CHEERSON®

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14+
AGES

USER MANUAL

NO.CX-OF

Available on the App Store

Google play

Please read and follow all instructions and warnings in the manual prior to set up or use. Do not discard the manual.

Dear Customers:

We appreciate you for choosing our products.
For the safety reasons, please read the manual carefully. Keep the

1 .Warning:

a. This is not a toy. It is a sophisticated hobby product equiped with electronic and mechanical parts. It must be operated with caution and common sense. The pilot should take all reasonable steps in order to protect: himself, other people, animals and property. We take no responsibility for any kind of accidents which are caused by incorrect operation, or incorrect installation of parts.
b. The product is suitable for hobbyist who are over 14 years old.
c. Please fly in areas where flying is permitted.
d. We take no responsibility of operations, usage and etc. after the

2. Safety Precautions

a. It is a high–risk product and we recommend always operate it in open spaces away from people, vehicles and property. Always keep a safe distance in all directions around the device while it is in operation to avoid collisions or injury.

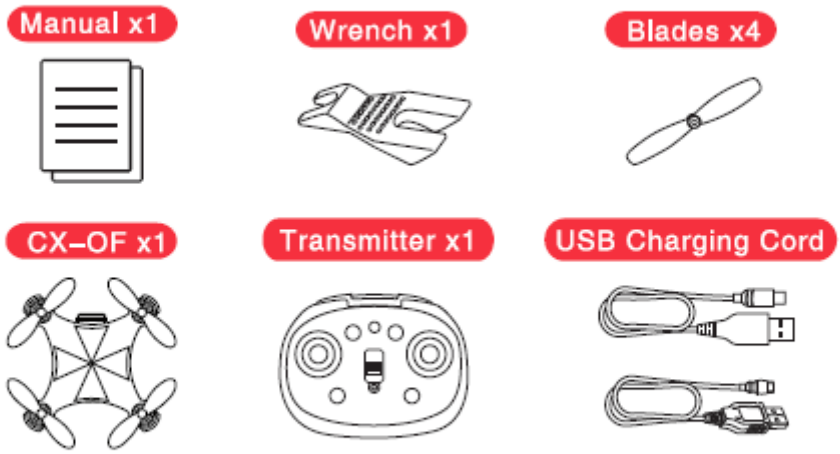
b.The accidents (physical injuries or property damages) may be caused by: incorrect aircraft' s parts installations; damaged aircraft' s parts; defective electronic equipment; unfamiliar

3.Flying CX–OF

a. Make sure all the batteries are fully charged: transmitter battery and aircraft battery.
b. Plug aircraft' s battery and then turn on the transmitter. After the flight, unplug the aircraft' s battery and then turn off the transmitter. Wrong sequence of this procedure may cause the aircraft to fly away or be out of control causing injuries and damages.

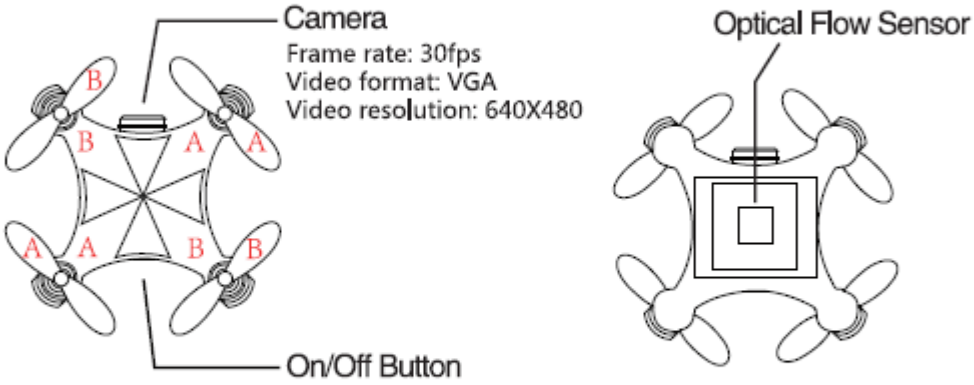
c. Operate the product in open spaces away from: obstacles, people, power lines, high buildings etc. Pay attention to the weather conditions – strong wind, rain and thunder are the potential risk factors which can lead to a loss of control.
d. Avoid water exposure to this product. Keep all the parts dry.
e. Replace broken parts of the aircraft.
f. Obey the local UAV laws and regulations.CX–OF piloting requires specific skills and should be learned under direct supervision of an experienced adult. We recommend to use computer simulative software in order to get basic flying experience before taking CX–OF to the field.
g. Always keep the device in sight during operation.
h. Do not fly the aircraft while under the influence of alcohol. Keep away from the rotating blades (rotating blades may cause bodily injuries, or damage the property).
i. CX–OF is build out of: metal, fiber, plastic and electronic components. Therefore, keep away the aircraft from heat

Box Contents



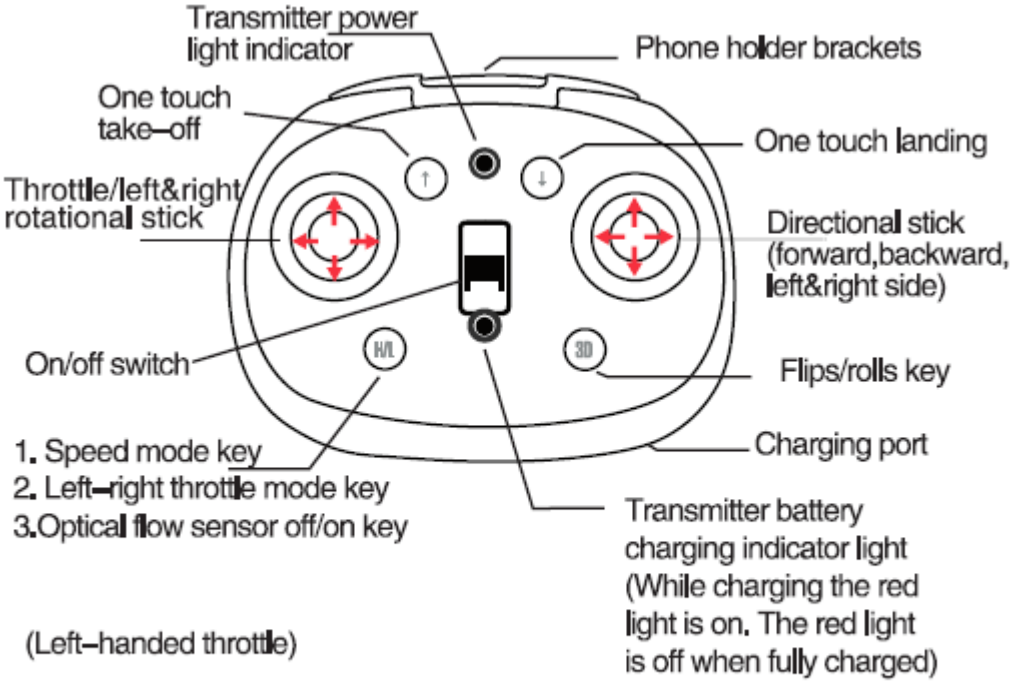
1. Aircraft

CX-OF

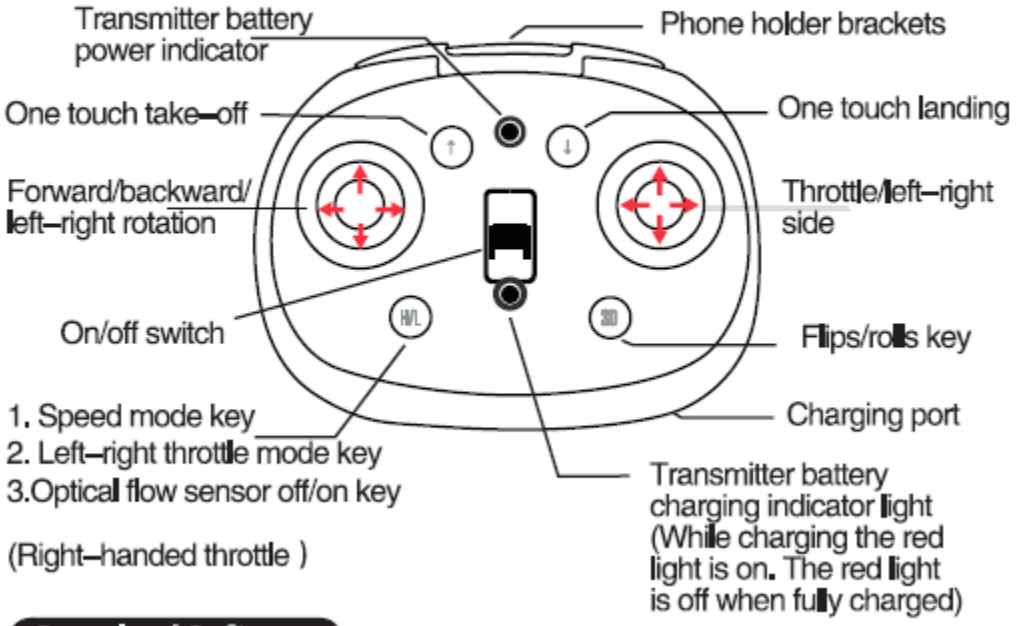


Counter-clockwise propellers labeled A; clockwise propellers labeled B.
Attention: improper propeller installation can cause aircraft damage and accidents.

Transmitter



Turn off the transmitter. Then press and hold the speed mode button, turn on the power of the transmitter and it will automatically enter the right handed throttle mode. (By a default it is left handed throttle mode.)



Download Software

iOS Phone Software Download Instructions

1.Download and Install the Software

Please download and install the software CX–OF from APP Store, or scan the two–dimensional code.

2.WIFI Connection Instruction

①Turn the aircraft on and the indicators will begin to flash rapidly.

②Turn on WiFi and connect CX–OF–XXXXXX. When the "√" appears indicating successful connection then exit the setting.

③Open the software CX–OF on your iPhone or iPad, then click the icon to enter the control interface.

When flying keep away from other WiFi signals as far as possible.

Android Phone Software Download Instructions

Phone Software Download Instructions

1.Download and Install the Software

Overseas User: Please download and install the software CX–OF through the google play store, or scan the two–dimensional code shown, to download and install.

China User: Please download the software CX–OF through alternative way, or scan the two–dimensional code shown, to download and install .appears indicating successful connection then exit the setting.

2.WiFi Connection Instruction

①Turn the aircraft on and the indicators will begin to flash rapidly.

②Turn on WiFi and connect CX–OF–XXXXXX When the "√" appears indicating successful connection then exit the setting.

③Open the software CX–OF on your phone, then click the icon to enter the control interface.

When flying keep away from other WiFi signals as far as possible.

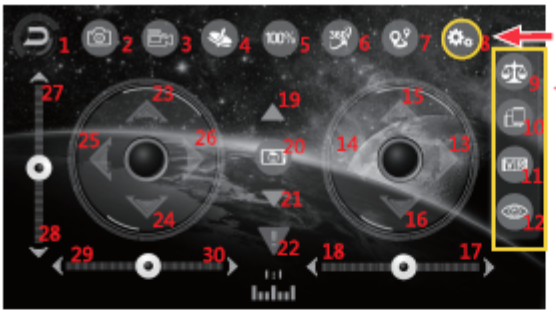
IOS APP | Android APP | GooglePlay

FLYING ENVIRONMENT

Before undertaking indoor flights, ensure to have plenty of open space; make sure there are no obstacles, animals or other people nearby.

WARNING	**Please make sure the surroundings are suitable when operating CX- OF. Always keep your CX- OF in your line of sight. Adult supervision is recommended for users below 18 years old.**

2. INSTRUCTION FOR SOFTWARE CONTROLS



SETTINGS

Clicking SETTINGS icon will cause the additional control functions to be concealed.

1.Return
2.Picture
3.Video
4.Gravity sensing control
5.Speed modes settings

6.One touch flips
7.Trajectory flying
8.Settings
9.One touch balance calibration
10.Rotate the monitor

11.VR screen
12.Controller interface off/on
13/14.Left/right side
15/16.Forward/backward
17/18.Left/right side trim

19.One touch take–off
20.Selfie mode
21.One touch landing
22.One touch emergency stop
23/24.Throttle

25/26.Rotational yaw
27/28.Throttle trim
29/30.Rotational yaw trim

3. OPTICAL FLOW SENSOR

1.Function:

Optical flow is used to achieve fixed position of the aircraft.

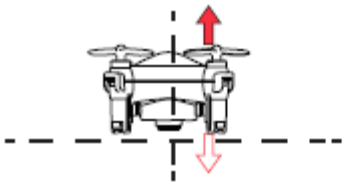
2.Strengthening the quality of Optical Flow signal:

(1) To strengthen the signal fly in a bright Environment. More light helps to strengthen the Optical Flow signal.

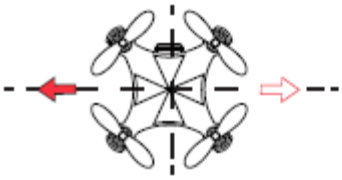
(2) Ensure there are many objects below the aircraft. Dense texture of the ground allows the aircraft to better mainatin a fixed position.

4. Mobile Phone App

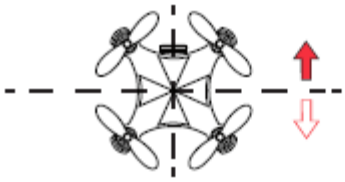
1. Manual flying control（left-handed throttle）



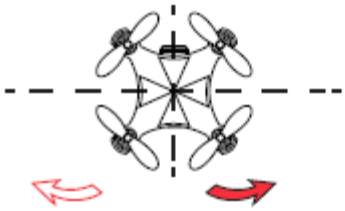
（1）Ascend/descend control: when the throttle stick is moved up the aircraft will ascend; when the throttle stick is lowered, the aircraft will descend.



（2）Left/right side control: when the directional stick is moved left, the aircraft will fly to the left side; when the directional stick is moved right, the aircraft will fly to the right



（3）Forward/backward control: when the directional stick is moved up, the aircraft will fly forward; when it is moved down the aircraft will fly backward.



（4）Rotational control: when the throttle stick is moved left the aircraft will rotate to the left; when it is moved to the right, the aircraft will move to the right.

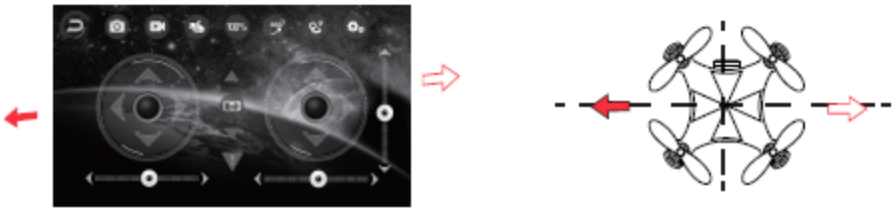
2. Gravity sensor control (left handed throttle mode)

The gravity sensor control is defaulted to OFF status. It will turn blue after clicking the icon, indicating ON status.

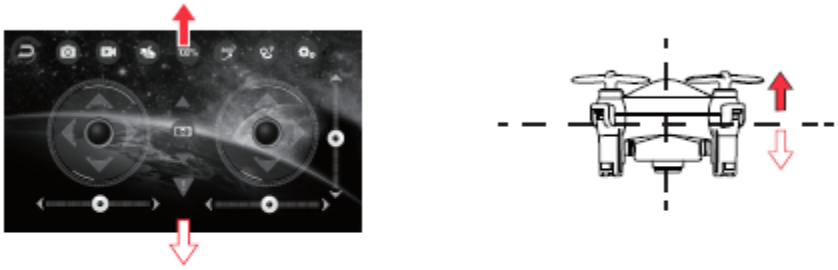
Gravity sensor off

Gravity sensor on

When the gravity sensor is on, you still need to move the throttle stick to control the height and rotational direction. You can use the phone to control the aircraft left/right, forward/backward.



(1) Left/right side control: when the phone slopes to the left the aircraft will fly to the left; when the phone slopes to the right the aircraft will fly to the right.



(2) Forwards/backwards control: when the phone slopes forward, the aircraft will fly forwards; when it slopes backward, the aircraft will fly to backwards.

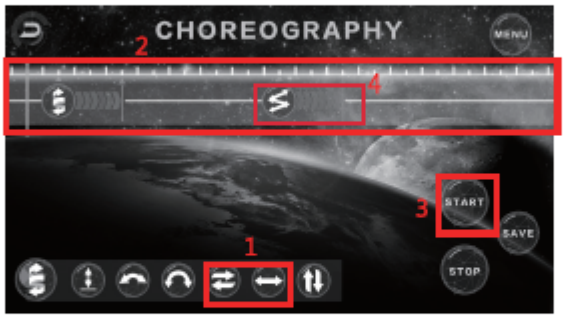
3. Dance Mode (Choreography)

(1) Commands introduction button.

(2) Clicking on icons allows to preset commands in the desired order.

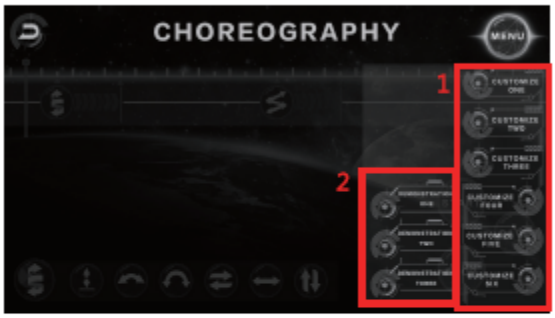
Use the arrows to scroll between commands.

(3) Presetting commands.



1. Press chosen command. ⇨ 2. Command will be automatically added to the cost command queue.
3. Press Start. ⇨ 4. Short press on the command in the command queue and the chosen command will be canceled.

(4)Saving preset commands.



1. Clicking on the Save button allows to save preset commands. The maximum number of preset commands is 6.
2. There are 3 demonstration sets of commands。

4. Warning

(1) Turn of WiFi and reconnect it if there is no WiFi signal found in search menu.

(2) WiFi range may reach 20 meters. Please do not exceed the flying range to keep normal flying.

5. Combining transmitter and app

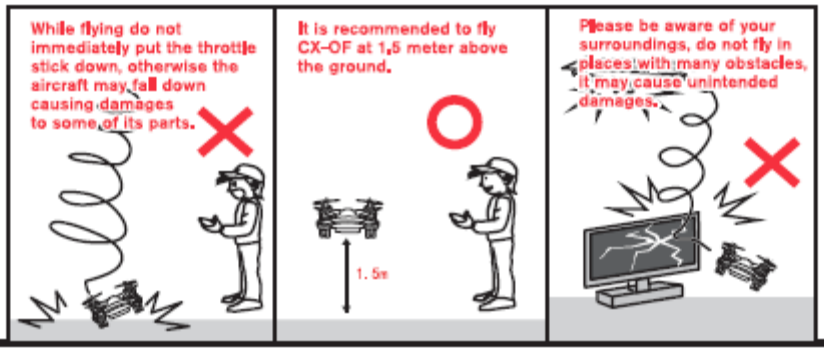
1. Before Flight

1. Put the aircraft on a flat surface and turn it on.
2. Safety distance between a pilot and the aircraft is at least 1 meter.
3. Before undertaking flights, ensure to have plenty of open space; make sure there are no obstacles, animals or other people nearby.

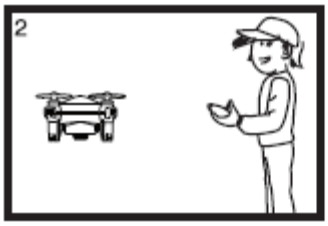
2. Attention

RC range – approx 20 meters. Please note: flying your aircraft out of recommended range may cause crash or loss of the aircraft (it may fly away or fall down). Warning: do not fly in the strong wind, as the aircraft may fly out of RC range (it may fly away or fall down). The time of flight may be affected by the wind and battery voltage rate. If the flight time is between 4–5 minutes. Flashing lights on the aircraft indicate low voltage of the battery, please recharge the battery.

To ensure safe flying, please refer to the manual.



3.Pairing Procedure



1. Place the battery on the flat surface and connect the battery.
2. Turn on the transmitter, then move the throttle stick fully up and fully down. The transmitter will emit beep when the throttle stick is fully up and another beep when the throttle stick is fully down. Pairing is succsessful and CX–OF is ready to fly.

4.Phone App

WARNING	Pair the aircraft with the transmitter and after with the phone' s App.

IOS WIFI Connection Instruction

①Turn the aircraft on and the indicators will begin to flash rapidly.

②Turn on WiFi and connect CX–OF–XXXXXX. When the "√" appears indicating successful connection then exit the setting.

③Open the software CX–OF on your iPhone or iPad, then click the icon to enter the control interface. Click the icon to switch the App interface off/on.

Android WiFi Connection Instruction

①Turn the aircraft on and the indicators will begin to flash rapidly.

②Turn on WiFi and connect CX–OF–XXXXXX When the "√"

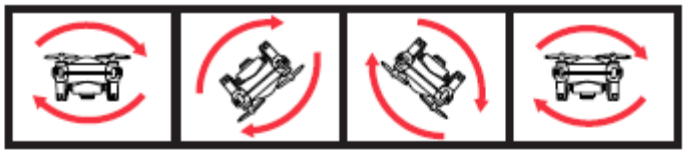
③Open the software CX–OF on your phone, then click the icon to enter the control interface. Click the icon to switch the APP interface off/on.

5.Transmitter

Speed modes/optical flow sensor off/on setting

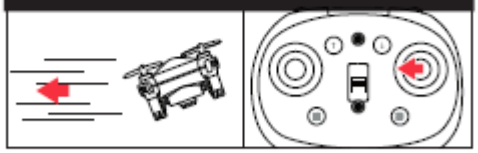
Beginners Mode	Beginners mode is set by a default. One beep indicates the beginners mode.	
Intermediate Mode	Press the speed mode key and the transmitter will beep twice indicating intermediate mode.	
Advanced Mode	Press the key again and the transmitter will beep 3 times indicating advanced mode.	
Optical Flow Sensor Off/On Mode	Long press on the key will cause the optical flow sensor to be deactivated. In this mode, the aircraft will fly in height hold mode and the aircraft' s speed will automatically switch to the intermediate mode.	

Flips & Rolls



Press and hold 3D button until the transmitter will start emiting beeps indicating the flip/roll mode is entered;use the directional stick to perform rolls and flips by moving it fast to the direction in which flip/roll is wanted.

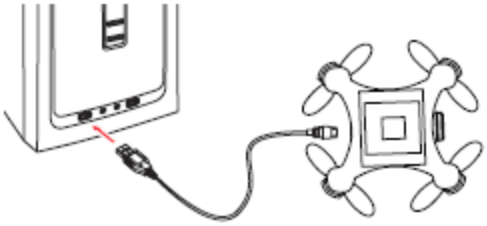
Operations			
Ascend		When the throttle stick is pushed up, the blades will spin faster causing the aircraft to ascend.	
Descend		When the throttle stick is pushed down, the blades will spin slower causing the aircraft to descend.	
Left rotation		When the throttle stick is moved left, the aircraft will rotate to the left.	
Right rotation		When the throttle stick is moved right, the aircraft will rotate to the right.	
Forward		When the directional stick is moved up, the aircraft will fly forward.	
Backward		When the directional stick is moved down, the aircraft will fly backward.	

Turn left	Turn right
	

6.Charging Batteries

Connect the charging cable to the aircraft, and then plug the USB side to the computer or any other USB charger. While charging the USB indicator will be ON. The USB indicator is OFF when fully charged. The USB charging cable can be connected to Apple chargers and other smart phone chargers. It also can be charged using portable batteries and car phone chargers. Only standard +5+0.5V USB chargers are supported.

1.Charging CX-OF



Notice: ensure the charging cable is connected as shown on the picture above.

2.Charging the transmitter

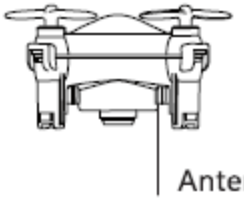
When charging, the transmitter' s red indicator light will be on.
Unplug the charger when the light is off.
Turn the transmitter off and after connect to the charging cable.

7.Gyroscope Calibration

If your aircraft begins to be unstable during flight or drifts quickly to one direction, please calibrate the accelerometer (left handed throttle mode).
(1)The aircraft should be placed on flat level surface.
(2)Turn on aircraft/transmitter and pair them. Push the throttle and directional sticks to the lowest right corner. The indicating lights on the aircraft will flash for 1-2 seconds, release the sticks. Wait untill the aircraft's lights stop flashing indicating successful calibration.

The aircraft should be placed on flat level surface.

In order to strengthen the quality of the WiFi FPV signal, please place the aircraft's antenna vertically.



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

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.

For plane:
This equipment complies with FCC radiation exposure limits set forth for an uncontrolled environment. This equipment should be installed and operated with minimum distance 20cm between the radiator and your body. This transmitter must not be co-located or operating in conjunction with any other antenna or transmitter.

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.