

Open-Style Smart Cat Litter Box User Manual

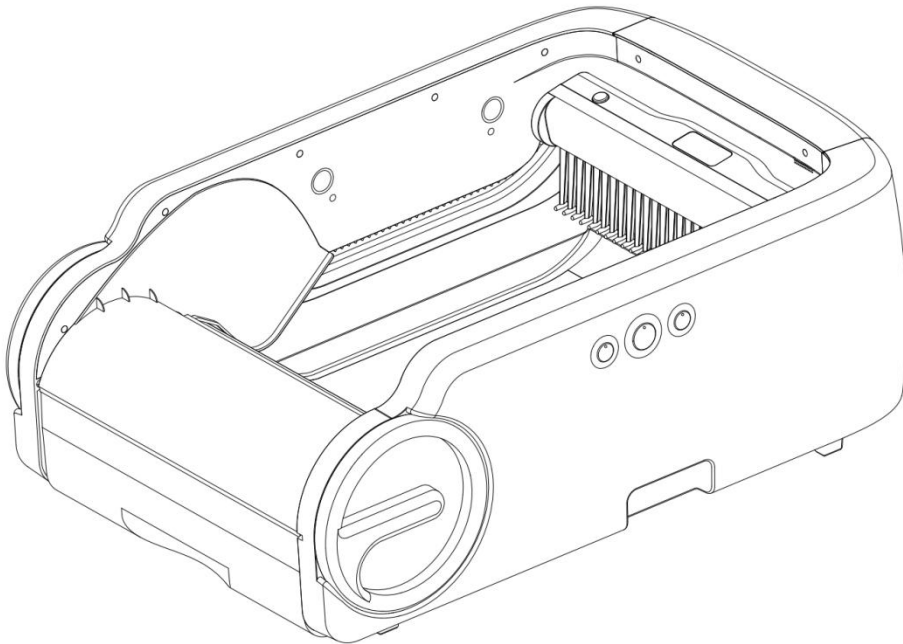


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I. First-Time Use Instructions

1.1 Unboxing and Preparation:

Open the bottom of the packaging box, straighten the product, then lift the outer box vertically upward. Remove the protective foam padding and plastic cover.

1.2 Product Placement:

After removing the litter box, place it on a flat and level surface. Ensure that all four bottom legs are in full contact with the flat surface.

II. Important: Do not place any objects taller than 30 cm within 5 cm of the product's right side. Doing so may press against the side buttons and interfere with the device's normal functions.

1.3 Packing list :

Main unit *1; Power adapter *1; Drawstring trash bags *1 roll; Cleaning brush *1; User Manual *1.

Note:

1.3.1 This product uses 57×32 cm drawstring trash bags. You may purchase them from our store or use equivalent or larger-sized bags from local supermarkets.

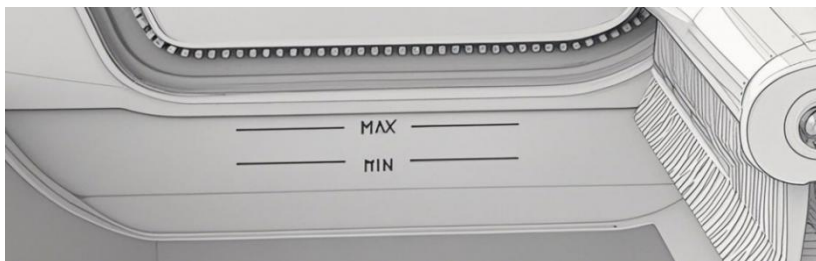
1.3.2 The waste compartment includes a drawstring locking clip. Pulling the string allows the bag to self-seal (note: this feature only works with compatible drawstring bags). You may also manually open the waste drawer to check and dispose of waste.

1.4 Adding Cat Litter

1.4.1 Do NOT power on the device before installing the bottom litter tray. 

1.4.2 Fill cat litter according to the "MAX" and "MIN" lines marked inside the unit.

Do not exceed the MAX line or go below the MIN line. Otherwise, the machine may not function properly.



1.5 Suitable Litter Types

Only use high-quality, clumping, granule-type cat litter.

Recommended types: cassava, bentonite, natural mineral-based litter.

Do not use strip-shaped or pellet-shaped litter, as they may form large clumps and cause litter waste.

1.6 Other Important Notes

1.6.1 If your kitten is shorter than 170 mm or weighs less than 1 kg, please switch the device to manual cleaning mode via the Tuya App. After your cat finishes using the box, you can press the button to start cleaning manually. Also, enable the Child Lock feature in the app to prevent accidental button presses by the kitten.

1.6.2 The motor may start automatically without warning during use. Keep hands, clothing, and children away from the device.

Read the user manual thoroughly before operation.

Keep the product out of reach of infants or individuals with cognitive impairments during storage.

II. Connecting the App

2.1 Downloading the App

Search for "Tuya Smart" in your app store or scan the QR code to download and install the application.



2.2 Using the App

2.2.1 Button Functions

There are three physical buttons on the device:

1. Network Configuration Button
2. One-Touch Cleaning Button
3. Power On/Off Button



2.2.2 Connection Setup Steps

Enable Bluetooth and Location Services on your phone to ensure fast and successful pairing.

Long-press the Network Configuration button for 3 seconds.

(This step is required the first time the device is powered on.)

The indicator light will turn blue, indicating the device has entered pairing mode.

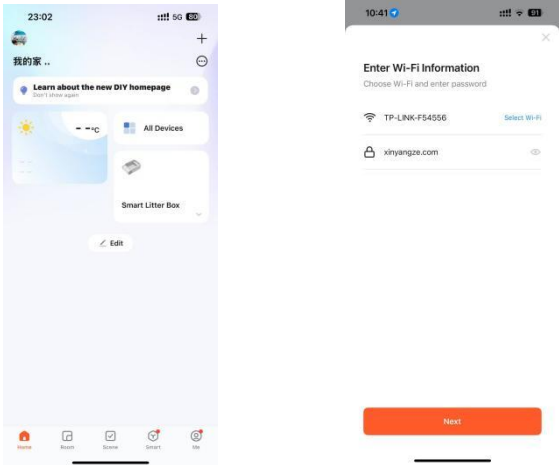
Open the Tuya Smart App. The device will be automatically detected or can be scanned manually.

Tap the “+” icon in the top right corner of the app, then tap “Add Device.”

Once the app detects the device, follow the on-screen instructions.

Enter your 2.4GHz Wi-Fi password to continue.

Please note: **Most routers offer dual-band Wi-Fi (2.4G and 5G)**, but this product only supports 2.4G.

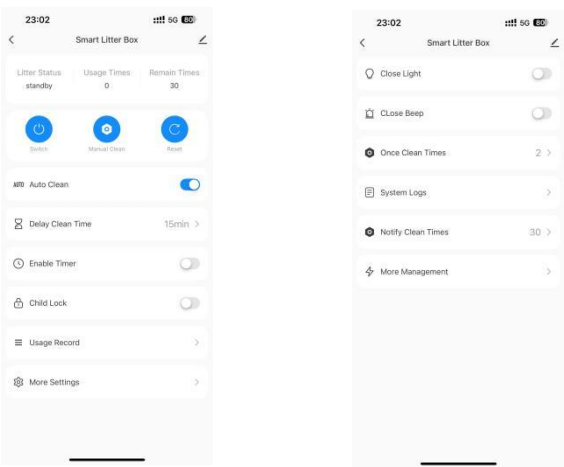


2.2.6 Successful Connection

When the connection is successful:

The Network Configuration button light will turn solid green.

You can now control all functions of the device through the app.



2.3 Troubleshooting Connection Failures

If you're having trouble connecting the device, check the following:

Wi-Fi Compatibility:

Ensure your network supports the 2.4GHz band. This device does not support 5GHz Wi-Fi.

Phone Settings:

Make sure Wi-Fi, Bluetooth, and Location Services are all enabled on your smartphone.

Device Mode:

Confirm the device has entered pairing mode and that the Wi-Fi indicator is flashing.

Internet Connection:

Check whether other devices in your home can access the internet to rule out network outages.

Wi-Fi Password:

Ensure the password entered in the app is correct.

Signal Strength:

If the Wi-Fi signal is weak, try moving the device closer to the router.

Router Limitations:

If your router is connected to too many devices or has a limit on the number of connections, it may cause IP address conflicts.

III. Button Indicators

3.1 Power Button

	Power on	Solid Green	Long press for 3 seconds. A long beep will sound, and the device will power on.
	Power off	Solid Red	Long press for 3 seconds. A long beep will sound, and the device will power off.

3.2 One-Touch Cleaning / Leveling Button

	Standby	Off	-
	Running	Solid Green	Device is actively cleaning.
	Paused	Solid Red	Cleaning process is paused.
	Jammed	Flashing Red	Device is blocked or jammed.

Button Actions:

Start Cleaning:

When in standby mode, long press for 2 seconds. The indicator turns green and a beep sounds. The

cleaning cycle begins.

Pause Cleaning:

During cleaning, short press the button or block the sensor to pause. The red light turns on.

Sensor Blocked >5s:

If the infrared sensor is blocked for more than 5 seconds, the system waits for the preset delay time before automatically resuming. During this waiting period, the green light flashes.

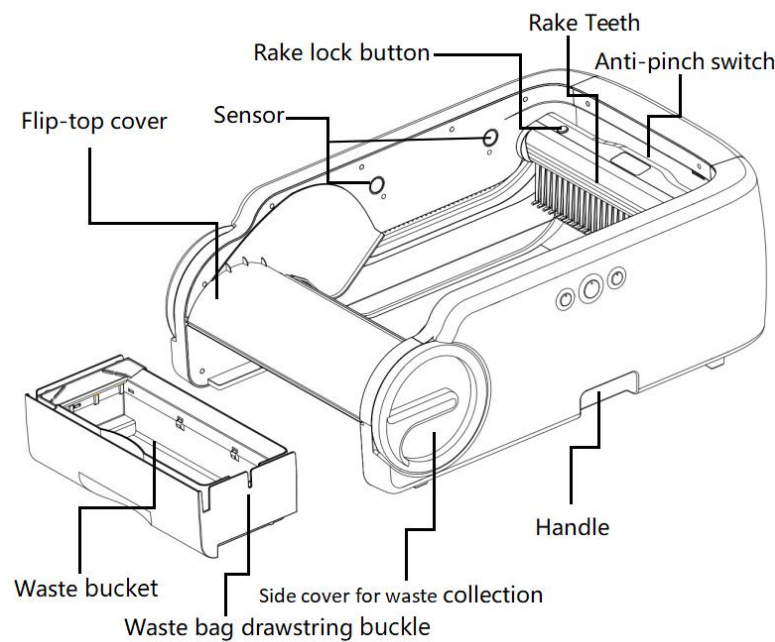
Resume Cleaning:

While paused, short press the cleaning button again. The device resumes cleaning and the green light remains solid.

3.3 Network Configuration Button

	Not Paired	Flashing Red
	Pairing Mode	Solid Blue
	Connecting to Wi-Fi	Flashing Green
	Successfully Connected	Solid Green

III. Product Components



Collection bucket

The interior of the feces collection bin adopts a soft corner edge design. This makes it convenient to put on a drawstring garbage bag. Then, through a one-click extraction operation, the bag opening can be quickly tightened, enabling the rapid collection of garbage

V. Operation of Sand Disc Disassembling and Cleaning

5.1. Before dismantling the sand disc, please power off the machine at first. There is a drawer handle at the tail of the machine. Pull it outwards, and then lift the tail of the machine upwards (try to lift it as high as possible). The sand disc will fall downwards. Take out the sand disc along with this motion.

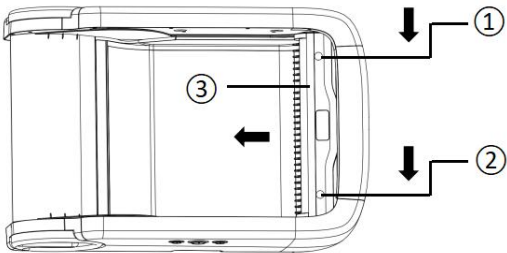
5.2. After the cleaning is completed, assemble the sand disc back into the machine. If it has not been installed properly, do not power on and turn on the machine.

5.3 Removing the Rake Teeth

Press and hold rake lock button ①, while gently pulling the rake (③) outward until it loosens.

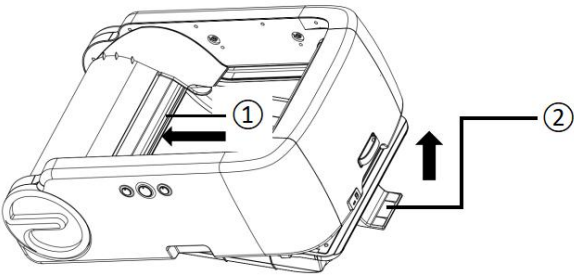
Repeat the process by pressing rake lock button ② to completely remove the rake.

To reinstall, align the rake with the original slot and push it inward until it clicks into place.



5.4 5.4 Installing the Litter Tray

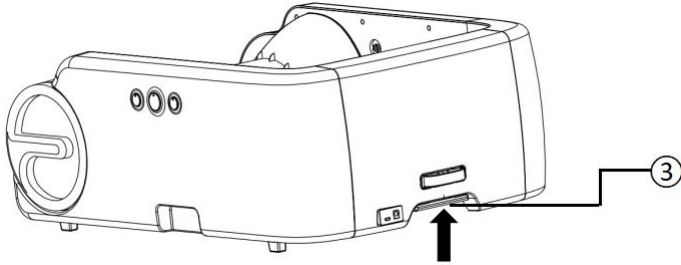
Gently lift the rear of the litter box, insert the tray into the slot as shown in Figure ①. Then lift the tray upward as shown in Figure ② until you hear a "click", indicating that the tray has locked into place.



5.5 Tray Installation Checkpoint

Ensure the tray handle is tightly fitted, as shown in Figure ③. This confirms that the tray is securely installed and will not fall off.

⚠ Important Warning: Do not operate the device if the litter tray is not properly installed. Doing so may damage the equipment.

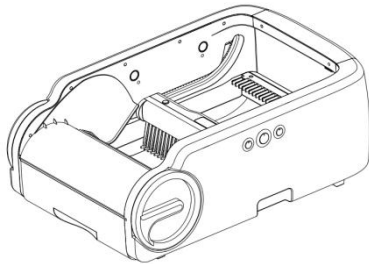


5.6 Reinstalling the Rake Teeth

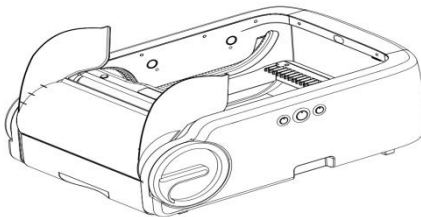
Align the rake (as mentioned in 5.2③) with the designated slot and push firmly inward until you hear a click. At this point, the rake lock buttons (5.2①②) should fully pop out to indicate secure installation.

Basic Operating Principle

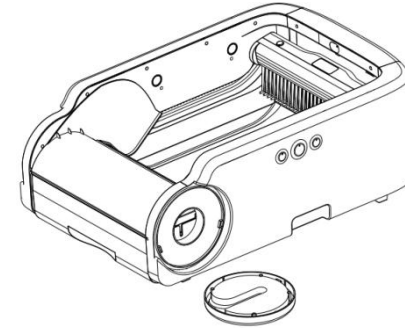
A. After the cat enters the litter box, the system will detect it and start the cleaning process manually or as scheduled in the App.



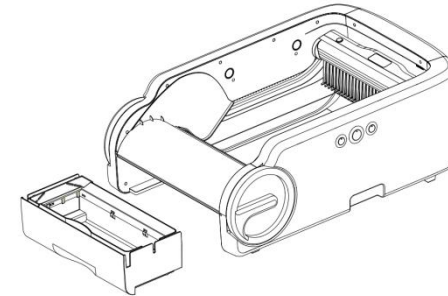
B. The device pushes clumped waste into the waste compartment, then returns to the starting position, completing one cleaning cycle.



C. To dispose of waste, open the blue round side cover, pull the drawstring to seal the garbage bag.



D. Pull the front drawer handle to remove the waste compartment. When full, simply clean and replace the bag.



VI. Daily Operation Overview

6.1 Forward Cleaning Operation

6.1.1 When the cleaning cycle starts, the motor runs forward. Two pairs of infrared sensors are located on both sides of the device. If either sensor is blocked, the motor will pause immediately.

6.1.2 After the obstruction is cleared, the device will resume operation after 30 seconds. The cleaning indicator will stay solid green.

6.1.3 If another obstruction occurs within those 30 seconds, the device will wait for the new obstruction to clear and then wait another 30 seconds before resuming.

If the sensor is continuously blocked for more than 5 seconds, the device will pause and enter a delay mode. During this delay, the cleaning light flashes green.

6.1.4 If clumped litter is too sticky or heavy, exceeding the motor's torque limit, the rake will stop, the cleaning cycle will pause, and the cleaning light will flash red.

The app will show an alert message. Manual removal of the obstruction is required. Press the reset button (or use the secret reset code) to return to default position.

6.2 Reverse Operation

6.2.1 When the rake reaches the waste compartment's limit position, the front Hall sensor is triggered and the cleaning light turns blue.

6.2.2 The device then runs in reverse. If either pair of infrared sensors detects an obstruction, the motor pauses, and the cleaning light turns red. It will resume 30 seconds after the obstruction is cleared.

6.2.3 If the obstruction lasts more than 5 seconds, the device enters delay mode and waits before resuming.

6.3 Completion

When the motor returns to its original starting position, the rear Hall sensor is triggered, the motor stops, and the cleaning process is complete.

The cleaning light turns off.

6.4 Automatic Cleaning

The device is set to auto-clean by default. To disable or change cleaning timing, go to the App and adjust the settings.

6.5 Cleaning Countdown Trigger

While the device is in standby, if any infrared beam is continuously blocked for over 5 seconds, the cleaning light flashes yellow.

After the obstruction is removed, the device will begin a countdown based on preset delay time before auto-cleaning.

If another obstruction occurs during the countdown, the timer resets.

6.6 Cleaning Execution: When the countdown finishes, the device will immediately start the cleaning process.

6.7 Interruptions & Resuming

6.7.1 If an obstruction occurs during countdown, the timer resets.

6.7.2 If you manually trigger cleaning during countdown, the auto-cleaning process is canceled.

6.8 Resetting the Device

6.8.1 In standby mode, press the reset button in the app or use the manual reset code (press and hold the Power + Clean buttons for 3 seconds).

The rake will move backward to its default position, then the motor will stop, and the reset process is complete.

6.8.2 If the device is working, you must first press the Clean button (via app or manually) to stop operation. Then proceed with reset via app or manual reset code as above.

6.8.3 If the infrared sensor is triggered during reset, the process will pause.

To resume, either press the reset button again or wait 30 seconds.

6.9 Factory Reset

While the device is powered on, press the "Factory Reset" button in the App.

All settings will be restored to default, and the rake will begin its return-to-start (reset) motion automatically.

6.10 Anti-pinch switch

During the backward movement of the rake, if it encounters an object blocking it and triggers the anti pinch switch, the rake will stop running and immediately move in the opposite direction.

VII. Additional Settings

7.1 Turn Off Button Lighting

Disable the indicator lights on the control panel.

7.2 Turn Off Buzzer

Mute operational sound prompts such as beeps.

7.3 Cleaning Cycle Count

Set the number of cleaning cycles per use.

This can be adjusted based on the type of litter and your pet' s habits.

Default: 2 cycles

Maximum: 5 cycles

7.4 Waste Bin Usage Counter

Track how many times the waste bin has been used.

Each time the device cleans, the counter decreases by one.

When it reaches zero, the app will send a reminder to empty the bin.

This counter must be reset manually after replacing the garbage bag.

Default: 30 uses

7.5 Child Lock

When enabled, all physical buttons will be disabled to prevent accidental touches.

App control remains functional.

7.6 Usage Count Since Last Power-On

This resets to zero each time the power is disconnected.

It helps users monitor when to perform routine maintenance.

7.7 Usage Record

Logs your pet’s daily litter box habits.

Note: This feature does not support identifying individual pets in multi-cat households.

VIII. Device Cleaning

8.1 Cleaning the Litter Tray & Replacing Litter

Refer to Section IV for detailed instructions. Always follow the specified steps.

8.2 Cleaning Sensors

Wipe the sensor areas regularly to prevent dust or dirt from blocking the signal.

Use the included cleaning brush to keep the rake track and grooves clear.

8.3 Cleaning the Exterior

Unplug the device before cleaning. Use a soft, clean, slightly damp cloth with a mild detergent to wipe the surface.

Avoid allowing liquid to enter the unit.

8.4 Internal Circuit Protection

The product contains circuit boards. Liquid intrusion is strictly prohibited.

8.5 Regular Disassembly and Cleaning

Regularly disassemble and clean the waste bin, litter tray, and rake.

Ensure all parts are dry before reinstalling.

8.6 Rake Removal

Use both hands to press the lock buttons and remove the front rake. See Section V for full instructions.

8.7 Anti-Stick Sticker

The anti-stick sticker at the bottom of the litter box is replaceable.

8.8 Waste Bag Replacement

To ensure a clean environment and pet health, replace garbage bags promptly based on the number of cats and surrounding temperature.

IV. Disclaimer & Safety Notices

* Failure to follow the guidelines below may result in malfunction or potential hazards.

9.1 Install and use the product strictly according to the instructions.

9.2 Indoor use only. Avoid direct sunlight and heat sources.

9.3 Do not drag or drop the device while moving it to prevent damage.

9.4 Do not immerse the main unit in water.

9.5 Unplug the power adapter when cleaning, moving, or storing the unit.

9.6 Always use the original power adapter to avoid damage or safety risks.

9.7 Do not disassemble the device. Repairs should only be done under professional guidance.

If you encounter problems, please contact customer service.

X. Main Specification Parameters

Item	Specification
Product Name	Open-Style Smart Cat Litter Box
Cleaning Time Settings	1–120 minutes
Operating Noise	< 45 dB
Power Adapter	Input: AC100–240V
Rated Power	6W
Standby Power	≤ 0.5W
Product Dimensions	724 × 466 × 257 mm
Net Weight	7.4 kg
Litter Capacity	5.8 L
Waste Bin Capacity	6.5 L
Wi-Fi Band	2.4 GHz only (5G not supported)
Operating Environment	Temperature: 5–40°C, Humidity < 93% (non-condensing)
Storage & Transportation Env.	Temperature: -20–60°C, Humidity < 93% (non-condensing)
Rated Voltage	DC12V / TYPE-C 5V
Compliance Standard	GB4706.1-2005

XI. Troubleshooting Guide

11.1 After powering on, test each button to confirm they function properly. If responsive, the PCB hardware is working correctly.

- 11.2 If the Wi-Fi indicator stays solid, the Wi-Fi module is functioning normally.
- 11.3 During operation, block the front of the infrared sensor. If the machine stops, the sensor is working properly.
- 11.4 If the litter box no longer auto-cleans, check whether the App has been switched to manual cleaning mode by mistake.

XII. FAQ – Frequently Asked Questions

- Q: Why doesn't my litter box filter clean litter properly?
- A: Refer to section 1.5. Please check whether the type of litter is compatible. Long pellet-style litter is not suitable.
- Q: Why does the unit auto-clean right after I plug it in, even though I didn't press anything?
- A: Each time the power is reconnected, the device performs a self-check and returns to its default position. This takes about 1 minute. You can change modes after the self-check completes.
- Q: Why does cleaning take so long?
- A: The device uses a low-speed motor design to reduce noise and save litter. A standard cleaning cycle takes about 2 minutes. If your cat is overly curious and interrupts the device mid-cycle, it may prolong the cleaning. The slow movement also helps reduce fear in timid cats.
- Q: Why doesn't the waste go into the waste bin during cleaning?
- A: The waste bin door might be blocked by litter or bag folds, or the waste may be too large. Please ensure the door opens and closes smoothly. It's a good idea to check the bin every time you install a new trash bag.
- Q: Why does clean litter get dumped into the waste bin?
- A: Follow the litter level markers inside the machine. Do not exceed the "MAX" line or go below the "MIN" line. Too much litter causes waste; too little may cause sticky residue that's hard to clean.
- Q: Why is there no response when I operate the machine via the app?
- A: There is usually a 1–2 second delay between app command and device response. Please wait a moment and avoid sending multiple commands at once.

- Q: How often should I empty or replace the waste bag?
- A: Normally every 7–10 days. For multi-cat households, replace the bag more frequently based on usage and ambient temperature.

XIII. Warranty Card

Product Name		Order No.	
Date of Purchase		Email	
Customer Name		Phone Number	
Customer Address			
Reason for Return/Exchange or Fault Description:			
Maintenance Records			

FCC Statement

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.

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.

Note: The Grantee is not responsible for any changes or modifications not expressly approved by the party responsible for compliance. such modifications could void the user's authority to operate the equipment.

The device has been evaluated to meet general RF exposure requirement.

To maintain compliance with FCC's RF exposure guidelines, the distance must be at least 20 cm between the radiator and your body, and fully supported by the operating and installation configurations of the transmitter and its antenna(s).