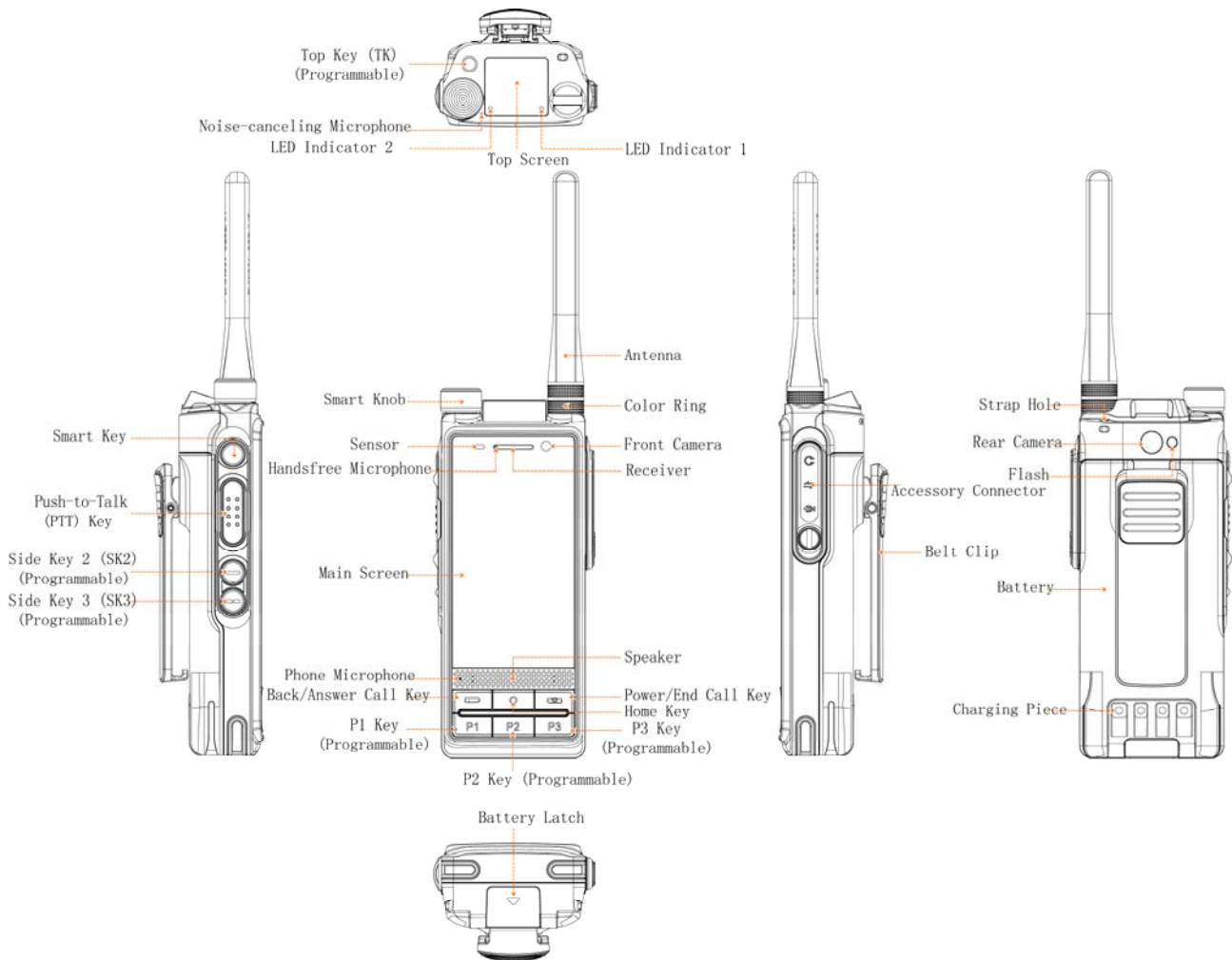



1. Product Overview

1.1 Product Layout



1.2 Programmable Keys

For enhanced convenience, the product provides the programmable keys including **SK2**, **SK3**, **TK**, **P1**, **P2**, and **P3**. The **TK** is programmed with Emergency feature by default (short press: Emergency On; long press: Emergency Off).

To set up other shortcuts, click , and then go to **Settings > Programmable keys**.

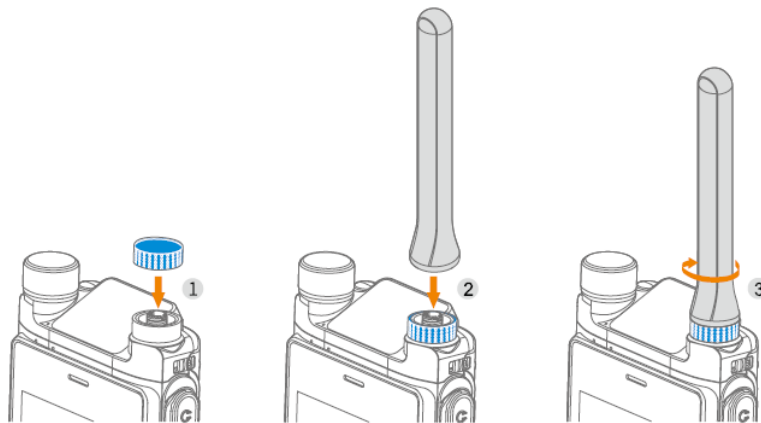
2. Before Use

2.1 Attaching the Antenna

CAUTION

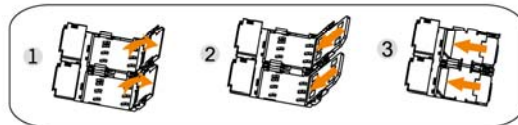
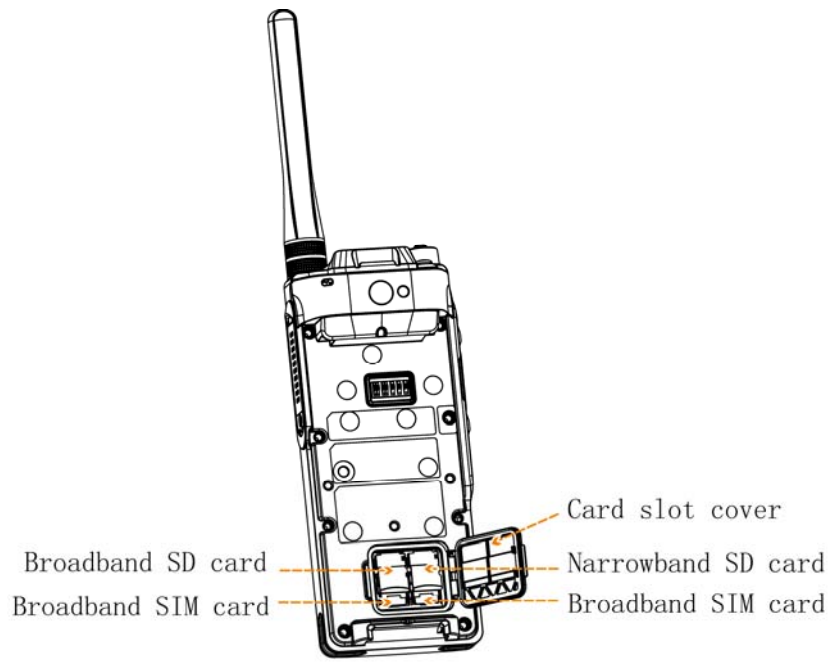
Do not hold the radio by the antenna and swing it. This may affect the antenna performance and shorten the life span of the antenna.

1. (Optional) Place the color ring (for identification purpose) on the antenna connector.
2. Put the antenna on the antenna connector.
3. Rotate the antenna clockwise till hand tight.



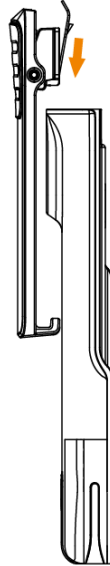
2.2 Installing the Cards

1. Open the card slot cover on the top of the battery compartment.
2. Insert the micro-SD cards and nano-SIM cards into the corresponding slots.
3. Put the card slot cover back in place.



2.3 Attaching the Belt Clip

1. Align the rails on the belt clip with the grooves on the battery.
2. Press the belt clip downwards into place.

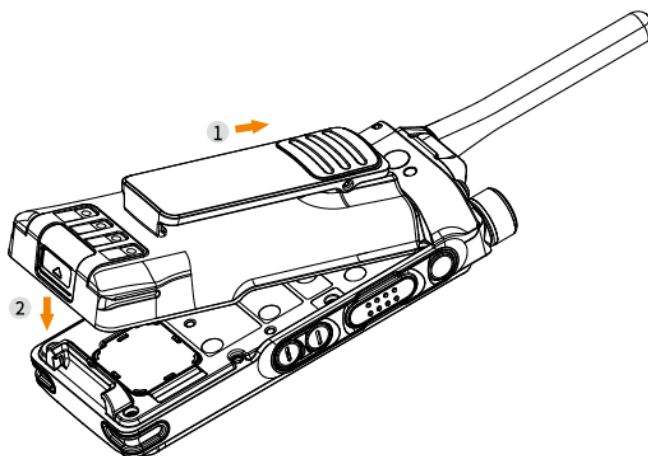


NOTE

To remove the belt clip, press and hold the spring when sliding the belt clip out of the grooves on the battery.

2.4 Attaching the Battery

1. Slide the battery into the slot.
2. Press the battery latch until it is fully fitted into the radio.

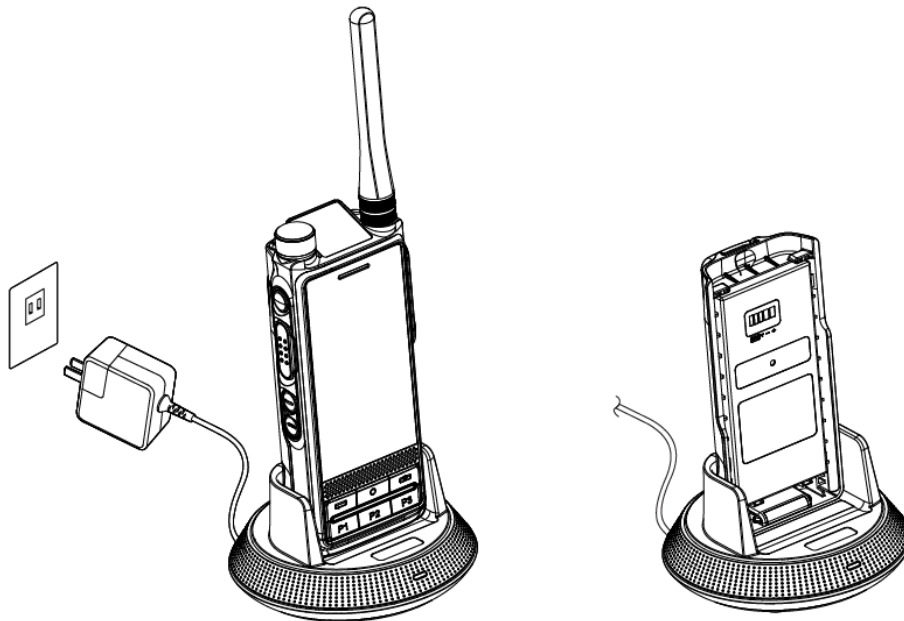


2.5 Charging the Battery

CAUTION

- Use the approved charger to charge the battery.
- Read the *Safety Information Booklet* before charging.
- The remaining lithium-ion battery power is limited to 30% pursuant to the new lithium battery shipment regulation approved by International Air Transport Association (IATA).

Before initial use, fully charge the battery to ensure optimum performance. You can charge the radio with battery attached or charge the battery alone.



To determine the charging status, check the LED indicator on the charger according to the following table:

LED Indicator	Charging Status
Flashes red slowly	No battery inserted.
Flashes orange slowly	Waiting to charge.
Glow red	Charging.
Glow green	<ul style="list-style-type: none">● $\geq 90\%$ (radio with battery).● $\geq 95\%$ (standalone battery).
Flashes red rapidly	Battery fault.

3. Basic Operations

3.1 Turning the Radio On or Off

To turn the radio on, press and hold the **Power/End Call** key until the splash screen appears.

To turn the radio off, do as follows:

1. Press and hold the **Power/End Call** key until the power-off selection screen appears.
2. Tap **Power Off**, and then tap **OK**.


3.2 Adjusting the Volume

To adjust the volume, directly rotate the **Smart Knob**.

When in a call or enabling an alarm, you can rotate the **Smart Knob** to adjust the call volume or alarm volume.

When playing music, video or recorded files, you can rotate the **Smart Knob** to adjust the media volume.

3.3 Selecting Channels or Contacts

1. Press the **Smart Knob**. Then the radio prompts  on the display.
2. Rotate the knob to select the required channel or contact.

NOTE

If you do not operate the **Smart Knob** within 5s or if you press it again within 5s, the radio returns to the volume control state automatically.

3.4 Understanding the Screens

3.4.1 Main Screen and Top Screen

CAUTION



The screens may be damaged or broken if they are hit or scraped by sharp or hard objects.















All care must be taken to protect the screens.



3.4.2 Status Indications

3.4.2.1 LCD Icons

Type	Top Screen	Main Screen	Radio Status
Network and signal	/	3G/4G	3G/4G cellular network is available.
			The radio is connected to the WLAN network.
			The number of bars indicates the signal strength of the

Type	Top Screen	Main Screen	Radio Status
			BB network.
			The NB network is turned off.
			<ul style="list-style-type: none"> Conventional mode: The radio is in standby state. Trunking mode: The radio detects no signal.
			The number of bars indicates the signal strength of the NB network.
Call and data services		/	The digit indicates the number of missed calls.
			The digit indicates the number of unread messages.
			A private/group call is in progress over the NB network.
			A duplex call is in progress.
			A phone call is in progress over the BB network.
Others			The radio is set at low/high power.
			The radio is scanning.
			The End-to-End Encryption (E2EE) feature is enabled.
			The radio operates in silent mode.
	/		
			An error occurs to the micro-SD card.

For details on other LCD icons, refer to the *User Manual*.

3.4.2.2 LED Indications

LED Indicator 1

LED Indicator	Radio Status
Flashes green rapidly	The radio is being turned on.

Flashes green slowly	The radio is standby in trunking mode.
Glow green	The radio is receiving.
Glow red	The radio is transmitting.
Flashes red rapidly	<ul style="list-style-type: none"> ● The calling radio is establishing a call in trunking mode. ● The radio is under the low battery threshold. Recharge or replace the battery in time.
Flashes orange slowly	The radio is scanning, hunting, or roaming.
Flashes orange rapidly	<ul style="list-style-type: none"> ● Conventional mode: The radio is operating in emergency mode. ● Trunking mode: The called radio is establishing a Full Off Air Call Set-up (FOACSU) call.
Glow orange	Call hang time: No voice is being transmitted or received during a call. Within such a period, you can press and hold the PTT key and speak.

LED Indicator 2

LED Indicator	Radio Status
Flashes blue	A BT device is connected.
Flashes red	There is/are unread message(s) or missed call(s).

3.4.3 Widget

The widget shows important information in words and pictures on the main screen. Widget includes NB widget and BB widget. NB widget displays the NB services and is not editable. BB widget displays the shortcut apps, favorite contacts, calendar, and agenda, and allows you to quick access these applications.

To scroll the wedge page, press a widget and swipe upward, or short press the **Smart Key**.

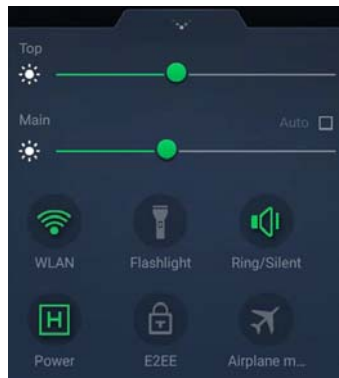
To add or delete a widget, swipe to the bottom of the widget, press "Edit", and then select "Exit" after finishing editing.

3.4.4 Control Center

The control center allows you to adjust the brightness, and turn on or off the handy features.

To access the control center, swipe up from the bottom edge of any screen.

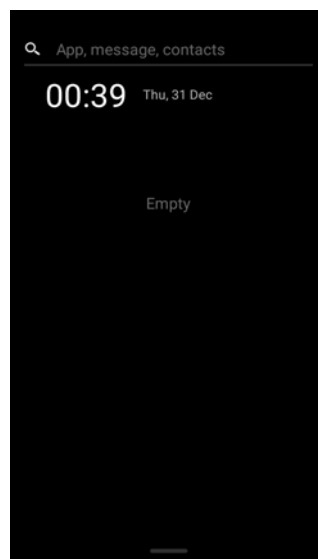
To edit the switches of features displayed on the control center, press .



3.4.5 Notification Center

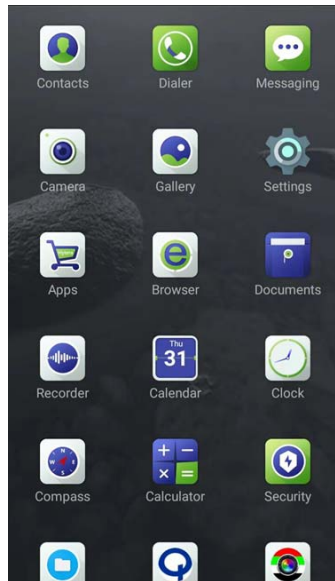
The notification center allows you to view notifications and search for apps, contacts or messages.

To view notifications, swipe down from the top edge of screen, and then tap a notification to view details.



3.4.6 APP Center

To access apps, swipe right from the left edge of the home screen, and then swipe up or down to view all apps.



3.4.7 Locking or Unlocking the Screen


When the screen is not in use, you can lock it to avoid unintended operations and increase battery life. When the screen is locked, you can still initiate emergency calls, answer calls, and receive messages and notifications.

To lock or unlock the screen for initial use, do as follows:

- To lock the screen, long press the **Smart Key** to put the screen to sleep.
- To unlock the screen, short press the **Smart Key** or **Home** key to wake up the screen, and then swipe upward, enter the right password or draw the right unlock pattern.

To set the lockable keys and lock patterns, tap , and then go to **General > Lock screen**.

3.5 Switching Apps

When multiple apps are running on the radio, press twice the **Home** key, and then select the app you want to switch. Tap , and then you can end all the running apps and release the storage space.

3.6 Switching the Operation Mode


The radio can operate in NB & BB mode or NB mode. Upon power-on, the radio operates in NB & BB mode by default.

In NB&BB mode, both the top screen and main screen are on. The radio can access both private and public network services.

In NB mode, only the top screen is on. The radio accesses only private network services. The NB mode

includes the following two types:

- Conventional mode: The radio communicates with one or more other radios directly on the fixed channel frequency or through repeaters.
- Trunking mode: The radio communicates with one or more other radios on the channel frequency allocated by the trunking system.

To switch the specific NB mode, tap , go to **PMR > Work Mode**, and then tap **Conventional** or **Trunking**.

To switch to NB mode, long press the **Power/End call** key, and then tap **Broadband Off**.

To switch to NB & BB mode, long press the **Power/End Call** key, and then tap **Broadband On**.


4. Call Services

4.1 Private Network Call

4.1.1 Group call

Initiating a Group Call


You can make a group call through one of the following ways:

- Preset Contact
 1. Press the **Smart Knob**.
 2. Rotate the knob to select the required channel or group contact.
 3. Press and hold the **PTT** key.
- Manual Dialing
 1. Tap .
 2. Enter the required group number.
 3. Select "Group".
 4. Press and hold the **PTT** key in conventional mode. (In trunking mode, omit this step.)

In the dialing interface, you can also enter the required group number, and then press and hold the **PTT** key.

NOTE


To enter a number complying with the dialing rules, consult your dealer for more details.

- Contact List
 1. Tap  > **Group**.
 2. Tap the required group contact.
 3. Press and hold the **PTT** key.

Receiving a Group Call

When a group call is incoming, it will be established automatically, and you can listen to it without any operation.


Ending a Group Call

- Conventional Mode: A group call ends automatically when the call hang time expires.
- Trunking mode: A group call ends when the calling party taps  or presses the **Power/End Call** key.


4.1.2 Private Call

Initiating a Private Call

You can make a private call through one of the following ways:

- Preset Contact
 1. Press the **Smart Knob**.
 2. Rotate the knob to select the required channel or private contact.
 3. Press and hold the **PTT** key.
- Manual Dialing
 1. Tap .
 2. Enter the required group number.
 3. Select "Private".
 4. Press and hold the **PTT** key in conventional mode. (In trunking mode, omit this step.)

In the dialing interface, you can also enter the required private number, and then press and hold the **PTT** key.

- Contact List
 1. Tap  > **Private**.
 2. Tap the required private contact.
 3. Press and hold the **PTT** key.

Receiving a Private Call

In conventional mode, you can answer an incoming private call without any operation.

In trunking mode, the operation varies with the setup mode of the incoming private call:

- Full Off Air Call Set-Up (FOACSU)


The radio rings and vibrates to indicate the incoming call. You can press the **PTT** key or the **Back/Answer Call** key to answer the call.

- Off Air Call Set-Up (OACSU)

The call is established automatically. You can listen to it without any operation.

To respond to the call, press and hold the **PTT** key, and then speak into the microphone.

Ending a Private Call

- Conventional mode: A private call ends automatically when the call hang time expires.
- Trunking mode: A private call ends when the calling or called party taps  or presses the **Power/End Call** key.

4.1.3 Emergency Call

In case of an emergency, you can initiate an emergency call to ask for help from other personnel or the control center. An emergency call has the highest priority and can disrupt other calls with lower priority.



If the feature is configured and enabled by your dealer, you can press the preprogrammed **Emergency On** key to initiate an emergency call. The emergency call ends when the calling party presses the preprogrammed **Emergency Off** key.

4.2 Public Network Call (Phone Call)


4.2.1 Initiating a Phone Call


You can make a phone call through one of the following ways:

- Contact List

1. Tap  > **Private**.
2. Tap the required phone contact.
3. Tap .

- Manual Dialing

1. Tap .
2. Enter the required phone number.
3. Tap "Phone".

In the dialing interface, you can also enter the required phone number, and then tap  to make the call.

4.2.2 Receiving a Phone Call

When a phone call comes in, tap  or press the **Back/Answer Call** key.


4.2.3 Ending a Phone Call



In the calling interface, tap  or press the **Power/End Call** key.

4.2.4 Emergency Phone Call


In case of an emergency, you can initiate an emergency phone call within the coverage of the carrier's network without a SIM card.

- When the screen is unlocked, do as follows:

1. Tap .
2. Enter the emergency phone number.
3. Tap "Phone".






- When the screen is locked with password or pattern, do as follows:
 1. Tap  and drag it to the lateral oblique direction.
 2. Tap "Emergency" and enter the emergency phone number.
 3. Tap .

5. Message Services

The Message feature allows you to exchange the text messages, status messages and multimedia messages (MMS) with other radios through .

- Status Message (trunking only): frequently used messages predefined by your dealer and not editable. The radio sends status message over the NB network to a private network number.
- MMS: contains photos, audio, video or other information of multimedia format. The radio sends MMS through the wireless network or BB network to a public network number.

5.1 Sending Messages



1. Tap  and then tap  in the lower right corner.
2. Tap the **To** text box to enter the name or number of the recipient, or tap  to select a recipient from your Contacts.
3. Tap the **Type message** text box to enter the text.
4. (Optional) Tap  on the left to schedule the message to be sent later automatically or add required attachments.
5. Tap  to send the message.

NOTE

For contacts over private network, you can also add contacts, quick reply texts, and status messages (for trunking mode only).

For contacts over public network, you can also add contacts, photos, voices, videos, multimedia message, quick reply text, and emojis.

5.2 Managing Messages

1. Tap  and then tap a message to be managed.
2. Touch and hold the message text.
3. In the editing interface, do one of following:
 - To copy the message, tap **Copy text**.
 - To forward the message, tap **Forward** and enter a new contact number or tap  to select a new contact.
 - To delete the message, tap **Delete**.

- To add the message to the favorite list, tap **More > Favorite**. To view the favorite messages, tap "My favorites".
- To view the message details such as message type and sending time, tap **More > View details**.

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. 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.

This equipment complies with FCC radiation exposure limits set forth for an controlled environment. This equipment should be installed and operated with minimum distance 10mm between the radiator and your body, operated with minimum distance 25mm between the front to face. This transmitter must not be co-located or operating in conjunction with any other antenna or transmitter.

This equipment complies with FCC radiation exposure limits set forth for an controlled environment. This transmitter must not be co-located or operating in conjunction with any other antenna or transmitter.