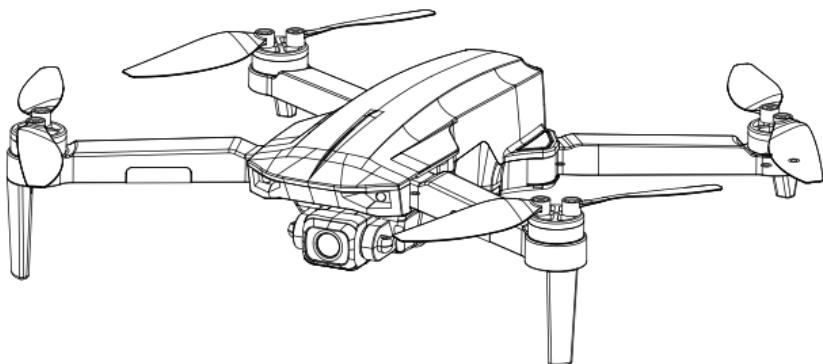


# INSTRUCTION

## DRONE WITH GPS POSITIONING



# N100

Thank you for your purchase of this product. Please read the Operation Instruction carefully and conduct operation and usage according to the Operation Instruction. Please keep this User Manual for your reference when conducting daily maintenance and adjustment.

# Safety instructions

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1. please keep the parts of drone out of the reach of children.
2. this drone is very powerful. When using it for the first time, you should push the left control lever slowly to prevent the drone from rising too fast and causing unnecessary collisions and injuries.
3. when a flight is ended, please turn off the power switch of remote control first and turn off the power switch of the drone then.
4. do not place the drone battery in high temperature condition or near flammable or explosive materials.
5. please keep the drone at a distance of 4.5 meters from humans and animals to ensure safety and prevent injury.
6. this drone is suitable for people aged 14 and over, and it should be within the sight of the operator's (coach) to ensure safe flight.
7. do not charge the battery of remote control if the battery is a non-rechargeable battery. The drone must be used with the original batteries.
8. if the drone will not be used for a long time, please take the batteries out of the remote control unit.
9. do not cause a short circuit during the charging.
10. if you do not use the drone for more than 10 days, please discharge the battery of drone to 40-50%(light for a certain time). In this way, the life of battery will be extended greatly.
11. please keep a safe distance from the rotating propeller to prevent injury.
12. all operators should abide by the electromagnetic environment regulations of China on the aeronautical radio (station), which remote control radios are prohibited from being used within 500 meters of the airport pavement, they are also required to comply with the certificate and broadcasting regulations made by the relevant regulatory authorities, including flight time and area.
13. please assemble the drone under the supervision of an adult.
14. operators are responsible for their safe flight and safe distance. Do not hover and fly over the crowd (more than 12 people).

# Protection Measures

---

## 1.Signal breakage protection

Signal breakage protection means that after the aircraft loses the remote control signal, it will automatically return to the take-off point when it successfully searches the satellite for positioning and keeps the GPS system on.

Possible situation of entering signal breakage protection mode:

- ①The remote control is suddenly powered off or turned off.
- ②When the phone is operated, disconnect the hot spot, exit the software, shut down, etc.
- ③The signal of the remote control or mobile phone is interfered by other radio waves.
- ④Due to wind force or inertia, the flight distance is beyond the control range of remote control or WiFi signal from mobile phone.
- ⑤There are obstructions between the aircraft and the remote control or mobile phone that affect the signal transmission.

## 2.Low power protection

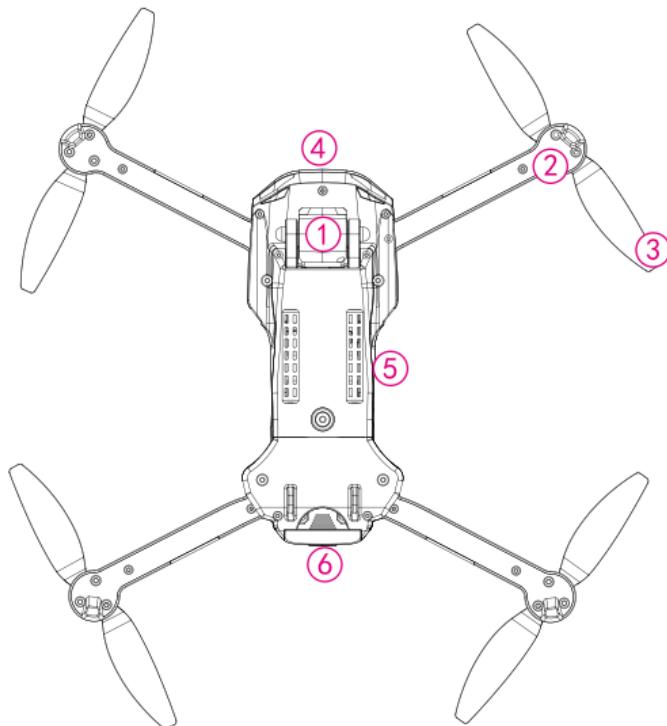
Low power protection means that the aircraft has an intelligent power calculation system, which will calculate the flight time supported by the remaining power according to the flight speed and distance of the aircraft. When the power is lower than the protection value, the aircraft will automatically return to the safe range. And when the power is nearly exhausted, the aircraft will automatically return to the takeoff point and force to land.

# CATALOG

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# Know your drone

Adopt 2.4Ghz Frequency, multi-persons operate at the same time, do not interfere with each other. Through remote control to operate the drone, or WIFI connect drone and mobile phone, APP mode control drone, more playing functions.



① Camera

② Motor

③ Propeller blades

④ fuselage top cover

⑤ fuselage down cover

⑥ battery

# Drone

## Description of drone

This drone has good controllability and stability. Besides supporting ordinary flight, it also has many other functions, such as GPS outdoor fixed point, real-time image transmission, information transmission, mobile phone control, photographing and video recording, gesture recognition, surround flight, track flight, follow flight, One-click return, head-free flight mode,etc., it is also with many safety measures such as propeller blade stuck protection, low battery alarm, automatic low battery return, height and flight fence restrictions.

## Installing the Propellers

The Drone comes with replaceable propellers if the originals are broken or badly damaged.

(1) When installing for the first time, please carefully distinguish the propellers type.

Model A propeller blade

①

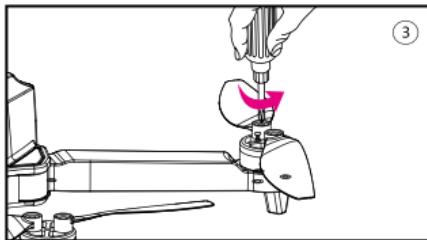


Model B propeller blade

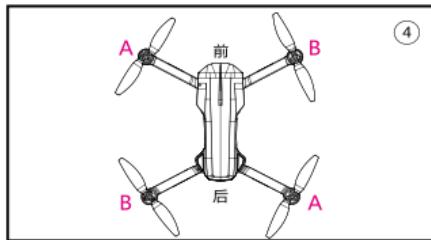
②



(2) Referring to Figure 3, insert the groove of propeller opener into the bottom of propeller which needs to be replaced. And press the handle of the opener to take down the propeller.



③



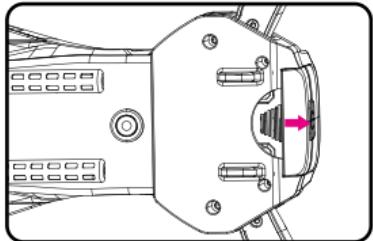
④

(3) Referring to Figure 4, distinguish between type A and type B propellers, and press the propeller vertically to install them on the motor shaft. The mark can be found on the rotor. It is extremely important to use the correct propeller (A or B) for replacement. Using the incorrect propeller will make the drone out of control.

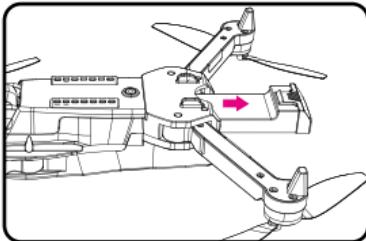
# Battery Charging Steps

The battery is 7.4V lithium battery, pls using factory-configured USB cable to charge.

**⚠ First using drone to fly, please fully charge the battery.**

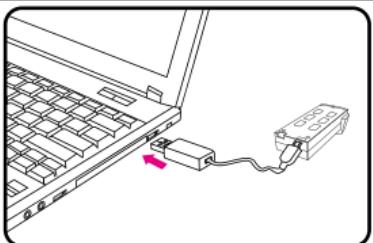


A.Rotate outward , unlock the module  
battery

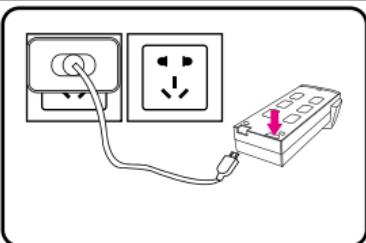


B.upward , Remove the battery

## Charge way



1.USB connect computer charge way

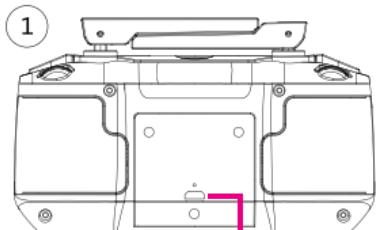


2.Connect socket charge way

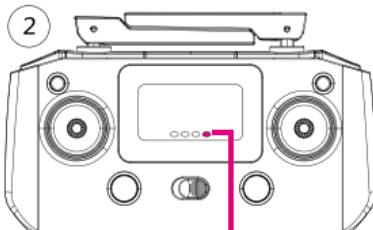
When the battery is charged, the LED of battery is red, and the LED is green when the battery is finished charged. The charging time is about 150 minutes.

## Remote Control Charging

When the battery is charged, the indicator of the remote control is on while off when the charging is completion.



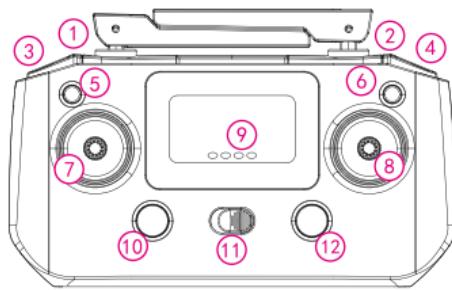
Charging port



Charging indicator

# Remote control

## Functions Instructions



Controller Light function display

Light1: The power indicator is always on means that the frequency matching is successfully.

Light2: Headless mode indicator. When it is turn on the headless mode, the indicator lights up. Light3: GPS indicator. It is on by default and turn s off when switching to indoor mode.

Light4:Remote control charging indicator. When the remote control is charged, the indicator lights up while be off when charging completion.

① (Rolling) Speed switch	⑦ Up & Down/ Left & Right turning
② (Rolling) Tripod head adjustment	⑧ Forward & Backward/ Left & Right
③ Photo/ Video	⑨ Indicator
④ One key return	⑩ Deblocking
⑤ GPS Switch	⑪ Switch
⑥ Geomagnetic Calibration	⑫ Headless Mode

# Preparing for flight

## Preparing Inspection

Please inspect the following items before flying

- (1) Whether the drone and remote control are both with fully battery power
- (2) Whether the propellers are installed correctly and without any damage
- (3) Whether the propellers can ran normally when the produce is started
- (4) Check whether the gyroscope and magnetometer correction completed successfully.
- (5) Whether successful connect smart phone and have transmission image
- (6) Whether completes the search GPS positioning
- (7) Whether environment suitable for flying

Notes:Please check drone'arms are fully open.

## Flight environment requirements

---



Indoor flying : please choose the open spaces that no obstacles, people and pets



Outdoor flying : Please choose sunny, windless or breezy weather.



Keep the aircraft within your sight when flying, away from obstacles, high-voltage lines, trees,etc.

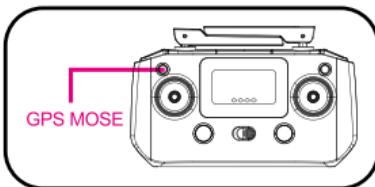


Do not fly when there is strong wind, heavy rain etc weather.

## Altitude hold mode (indoor mode, please use it cautiously)

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As the GPS signal cannot be received indoor, it is necessary to switch to indoor mode.  
( Namely turn off the GPS positioning)  
The operation is as shown below



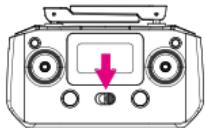
Notes :

- 1.If you turn off the GPS in indoor environment the drone can take off but it is easy to be disturbed by indoor radio signals, which may cause the drone to lose control and hit indoor persons or articles. Please use this function cautiously.
- 2.When the outdoor wind is strong, it is not recommended to open the altitude hold mode, which will cause the wind resistanceability of the drone dropping. the drone can be blown away by the wind.

# First Using and Return

When using this product for the first time, please perform geomagnetic calibration after completing the frequency linking steps.

Start the drone power - start the remote control power - link the drone and the remote control - gyroscope/geomagnetic calibration - unlock the motor - control the drone



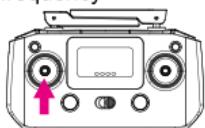
(1. 2) Turn on the power and automatically link the frequency



(3) Correction of geomagnetism

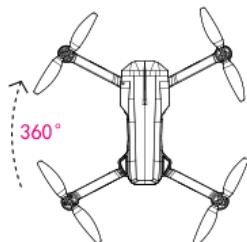


(4) Waiting to search for stars, unlock the motor

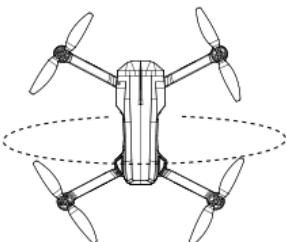


(5) Take off operation

Vertical alignment, the drone stands up and the front of the fuselage rotates 3-4 times



Horizontal calibration, the drone rotates 3-4 circles horizontally



1. Place the drone on the horizontal ground, turn on the power of the drone, the drone will first self-check the sensors after powering on, and wait for all the lights of the drone to change from fast blinking to slow blinking.

2. Turn on the remote control switch, point it at the drone, wait for the drone and remote control to be connected, the light of the drone will change from slow blinking to constant light, which means that the drone and remote control have been successfully connected.

3. The drone will automatically search for GPS, wait for about 30S, and you will hear the "beep" sound, at the same time the remote control shows "satellite icon", The GPS search success.

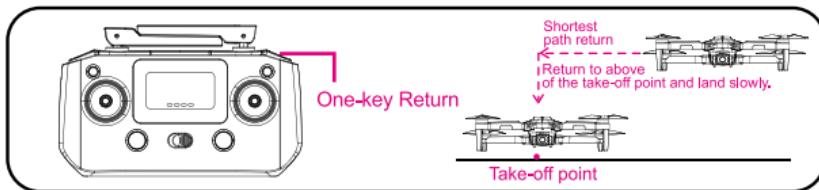
4. Long press the "Calibration Compass" button, at this time, the drone light changes from normal to fast flashing, rotate the drone clockwise horizontally for 3-5 turns to stop and wait for the drone to emit a "beep" sound, which represents that the horizontal calibration is completed, and the drone light changes from fast to slow flashing at this time. This means the horizontal calibration is completed, at this time the drone light will change from fast blinking to slow blinking. Then turn the drone vertically, clockwise 3-5 turns, hear the beep sound calibration is complete, the drone light changes from slow blinking to constant light, representing the vertical calibration is complete.

5. Press the "Unlock Button", the motor of the UAV will start to rotate at low speed.

6. Push the "Throttle" pusher, the UAV will accelerate up. (It is recommended to rise to a safe distance of not less than 5M.)

## One-key Return

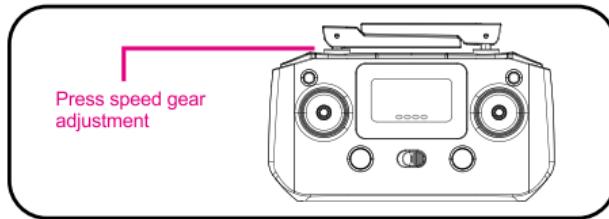
Every time turn on the drone, drone will remember this take-off location automatically. press one key return button when flying, remote control make 2 sound, drone receive operated signal will auto return home. press this button again, drone will stop auto return and keep hovering.



## Advanced Flight Function

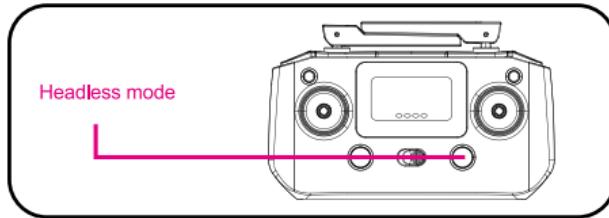
### Speed adjustment

Press speed mode button, switch to low speed mode, remote control make a sound, switch to high speed mode, remote control make 2 sound. (Every time you turn off the remote control and restart the drone, the drone defaults to low speed mode.)



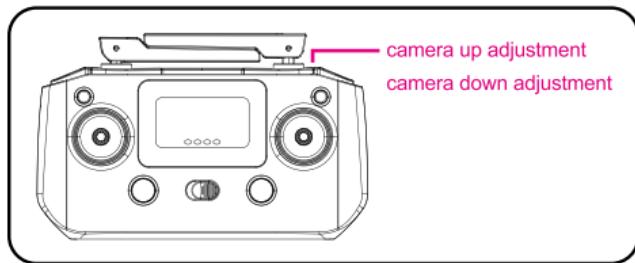
### Headless mode

Press headless mode button, start Headless mode, press again exit this mode

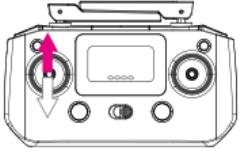
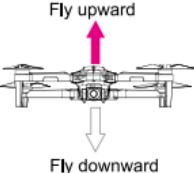
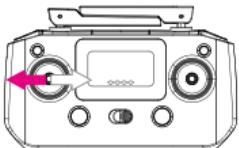
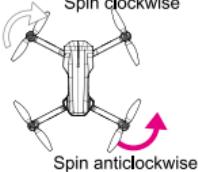
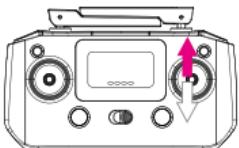
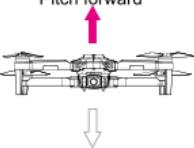
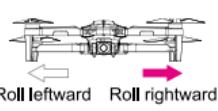


## Camera adjustment

The drone camera up or down adjustment.



## Basic operation

REMOTE CONTROL	DRONE	FLOW
 A line drawing of a remote control with a vertical control lever on the left side. A pink arrow points upwards on the lever.	 A line drawing of a quadcopter drone. An upward-pointing arrow is labeled 'Fly upward' and a downward-pointing arrow is labeled 'Fly downward'.	Push left control lever forward, the drone ascends vertically. Pull left control lever rearward, the drone descends vertically.
 A line drawing of a remote control with a horizontal control lever on the left side. A pink arrow points left on the lever.	 A line drawing of a quadcopter drone. Two circular arrows indicate rotation: one clockwise labeled 'Spin clockwise' and one anticlockwise labeled 'Spin anticlockwise'.	Push left control lever rightward, the drone spins clockwise. Push left control lever leftward, the drone spins anticlockwise.
 A line drawing of a remote control with a vertical control lever on the right side. A pink arrow points upwards on the lever.	 A line drawing of a quadcopter drone. An upward-pointing arrow is labeled 'Pitch forward' and a downward-pointing arrow is labeled 'Pitch backward'.	Push right control lever forward, the drone pitches forward. Pull right control lever rearward, the drone pitches backward.
 A line drawing of a remote control with a horizontal control lever on the right side. A pink arrow points right on the lever.	 A line drawing of a quadcopter drone. Two horizontal arrows indicate roll: one left labeled 'Roll leftward' and one right labeled 'Roll rightward'.	Push right control lever rightward, the drone rolls rightward. Push right control lever leftward, the drone rolls leftward.



**EN** 1. Open the RC DRONE app and turn on the N100 drone at the same time  
**ES** 1. Abre la aplicación RC DRONE y enciende el dron N100 al mismo tiempo

**EN** 2. Click on the middle position of Figure 1.jump to the WIFI interface,connect to "HF\_GPS5G \*\*\*\*"  
**ES** 2. Haz clic en la posición central de la Figura 1,salta a la interfaz WIFI,conéctate a "HF\_GPS5G \*\*\*\*"

**EN** 3. After successfully connecting to WIFI, go back to the app and click "start play" to enter the drone operation interface  
**ES** 3. Despues de conectarte con éxito al WIFI, vuelve a la aplicación y haz clic en "start play" para entrar en la interfaz de funcionamiento del dron

(10)

EN 4. Click "Function" shown in Fig. 2, select "Calibration" in the pop-up dialog box, and then proceed to "CALIBRATION ACCELEROMETER" and "CALIBRATION COMPASSES"



4.1. Click "CALIBRATION ACCELEROMETER", place the drone on the flat surface according to the prompt, and wait for the APP to prompt the completion of calibration

4.2. Click "CALIBRATION COMPASSES", rotate the drone horizontally and vertically according to the instructions, and wait for the APP to indicate that the calibration is successful

ES 4. Haga clic en "Función" mostrada en la Fig. 2, seleccione "Calibración" en el cuadro de diálogo emergente y, a continuación, pase a "ACELERÓMETRO DE CALIBRACIÓN" y "BRÚJULAS DE CALIBRACIÓN"



4.1. Haga clic en "CALLIBRATION ACCELEROMETER", coloque el dron en la superficie plana de acuerdo con la indicación, y espere a que la APP le indique la finalización de la calibración

4.2. Haga clic en "BRÚJULAS DE CALIBRACIÓN", gire el dron horizontal y verticalmente según las instrucciones y espere a que la APP le indique que la calibración se ha realizado correctamente

EN 5. After successful calibration, click the "Unlock" button, then the drone blades will start to rotate

ES 5. Una vez realizada la calibración, pulsa el botón "Desbloquear" y las aspas del dron comenzarán a girar



EN 6. Click the "take off" button and the N100 drone will start to take off (make sure there are no obstacles around before taking off)

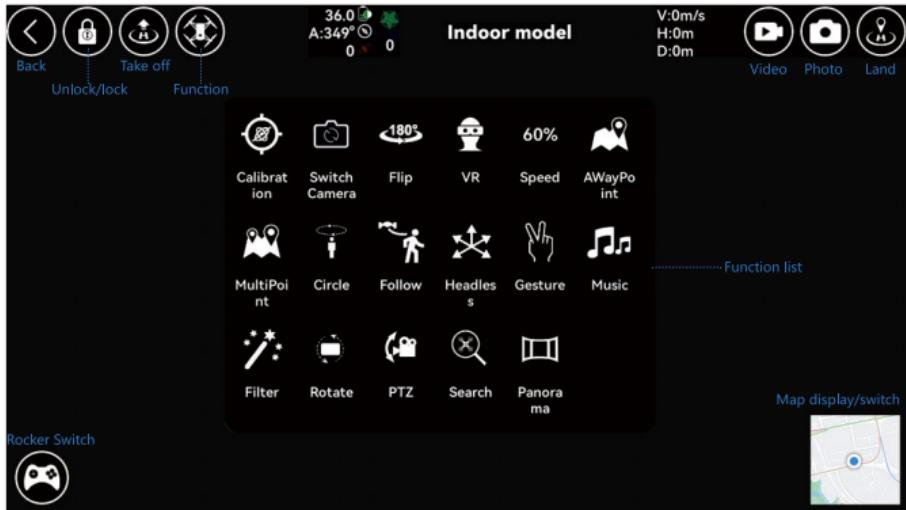
ES 6. Pulsa el botón "despegar" y el dron N100 empezará a despegar (asegúrate de que no hay obstáculos alrededor antes de despegar)



EN 7. Click on "Rocker Switch" to control the drone using the virtual remote stick

ES 7. Haga clic en "Interruptor basculante" para controlar el dron mediante el mando a distancia virtual





This device complies with part 15 of the FCC Rules.

Operation is subject to the following two conditions:

(1) this device may not cause harmful interference, and  
(2) this device must accept any interference received,  
including interference that may cause undesired operation.

Any changes or modifications not expressly approved by the  
party responsible for compliance could void the user's  
authority to operate the equipment.

NOTE: This equipment has been tested and found to comply  
with the limits for a Class B digital device,  
pursuant to Part 15 of the FCC Rules. These limits are  
designed to provide reasonable protection against harmful  
interference in a residential installation. This equipment  
generates, uses and can radiate radio frequency  
energy and, if not installed and used in accordance with the  
instructions, may cause harmful interference to radio  
communications.

However, there is no guarantee that interference will not occur  
in a particular installation. If this equipment does cause  
harmful interference to radio or television reception,  
which can be determined by turning the equipment off and on,  
the user is encouraged to try to correct the  
interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different  
from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

The device has been evaluated to meet general RF exposure  
requirement. The device can be used in portable  
exposure condition without restriction

