

To Customers

We are grateful for your purchase of this transceiver.

We believe this easy-to-use transceiver will provide you with dependable and reliable communications.

We employed advanced technology & workmanship for this transceiver and trust that our design will make it user-friendly.

For correct use, please read this manual first.

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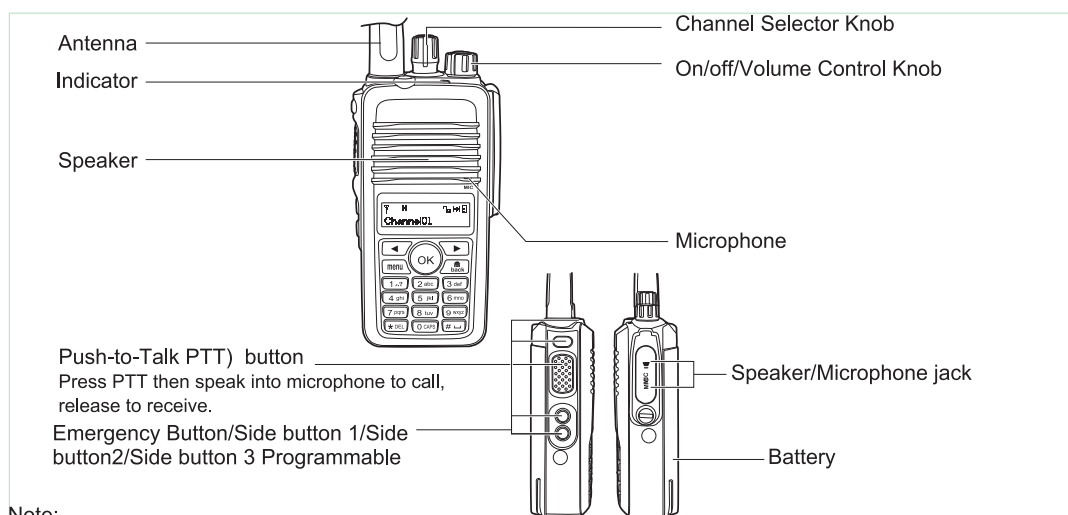
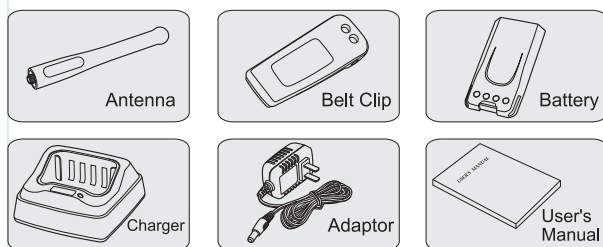
User and security information 01

- For your safe and efficient use of the radio, please read the information below.
- Please turn off the radio before you into the inflammable. explosive environment.
- Do not replace or charge the battery in the inflammable. explosive environment.
- Before you near the blasting area and detonator area, please turn off the radio.
- Do not using the radio which antenna is damaged, the damaged antenna touch skin may cause minor burns.
- Refer service to qualified technicians only; don't disassemble the radio by yourself.
- To avoid electromagnetic interference and/or compatibility conflicts, turn off your radio in any facility where posted notices instruct you to do so. For example, the hospital and other.
- For vehicles with an air bag, do not place the transceiver in the area or in the air bag deployment area.
- Do not expose the radio to long periods of direct sunlight or place it close to heating appliances.
- When your portable transceiver is transmitting, hold the transceiver in a vertical position and close to the microphone to speak.
- If you wear a portable transceiver on your body, please ensure when the transceiver is transmitting the antenna is at least 2.5 cm from your body.

Welcome to use our transceiver. Before using, we recommend you that:

- Please check if any damage to the packing box before using.
- Carefully unpack the transceiver and identify the items listed in the following table; if any items or accessories are missing or have been damaged during shipment, contact with the dealer immediately.

ITEMS	QUANTITY
Antenna	1
Belt Clip	1
Battery	1
Charger	1
Adaptor	1
User's Manual	1



Note:

Emergency Key/Side button 1/Side button 2 and side button 3 can be programmable for short press and long press by PC software to these functions:

1. Unassigned,
2. All Alert Tones On/Off,
3. Emergency On,
4. Emergency Off,
5. High/Low Power,
6. Monitor,
7. One Touch Access 1,
8. One Touch Access 2,
9. One Touch Access 3,
10. One Touch Access 4,
11. One Touch Access 5,
12. One Touch Access 6,
13. Repeater/Talkaround,
14. Scan on/off,
15. Tight/Normal Squelch,
16. Privacy On/Off,
17. Vox On/Off,
18. Lone work on/off

Charging the Battery Pack

The battery pack is not charged at the factory; charge it before use.

Initially charging the battery pack after purchase or extended storage (greater than 2 months) will not bring the battery pack to its normal operating capacity. After repeating the charge/discharge cycle two or three times, the operating capacity will increase to normal.



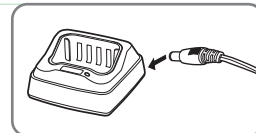
Do not recharge the battery pack if it is already fully charged, doing so may cause the life of the battery pack to shorten or the battery pack may be damaged.

After recharging the battery pack, disconnect it from the charger, charging the battery pack for more than 5 days may reduce the battery pack life.

Note

- ◆ The ambient temperature should be between 5°C and 40°C while charging is in progress. Charging beyond this range may not fully charge the battery.
- ◆ Always switch OFF the transceiver equipped with a battery pack before charging.
- ◆ The battery pack life is over when its operating time decreases even though it is fully and correctly charged. Replace the battery pack.

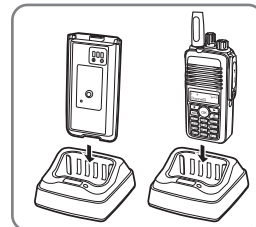
Plug the AC adaptor cable into the adaptor jack located on the rear of the charger.



Plug the AC adaptor into an AC outlet.

Slide the battery pack or transceiver with a battery pack into the charger.

- ◆ Make sure the battery pack contacts are in contact with the charging terminals.
- ◆ The charger LED lights and charging begins.



After charging the supplied battery pack for 4 hours, remove it or the transceiver equipped with it from the charger.

- ◆ The charger turn to green automatically after charging is completed.

Unplug the AC adaptor from the AC outlet.

Installing / Removing the Battery Pack

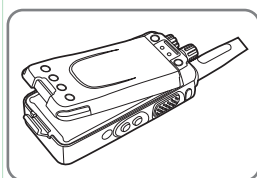
The average life of the supplied battery pack is 10 hours.

Average times are calculated using 5% transmit time, 5% receive time, and 90% standby time.

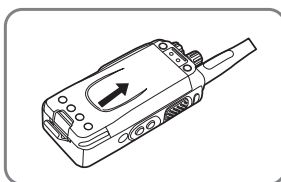


Do not tamper with the battery terminals nor dispose of the battery by fire.
Never attempt to remove the casing from the battery pack.

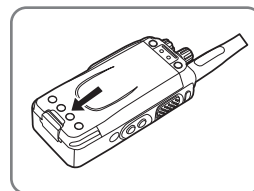
Match the top of battery
with the frame of chassis.



Push the battery pack to the
connection of chassis and push
down the battery locker



To remove the battery pack,
pull up the battery locker and
slide the pack away from the
transceiver.

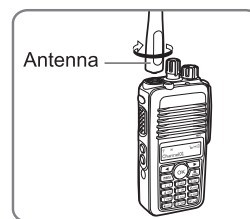


Installing the Antenna

Screw the antenna into the connector on the top of the transceiver by holding the antenna at its base and turning it clockwise until secure.

Note:

◆ Don't use the antenna as handle, keychain or speaker/microphone hook, it will damage the antenna and affect the performance of the radio.

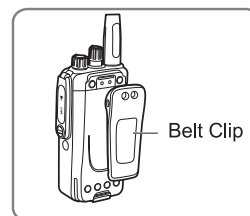


Installing the Belt Clip

If necessary, buckle the belt clip to the back of the battery pack.

Note:

◆ if not install the belt clip, the installation position may become hot during High Temperature



Do not use glue which is designed to prevent screw loosening when installing the belt clip, as it may cause damage to the transceiver.
Acrylic ester, which is contained in these glues, may crack the transceiver's back panel.

Installing the Earphone/Speaker Microphone

Plug the earphone/Speaker microphone into the jack.

Note:

◆ When use the earphone/speaker microphone, the radio may not waterproof.

**Installing the Jack Cover**

If you are not using the jack, cover the jack by jack cover with supplied screw.

Note:

◆ To keep the transceiver water resistant, you must cover the jacks with the supplied cover and fix the screw.

**Powering UP the Radio**

Rotate the On/Off/Volume Control Knob clockwise until you hear a click. The LED blinks green and the Home screen lights up if the backlight setting is set to turn on automatically.

NOTE:

The Home screen does not light up during a power up if the LED indicator is disabled. A brief tone sounds, indicating that the power up test is successful. There is no power up tone if the radio tones/alerts function is disabled. To turn off the radio, rotate this knob counterclockwise until you hear a click.

Adjusting the Volume

To increase the volume turn the On/Off/Volume Control Knob clockwise.








To decrease the volume, turn this knob counterclockwise.

10 Function Introduction

1. Making and Receiving Calls

Selecting a Zone

A zone is a group of channels. Your radio supports up to 250 zones, with a maximum of 16 channels per zone. Use the following procedure to select a zone.

1. Press [] to access the menu.
2. Press [] or [] to Zone and press [] to select
3. The current zone is displayed and indicated by a zone name.
4. Press [] or [] to the required zone then press [] to select.
5. The display shows [Zone] selected momentarily and returns to the selected zone screen.

Selecting a RADIO Channel, Subscriber ID, or Group ID

Once the required zone is displayed (if you have multiple zones in your radio), turn the programmed Channel selector Knob to select the channel, subscriber alias or ID, or group alias or ID.

Receiving and Responding to a Radio Call

To receive a call from a group of users, your radio must be configured as part of that group.

When you receive a Group Call:

1. The LED blinks green.

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2. The first line of the display shows the caller alias, and the RSSI icon. The second line displays the group alias and the Group Call icon (in Digital mode only)
3. Press [PTT] button to respond to the call, LED indicator lights up red.
4. Release the PTT button to listen.
5. If there is no voice activity for a predetermined period of time, the call ends.

Receiving and Responding to a Private Call

A Private Call is a call from an individual radio to another individual radio.

There are two types of Private Calls. The first type, where a radio presence check is performed prior to setting up the call, while the other sets up the call immediately.

Procedure:

When you receive a Private Call:

1. The LED blinks green.
2. The first line of the display shows the subscriber alias or ID, and the RSSI icon. The second line displays Private Call and the Private Call icon.
3. Press [PTT] button to respond to the call* LED indicator lights up red.
4. Release [PTT] button to listen.
5. If there is no voice activity for a predetermined period of time, the call ends.

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Receiving an All Call

An All Call is a call from an individual radio to every radio on the channel. It is used to make important announcements requiring the user's full attention.

Procedure:

When you receive an All Call:

- 1.LED blinks green.
- 2.The first line of the display shows the caller alias or ID, and the RSSI icon. The second line display All Call and the All Call icon.

NOTE: The radio stops receiving the All Call if you switch to a different channel while receiving the call.

Making a Radio Call

You can select a channel, subscriber ID, or group by using:

- ✦ The channel Selector Knob
- ✦ The programmed number keys
- ✦ The contacts list
- ✦ Manual Dial(using contacts list)-This method is for Private Calls only and is dialed using the keypad.

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Making a Call with the Channel Selector Knob

Making a Group Call

To make a call to a group of users, your radio must be configured as part of that group.

Procedure:

- 1.Turn the Channel Selector Knob to select the channel with the active group alias or ID.
- 2.Press the PTT button to make the call. When the target radio responds, the LED lights up green. The display shows the Group icon*group alias or ID, and transmitting radio alias or ID.
- 3.If there is no voice activity for a predetermined period of time, the call ends. Radio returns to the screen you were on prior to initiating the call.

Making a Private Call

Procedure:

- 1.Turn the Channel Selector Knob to select the channel with the active subscriber alias or ID.
- 2.Press the PTT button to make the call. The first line displays the subscriber alias or ID. The second line displays Private Call and the Private Call icon.
- 3.Release the PTT button to listen. When the target radio responds,
- 4.If there is no voice activity for a predetermined period of time, the call ends. Radio returns to the screen you were on prior to initiating the call.

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Making an All Call

This feature allows you to transmit to all users on the channel. Your radio must be programmed to allow you to use this feature.

Procedure:

1. Turn the Channel Selector Knob to select the channel with the active All Call group alias or ID.
2. Press the PTT button to make the call, the display shows the All Call group alias or ID, and the All Call icon. User on the channel cannot respond to an All Call.

Making a Group, Private Call with the One Touch Access Button

The One Touch Access feature allows you to make a Group or Private Call to a predefined alias or ID easily. This feature can be assigned to a short or long programmable button press.

You can only have one alias or ID assigned to a One Touch Access button. Your radio can have multiple One Touch Access buttons programmed.

Procedure:

1. Press the programmed One Touch Access button to make a Group or Private Call to the predefined alias or ID.
2. Press the PTT button to make the call. The display shows the group/subscriber alias or ID, and the Group /Private Call icon.
3. Release the PTT button to listen. When the target radio responds, the LED blinks green.

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4. If there is no voice activity for a predetermined period of time, the call ends. Radio returns to the screen you were on prior to initiating the call.

2. Emergency Operation

An Emergency Alarm is used to indicate a critical situation. You are able to initiate an Emergency at any time on any screen display even when there is activity on the current channel.

Each alarm has the following types:

Disabled: Radio cannot transmit alarm signal, but can receive alarm from other radios.

Regular: Radio transmits an alarm signal and shows audio and/or visual indicators.

Silent: Radio transmits an alarm signal without any audio or visual indicators.

Silent with Voice: In alarm status initiate an alarm, press [PTT] button to call and emit sound.

Exiting Emergency Mode

Your radio exits Emergency mode when one of the following occurs:

- ✦ Emergency Alarm acknowledgement is received (for Emergency Alarm only), OR
- ✦ All retries to send the alarm have been exhausted, OR
- ✦ The Emergency Off button is pressed.
- ✦ Press [PTT] button




NOTE: If your radio is powered off, it exits the Emergency mode. The radio will not reinitiate the Emergency mode automatically when it is turned on again.



Using the Keypad

You can use the 3x4 alphanumeric keypad to access your radio's feature. You can use the keypad to enter subscriber aliases or IDs, and text message. Many characters require that you press a key multiple times. The table below shows the number of times a key needs to be pressed to generate the required character.

KEY	1	2	3	4	5	6	7	8	9	10	11	12	13
1	1	.	,	?	!	@	&	*	%	-	:	*	#
2	A	B	C	2									
3	D	E	F	3									
4	G	H	I	4									
5	J	K	L	5									
6	M	N	O	6									
7	P	Q	R	S	7								
8	T	U	V	8									
9	W	X	Y	Z	9								
0	0	NOTE: Press to enter "0" and long press to activate the CAPS lock. Another long press to turn off the CAPS lock.											
*	Del	NOTE: Press during text entry to delete the character.											
#	Space	NOTE: Press during text entry to insert a space.											

Function Operation

Press [] button to access the menu, Press the appropriate Menu Scroll button [] or [] to access the menu functions.

1. Press [] button to select a function or enter a sub-menu;
2. Press [] button to return to the previous screen.

NOTE: Your radio automatically exits the menu after a period of inactivity and returns to your Home screen. (The time is programmed by software)

Radio check





If enabled, this feature allows you to determine if another radio is active in a system without disturbing the user of that radio. No audible or visual notification is shown on the target radio.












This feature is only applicable for subscriber aliases or IDs.

Sending a Radio Check

Procedure:

Using the programmed Radio Check button.

1. Press [] to access the menu.
2. Press [] or [] button to Contacts and press [] to select.

3. Press [] or [] button to the required subscriber alias or ID and press [] to select. Or press [] or [] button to Manual Dial, then press [] twice, input subscriber ID, then press [] button.
4. Press [] or [] button to Radio Check, then press [] button.
5. The display shows Radio Check: <Subscriber Alias or ID>, indicating that Radio Check is in progress. The LED lights up red.
6. If the target radio is active in the system, a tone sounds and the display briefly shows Target Radio Available OR if the target radio is not active in the system, a tone sounds and the display briefly shows Target Radio Not Available.
7. Radio returns to the subscriber alias or ID screen. If the [] button is pressed when the radio is waiting for acknowledgement, the radio terminates all retries and exits Radio Check mode.















Remote Monitor

Use the Remote Monitor feature to turn on the microphone of a target radio (subscriber alias or IDs only). No audible or visual indication is given to the target radio. You can use this feature to monitor, remotely, any audible activity surrounding the target radio. Your radio must be programmed to allow you to use this feature.

Initiating Remote Monitor

Procedure:

Use the programmed Remote Monitor button.

1. Press [] to access the menu.
2. Press [] or [] button to Contacts, then press [] button to select.
3. Press [] or [] button to the required subscriber alias or ID and press [] button to select OR press [] or [] button to Manual Dial, then press [] twice. Input subscriber alias or ID and press [] button.
4. Press [] or [] button to Remote Monitor and press [] button.
5. The screen display remote monitor: < Subscriber alias or ID>, indicating that Remote Monitor is in progress. The LED blinks red.
6. The display shows Remote Monitor Successful OR The display shows Remote Monitor Failed.
7. If successful: The radio starts receiving audio from the monitored radio for a programmed duration. Once the timer expires, LED turns off.

Contacts Settings

Contacts provide "address-book" capabilities on your radio. Each entry corresponds to an alias or ID that you use to initiate a call.







Each entry within Contacts displays the following information:

- ✦ Call Type
- ✦ Call Alias
- ✦ Call ID

NOTE: you can add, delete, or edit contacts for the Digital Contacts list.





Making a Group Call from Contacts






Procedure:

1. Press [] to access the menu.
2. Press [] or [] button to Contacts and press [] button to select.
3. Press [] or [] button to the required group alias or ID
4. Press [PTT] button to make the call, release the PTT button to listen, when any user in the group responds, the LED blinks green. You see Group Call icon on your display.

Making a Private Call from Contacts

Procedure:

1. Press [] to access the menu.
2. Press [] or [] button to Contacts and press [] button.

3. Press [] or [] button to the required subscriber alias or ID. OR press [] or [] button to Manual Dial and press [] button twice, use the keypad to input the subscriber ID.
4. Press [PTT] button to make the call. The first line displays the subscriber alias or ID. The second line displays Private Call and the Private Call icon.
5. Release the PTT button to listen. When the target radio responds, the LED blinks green and the display shows the transmitting user's ID.
6. If there is no voice activity for a programmed period of time, the call ends.





Call log Features






Your radio keeps track of all recent outgoing, answered, and missed Private Calls. Use the call log feature to view and manage recent calls.

Viewing Recent Calls

The lists are Missed, Answered, and Outgoing.















Procedure:

1. Press [] to access the menu.
2. Press [] or [] button to Call Log and press [] button.

3. Press [] or [] button to preferred list and press [] button.
4. The display shows the most recent entry at the top of the list.
5. Press [] or [] to view the list.

Storing an Alias or ID from the Missed Call list





Procedure:












1. Press [] to access the menu.
2. Press [] or [] button to Call Log and press [] to select.
3. Press [] or [] button to Missed and press [] to select.
4. Press [] or [] button to required missed call alias or ID and press [] to select.
5. Press [] or [] to Store and press [] to select.
6. A blinking cursor appears. If needed, key in the alias for that ID and press [] button.
7. The display shows Contact Saved.

You can also input an ID without an alias.

Deleting a Call from a Call list

Procedure:

1. Press [] to access the menu.
2. Press [] or [] button to Call Log and press [] button to select.

3. Press [] or [] button to the required list and press [] to select.
4. Press [] or [] button to the required alias or ID and press [] to select.
5. Press [] or [] to Delete Entry and press [] to select whether to delete this entry.
6. Select "Yes" and press [] to delete the entry. The display shows Entry Deleted OR select "NO" and press [] button to return to the previous screen.

When you select a call list and it contains no entries, the display shows List Empty.

Call Alert Operation


Call Alert paging enables you to alert a specific radio user to call you back when they are able to do so. This feature is applicable for subscriber aliases or IDs only and is accessible through the menu via Contacts or manual dial.

Receiving and Responding to a Call Alert

When you receive a Call Alert page, you see Call Alert that alternates with the alias or ID of the calling radio on the display.















Procedure:

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1. LED blinks red.
2. Press and release [PTT] button to confirm the prompt, or press [] button to select "Ignore?" and to exit the Call Alert.

Making a Call Alert from the Contact List

Procedure:

1. Press [] to access the menu.
2. Press [] or [] to Contacts and press [] to select.
3. Press [] or [] to the required subscriber alias or ID and press [] to select. OR press [] or [] to Manual Dial and press [] button twice to select, the display shows a blinking cursor, input the subscriber ID you want to page and press [] button.
4. Press [] or [] button to Call Alert and press [] button. The display shows Call Alert :< Subscriber Alias or ID>, indicating that the Call Alert has been sent.
5. The LED lights up red when your radio is sending the Call Alert.
6. If the Call Alert acknowledgement is received, a tone sounds and the display shows Call Alert Successful. OR if the Call Alert acknowledgement is not received, a tone sounds and the display shows Call Alert Failed.

MENU Feature Operation 25




















Text Message Features

Your radio is able to receive data, for example a text message from another radio. The maximum length of characters for a text message is 164.

NOTE: Press [] at any time to return to previous screen.

Writing and Sending Text Message

Procedure:

1. Press [] to access the menu.
2. Press [] or [] to Messages and press [] to select.
3. Press [] or [] to Write and press [] to select.
4. A blinking cursor appears, use the keypad to type your message. Press [] to move one space to the left. Press [] or the [] key to move one space to the right. Press [] key to delete any unwanted characters.
5. Press [] button to send or store once message is completed.
6. Select Send and press [] or [] to the required alias or ID and press [] to send the message, or press [] or [] to Manual Dial, press [] button, input subscriber ID and press [] button.
7. The display shows Text Message :< Subscriber/Group Alias or ID>, confirming your message is being sent.
8. If the message is sent, a tone sounds and the display shows Message Sent. OR if the message is not sent,























a high tone sounds and the display shows Message Send Failed. If the text message fails to send, the radio returns you to the Resend option screen.

Sending a Quick Text Message

Your radio supports a maximum of 50 Quick Text messages as programmed by your dealer.

While Quick Text messages are predefined, you can edit each message before sending it.

Procedure:

1. Press [] button enter into menu mode.
2. Press [] or [] to Message and press [] to select.
3. Press [] or [] to Quick Text and press [] to select.
4. Press [] or [] to required Quick Text and press [] to select.
5. A blinking cursor appears. Use the keypad to edit the message, if required. Press [] to move one space to the left. Press [] or the [] key to move one space to the right. Press [] key to delete any unwanted characters.
6. Press [] button to send or store once message is completed.
7. Select Send and press [] or [] to the required alias or ID and press [] to send the message, or press [] or [] to Manual Dial, press [] button, input subscriber ID and press [] button.
8. The display shows Text Message :< Subscriber/Group Alias or ID>, confirming your message is being sent.

9. If the message is sent successfully, a tone sounds and the display shows Message Sent. OR if the message cannot be sent, a high tone sounds and the display shows Message Send Failed. If the text message fails to send, the radio returns you to the Resend option screen.

You can also press One Touch Access button to send a predefined Quick Text message to a predefined alias or ID.


Managing Fail-to-Send Text Messages

You can select one of the following options while at the Resend option screen:

- ✦ Resend
- ✦ Forward
- ✦ Edit

Resend Text Message











Procedure:

1. Press [] to resend the same message to the same subscriber/group alias or ID.
2. If the message is sent successfully, a tone sounds and the display shows Message Sent. OR if the message cannot be sent, the display shows Message Send Failed.

Forwarding a Text Message

Select Forward to send the message to another subscriber/group alias or ID.








Procedure:








1. Press [] or [] to Forward and press [] to select.
2. Press [] or [] to required alias or ID and press [] to send. OR press [] or [] to Manual Dial and press [] , input subscriber ID then press [] button.
3. The display shows Text Message: <Subscriber/Group Alias or ID>.confirming your message is being sent.
4. If the message is sent successfully, a tone sounds and the display shows Message Sent. OR if the message is not sent, a high tone sounds and the display shows Message Send Failed.

Editing a Text Message

Select Edit to edit the message before sending it.

Procedure:


1. Press [] or [] button to Edit and press [] button.
2. A blinking cursor appears beside the message. Use the keypad to edit your message. Press [] to move one space to the left. Press [] or the [] key to move one space to the right. Press [] key to delete any unwanted characters.
3. Press [] button to send or store once message is completed.

4. Select Send and press [] or [] to the required alias or ID and press [] to send the message, or press [] or [] to Manual Dial, press [] button, input subscriber ID and press [] button.
5. The display shows Text Message :< Subscriber/Group Alias or ID>, confirming your message is being sent.
6. If the message is sent successfully, a tone sounds and the display shows Message Sent. OR if the message cannot be sent, a high tone sounds and the display shows Message Send Failed.

Managing Sent Text Message










Once a message is sent to another radio, it is saved in Sent Items. The most recent sent text message is always added to the top of the Sent Items list.

The Sent Items folder is capable of storing a maximum of fifty (50) last sent message. When the folder is full, the next sent text message automatically replaces the oldest text message in the folder.

NOTE: Press [] at any time to return to the previous screen.

Viewing a Sent Text Message

Procedure:






1. Press [MENU] to access the menu.
2. Press [] or [] to Message and press [] to select
3. Press [] or [] to Sent Items and press [] to select.
4. Press [] or [] to the required message and press [] button.

Sending a Sent Text Message

You can select one of the following options while viewing a sent text message:















- ✦ Resend
- ✦ Forward
- ✦ Edit
- ✦ Delete

Procedure:

1. Press [] again while viewing the message.
2. Press [] or [] to Resend and press [] to send message.
3. The display shows Text Message: <Subscriber/Group alias or ID>, confirming that the same message is being sent to the same target radio.
4. If the message is sent, a tone sounds and the display shows Message Sent. OR if the message is not sent, a high tone sounds and the display shows Message Send Failed. The radio returns to the Resend option screen. Press [] to resend the message to the same subscriber/group alias or ID.
 - ✦ Select Forward to send the selected text message to another subscriber/group alias or ID.
 - ✦ Select Edit to edit the selected text message before sending it.
 - ✦ Select Delete to delete the text message.

Deleting All Sent Text Message from Sent Items

Procedure:

1. Press [] button to menu mode.
2. Press [] or [] to Message and press [] to select.
3. Press [] or [] to Sent Items and press [] to select.
4. Press [] or [] to Delete All and press [] to select.
5. At Delete Message?, press [] to select Yes. The display shows Sent Items Cleared. OR at Delete Message?, press [] or [] to No and press [] to return to the previous screen. When you select Sent Items and it contains no text messages, the display shows List Empty.

Receiving a Text Message







When your radio receives a message, the display shows the alias or ID of the sender and the Message icon at the far left of the screen.

You can select one of the following options when receiving a text message:

- ✦ Read?
- ✦ Read Later
- ✦ Delete

Reading a Text Message

Procedure:

1. Press [] or [] to Read? And press [] to select.
 2. Selected message in the Inbox opens, press [] to return to Home Screen or press [] or [] enter into Read Later or Delete option screen.
- ✦ Select Read Later to return to the screen you were on prior to receiving the text message.
 - ✦ Select Delete to delete the text message.


Managing Received Text Message

Use the Inbox to manage your text messages. The Inbox is capable of storing a maximum of 50 messages.

Your radio supports the following options for text messages:









- ✦ Reply
- ✦ Forward
- ✦ Delete
- ✦ Delete All

Text message in the Inbox are sorted according to the most recently received.

NOTE: Press [] at any time to return to the previous screen.


















Viewing a Text Message from the Inbox

Procedure:

1. Press [] to access the menu.
2. Press [] or [] to Messages and press [] to select.
3. Press [] or [] to Inbox and press [] button.
4. Press [] or [] to view the messages.
5. Press [] to select current message, and press [] again to reply, forward or delete that message.
Unread messages are indicated with an exclamation mark. (!).

Replying to a Text Message from the Inbox

Procedure:

1. Press [] to access the menu
2. Press [] or [] to Message and press [] to select.
3. Press [] or [] to Inbox and press [] to select.
4. Press [] or [] to the required message and press [] to button.
5. Press [] once more to access the sub-menu.
6. Press [] or [] to Reply and press [] to select.
7. Press [] or [] to Write and press [] button. A blinking cursor appears. Use the keypad to write

your message. OR press [◀] or [▶] to Quick Text and press [OK] to select. After selecting the needed message press [OK] button. A blinking cursor appears. Use the keypad to edit your message, if required.

8. Press [OK] to select Send and press [OK] button once message is completed.
9. The display shows Text Message: <Subscriber/Group Alias or ID>, confirming your message is being sent.
10. If the message is sent successfully, a tone sounds and the display shows Message Sent. OR if the message cannot be sent, the display shows Message Send Failed. If the message fails to send, the radio returns to the Resend option screen.

Deleting a Text Message from the Inbox

Procedure:

1. Press [menu] access the menu.
2. Press [◀] or [▶] to Messages and press [OK] to select.
3. Press [◀] or [▶] to Inbox and press [OK] to select.
4. Press [◀] or [▶] to the required message and press [OK] to select.
5. Press [OK] once more to access the sub-menu.
6. Press [◀] or [▶] to Delete and press [OK] button.
7. At Delete Message?, press [◀] or [▶] to Yes and press [OK] . The display shows Message Deleted.

Deleting All Text Messages from the Inbox

Procedure:

1. Press [menu] to access the menu.
2. Press [◀] or [▶] to Messages and press [OK] to select.
3. Press [◀] or [▶] to Inbox and press [OK] to select.
4. Press [◀] or [▶] to Delete All and press [OK] button.
5. At Delete Message?, press [◀] or [▶] to Yes and press [OK] button.
6. The display shows Inbox Cleared.

When you select the Inbox and it contains no text messages, the display shows List Empty.

Privacy

If enabled, this feature helps to prevent eavesdropping by unauthorized users on a channel by the use of a software based scrambling solution. Your radio must have privacy enabled on the channel to send a privacy-enabled transmission.

To unscramble a privacy-enabled call or data transmission, your radio must be programmed to have the same Key Value and Key ID as the transmitting radio.

If your radio receives a scrambled call that is of a different Key Value and Key ID, you will hear chaos sound. You can preprogram 16 groups privacy, encryption keys by software, press programmed Privacy button to

Turn On or Turn off Privacy.

If the radio has a privacy type assigned, the Home screen shows the secure or insecure icon.

Dual Tone Multi Frequency (DTMF)

DTMF receive/transmit signal has four systems (set by software), can set 32 groups encode, each group can set 30 characters.

Called party: called party can set the response type via software, as follows:

Kill: after radio receive Kill code, radio disable to receive/transmit.

Active: when radio in Kill status, receiving active code radio return to normal.


Kill/Active function















You can Kill or Active any radio in the system. For example, you may want to stop using the stolen radio, to prevent thieves using it and enable it when it returns back.

NOTE: Execute radio Kill or Active only suitable the radio has active function and Private Call only.

Radio Kill















Procedure:


1. Press [] access to menu.

2. Press [] or [] to Contacts and press [] to select.
3. Press [] or [] to required alias or ID and press [] to select. OR
press [] or [] to Manual Dial and press [] twice, input subscriber ID and press [] to select.
4. Press [] or [] to Radio Kill and press [] to select.
5. The display shows Radio Kill: <Subscriber alias or ID> and LED indicator lights red.
6. If successful, a tone sounds and display shows Radio Kill successfully. OR if failed, a tone sounds and display shows Radio Kill failed. During operate radio kill, do not press [] button, because you will not get the confirmation information.

Radio Active

Procedure:

1. Press [] access to menu.
2. Press [] or [] to Contacts and press [] to select.
3. Press [] or [] to required alias or ID and press [] to select. OR
press [] or [] to Manual Dial and press [] twice, input subscriber ID and press [] to select.
4. Press [] or [] to Radio Active and press [] to select.










5. The display shows Radio Active: <Subscriber alias or ID>.
6. If successful, a tone sounds and display shows Radio Active successfully. OR if failed, a tone sounds and display shows Radio Active failed. During operate radio Active, do not press [] button, because you will not get the confirmation information.

Scan

Scan lists are created and assigned to individual channels/groups. Your radio can support up to 250 scan lists, with a maximum of 16 members in a list. Each scan list supports a mixture of both analog and digital entries. You can add, delete, or prioritize channels by editing a scan list.

Viewing an Entry in the Scan List

Procedure:

1. Use the Channel Selector Knob to select a channel programmed with a scan list.
2. Press [] to access menu.
3. Press [] or [] to Scan and press [] to select.
4. Press [] or [] to View List and press [] to select.
5. Use [] or [] to view each member on the list.

If set priority, the Priority icon appears left of the member's alias, indicate whether the member is on a Priority

1 or Priority 2 channel list. You cannot have multiple Priority 1 or Priority 2 channels in a scan list. There is no Priority icon if priority is set to None.

Scan Instructions and Methods

When you start a scan, your radio cycles through the programmed scan list for the current channel looking for voice activity. The LED blinks red and you see the Scan icon on the display.





There are two ways of initiating scan:


- ✦ **Manual Scan:** Initiate scan according to the programmed Scan ON/Off button or menu function. When initiate scan, radio will detect all channels/groups on the programmed scan list.
- ✦ **Auto Scan:** Your radio automatically starts scanning when you select a channel/group that has Auto Scan enabled.

Starting and Stopping Scan

Procedure:

Press the programmed Scan button to start or stop Scan OR follow the procedure below:

1. Use the Channel Selector Knob to select a channel programmed with a scan list.
2. Press [] access to menu.
3. Press [] or [] to Scan and press [] to select.

4. The display shows Turn Off if scan is disabled. OR the display shows Turn on if scan is enabled.
5. Press [] to select.
6. The LED blinks red and the Scan icon is displayed when Scan is enabled. OR the LED turns off and the Scan icon is not displayed when Scan is disabled.

Responding to a Scan

During scanning, your radio stops on a channel/group where activity is detected. The radio stays on that channel for a programmed time period known as "hang time".

Procedure:











1. Hold the radio vertically 1 to 2 inches (2.5 to 5.0 cm) from your mouth. If the Channel Free indication feature is enabled, the transmitting radio releases the PTT button, you will hear a short alert tone, indicating the channel is free for you to respond.
2. Press the PTT button during hang time. The LED lights up red.
3. Release PTT button to listen.
4. If you do not respond within the hang time, the radio continues scanning other channels/groups.

Utilities

Keypad locked and Keypad unlocked

You can lock your radio's keypad to avoid inadvertent key entry.








Procedure:

1. Press [] to access the menu.
2. Press [] or [] to Utilities and press [] to select.
3. Press [] or [] to Radio Settings and press [] to select.
4. Press Utilities to Keypad Lock and press [] to select.
5. The display shows Keypad Locked and returns to the Home screen.
6. To unlock the keypad, press [] button then press [] button.
7. The display shows Keypad Unlocked and returns to the Home screen.









Turning Keypad Tones On or Off

You can enable and disable keypad tones if needed.

Procedure:

1. Press [] to access the menu.
2. Press [] or [] to Utilities and press [] to select.
3. Press [] or [] to Radio Settings and press [] to select.

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4. Press [] or [] to Tones/Alerts and press [] to select.
5. Press [] or [] to Keypad Tones and press [] to select.
6. The display shows Turn On, Press [] to enable keypad tones. The display shows Keypad Tone On.
OR the display shows Turn Off. Press [] to disable keypad tones. The display shows Keypad Tone Off.












Setting the Squelch Level

You can adjust your radio's squelch level to filter out unwanted calls with low signal strength or channels that have a higher than normal background noise.

Settings: Normal is the default. Tight filters out (unwanted) calls and/or background noise. However, calls from remote locations may also be filtered out.

Press the programmed Squelch button to toggle squelch level between normal and tight.

Procedure:

1. Press [] to access the menu.
2. Press [] or [] to Utilities and press [] to select.
3. Press [] or [] to Radio Settings and press [] to select.
4. Press [] or [] to Squelch and press [] to enter sub-menu.
5. Choose either Tight or Normal and press [] button, screen returns to the previous menu.

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Setting the Power Level

You can customize your radio's power setting to high or low for each channel.

Settings: High enables communication with radios located at a considerable distance from you. Low enables communication with radios in closer proximity.

Press the programmed Power Level button to toggle transmits power level between high and low.

Procedure:

1. Press [] to access the menu.
2. Press [] or [] to Utilities and press [] to select.
3. Press [] or [] to Radio Settings and press [] to select.
4. Press [] or [] to Power and press [] button.
5. Change your current setting as prompted on the display.
6. Press [] button to select a new power level.
Press [] button to return to the Home screen. The display shows the Power Level icon.

Turning the Voice Operating Transmission (VOX) Feature On or Off













This feature allows you to initiate a hands-free voice activated call on a programmed channel.

NOTE: Turning this feature on or off is limited to radios with this function enabled.

Press the programmed VOX button to toggle the feature on or off.

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Follow the procedure below:

1. Press [] to access the menu.
2. Press [] or [] to Utilities and press [] to select.
3. Press [] or [] to Radio Settings and press [] to select.
4. Press [] or [] to VOX and press [] to select.
5. The display shows VOX On. Press [] to enable VOX and display shows VOX On. OR the display shows VOX Off. Press [] to disable VOX and display shows VOX Off.

Controlling the Display Backlight

You can enable or disable the radio's display backlight as needed. The setting also affects the Menu Navigation Buttons and keypad backlighting accordingly.

Procedure:

1. Press [] to access the menu.
2. Press [] or [] to Utilities and press [] to select.
3. Press [] or [] to Radio Settings and press [] to select.
4. Press [] or [] to Backlight and press [] button.
5. The display shows Auto On. Press [] to enable the display backlight. The display shows Backlight Auto On. OR the display shows Turn Off. Press [] to disable the display backlight. The display shows

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Backlight Turn Off.












The display backlight and keypad backlight are automatically turned off if the LED indicator is disabled.

Talkaround

You can continue to communicate when your repeater is not operating, or when your radio is out of the repeater's range but within talking range of other radios. This is called "talkaround".

Press the programmed Repeater/Talkaround button to toggle between talkaround and repeater modes.
















Procedure:

1. Press [] to access the menu.
2. Press [] or [] to Utilities and press [] to select.
3. Press [] or [] to Radio Settings and press [] to select.
4. Press [] or [] to Talkaround and press [] to select.
5. You see Turn On if the radio is currently in Repeater mode. OR you see Turn Off if the radio is currently in Talkaround mode.
6. Press [] to select.
7. The display shows Talkaround On. Or the display shows Talkaround Off.
8. The screen automatically returns to the previous menu.

Turning the Radio Tones/Alert On or Off

You can enable and disable all radio tones and alerts (except for the incoming Emergency alert tone) if needed.














Procedure:

1. Press [] to access the menu.
2. Press [] or [] to Utilities and press [] to select.
3. Press [] or [] to Radio Settings and press [] to select.
4. Press [] or [] to Tones/Alerts and press [] to enter sub-menu.
5. Press [] or [] to All Tones and press [] button.
6. The display shows Turn On. Press [] to enable all tones and alerts. The display shows All Tones On.
OR the display shows Turn Off. Press [] to disable all tones and alerts. The display shows All Tones Off.

Chinese-English Shift













You can switch Chinese-English if needed.

Procedure:

1. Press [] to access the menu.
2. Press [] or [] to Utilities and press [] to select.
3. Press [] or [] to Radio Settings and press [] to select.
4. Press [] or [] to Language select and press [] to sub-menu.
5. Press [] or [] to select Chinese-English display and press [] button.

Turning the LED Indicator On or Off












You can enable and disable the LED Indicator if needed.

1. Press [] to access the menu
2. Press [] or [] to Utilities and press [] to select.
3. Press [] or [] to Radio Settings and press [] to select.
4. Press [] or [] to LED Indicator and press [] button.
5. The display shows Turn. Press [] to enable the LED Indicator. The display shows All LEDs On. OR the display shows Turn Off. Press [] to disable the LED Indicator. The display shows All LEDs Off.
The display backlight, buttons and keypad backlight are automatically turned off if the LED indicator is disabled.

Turning the Introduction Screen On or Off

You can enable and disable the Introduction Screen if needed.

Procedure:


1. Press [] to access the menu.
2. Press [] or [] to Utilities and press [] to select.
3. Press [] or [] to Radio Settings and press [] to select.
4. Press [] or [] to Intro Screen and press [] to select.
5. The display shows Turn On. Press [] to enable the Introduction Screen. The display shows Intro

Screen On, OR the display shows Turn Off. Press [] to disable the Introduction Screen. The display shows Intro Screen Off.

Accessing General Radio Information











Your radio contains information on the following:

- ✦ Radio ID
- ✦ Software version
- ✦ Codeplug Version

NOTE: Press [] at any time to return to the previous screen.

Checking the Radio ID











Procedure:

1. Press [] to access the menu
2. Press [] or [] to Utilities and press [] to select.
3. Press [] or [] to Radio Info and press [] to select
4. Press [] or [] to My Number and press [] button.
5. The display shows radio ID and alias

Checking the Firmware Version

Display the firmware version on your radio.











Procedure:

1. Press [] to access the menu.
2. Press [] or [] to Utilities and press [] to select.
3. Press [] or [] to Radio Info and press [] to select.
4. Press [] or [] to Firmware Ver. and press [] button.
5. The display shows the current firmware version.

Checking the Codeplug Version

Display the codeplug version on your radio.

Procedure:

1. Press [] to access the menu.
2. Press [] or [] to Utilities and press [] to select.
3. Press [] or [] to Radio Info and press [] to select.
4. Press [] or [] to CP Ver. and press [] button.
5. The display shows the current codeplug version.

General	
Model	1000
Channel spacing	Digital:12.5KHz Analog:12.5KHz/25KHz
Working voltage	DC 7.4V
Frequency	136-174MHz or 400-470Mhz
Operating Temperature	(-25℃)~+60℃
Storage Temperature	(-40℃)~+80℃
Weight	320g
Size: HxWxD(mm)	135x63x38(exclude antenna)
Waterproof level	IP67

RECEIVE			
Frequency Stability	+/- 2.5ppm	Co-channel rejection	8dB
Digital sensitivity	0.3uV/-117.4dBm (BER 5%) 0.7uV/-110dBm (BER 1%)	Spurious response rejection	70dB
Intermodulation	60dB	Receive Spurious radiation	-57dBm@<1GHz, -47dBm@>1GHz
Adjacent Channel Selectivity	60dB@12.5KHz	Block	84dB
		Rated Audio Power	1W
TRANSMITTER			
Transmit power	≤ 5W	Idle slot power	2.5KHz@12.5KHz
FM noise	-40dB@12.5KHz	Audio response	-57dBm
Transmit Spurious radiation	-36dBm@<1GHz, -30dBm@>1GHz	Digital transmission bit error rate	+1dB ~ -3dB
Adjacent Channel power	-60dB@12.5KHz	4FSK Digital modulation	≤ 3%
Modulation limit	12.5KHz(data only):7K60FXD 12.5KHz(data + voice):7K60FXE		