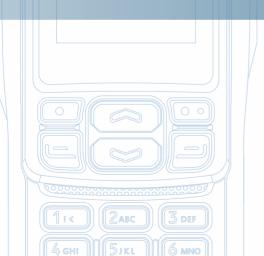


EP8100 U2

Digital Portable Radio
User Manual



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■ Important Information

Before using this product, please read this user manual carefully.

Alert Icon



Caution:

Indicates situations that could cause human injury or damage to your products.



Note:

Indicates tips that can help you make better use of your products.

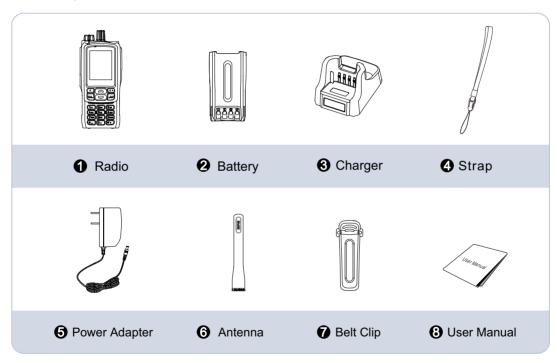


Caution:

This radio is restricted to occupational use only to satisfy FCC RF energy exposure requirements.

■ Checking Items in the Package

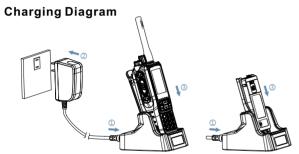
Please unpack carefully and check that all items listed below are received. If any item is missing or damaged, please contact your dealer.



Getting Started

■ Preparing Your Radio for Use Charging the Battery

For best performance, your radio is powered by an Excera manufactured Lithium-Ion (Li-Ion) battery. To avoid damage and comply with warranty terms, charge the battery using the charger contained in the package.



Procedure

- Plug the power adapter into the rear jack of the charger.
 See arrow ①.
- 2. Connect the power adapter to AC socket. See arrow ②.
- 3. Place the radio with the battery attached, or the battery alone, into the charger. See arrow ③.

The charging process begins when the charger LED glows red and is completed when the LED glows green.

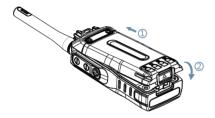
LED Indicator

LED Indicator	Charger Status
LED flashes red slowly.	Standby (no load)
LED glows red.	Charging
LED glows orange.	90% charged
LED glows green.	Fully charged
LED flashes red rapidly.	Failure

■ Getting Started

Attaching the Battery

- 1. Align the battery with the rails on the rear of the radio as shown by arrow ①.
- 2. Slide the battery upward to the top of the rails and snap the latch into place as shown by arrow ②.



To remove the battery, turn off the radio first. Move the battery latch into unlock position and hold, and slide the battery down and off the rails.

Attaching the Antenna

To attach the antenna, set the antenna in its receptacle and turn clockwise.

To remove the antenna, turn the antenna counterclockwise.

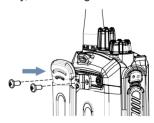




Note: You need to turn off the radio prior to attaching or removing the antenna.

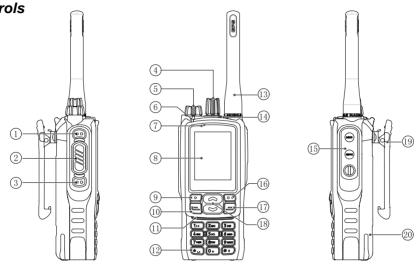
Attaching the Belt Clip

- 1. Remove the screws.
- Align the screw holes on the belt clip with those on the radio's body, and then tighten the screws.



■ Getting Started





No.	Part Name	No.	Part Name	No.	Part Name
1	SK1 (Side Key 1)	8	LCD Display	15	Accessory Jack
2	PTT Key	9	Menu/OK Key	16)	Setting Key
3	SK2 (Side Key 2)	(10)	P1/Answer/Call Key	17)	P2/End/Home Key
4	Channel/Group Call Selector Knob	(1)	Speaker	18	Up/Down Key
(5)	Radio On-Off/Volume Control Knob	12	Numeric Keypad	19	Belt Clip
6	LED Indicator	(13)	Antenna	20	Battery
(7)	Microphone	(14)	TK (Top Kev)		

■ Getting Started **■**

■ LED Indicator

LED Indicator	Radio Status
LED flashes green slowly.	Standby
LED flashes green rapidly.	Upgrading or powering on
LED glows green.	Receiving
LED flashes red slowly.	Low battery
LED flashes red rapidly.	None
LED glows red.	Transmitting
LED flashes orange slowly.	Scanning
LED flashes orange rapidly.	None
LED glows orange.	No voice is being transmitted or received on the traffic channel after a call is established. Within such period, you can hold down the PTT key to talk.

■ LCD Icon

Icon	Icon Name
ath ath ath ath ath	Received Signal Strength Indicator (RSSI)
	New Message Icon/Full Inbox Icon
③	Scan Icon
	High Power Icon
L	Low Power Icon
(m) (m) (m)	Battery Strength Icon
#	Accessory Connected Icon
	Roam Icon
◎ (G	GPS Icon
(!	Missed Call Icon
Вт	Bluetooth Icon
PIT	Wireless PTT Connected Icon
&	Bluetooth Headset Connected Icon
<u>\$</u>	Wireless PTT and Bluetooth Headset Connected Icon

Menu Navigation

■ Mode

Your radio can operate in either of these modes:

Conventional (digital and analog), DMR Trunking, and MPT Trunking.

To access this item, press the **Setting** key in home screen and then select "Function -> Mode".





Note: Select "Conventional" to access digital or analog conventional mode.

■ Device Information

With this option, you can view basic information of your radio, including radio alias, radio ID, serial number, model name, model number, frequency range, firmware version, data version, vocoder version, and last programmed date.

To access this item, press the **Setting** key in the home screen and then select "Device Information".

■ Date and Time

You can set date and time for your radio.

To access this item, press the **Setting** key in the home screen and then select "General Setting -> Date and Time".

■ Tone

This function enables you to set the following tones for your radio: keypad tone, talk permit tone, incoming call tone, function tone, warning tone, low battery tone, emergency alarm tone, and message tone.

To access this item, press the **Setting** key in the home screen and then select "General Setting -> Tone".



Note: If Function Tone is checked, tone indication will be given when you enable or switch some functions (such as toggling power between high and low, and switching zones) by pressing the programmed buttons.

■ LED

This option allows you to decide whether to enable LED indications. You can set the following LEDs for your radio: Tx LED, Rx LED, Scan LED, Low Battery LED, Incoming Call LED, and Call Hold LED.

To access this item, press the **Setting** key in the home screen and then select "General Setting -> LED".

Menu Navigation

Vibration

This option allows you to set whether to enable the vibration feature. When this feature is enabled, vibration indication will be given to an incoming call and a new short message. You can enable or disable this feature via the CPS or the radio menu.

To access this item, press the **Setting** key in the home screen and then select "General Setting -> Vibration".

Display

This option allows you to set display parameters, including Backlight Off Time, Display Off Mode, and Brightness. To access this item, press the **Setting** key in the home screen and then select "General Setting -> Display".

■ Menu Reset

Your radio supports the menu reset feature. If you do not operate the menu for a predefined time period, the radio will automatically return to the home screen.

To access this item, press the **Setting** key in the home screen and then select "General Setting -> Menu Reset".

Keypad Lock

This option allows you to set whether to enable this function. When Never is unchecked, you can use the **Up/Down** key to set the time after which the keypad will be locked.

Press "Menu +" to unlock the keypad.

■ Programmable Buttons

You may set the programmable buttons (SK1, SK2, and TK) as shortcuts to radio functions (such as power level switch, zone switch, squelch off) using the CPS.

Noise Reduction

This option can reduce background noise during communication so as to enhance voice clarity.

You can set this function via the CPS or the radio menu.



Note:

- This feature is off by default. Keep the microphone closer to your mouth with this option enabled because your sound volume will be lower in that condition.
- This feature is applicable to some radios. For details, contact your local dealer.

■ Menu Navigation

■ Transmit Time-Out

The purpose of Transmit Time-Out is to prevent any user from occupying a channel for an extended period. If the preset time expires, the radio will automatically terminate transmission

You may set the time via the CPS.

■ Bluetooth

This feature allows you to use your radio with a Bluetooth -enabled device (such as Bluetooth headset and Wireless PTT) via a Bluetooth connection.



Note: This function is applicable to some radios. For details, contact your local dealer.

To access this item, press the **Setting** key in the home screen and then select "Accessories -> Bluetooth".



When the Bluetooth feature is enabled, the Bluetooth icon

appears on the status bar. You can find a Bluetooth device by using the Search Devices menu and connect it to your radio.

- When your radio is successfully connected to a Bluetooth headset, the Bluetooth headset connected icon appears on the status bar.
- When your radio is successfully connected to a wireless PTT, the wireless PTT connected icon papears on the status har
- When your radio is successfully connected to a Bluetooth headset and a wireless PTT, the Bluetooth headset and wireless PTT connected icon appears on the status bar.



Note:

- If your radio cannot connect to the Bluetooth device, make sure the device is in pairing mode and then try to connect your radio to the Bluetooth device via the radio menu.
- If your radio fails to connect to the Bluetooth device and the device is in pairing mode, disable and then enable the Bluetooth feature via the radio menu, and search a Bluetooth device and connect your radio to this device via the radio menu.

With the Bluetooth Information option, you can view Bluetooth headset connection status, wirless PTT connection status, wirless PTT battery strength, etc.

■ Menu Navigation

■ GPS

With this option, you can allow your radio to receive its GPS information from the GPS chipset and upload the information to the system after receiving GPS upload request.

To enable or disable this feature, press the **Setting** key in the home screen and then select "Accessories -> GPS -> Position On/Off ".



When the GPS feature is enabled, the icon appears on the status bar.

If the accurate position of your radio is fixed, the icon appears on the status bar.

You can check GPS information of your radio by selecting "GPS -> Radio Position".

■ Call

To ensure that your speech is clear, keep the microphone 2.5 to 5 cm from your mouth.

Private Call

A private call is a call from an individual radio to another individual radio.

You can make a private call through any of the following methods.

Making a Call through Contact or Call Log

Procedure:

- 1. Press the Menu key to enter the main menu.
- Go to "Contact -> Private Call Contact", or go to "Call Log" and access the Missed/Incoming/ Outgoing Call list.
- Use the Up/Down key to select a private call contact you want to call.
- 4. Press the PTT key to make the private call.
- Making a Call via Manual Dial

Procedure:

- 1. Press the Menu key to enter the main menu.
- 2. Go to "Contact -> Manual Dial".
- 3. Input a private call number using the keypad.
- 4. Press the PTT key to make the private call.

Late Entry

After a private call is established, it allows other radios to join this private call on this channel.

Late Entry may occur in any of the following situations:

- The radio is powered on.
- The Channel Selector knob is rotated to the channel in operation.
- Your radio is within the communication coverage of this private call on this channel.

Group Call

A group call refers to a call from an individual radio to a group of radios.

You can make a group call through Contact.

Procedure:

- 1. Press the Menu key to enter the main menu.
- 2. Go to "Contact -> Group Call Contact".
- Use the Up/Down key to select a group call contact you want to call.
- 4. Press the PTT key to make the group call.

Late Entry

After a group call is established, it allows other group members to join this call.

Late Entry may occur in any of the following situations:

- The radio is powered on.
- The Channel Selector knob is rotated to the channel in operation.
- The radio exits from another group call.
- The radio is within the communication coverage of this group call.

Rx Group List

With this option, you can receive multiple group calls on a digital channel.

A Rx group list contains a maximum of 64 group calls. You can set up to 32 Rx group lists using the CPS, each of which can be associated with a digita channel.

All Call

An all call is a call from an individual radio to every radio on the channel.



Note: The All Call ID is fixed.

You can make an all call through Contact.

Procedure:

- 1. Press the Menu key to enter the main menu.
- 2. Go to "Contact -> Group Call Contact".
- 3. Use the Up/Down key to select the All Call contact.
- 4. Press the PTT key to make the all call.

■ Scan

Scan Start Condition

You can start scan only when more than one channel contained in the scan list.

Scan List

For the current scan list, you can choose to perform any of these operations using the Scan List menu: Set as Default, Set Priority, Add a Channel, and Delete.

To access this item, press the **Setting** key in the home screen and then select "Scan -> Scan List".

- If a scan list is checked, you can choose to perform any of these operations in the scan list: Add a Channel, Delete, and Set Priority.
- If None is checked, the scan feature is disabled.

Scan Tx Mode

This option allows you to choose a channel on which the radio will transmit if you press the **PTT** key during scanning. If the Talkback option is disabled (unchecked), the radio will also transmit on this channel if you press the **PTT** key during scan stop.



Note: You can set and view this feature via the CPS.

Priority Channel 1

This option allows you to select a channel in the scan list as Priority Channel 1. If only Priority Channel 1 is set, 50% of a radio's scans are on Priority Channel 1 during scanning. If Priority Channel 2 is set as well, scans for Priority Channel 1 and Priority Channel 2 are 25% respectively.



Note: You can set and view this option using the CPS.

Priority Channel 2

This option allows you to select a channel as Priority Channel 2. During scanning, 25% of a radio's scans are on Priority Channel 2 if you have also defined Priority Channel 1. However, if Priority Channel 1 is set to None, scans for Priority Channel 2 will be increased to 50%.



Note: You can set and view this option using the CPS.

Talkback

With this option enabled, your radio will transmit on the current channel if you press the PTT key during scan stop.



Note: You can set and view this feature using the CPS.

Scan Delay

This option enables you to set the time that the radio will resume scanning after the end of a valid channel activity. This prevents the radio from resuming a scan immediately upon the loss of activity.



Note: You can set and view this feature via the CPS.

■ Emergency

Emergency is used to summon help in emergency situations. Your radio supports two types of emergency modes: Emergency Alarm and Emergency Call.

Emergency Call

If the Emergency Call option is selected, your radio only transmits emergency call upon emergency activation. You may follow the procedure below to initiate an emergency call.

Procedure:

- 1. Log in to the CPS.
- Go to "Conventional -> General Setting" and associate Emergency On with a programmable button.
- Go to "Conventional -> Emergency -> Digital Emergency
 -> Selected Digital System" and set Emergency Type to
 Regular and Emergency Mode to Emergency Call.
- Press the programmable button to initiate an emergency call. For example, you can short press the TK on your radio to initiate an emergency call if you have associated TK Short with Emergency On.

Emergency Alarm

If the Emergency Alarm option is selected, your radio only sends emergency alarm requests upon emergency activation. You may follow the procedure below to initiate an emergency alarm.

- 1. Log in to the CPS.
- Go to "Conventional -> General Setting" and associate Emergency On with a programmable button.
- Go to "Conventional -> Emergency -> Digital Emergency
 -> Selected Digital System" and set Emergency Type to
 Regular and Emergency Mode to Emergency Alarm.
- 4. Press the programmable button to initiate an emergency alarm. For example, you can short press the **TK** on your radio to initiate an emergency alarm if you have associated **TK Short** with Emergency On.

Message

To access this item, press the **Menu** key in the home screen and then select "Message".



Inbox

The Inbox can save up to 100 received messages.

The prompt "The Inbox will be full, please delete messages!" appears if a new message is received when 90 messages are available in the Inbox. When the Inbox is full, the oldest message will be overwritten by the latest one automatically.

Outbox

The Outbox can save up to 100 sent messages. The following icons will appear to indicate whether the message is sent successfully.

The message is sent successfully.

• The message is not sent successfully. In this case, you can resend it.

When the Outbox is full, the oldest message will be overwritten by the latest one automatically.

Drafts

The Drafts can save up to 100 draft messages. When the Drafts is full, the oldest message will be overwritten by the latest one automatically.

New Msg

You can create a new text message (179 characters at most) and save it to Drafts, or send it to a private or group call contact.

Preset Msq

Under this option there are some text messages (10 entries at most) preset by your dealer. You can choose to send any entry to a private or group call contact.

Status Msg

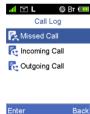
Under this option there are some status messages (95 entries at most) preset by your dealer. Only the status code is displayed and so the content of the message is not able to be viewed during transmission. You can choose to send any entry to a private or group call contact.

Color Code

Color code is used to identify a system. Users who wish to communicate with each other are assigned with the same color code. A radio ignores the channel activity which does not match the preset color code in this field, as it assumes the activity belongs to other systems.

■ Call Log

To access this item, press the **Menu** key in the home screen and then select "Call Log", or press the shortcut key for Call Log directly.



The radio can save up to 200 call entries under this option. When the Call Log is full, the oldest entry will be overwritten by the latest one automatically.

 For each call entry, you can choose to perform any of these operations: Initiate a Call through PTT Press, View, and Delete. To delete all call entries in the Missed/Incoming/Outgoing
 Call list, select "Call Log -> Missed/Incoming/Outgoing
 Call -> Selected Call -> Delete All".

Man Down

Once this feature is activated, if your radio tilts to a specified gradient and is not placed upright within Man Down Delay Time, it will enter the emergency mode.

This feature will be valid if it is checked in the CPS.

■ Zone

A zone is a group of channels. Your radio supports up to 2048 channels and 32 zones, with a maximum of 64 channels per zone.

You may select a zone through any of the following methods.

Selecting a Zone through the Zone Menu

- 1. Press the **Setting** key in the home screen.
- 2. Go to "Zone".
- 3. Use the **Up/Down** key to select a desired zone.
- 4. Press the **OK** key to switch to the selected zone.
- Selecting a Zone through the Programmable Button If you set shortcut for Zone Up/Down, press the shortcut key to turn to the desired zone.

Analog Conventional Functions and Operations

DMO and RMO

Your radio supports both DMO and RMO modes.

- DMO: You can set the Rx frequency of your radio to be consistent with the Tx frequency using the CPS. In DMO mode, your radio can communicate directly with another radio.
- RMO: You can set the Rx frequency of your radio to be different from the Tx frequency via the CPS. In this mode, your radio can communicate with another radio of the same frequency configuration via a repeater.

■ CTCSS/CDCSS Type

This option allows you to configure the current channel with a specific Rx CTCSS/CDCSS type. When the radio receives the signal, it will distinguish whether the received signal is CTCSS or CDCSS, and check out whether it matches the predefined CTCSS/CDCSS for the current channel before processing.

Three types are available: CTCSS, CDCSS, and CDCSS Invert.



Note: CDCSS is also known as DCS.

CTCSS

The radio checks for CTCSS match when receiving a signal on the current channel.

Follow the procedure below to set CTCSS/CDCSS Type to CTCSS.

- 1. Log in to the CPS.
- Go to "Conventional -> Channel -> Analog Channel ->
 Selected Analog Channel" and set Rx/Tx CTCSS/CDCSS
 Type to CTCSS.

Analog Conventional Functions and Operations

CDCSS

The radio checks for CDCSS match when receiving a signal on the current channel.

Follow the procedure below to set CTCSS/CDCSS Type to CDCSS.

Procedure:

- 1. Log in to the CPS.
- Go to "Conventional -> Channel -> Analog Channel ->
 Selected Analog Channel" and set Rx/Tx CTCSS/CDCSS
 Type to CDCSS.

CDCSS Invert

The radio checks for an invert CDCSS match when receiving a signal on the current channel.

Follow the procedure below to set CTCSS/CDCSS Type to CDCSS Invert.

Procedure:

- 1. Log in to the CPS.
- Go to "Conventional -> Channel -> Analog Channel ->
 Selected Analog Channel" and set Rx/Tx CTCSS/CDCSS
 Type to CDCSS Invert.

Squelch Level

This option can reduce background noise by adjusting the squelch level when the radio is receiving signals. You may set the squelch level to Tight, Normal, or Open using the CPS. Normal squelch level is the default. Tight squelch level can filter weak signals, and allow only strong signals to be received. If the squelch level is set to Open (This parameter value is 0), the radio will turn on the speaker and background noise will be heard.



Note: A license is required for accessing the DMR trunking system. Contact your dealer for details.

Registering

The radio will register with a proper base station automatically according to CPS configuration after power-on.

Making a Registration

For correct operation, the radio will register with an appropriate base station automatically through any of these methods after power-on.

- After being programmed, the radio will register for the first time by hunting the Fixed TSCC List. See Hunt for more details.
- The radio will hunt for the last 10 control channels on which it has worked after power-on. See Hunt for more details.
- You may allow your radio to register with another base station by inputting the ID of an available control channel. See Hunt for more details.

Making a Deregistration

Your radio will cancel the registration with a base station through any of these methods.

The radio is powered off.

The radio registers with another base station.

■ Call

To ensure that your speech is clear, keep the microphone 2.5 to 5 cm from your mouth.

Private Call

You can set the type of private call to FOACSU or OACSU via base station.

- FOACSU: During call setup, the calling radio rings. The called party answers a call manually.
- OACSU: During call setup, the calling radio does not ring.
 The called party answers a call automatically.

Making a Private Call



You can make a private call through any of the following methods.

Making a Call through Contact or Call Log

Procedure:

- 1. Press the **Menu** key to enter the main menu.
- Go to "Contact -> Private Call Contact", or go to "Call Log" and access the Missed/Incoming/Outgoing Call list
- Use the Up/Down key to select the private call contact you want to call.
- 4. Press the a or PTT key to make the private call.
- Making a Call via Manual Dial

Procedure:

- In the home screen, input a private call number using the keypad.
- Press the , PTT , or key to make the private call.
- Making a Call through Redial or Backdial List

Procedure:

- In the home screen, press the or key to access the Redial or Backdial List.
- Use the Up/Down key to select the private call contact you want to call.
- 3. Press the <a> or PTT key to make the private call.



Note: The private call cannot be made if the radio has not registered.

Receiving a Private Call

When a private call is received, the alert tone is given and the incoming call icon is displayed on the LCD display.



Note: Ring tones will be available if FOACSU is checked in the system for the base station with which your radio registers.



The first text line displays the caller alias or ID.



Note: You may answer the call without any operation if this private call is set as OACSU.

Voice Communication

After a private call is established, either the calling party or the called party can make a voice call only if the **PTT** key is free with both parties staying on the PTT admit screen (Appearing after a call is established with no talks of either party within a preset time and remaining until the preset time expires).

Conversation Limit

When a private call is established, both the calling party and the called party will display the call duration in real time.



At the Calling Party

A countdown timer is displayed to the calling party to show the remaining time for a call. The time period is programmed by your dealer. The private call will be terminated automatically when the preset time expires.

At the Called Party
 The called party displays the actual communication time.

Ending a Call

The voice communication will be terminated when one of the following situations occurs:

 No operation (PTT key press) is performed within the preset time (programmable).

- The preset time expires.
- The calling party ends the ongoing call.
- Signal of base station is missing.

Group Call

Making a Group Call

You can make a group call through any of the following methods.

- Making a Call to the Preset Contact
 In the home screen, press the PTT key to make a group call to the group call contact preset for the Group Call Selector knob.
- Making a Call through Group Call Contact

Procedure:

- 1. Press the **Menu** key to enter the main menu.
- 2. Go to "Contact -> Group Call Contact".
- Use the Up/Down key to select the group call contact you want to call.
- 4. Press the eq or PTT key to make the group call.
- Making a Call via Manual Dial

- In the home screen, input a group call number using the keypad.
- 2. Press the , PTT , or we key to make the group call.

Making a Call through Redial or Backdial List

Procedure:

- In the home screen, press the or key to access the Redial or Backdial List.
- Use the Up/Down key to select the group call contact you want to call.
- 3. Press the an or PTT key to make the group call.

Receiving a Group Call

You can receive the call without any operation. The alert tone is given and the incoming call icon is displayed on the LCD display.



Late Entry

After a group call is established, it allows other group members to join this call.

Late Entry may occur in any of the following situations:

- The radio is powered on.
- The Group Call Selector knob is rotated to the group in operation.
- The radio exits from another group call.
- The radio is within the communication coverage of this group call.

Group Call Combination

After a group call is established, you can input the group ID or select the group from Group Call Contact to join the current group call.

Voice Communication

After a group call is established, either the calling party or the called party can make a voice call only if the **PTT** key is free with both parties staying on the PTT admit screen.

Conversation Limit

When a group call is established, both the calling party and the called party will display the call duration in real time.



- At the Calling Party
 - A countdown timer is displayed to the calling party to show the remaining time for a call. The time period is programmed by your dealer. The group call will be terminated automatically when the preset time expires.
- At the Called Party

The called party displays the actual communication time. The timer starts counting once the called party joins the group call. If the called party takes the initiative to exit from this call and then rejoins it later through the late entry method, the counter restarts.

Ending a Call

The voice communication will be terminated when one of the following situations occurs:

- No operation (PTT key press) is performed within the preset time (programmable).
- The preset time expires.
- The calling party ends the ongoing call.
- Signal of base station is missing.

Emergency Call

Emergency Call can be either emergency private or group call.

You may make an emergency call through any of these methods.

- Making a Call through the TK
 Press and hold the TK to initiate an emergency call.
 In the DMR system, you should set the called number using the CPS.
- Making a Call via Manual Dial

Procedure:

- 1. In the home screen, input "#9* + called number" using the keypad.
- 2. Press the <a>[, <a>PTT, or <a>m key to make the call.

Broadcast Call

Broadcast call can only be a broadcast group call. In a broadcast call, the calling party can only transmit voice signals and the called party can only receive them.

Follow the procedure below to make a broadcast call.

Procedure:

- 1. In the home screen, input "#1* + called number" using the keypad.
- 2. Press the <a> , PTT, or <a> key to make the call.

Priority Call

In the normal voice calls, priority call has the highest priority. You may follow the procedure below to make a priority call.

Procedure:

- 1. In the home screen, input "#8* + called number" using the keypad.
- 2. Press the , PTT, or we key to make the call.

Forced Group Call

Private call manual dial is available in the home screen by default. You can switch the private call manual dial to the group call manual dial and make a group call as follows.

- In the home screen, input "#6* + called number" using the keypad.
- 2. Press the <a> , PTT, or <a> key to make the call.

■ Contact

To access this item, press the **Menu** key in the home screen and then select "Contact".



Private Call Contact

You can save up to 256 entries of private call contact information in the list. To access this item, select "Contact -> Private Call Contact", or press the shortcut key programmed via the CPS for Contact and then select "Private Call Contact".

- For each private call contact, you can choose to perform any of these operations: View, Edit, and Delete.
- To delete all private call contacts in the list, select
 "Contact -> Private Call Contact -> Selected Contact -> Delete All".

Group Call Contact

You can save up to 256 entries of group call contact information in the list. To access this list, select "Contact -> Group Call Contact".

For each group call contact, you can choose to perform any of these operations: View, Edit, and Delete.

New Contact

You can add a new contact to the Private, Group, or Phone Call Contact list.

- The ID of each private call contact must be unique.
- The alias of each private call contact can contain 16 characters at most and the ID is made up of 8 digits. Set the ID according to the dial rules.



Note: You can press the we key on the keypad to switch the input method when editing the alias.

Message

To access this item, press the **Menu** key in the home screen and then select "Message".



Inbox

The Inbox can save up to 100 received messages.

The prompt "The Inbox will be full, please delete messages!" will appear if a new message is received when 90 messages are available in the Inbox. When the Inbox is full, the oldest message will be overwritten by the latest one automatically.

Outbox

The Outbox can save up to 100 sent messages. The following icons will appear to indicate whether the message is sent successfully.

The message is sent successfully.

The message is not sent successfully. In this case, you can resend it.

When the Outbox is full, the oldest message will be overwritten by the latest one automatically.

Drafts

The Drafts can save up to 100 draft messages. When the Drafts is full, the oldest message will be overwritten by the latest one automatically.

New Msg

You can create a new text message (179 characters at most) and save it to Drafts, or send it to a private or group call contact.

Preset Msg

Under this option there are some text messages (10 entries at most) preset by your dealer. You can choose to send any entry to a private or group call contact.

Status Msg

Under this option there are some status messages (95 entries at most) preset by your dealer. Only the status code is displayed and so the content of the message is not able to be viewed during transmission. You can choose to send any entry to a private or group call contact.

■ Call Log

To access this item, press the **Menu** key in the home screen and then select "Call Log".



The radio can save up to 200 call entries under this option. When the Call Log is full, the oldest entry will be overwritten by the latest one automatically.

- For each call entry, you can choose to perform any of these operations: Initiate a Call through PTT Press, View, and Delete.
- To delete all call entries in the Missed/Incoming/Outgoing Call list, select "Call Log -> Missed/Incoming/Outgoing Call-> Selected Call -> Delete All".

Redial or Backdial List

To access the Redial or Backdial List, press the



in the home screen. You can save up to 10 entries in the Redial List and Backdial List respectively. The oldest entry will be overwritten by the latest one automatically.

Redial List

All outgoing calls are saved in the Redial List.



You may follow the procedure below to make a call through the Redial List.

- In the home screen, press the key to access the Redial List
- Press the Up/Down key to select an entry you want to call.
- 3. Press the a or PTT key to make the call.
- For each call entry, you can choose to perform any of these operations: View and Delete.

 To delete all call entries in the list, select "Redial List -> Selected Call -> Delete All".

Backdial List

All incoming calls are saved in the Backdial List.



You may follow the procedure below to make a call through the Backdial List

Procedure:

- In the home screen, press the key to access the Backdial List.
- Press the Up/Down key to select an entry you want to call.
- 3. Press the a or PTT key to make the call.
- For each call entry, you can choose to perform any of these operations: View and Delete.
- To delete all call entries in the list, select "Backdial List -> Selected Call -> Delete All".

■ Hunt

In the DMR system, the terminal is required to register with a base station for normal work. Before registering, the terminal will hunt through the control channels for available base stations. The system provides multiple hunt policies for the registered terminals to ensure normal communications. Last Registered List: This list saves the last 10 control channels on which the radio has worked prior to power-off.



Note: You cannot view the Last Registered List on the UI because it runs in the background.

Short Hunt

The radio will hunt for the last 10 control channels on which it has worked. If the radio fails to register on all the 10 channels, it will go on with the Fixed TSCC List. The hunt process will cycle until the radio successfully registers with a base station.

Comprehensive Hunt

Short hunt would be performed preferentially. If short hunt brings no successful registration, comprehensive hunt will go from the channel defined at Minimum. Every 100 channels are hunted during comprehensive hunt, the previously said 10 channels will be hunted again. If no successful registration

is achieved after comprehensive hunt, the hunt will go on with the Fixed TSCC List. The hunt process will cycle until the radio successfully registers with a base station.

Team Hunt

The radio will hunt for the last 10 control channels on which it has worked. If the radio fails to register on all the 10 channels, it will go on to hunt the channel team available in the Team Hunt List. The hunt process will cycle until the radio successfully registers with a base station.

Background Hunt

This option allows you to determine whether to enable the background feature.

To access this item, press the **Setting** key in the home screen and then select "Hunt - > Background Hunt", or press the shortcut for Background Hunt directly in the home screen.

Team Hunt List

This option is used to determine whether a selected channel team to be searched repeatedly during radio registration.

 Fixed: After an available control channel is found during scanning and you select Fixed, the radio will register with this channel and save the channel team which the registered channel belongs to. When the signal of the

- channel on which the radio currently registers is lost, it will hunt through the channels available in the saved channel team.
- Temporary: After an available control channel is found during scanning and you select Temporary, the radio will register with this channel and will not save the channel team which the registered channel belongs to. When the signal of the current channel on which the radio currently registers is lost, it will hunt according to power-on hunt policies.

Fixed TSCC List

This list shows all the control channels set via the CPS. Your radio may hunt through the control channels for available base stations.

TSCC Hunt

With this option, you can enable your radio to register with a base station by inputting the ID of an available control channel.

Channel Information

With this option, you can view information about the channel on which your radio registers, including channel ID, time slot, RSSI, and system code.

Subgroup

A subgroup is a group of group call contacts. Your radio supports up to 2048 group call contacts and 32 subgroups, with a maximum of 64 group call contacts per subgroup. You can view members in each subgroup and set a desired subgroup as the default one.

You may select a subgroup through any of the following methods.

- Selecting a Subgroup through the Subgroup Menu Procedure:
 - 1. Press the **Setting** key in the home screen.
 - 2. Go to "Subgroup".
 - 3. Use the **Up/Down** key to select a desired subgroup.
 - 4. Press the **OK** key to switch to the selected subgroup.
- Selecting a Subgroup through the Programmable Button If you set shortcut for Subgroup Up/Down, press the shortcut key to turn to the desired subgroup.

Authentication

Authentication is used to ensure the validity of user accounts in the network. It operates in a way that the base station authenticates the validity of the radio. After the radio passes the authentication by the base station, the services can be processed.

■ Remote Remove Radio Service

The authorized dispatcher is able to permanently disable a radio remotely. The disabled radio cannot perform any operation (including requesting or receiving calls or SMSs) and can be revived only by your dealer or system administrator.

■ Remote Change Radio Service

The authorized dispatcher is able to temporarily disable a radio remotely. The disabled radio cannot request or receive any user initiated services (such as call and SMS). However, registration and report services remain active. If necessary, the dispatcher can enable the disabled radio to recover its normal services (such as call and SMS).

■ Emergency

Emergency Call

If the Emergency Call option is selected, your radio only transmits emergency call upon emergency activation. You may follow the procedure below to initiate an emergency call.

Procedure:

- 1. Log in to the CPS.
- 2. Go to "DMR Trunking -> General Setting" and associate Emergency On with a programmable button.
- Go to "DMR Trunking -> Security" and set Emergency Mode to Emergency Call and input the emergency number.
- Press the programmable button to initiate an emergency call. For example, you can short press the **TK** on your radio to initiate an emergency call if you have associated **TK Short** with Emergency On.

Emergency Alarm

If the Emergency Alarm option is selected, your radio only sends emergency alarm requests upon emergency activation. You may follow the procedure below to initiate an emergency alarm.

- 1. Log in to the CPS.
- Go to "DMR Trunking -> General Setting" and associate Emergency On with a programmable button.
- Go to "DMR Trunking -> Security" and set Emergency Mode to Emergency Alarm and input the emergency number.
- 4. Press the programmable button to initiate an emergency alarm. For example, you can short press the **TK** on your radio to initiate an emergency alarm if you have associated **TK Short** with Emergency On.



Note: A license is required for accessing the MPT trunking system. Contact your dealer for details.

Registering

The radio will register with a proper base station automatically according to CPS configuration after power-on.

Making a Registration

For correct operation, the radio will register with an appropriate base station automatically through any of these methods after power-on.

- After being programmed, the radio will register for the first time by hunting the Fixed TSCC List. See Hunt for more details.
- The radio will hunt for the last 10 control channels on which it has worked after power-on. See Hunt for more details.
- You may allow your radio to register with another base station by inputting the ID of an available control channel.
 See Hunt for more details.

Making a Deregistration

Your radio will cancel the registration with a base station when one of the following situations occurs.

- The radio is powered off.
- The radio registers with another base station.

■ Call

To ensure that your speech is clear, keep the microphone 2.5 to 5 cm from your mouth.

Private Call

Making a Private Call

You can make a private call through any of the following methods.

- Making a Call through Contact or Call Log Procedure:

 - 1. Press the **Menu** key to enter the main menu.
 - Go to "Contact -> Private Call Contact", or go to "Call Log" and access the Missed/Incoming/Outgoing Call list.
 - Use the Up/Down key to select the private call contact you want to call.
 - 4. Press the or PTT key to make the private call.
- Making a Call via Manual Dial

- In the home screen, input a private call number using the keypad.
- 2. Press the <a> , PTT, or <a> key to make the private call.

Making a Call through Redial or Backdial List
 Procedure:

1. In the home screen, press the or key to access the Redial or Backdial List

- Use the Up/Down key to select the private call contact you want to call.
- 3. Press the or PTT key to make the private call.



Note: The private call cannot be made if the radio has not registered.

Receiving a Private Call

When a private call is received, the alert tone is given.





Note: Ring tones will be available if FOACSU is checked in the system for the base station with which your radio registers.

The first text line displays the caller alias or ID.

Voice Communication

After a private call is established, either the calling party or the called party can make a voice call only if the **PTT** key is free with both parties staying on the PTT admit screen (Appearing after a call is established and remaining until the call is terminated).

Conversation Limit

When a private call is established, both the calling party and the called party will display the call duration in real time.



- At the Calling Party
 - A countdown timer is displayed to the calling party to show the remaining time for a call. The time period is programmed by your dealer. The private call will be terminated automatically when the preset time expires.
- At the Called Party
 The called party displays the actual communication time.

Ending a Call

The voice communication will be terminated when one of the following situations occurs:

- The preset time expires.
- The calling party ends the ongoing call.
- Signal of base station is missing.

Group Call

Making a Group Call

You can make a group call through any of the following methods.

- Making a Call to the Preset Contact
 In the home screen, press the PTT key to make a group call to the group call contact preset for the Group Call Selector knob.
- Making a Call through Group Call Contact

Procedure:

- 1. Press the Menu key to enter the main menu.
- 2. Go to "Contact -> Group Call Contact".
- Use the Up/Down key to select the group call contact you want to call.
- 4. Press the a or PTT key to make the group call.

Making a Call via Manual Dial

Procedure:

- In the home screen, input a group call number using the keypad.
- 2. Press the [, PTT, or key to make the group call.
- Making a Call through Redial or Backdial List

Procedure:

- 1. In the home screen, press the or key to access the Redial or Backdial List
- Use the Up/Down key to select the group call contact you want to call.
- 3. Press the eq or PTT key to make the group call.

Receiving a Group Call

You can receive the call without any operation. The alert tone is given. The first text line displays the group caller alias or ID that is programmed via the CPS.



Late Entry

After a group call is established, it allows other group members to join this call.

Late Entry may occur in any of the following situations:

- The radio is powered on.
- The Group Call Selector knob is rotated to the group in operation.
- The radio exits from another group call.
- The called party ends the ongoing call and rejoins it later.
- The radio is within the communication coverage of this group call.

Group Call Combination

After a group call is established, you can input the group ID or select the group from Group Call Contact to join the current group call.

Number Prefix Ignored During Group Call

You can make a call to a group of users no matter their number prefixes are the same or not.

Join a Group Call via Manual Dial

You can initiate a group call by inputting the group ID that is not covered in Group Call Contact using the keypad. After the group call ends, this group will be added into Group Call Contact and will not be available in Group Call Contact after you restart your radio.

Voice Communication

After a group call is established, either the calling party or the called party can make a voice call only if the **PTT** key is free with both parties staying on the PTT admit screen.

Conversation Limit

When a group call is established, both the calling party and the called party will display the call duration in real time.



- At the Calling Party
 - A countdown timer is displayed to the calling party to show the remaining time for a call. The time period is programmed by your dealer. The group call will be terminated automatically when the preset time expires.
- At the Called Party

The called party displays the actual communication time. The timer starts counting once the called party joins the group call. If the called party takes the initiative to exit from this call and then rejoins it later through the late entry method, the counter restarts.

Ending a Call

The voice communication will be terminated when one of the following situations occurs:

- The preset time expires.
- The calling party ends the ongoing call.
- Signal of base station is missing.

All Call

All Call in System is available in the MPT system.

All Call in System

1981 is the All Call in System number. When you make an All Call in System by dialing "*1981", all members in this system will join this call.

You can make an All Call in System through one of the following methods: making a call to the preset contact, making a call through group call contact, and making a call via manual dial. The operations are the same as those in Group Call. For details, see Group Call.

Emergency Call

Emergency call can be either emergency group or private call. You may make an emergency call through any of the following methods:

- Making a Call through the TK
 Press and hold the TK to initiate an emergency call.
 In the MPT system, you should set the called number using the CPS.
- Making a Call via Manual Dial

Procedure:

- In the home screen, input "*9* + called number" using the keypad.
- 2. Press the 🔳 , PTT, or 🗊 key to make the call.

Broadcast Call

Broadcast call can only be broadcast group call. In a broadcast call, the calling party can only transmit voice signals and the called party can only receive them.

Follow the procedure below to make a broadcast call.

Procedure:

- 1. In the home screen, input "*11* + called number" using the keypad.
- 2. Press the <a> , PTT, or <a> key to make the call.

Priority Call

You may set the call priority level to low, medium, high, and preemption via the CPS. Preemption call has the highest priority.

Follow the procedure below to make a priority call.

Procedure:

- In the home screen, input "*8* + called number" using the keypad.
- 2. Press the , PTT, or key to make the call.

■ Call Log

To access this item, press the **Menu** key in the home screen and then select "Call Log".



This radio can save up to 200 call entries under this option. When the Call Log is full, the oldest entry will be overwritten by the latest one automatically.

- For each call entry, you can choose to perform any of these operations: View and Delete.
- To delete all call entries in the Missed/Incoming/Outgoing Call list, select "Call Log -> Missed/Incoming/Outgoing Call -> Selected Call -> Delete All".

■ Redial or Backdial List

To access the Redial or Backdial List, press the end or key in the home screen. Either of the two lists can save up to 10 entries. When the lists are full, the oldest entry will be overwritten by the latest one automatically.

Redial List

All outgoing calls are saved in the Redial List.



You may follow the procedure below to make a call through the Redial List.

Procedure:

- In the home screen, press the key to access the Redial List.
- 2. Press the **Up/Down** key to select an entry you want to call.
- 3. Press the , PTT, or key to make the call.
- For each call entry, you can choose to perform any of these operations: View and Delete.

 To delete all call entries in the list, select "Redial List -> Selected Call -> Delete All".

Backdial List

All incoming calls are saved in the Backdial List.



You may follow the procedure below to make a call through the Backdial List

Procedure:

- In the home screen, press the key to access the Backdial List
- 2. Press the Up/Down key to select an entry you want to call.
- 3. Press the an or PTT key to make the call.
- For each call entry, you can choose to perform any of these operations: View and Delete.
- To delete all call entries in the list, select "Backdial List -> Selected Call -> Delete All".

■ Hunt

In the MPT system, the terminal is required to register with a base station for normal work. Before registering, the terminal will hunt through the control channels for available base stations. The system provides multiple hunt policies for the registered terminals to ensure normal communications. Last Registered List: This list saves the last 10 control channels on which it has worked prior to power-off.



Note: You cannot view the Last Registered List on the UI because it runs in the background.

Short Hunt

The radio will hunt for the last 10 control channels on which it has worked. If the radio fails to register on all the 10 channels, it will go on with the Fixed TSCC List. The hunt process will cycle until the radio successfully registers with a base station.

Comprehensive Hunt

Short hunt would be performed preferentially. If short hunt brings no successful registration, comprehensive hunt will go from the channel defined at Minimum. Every 100 channels are hunted during comprehensive hunt, the previously said 10 channels will be hunted again. If no successful registration is achieved after comprehensive hunt, the hunt will go on

with the Fixed TSCC List. The hunt process will cycle until the radio successfully registers with a base station.

Team Hunt

The radio will hunt for the last 10 control channels on which it has worked. If the radio fails to register on all the 10 channels, it will go on to hunt the channel team available in the Team Hunt List. The hunt process will cycle until the radio successfully registers with a base station.

Background Hunt

This option allows you to determine whether to enable the background hunt feature.

To access this item, press the **Setting** key in the home screen and then select "Hunt - > Background Hunt", or press the shortcut for Background Hunt directly in the home screen.

Team Hunt List

This option is used to determine whether a selected channel team to be searched repeatedly during radio registration.

- Fixed: After an available control channel is found during scanning and you select Fixed, the radio will register with this channel and save the channel team which the registered channel belongs to. When the signal of the channel on which the radio currently registers is lost, it will hunt through the channels available in the saved channel team.
- Temporary: After an available control channel is found during scanning and you select Temporary, the radio will register with this channel and will not save the channel team which the registered channel belongs to. When the signal of the current channel on which the radio currently registers is lost, it will hunt according to power-on hunt policies.

Fixed TSCC List

This list shows all the control channels set via the CPS. Your radio may hunt through the control channels for available base stations.

TSCC Hunt

With this option, you can enable your radio to register with a base station by inputting the ID of an available control channel.

Channel Information

With this option, you can view information about the channel on which your radio registers, including channel ID, time slot, RSSI, and system code.

Subgroup

A subgroup is a group of group call contacts. Your radio supports up to 2048 group call contacts and 32 subgroups, with a maximum of 64 group call contacts per subgroup. You can view members in each subgroup and set a desired subgroup as the default one.

You may select a subgroup through any of the following methods.

- Selecting a Subgroup through the Subgroup Menu Procedure:
 - 1. Press the **Setting** key in the home screen.
 - 2. Go to "Subgroup".
 - 3. Use the **Up/Down** key to select a desired subgroup.
 - 4. Press the **OK** key to switch to the selected subgroup.
- Selecting a Subgroup through the Programmable Button If you set shortcut for Subgroup Up/Down, press the shortcut key to turn to the desired subgroup.

■ Emergency

Your radio supports one emergency mode: Emergency Call. You may follow the procedure below to initiate an emergency call.

Procedure:

- 1. Log in to the CPS.
- Go to "MPT Trunking -> General Setting" and associate Emergency On with a programmable button.
- Go to "MPT Trunking -> Security" and set Emergency Mode to Emergency Call and input the emergency number
- Press the programmable button to initiate an emergency call. For example, you can short press the TK on your radio to initiate an emergency call if you have associated TK Short with Emergency On.

Optional Accessories

The following items are the main optional accessories for the product. Consult your local dealer for more other accessories.





Caution: Use the accessories specified by the Company only. Otherwise, the Company shall not be liable for losses or damages arising out of use of unauthorized accessories.

■ Troubleshooting

Phenomena	Analysis	Solution
The radio cannot be powered on.	The battery may be improperly installed.	Remove the battey and attach it again.
	The battery may run out.	Recharge or replace the battery.
	The battery may suffer from poor contact caused by dirty or damaged battery contacts.	Clean the battery contacts. If the problem cannot be solved, contact your dealer or authorized service center for inspection and repair.
The radio cannot register successfully.	The radio may not detect signals from the base station.	Make sure you are within the coverage of the base station.
	The radio may not be authorized.	Contact the base station manager to check whether you are an authorized subscriber in the network management system.
The radio registers repeatedly.	The signal is discontinuous.	Make sure you are within the coverage of the base station.
The radio cannot establish a call.	The signal is poor.	Make sure you are within the coverage of the base station.
No voice is heard after a call is established.	Your ID may be repeated.	Contact the base station manager to check whether your ID is repeated in the network management system.
The called party disconnects repeatedly during communication.	The signal is discontinuous.	Make sure you are within the coverage of the base station.
During receiving, the voice is weak, discontinuous, or totally inactive.	Low battery	Recharge or replace the battery.
	The volume may be set to a low level.	Increase the volume by rotating the Volume Control knob clockwise.
	The antenna may get loose or improperly installed.	Power off the radio, reinstall the antenna and power on the radio again.
	The speaker may be blocked or damaged.	Clean surface of the speaker. If the problem cannot be solved, contact your local dealer or authorized service center for inspection and repair.
You cannot communicate with other members.	The signal is poor.	Make sure you are within the communication range.
The voice is unclear.	The signal is poor.	Make sure you are within the communication range.
The noise is too loud.	The signal is poor.	Make sure you are within the communication range.
	You may be at an unfavorable position. For example, your communication may be blocked by high buildings or frustrated in the underground areas.	Move to an open and flat area and restart the radio.
	You may suffer from external disturbance (such as electromagnetic interference).	Stay away from equipment that may cause interference.

If the above solutions cannot fix your problems, or you may have some other queries, please contact us or your local dealer for more technical support.

Limited Warranty

What This Warranty Covers and for How Long

Shenzhen Excera Technology Co., Ltd. warrants the Excera manufactured products listed below against defects in material and workmanship under normal use and service for a period of time from the date of purchase as scheduled below:

EP8100 Digital Portable Radios	Two Years
Accessories	Six Months

How to Get Warranty Service

You must provide a completely filled warranty card, purchase invoice, and receipt in order to get warranty services. The purchase invoice or receipt should indicate the radio, accessories, radio serial number, purchase date, and purchase amount.

What This Warranty Does Not Cover

- 1. Defect or damage resulting from use of the product in other than its normal and customary manner
- 2. Defect or damage caused by unauthorized product disassembly, repair, or modification
- 3. Damage due to force majeure, such as flood, lightning strike, earthquake, tsunami, fire, and abnormal voltage
- 4. Product that does not have a valid warranty certificate, such as warranty card, purchase invoice, or receipt
- 5. Product which has had the serial number and the tamper-proof label removed or made illegible
- 6. Normal and customary wear and tear
- 7. Rechargeable batteries if:
 - (1) any of the seals on the battery enclosure of cells is broken or shows evidence of tampering.
 - (2) the damage or defect is caused by charging or using the battery in equipment or service other than the product for which it is specified.

Warranty Card

Purchase Information

stomer Name:
stomer Phone:
stomer Address:
rchase Date:
idio Information
del Number:
rial Number:



Note:

- This warranty card applies to after-sale and maintenance services for the product and accessories described above.
- You must provide this warranty card and purchase invoice in order to get warranty services.
- The Company does not assume liability for damages caused by human factors. For more details, contact your local dealer.

FCC Statement

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to part 15 of FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates 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

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:" Changes or modifications to this unit not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment."

Compliance with RF Exposure Standards

Excera 2-way radio complies with the following RF energy exposure standards and guidelines:

- United States Federal Communications Commission, Code of Federal Regulations; 47 CFR §§ 1.1307, 1.1310 and 2.1093
- American National Standards Institute (ANSI) / Institute of Electrical and Electronic Engineers (IEEE) C95. 1-1992
- Institute of Electrical and Electronic Engineers (IEEE)2014/53/EU Edition

RF Exposure Compliance and Control Guidelines and

Operating Instructions

To control your exposure and ensure compliance with the occupational/controlled environment exposure limits always adhere to the following procedures. Guidelines:

- Do not remove the RF Exposure Label from the device.
- User awareness instructions should accompany device when transferred to other users.
- Do not use this device if the operational requirements described herein are not met. Operating Instructions:
- Transmit no more than the rated duty factor of 50% of the time. To transmit (talk), push the Push-To-Talk (PTT) button. To receive calls, release the PTT button. Transmitting 50 % of the time, or less, is important because this radio generates measurable RF energy exposure only when transmitting (in terms of measuring for standards compliance).
- Hold the radio in a vertical position in front of face with the microphone (and the other parts of the radio, including the antenna) at least one inch (2.5 cm) away from the nose. Keeping the radio at the proper distance is important because RF exposures decrease with distance from the antenna. Antenna should be kept away from eyes.
- When worn on the body, always place the radio in a Excera's approved clip, holder, holster, case, or body harness for this product. Using approved body-worn accessories is important because the use of Excera's orother manufacturer's non-approved accessories may result in exposure levels, which exceed the FCC's occupational/controlled environment RF exposure limits.
- If you are not using a body-worn accessory and are not using the radio in the intended use position in front of the face, then ensure the antenna and the radio are kept at least 2.5 cm (one inch) from the body when transmitting. Keeping the radio at the proper distance is important because RF exposures decrease with increasing distance from the antenna.
- Use only Excera's approved supplied or replacement antennas, batteries, charger, and accessories. Use of non-manufacturer-name approved antennas, batteries, and accessories may exceed the FCC RF exposure guidelines.
- For a list of Excera's approved accessories or visit the www.excera.com.cn.

ISEDC statement

This device complies with Innovation, Science, and Economic Development Canada licence-exempt RSS standard(s). Operation is subject to the following two conditions:

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

Le présent appareil est conforme aux CNR d' Innovation, Sciences et Développement économique Canada(Innovation, Sciences et Développement économique Canada) applicables aux appareils radio exempts de licence. L'exploitation est autorisée aux deux conditions suivantes :

- (1) l'appareil nedoit pas produire de brouillage, et
- (2) l'utilisateur de l'appareil doit accepter tout brouillage radioélectrique subi, même si le brouillage est susceptible d'en compromettre le fonctionnement.