MOTOTRBO™
PROFESSIONAL DIGITAL TWO-WAY RADIO

XiR P8808R 3-Button Portable Radio User Guide

MARCH 2023

MN008334A01-AA

Contents

Legal and Support

Intellectual Property and Regulatory Notices

Copyrights

The Motorola Solutions products described in this document may include copyrighted Motorola Solutions computer programs. Laws in the United States and other countries preserve for Motorola Solutions certain exclusive rights for copyrighted computer programs. Accordingly, any copyrighted Motorola Solutions computer programs contained in the Motorola Solutions products described in this document may not be copied or reproduced in any manner without the express written permission of Motorola Solutions.

No part of this document may be reproduced, transmitted, stored in a retrieval system, or translated into any language or computer language, in any form or by any means, without the prior written permission of Motorola Solutions, Inc.

Trademarks

MOTOROLA, MOTO, MOTOROLA SOLUTIONS, and the Stylized M Logo are trademarks or registered trademarks of Motorola Trademark Holdings, LLC and are used under license. All other trademarks are the property of their respective owners.

License Rights

The purchase of Motorola Solutions products shall not be deemed to grant either directly or by implication, estoppel or otherwise, any license under the copyrights, patents or patent applications of Motorola Solutions, except for the normal non-exclusive, royalty-free license to use that arises by operation of law in the sale of a product.

Open Source Content

This product may contain Open Source software used under license. Refer to the product installation media for full Open Source Legal Notices and Attribution content.

European Union (EU) and United Kingdom (UK) Waste of Electrical and Electronic Equipment (WEEE) Directive

The European Union's WEEE directive and the UK's WEEE regulation require that products sold into EU countries and the UK must have the crossed-out wheelie bin label on the product (or the package in some cases). As defined by the WEEE directive, this crossed-out wheelie bin label means that customers and end-users in EU and UK countries should not dispose of electronic and electrical equipment or accessories in household waste.

Customers or end-users in EU and UK countries should contact their local equipment supplier representative or service centre for information about the waste collection system in their country.

Disclaimer

Please note that certain features, facilities, and capabilities described in this document may not be applicable to or licensed for use on a specific system, or may be dependent upon the characteristics of a specific mobile subscriber unit or configuration of certain parameters. Please refer to your Motorola Solutions contact for further information.

Legal and Compliance Statements

Important Safety Information

RF Energy Exposure and Product Safety Guide for Portable Two-Way Radios

⚠️ **CAUTION:**
This radio is restricted to Occupational use only. Before using the radio, read the RF Energy Exposure and Product Safety Guide that comes with the radio. This guide contains operating instructions for safe usage, RF energy awareness, and control for compliance with applicable standards and regulations.

This radio is designed to meet General Population usage. (Applicable to PMUE4426B only) Before using the radio, read the RF Energy Exposure and Product Safety Guide that comes with the radio. This guide contains operating instructions for safe usage, RF energy awareness, and control for compliance with applicable standards and regulations.

Regulatory Compliance Information

China

The CMIIT ID is shown on the radio equipment identification label.

Chapter 1

Read Me First

This user guide covers the basic operations of the radio models offered in your region.

Notations Used in This Manual

Throughout the text in this publication, you notice the use of **Warning**, **Caution**, and **Notice**. These notations are used to emphasize that safety hazards exist, and the care that must be taken or observed.

WARNING: An operational procedure, practice, or condition, and so on, which may result in injury or death if not carefully observed.

CAUTION: An operational procedure, practice, or condition, and so on, which may result in damage to the equipment if not carefully observed.

NOTE: An operational procedure, practice, or condition, and so on, which is essential to emphasize.

Special Notations

The following special notations are used throughout the text to highlight certain information or items:

Table 1: Special Notations

Example	Description
Menu key or **PTT** button	Bold words indicate a name of a key, button, or soft menu item.
Your radio shows `Bluetooth On`.	Typewriter words indicate the MMI strings or messages displayed on your radio.
`<required ID>`	The courier, bold, italic, and angle brackets indicate user input.
Setup→Tone→All Tones	Bold words with the arrow in between indicate the navigation structure in the menu items.

Feature and Service Availability

Your dealer or administrator may have customized your radio for your specific needs.

NOTE:
- Not all features in the manual are available in your radio. Contact your dealer or administrator for more information.

You can consult your dealer or system administrator about the following:

- What are the functions of each button?
- Which optional accessories may suit your needs?
- What are the best radio usage practices for effective communication?
- What maintenance procedures promote longer radio life?

1.1
Software Version

All the features described in the following sections are supported by the software version **R02.22.03.1000** or later.

Contact your dealer or administrator for more information.

Chapter 2

Introduction

This user guide is written as per the highest tier model offered to the region.

The following table describes ways to access features for different radio models. You receive different indications depending on the radio model.

Table 2: The Feature Access and Indications of Different Radio Model

	Display	**Non-Display**
Radio Model	**Figure 1: XiR P8808R**	**Figure 2: XiR P8808R**
Feature Access	• Menu • Programmable Button	Programmable Button
Feature Indication	• Tone • LED indicator • Display • Voice Announcement or Text-to-Speech	• Tone • LED indicator • Voice Announcement or Text-to-Speech

> **NOTE:** To understand which feature is available with the **Programmable Button**, you can refer to the Programmable Buttons on page 18 topic.

Chapter 3

Radio Care

This section describes the basic handling precaution of the radio.

Table 3: IP Specification

IP Specification	Description
IP68	Allows your radio to withstand two meters of water for two hours, and adverse field conditions such as water drops, snow, dirt, grease, or other surface contaminants.

⚠ **CAUTION:** Do not disassemble your radio. This could damage radio seals and result in leak paths into the radio. Radio maintenance should only be done in service depot that is equipped to test and replace the seal on the radio.

- If your radio has been submersed in water, shake your radio well to remove any water that may be trapped inside the speaker grille and microphone port. Trapped water could cause decreased audio performance.

- If your battery contact area has been exposed to water, clean and dry battery contacts on both your radio and the battery before attaching the battery to radio. The residual water could short-circuit the radio.

- If your radio has been submersed in a corrosive substance (for example, saltwater), rinse radio and battery in fresh water then dry radio and battery.

- To clean the exterior surfaces of your radio, use a diluted solution of mild dishwashing detergent and fresh water (for example, one teaspoon of detergent to one gallon of water).

- Never poke the vent (hole) located on the radio chassis below the battery contact. This vent allows for pressure equalization in the radio. Doing so may create a leak path into radio and submersibility may be lost.

- Never obstruct or cover the vent, even with a label.

- Ensure that no oily substances come in contact with the vent.

- Your radio is designed to be submersible to a maximum depth of 2 m and a maximum submersion time of 120 minutes. Exceeding maximum limit may result in damage to your radio.

Chapter 4

Getting Started

This chapter provides instructions on how to prepare your radio for use.

4.1
Charging the Battery

Your radio is powered by a Nickel Metal-Hydride (NiMH) or Lithium-Ion (Li-Ion) battery.

Prerequisites: Turn off your radio when charging.

Procedure:

- Charge your battery only in non-hazardous areas. After battery is charged, allow your radio to rest for at least 3 minutes.
- To comply with warranty terms and avoid damage, charge the battery using a Motorola Solutions authorized charger as described in the charger user guide.
- Charge a new battery 14 to 16 hours before initial use for best performance.

  Batteries charge best at room temperature.
- Charge your IMPRES™ battery with an IMPRES charger for optimized battery life and valuable battery data.

4.2
Attaching the Battery

Procedure:

1 Align the battery with the rails on the back of the radio.

2 Press the battery firmly, and slide upwards until the latch snaps into place.

3 Slide battery latch into lock position.

Postrequisites:

> **NOTE:**
> If the radio is attached with the wrong battery, your radio shows the following indications:
>
> - A low pitched warning tone sounds.
> - The red LED blinks.
> - The display shows `Wrong Battery`
> - Voice Announcement or Text-to-Speech sounds "Wrong Battery" if the Voice Announcement or Text-to-Speech is loaded by using CPS.
>
> If the radio is attached with an unsupported battery, your radio shows the following indications:
>
> - An alert tone sounds.
> - The display shows `Unknown Battery.`
> - Battery icon is disabled.
>
> The certification of the radio is voided if you attach a UL battery to an FM approved radio or vice versa.
>
> If your radio is attached with an unsupported, wrong, or unrecognized battery, immediately swap with the correct battery.

4.3
Removing the Battery

Prerequisites: Ensure that your radio is turned off.

Procedure:

Move the battery latch into unlock position and hold, and slide the battery down and off the rails.

4.4
Attaching the Antenna

Procedure:

1 Set the antenna in the receptacle.

2 Turn the antenna clockwise.

> **NOTE:** Fastening the antenna blocks water and dust from entering the radio.

> **CAUTION:** To prevent damages, replace the faulty antenna with only MOTOTRBO antennas.

4.5
Removing the Antenna

Procedure:

1 Turn the antenna counterclockwise.

2 Remove the antenna from the receptacle.

4.6
Attaching the Carry Holster

Procedure:

1 Align the rails on the carry holster with the grooves on the battery.

2 Press downwards until you hear a click.

4.7
Attaching the Universal Connector Cover

Procedure:

1 Insert the slanted end of the cover into the slots above the universal connector.

2 Press downwards on the cover to seat the cover properly on the universal connector.

3 Secure the connector cover to the radio by turning the thumbscrew clockwise.

4.8
Removing the Universal Connector Cover

Procedure:

1 Turn the thumbscrew counterclockwise.

2 Slide the connector cover up and out of the slanted end of the universal connector.

Postrequisites: Replace the dust cover when the universal connector is not in use.

4.9
Cleaning the Universal Connector Cover

When and where to use: If the radio is exposed to water, dry the universal connector before attaching an accessory or replacing the dust cover. If the radio is exposed to salt water or contaminants, perform the following cleaning procedure.

Procedure:

1 Mix one tablespoon of mild dishwashing detergent with one gallon of water to produce a 0.5% solution.

2 Clean only the external surfaces of the radio with the solution. Apply the solution sparingly with a stiff, nonmetallic, short-bristled brush.

3 Dry the radio thoroughly with a soft and lint-free cloth. Ensure the contact surface of the universal connector is clean and dry.

4 Apply Deoxit Gold Cleaner or Lubricant Pen (Manufacturer CAIG Labs, Part number G100P) on the contact surface of the universal connector.

5 Attach an accessory to the universal connector to test the connectivity.

Postrequisites:

> **NOTE:** Do not submerge the radio in water. Ensure excess detergent does not get trapped in between the universal connector, controls, or crevices.

Clean the radio once a month for maintenance. For a harsher environment such as in petrochemical plants or in a high salt density marine environment, clean the radio more often.

4.10
Turning the Radio On

Procedure:

>   Turn the **On/Off/Volume** knob clockwise until a click sounds.

If your radio is turned on, your radio shows the following indications:

- A tone sounds.

>   📝   **NOTE:** If the Tones/Alerts function is disabled, no tone sounds.

- The red LED illuminates.
- The Home screen lights up.

>   📝   **NOTE:**
>   If the LED indicator is disabled, the Home screen does not light up.
>
>   If your radio fails to turn on although your battery is charged and properly attached, contact your dealer for assistance.

4.11
Turning the Radio Off

Procedure:

>   Turn the **On/Off/Volume** knob counterclockwise until a click sounds.

The display shows `Powering Down`.

4.12
Adjusting the Volume

Procedure:

1 Perform one of the following actions:

- To increase the volume, turn the **On/Off/Volume** knob clockwise.
- To decrease the volume, turn the **On/Off/Volume** knob counterclockwise.

>   📝   **NOTE:**
>   Your radio can be programmed to have a minimum volume offset where the volume level cannot be lowered past the programmed minimum volume.

Chapter 5

Radio Overview

Radio overview explains the buttons, icons, and LED indications of your radio.

Radio Overview

Table 4: Callout Legend

Label	Button Name	Description
1	Channel Selector knob	To select channel.
2	On/Off/Volume knob	To turn your radio on or off and adjust volume.
3	LED Indicator	The red, green, and orange light-emitting diodes indicate operating status.
4	Side buttons	These buttons are field programmable using the Customer Programming Software (CPS).
5	Push-To-Talk (PTT) button	To execute voice operations (for example, Group Call and Private Call).
6	Microphone	Allows the voice to be sent when PTT or voice operations are activated.
7	Side buttons	These buttons are field programmable using the Customer Programming Software (CPS).

Label	Button Name	Description
8	Menu Select buttons[1]	Three buttons to provide menu navigation and selection interface.
9	Liquid Crystal Display (LCD)	Transflective color display provides visual information about many radio features.
10	Speaker	Outputs all tones and audio that are generated by the radio (for example, features like keypad tones and voice audio).
11	Emergency button	To turn on and off the Emergency Operations.
12	Antenna	Provides the needed RF amplification when transmitting or receiving.

5.1

Programmable Buttons

You can program the programmable buttons as shortcuts to the following radio functions through programming software.

NOTE: Contact your dealer for more information.

Table 5: Assignable Radio Functions

Function	Description
Acoustic Feedback (AF) Suppressor	Allows you to toggle the AF Suppressor feature to on or off.
All Alert Tones	Allows you to toggle all tones and alerts to on or off.
Audio Toggle	Allows you to toggle the audio routing between internal radio speaker and the wired accessory speaker.
Battery Indicator	Allows you to check the current status of the battery level.
Beacon	Allows you to toggle the Beacon to on or off.
Beacon Reset	Allows you to reset the Beacon tone without disabling the beacon.
Busy Queue Cancellation	When a non-Emergency call is initiated in a Busy Queue, this allows you to exit the busy mode. When a Emergency call is accepted in a Busy Queue, you cannot cancel it.
Call Alert	Allows you to direct access to the contacts list and select the required contact to send call alert.
Call Forwarding	Allows you to toggle the Call Forwarding to on or off.
Call Log	Allows you to select the call log list.
Cancel	Allows you to cancel an ongoing call. If call type is Group Call, then only call initiator can use this button to cancel an ongoing call. If call type is Private Call, then both the call initiator and receiver can use this button to cancel an ongoing call (applicable to Display model only).

---

[1] Not for Non-Keypad models.

Function	Description
Channel Announcement	Allows you to play zone and channel announcement voice messages in the current channel.
Confirm	Allow you to confirm a feature.
Contacts	Provides direct access to the contacts list.
Display Mode	Allows you to toggle to day or night mode
Emergency Off	Allows you to terminate an outgoing emergency call.
Emergency On	Allows you to set up an emergency call.
Global Navigation Satellite System (GNSS) On or Off	Allows you to toggle the satellite navigation system on or off.
Indoor Location	Allows you to toggle the Indoor Location to on or off.
Intelligent Audio	Allows you to toggle intelligent audio to on or off.
Man Down Alarms	Allows you to toggle the Man Down alarms to on or off.
Man Down Alarms Reset	Allows you to cancel the Man Down alert tone and reset the feature timers without disabling the Man Down Alarms.
Manual Site Roam	Allows you to start the manual site search.
Mic AGC	Allows you to toggle the internal microphone automatic gain control (AGC) to on or off.
Mic Distortion	Allows you to toggle the Microphone Dynamic Distortion Control feature on or off.
Monitor	Allows you to monitor a channel.
Notifications	Allows you to direct access to the notification list.
Nuisance Delete	Allows you to temporarily remove an unwanted channel from the scan list, except the Selected Channel. The nuisance deleted channel will be restored into the scan list, for instance, when radio is powered off and back on again (not applicable in Capacity Plus).
One Touch Access	Allows you to direct access to the predefined call features.
Option Board Feature	Allows you to toggle the option board feature(s) to enable or disable the option board-enabled channels.
Phone	Allows you to direct access to the phone contact list.
Phone Exit	Allows you to terminate a phone call (applicable to Non-Display or Numeric Display model, Digital mode only).
Power Level	Allows you to toggle the transmit power to high or low.
Privacy	Allows you to toggle the privacy to on or off.
Repeater or Talkaround	Allows you to toggle between using a repeater and directly communicating with another radio.
Reset Home Channel	Allows you to select a new home channel.
Ring Alert Type	Allows you to direct access the Ring Alert Type setting.
Roam Request	Allows you to request to search for a different site.
Scan	Allows you to toggle the scan to on or off.

Function	Description
Silence Home Channel Reminder	Allows you to mute the Home Channel Reminder.
Site Info	Allows you to view the current Capacity Max or Other Systems site name and ID.
Site Lock	Allows you to enable the site lock to search only in current site or disable the site lock to search in other sites as well.
Telemetry Control	Allows you to control the output pin on a local or remote radio.
Toggle Call Priority Level	Allows you to enable your radio to enter Call Priority Level High or Normal.
TX Interrupt Remote Dekey	Allows you to stop an on-going voice call by dekeying the transmitting radio or terminate the repeater call hang time in order to free up the channel. This button can also be used to end a Remote Monitor session.
Trill Enhancement	Allows you to toggle the trill enhancement to on or off.
Unassigned	Indicates that the button function has not yet assigned.
Vibrate Style	Allows you to configure the vibrate style.
Voice Announcement	Allows you to toggle the voice announcement to on or off.
Voice Operating Transmission (VOX)	Allows you to toggle the VOX to on or off.
Zone Toggle	Allows you to switch between 2 zones.

5.2

Icons

Icons are only available for radio with display.

Your radio display shows the radio status, text entries, and menu entries.
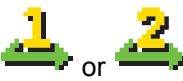
5.2.1

Display Icons

The following icons appear on the status bar at the top of the radio display. The icons are arranged left most in order of appearance or usage, and are channel-specific. The icons are not applicable to PMUE4426A and PMUE4426B.

Table 6: Display Icons

Icon	Description
	Battery
	Call Log
	DGNA

Icon	Description
	Emergency
	Flexible Receive List
	GNSS Available
	GNSS Not Available
	High Volume Data
	Monitor
	Mute Mode[2]
	Notification
	Option Board
	Option Board Non-Function
	Over-the-Air Programming Delay Timer
L or H	Power Level
	Priority Talkgroup 1 or 2
	Received Signal Strength Indicator (RSSI)
	Response Inhibit
	Ring Only
	Scan [3]

---

[2] Only applicable for models with the latest software and hardware.
[3] Not Applicable in Capacity Plus

Icon	Description
	Scan Priority 1 or 2 [3]
	Shared Frequency
	Sign In to Remote Server
	Sign Out from Remote Server
	Secure
	Silent Ring
	Site Roaming
	Status
	Talkaround
	Unsecure
	Vibrate
	Vibrate and Ring
	Vote Scan

5.2.2
Advanced Menu Icons

The following icons appear beside menu items that offer a choice between two options or as an indication that there is a sub-menu offering two options.

Table 7: Advanced Menu Icons

Icon	Description
	Checkbox (Checked)
	Checkbox (Empty)

Icon	Description
■	Solid Black Box

5.2.3
Call Icons

The following icons appear on the display during a call. These icons also appear in the Contacts list to indicate alias or ID type.

Table 8: Call Icons

Icon	Description
	Call Priority High
	Group Call/All Call
	Phone Call as Group or All Call
	Phone Call as Private Call
	Private Call

5.2.4
Mini Notice Icons

The following icons appear momentarily on the display after an action to perform a task is taken.

Table 9: Mini Notice Icons

Icon	Description
	Failed Transmission (Negative)
	Successful Transmission (Positive)
	Transmission in Progress (Transitional)

5.2.5
Sent Items Icons

The following icons appear at the top right corner of the display in the Sent Items folder.

Table 10: Sent Item Icons

Icon	Description
or	In Progress
or	Individual or Group Message Read
or	Individual or Group Message Unread
or	Send Failed
or	Sent Successfully

5.3
LED Indications

The LED Indicator shows the operational status of your radio.

A qualified technician can permanently disable the LED indication by preprogramming it.

Table 11: LED Indications

Indication	Status
Solid Red	The radio is transmitting all types of voice call.
Blinking Red	• The radio is indicating a battery mismatch. • The radio has failed the self-test upon powering up. • The radio is receiving an emergency transmission. • The radio is transmitting in low battery state. • The radio has moved out of range if Auto-Range Transponder System is configured. • Mute Mode is enabled. • The radio encounters charging errors. • The radio is detecting activity or retrieving Over-the-Air Programming transmissions. • The radio programming has failed. • The radio is receiving call or data.
Rapidly Blinking Red	• The radio is receiving Over-the-Air file transfer (Option Board firmware file, Network Frequency file, or Option Board Codeplug file) when in Connect Plus. • The radio is upgrading to a new Option Board firmware file when in Connect Plus.
Solid Yellow	• The radio is monitoring a conventional channel.

Indication	Status
	• Indicates fair battery capacity when **Power/Information** button is pressed.
Blinking Yellow	• The radio has yet to respond to a Call Alert.
	• The radio is scanning for activity.
	• All Capacity-Plus–Multi-Site channels are busy.
Double Blinking Yellow	• The radio has Auto Roaming enabled.
	• The radio is actively searching for a new site.
	• The radio has yet to respond to a Group Call Alert.
	• The radio is locked.
	• The radio is not connected to the repeater while in Capacity Plus.
	• All Capacity-Plus channels are busy.
Solid Green	• The radio is powering up.
	• The radio is transmitting.
	• The radio is sending a Call Alert or an emergency transmission.
	• Indicates full battery capacity when **Power/Information** button is pressed.
Blinking Green	• The radio is receiving a call or data.
	• The radio is retrieving the Over-the-Air Programming transmissions.
	• The radio is detecting activity over the air.
	NOTE: The activity may or may not affect the programmed channel of the radio due to the nature of the digital protocol.
Double Blinking Green	The radio is receiving a privacy-enabled call or data.

Chapter 6

System Overview

System overview explains what type of systems and modes available in the radio.

6.1
Capacity Max

Capacity Max is MOTOTRBO control channel based trunked radio system.

MOTOTRBO digital radio products are marketed by Motorola Solutions primarily to business and industrial users. MOTOTRBO uses the European Telecommunications Standards Institute (ETSI) Digital Mobile Radio (DMR) standard, that is, two-slot Time Division Multiple Access (TDMA), to pack simultaneous voice or data in a 12.5 kHz channel (6.25 kHz equivalent).

6.2
Connect Plus

Connect Plus is a full trunking solution based on DMR technology. Connect Plus uses a dedicated control channel for channel requests and allocations.

6.3
Other Systems

Other Systems include Conventional Analog and Digital modes, IP site connect, and Capacity Plus.

6.3.1
Conventional Analog and Digital Modes

Each channel in your radio can be configured as a conventional analog or conventional digital channel.

Certain features are unavailable when switching from digital to analog mode, whereas some are available in both.

There are minor differences on how each feature works but they do not affect the performance of your radio.

6.3.2
IP Site Connect

This feature allows your radio to extend conventional communication beyond the reach of a single site by connecting to different available sites by using an Internet Protocol (IP) network. This is a conventional multi-site mode.

When the radio moves out of range from one site and into the range of another, the radio connects to the repeater of the new site to send or receive calls or data transmissions. This is done either automatically or manually depending on your settings.

In an automatic site search, the radio scans through all available sites when the signal from the current site is weak or when the radio is unable to detect any signal from the current site. The radio then locks on to the repeater with the strongest Received Signal Strength Indicator (RSSI) value.

In a manual site search, the radio searches for the next site in the roam list that is currently in range but which may not have the strongest signal and locks on to the repeater.

> **NOTE:** Each channel can only have either Scan or Roam enabled, not both at the same time.

Channels with this feature enabled can be added to a particular roam list. The radio searches the channels in the roam list during the automatic roam operation to locate the best site. A roam list supports a maximum of 16 channels, including the selected channel.

> **NOTE:** You cannot manually add or delete an entry in the roam list. Contact your dealer for more information.

6.3.3
Capacity Plus

Capacity Plus is a cost effective and entry-level digital trunked system. It expands the capacity and extends the coverage for single and multi-sites. The single and multi-sites dynamic trunking offers better capacity and coverage.

> **NOTE:** If you try to access a feature not applicable to Capacity Plus–Single-Site or Capacity Plus–Multi-Site by using a programmable button, you hear a negative indicator tone.

Capacity Plus–Single-Site

Capacity Plus–Single-Site is a single-site trunking configuration of the MOTOTRBO radio system, which uses a pool of channels to support hundreds of users and up to 254 groups.

This configuration allows your radio to efficiently utilize the number of available programmed channels while in Repeater Mode.

Your radio also has features that are available in conventional digital mode, IP Site Connect, and Capacity Plus.

Capacity Plus–Multi-Site

Capacity Plus–Multi-Site is a multi-channel trunking configuration of the MOTOTRBO radio system, combining the best of both Capacity Plus and IP Site Connect configurations. It is also known as Linked Capacity Plus.

It allows your radio to extend trunking communication beyond the reach of a single site, by connecting to different available sites which are connected with an IP network. It also provides an increase in capacity by efficiently utilizing the combined number of available programmed channels supported by each of the available sites.

When your radio moves out of range of one site and into the range of another, it connects to the repeater of the new site to send or receive calls or data transmissions. Depending on your settings, this is done automatically or manually.

Automatically
Your radio scans through all available sites when the signal from the current site is weak or unable to detect any signal and locks on to the repeater with the strongest RSSI value.

Manually
Your radio searches for the next site in the roam list that is currently in range which may not have the strongest signal, and locks on to it.

Any channel with Capacity Plus Multi-Site enabled can be added to a roam list. Your radio searches these channels during the automatic roam operation to locate the best site.

> **NOTE:** You cannot manually add or delete an entry in the roam list.

Registration

Supported systems:

☑ Capacity Max ☐ Connect Plus ☐ Other Systems

Your radio may receive registration-related messages from your Capacity Max system.

Registration

Your radio sends registration message to a system when you turn on your radio, change talkgroup, or site roam. If your radio fails to register on site, your radio automatically attempts to roam to another site, and temporarily removes the registration site attempted from the roaming list.

When site searches successfully, your radio shows the following indications:

- A tone sounds.
- The yellow LED double blinks.
- The display shows `Registering`.

When site registered successfully, your radio shows `Site` ***`<Number>`***.

Out of Range

When your radio unable to detect a signal from the system or from the current site, your radio shows the following indications:

- A repetitive tone sounds.
- The RED blinks.
- The display shows `Out of range`.

Talkgroup Affiliation Failed

When your radio fails to attempt affiliation to the talkgroup specified in the channels or Unified Knob Position (UKP) during registration, your radio shows `UKP Alias`.

Registration Denied

When registration with the system is not accepted, your radio shows the following indications:

- The yellow LED double blinks.
- The display shows `Registration Denied`.

Chapter 8

Zone and Channel Selections

Supported systems:

☑ Capacity Max ☑ Connect Plus ☑ Other Systems

A zone is a group of channels. You can program each channel with different features that support different groups of users.

Table 12: Number of Supported Zones and Channels

Model	Zones	Channels	Channels per Zone
Display	250	1000	160
Non-Display	2	32	16

8.1
Selecting Zones

Procedure:

Press the programmed **Zone Toggle** button.

Your radio shows the following indications:

- If your radio is in Zone 2, a positive tone sounds.
- If your radio is in Zone 1, a negative tone sounds.

> **NOTE:** For all Non-keypad radio, you are recommended to enable Voice Announcement feature for selecting zone. The Voice Announcement feature can only be enabled through CPS.

8.2
Selecting Zones Using Alias Search

Procedure:

1. From the menu, select **Zone**.
2. Enter the required characters for the alias.

The display shows *<Zone>* Selected.

> **NOTE:** The alias search is case-insensitive. If there are two or more entries with the same name, the display shows the entry listed first in the list.

.

8.3
Selecting Channels

Procedure:

1 Turn the **Channel Selector** knob.

> **NOTE:** If **Virtual Channel Stop** is enabled, your radio stops proceeding beyond the first or the last channel, and a tone is heard.

Your radio switches to your preferred channel.

Chapter 9

Site Overview

A site provides coverage for a specific area.

In a multi-site network, the system will automatically search for a new site when the signal level from the current site drops to an unacceptable level.

9.1
Site Restriction

Supported systems:

☑ Capacity Max ☑ Connect Plus ☐ Other Systems

For site restriction, your radio dealer has the ability to decide which network sites to be used by your radio.

Your radio does not need to be reprogrammed to change the list of allowed and disallowed sites.

If your radio attempts to register at a disallowed site, your radio receives indication that the site is denied and then searches for a different network site.

When experiencing site restrictions, your radio shows the following indications:

- The yellow LED blinks double indicating site search.

9.2
Site Trunking

Supported systems:

☑ Capacity Max ☐ Connect Plus ☐ Other Systems

Site Trunking is only available with Capacity Max system. A site must be able to communicate with the Trunk Controller to be considered as System Trunking.

If the site cannot communicate with the Trunk Controller in the system, a radio enters Site Trunking mode. While in Site Trunking, the radio provides a periodic audible and visual indication to the user to inform the user of their limited functionality.

When a radio is in Site Trunking, a repetitive tone sounds.

The radios in Site Trunking are still able to make group and individual voice calls as well as send text messages to other radios within the same site. Voice consoles, logging recorders, phone gateways, and data applications cannot communicate to the radios at the site.

Once in Site Trunking, a radio that is involved in calls across multiple sites will only be able to communicate with other radios within the same site. Communication to and from other sites would be lost.

> **NOTE:** If there are multiple sites that cover the current location of the radio and one of the sites enters Site Trunking, the radio roams to another site if within coverage.

9.3
Turning the Site Lock On

Supported systems:

☑ Capacity Max ☑ Connect Plus ☑ Other Systems

Procedure:

Press the programmed **Site Lock** button.

Your radio shows the following indications:

- A positive tone sounds.
- The display shows `Site Locked`.
- The radio searches in the current site only.

9.4
Turning the Site Lock Off

Supported systems:

☑ Capacity Max ☑ Connect Plus ☑ Other Systems

Procedure:

Press the programmed **Site Lock** button.

Your radio shows the following indications:

- A negative tone sounds.
- The display shows `Site Unlocked`.
- The radio searches a list of other sites including the current sites.

9.5
Enabling the Manual Site Search

Supported systems:

☑ Capacity Max ☑ Connect Plus ☑ Other Systems

Procedure:

From the menu, select **Utilities→Radio Settings→Site Roaming→Active Search**.

Your radio shows the following indications:

- A tone sounds.
- The green LED blinks.

If your radio finds a new site, your radio shows the following indications:

- A positive tone sounds.
- The LED extinguishes.

If your radio fails to find a new site, your radio shows the following indications:

- A negative tone sounds.

• The LED extinguishes.

If a new site is within the range, but your radio is unable to connect to it, your radio shows the following indications:

• A negative tone sounds.
• The LED extinguishes.

Chapter 10

Types of Radio Calls

Supported systems:

☑ Capacity Max ☑ Connect Plus ☑ Other Systems

There are several ways that you can make a call with your radio depending on the types of calls and system available on your radio.

Table 13: Types of Radio Calls

Call Type	Capacity Max	Connect Plus	Other System
Group Call A Group Call is a point-to-multi-point call operation. Your radio must be configured as a member of the group for you to communicate with each other.	✓	✓	✓
Broadcast Call A Broadcast Call is a one-way voice call from any user to an entire talkgroup. The Broadcast Call feature allows only the call initiating user to transmit to the talkgroup, while the recipients of the call cannot respond.	✓	✗	✓
Private Call A Private Call is a call from an individual radio to another individual radio. There are two types of Private call which are: • Off Air Call Set-Up (OACSU)[4] • Full Off Air Call Set-Up (FOACSU) [5]	✓	✓	✓
All Call An All Call is a call from an individual radio to every radio on the site or every radio at a group of sites. It is used to make important announcement.	✓	✓	✓

---

[4] OACSU sets up the call after performing a radio presence check and completes the call automatically.

[5] FOACSU sets up the call after performing a radio presence check. FOACSU calls require user acknowledgment to complete the call and allows the user to either Accept or Decline the call.

Call Type	Capacity Max	Connect Plus	Other System
Selective Call A Selective Call is a call from an individual radio to another individual radio. It is a Private Call on an analog system.	✘	✘	✔
Unaddressed Call An Unaddressed Call is a group call to one of the 16 predefined group IDs.	✘	✘	✔
Open Voice Chanel Mode (OVCM) An OVCM is a call from a radio that is not preconfigured to work in a particular system during a group or individual call. The OVCM group call supports broadcast calls.	✘	✘	✔

When a call is interrupted, you hear a continuous Talk Prohibit Tone. Releasing the **PTT** button allows you to receive the call.

Channel Free Indication feature can be programmed on your radio by your dealer. If the Channel Free Indication feature is enabled, you hear a short alert tone when the recipient releases the **PTT** button, indicating the channel is free for you to respond.

10.1
Making Calls on the Radio

Procedure:

1 Perform one of the following actions based on the type of calls:

Option	Actions
Making group calls, private calls, unaddressed calls, or selective calls	**a** Select a channel with an active ID or alias. **b** To call, press and hold the **PTT** button. **c** Wait for the Talk Permit Tone to end, and speak into the microphone.[6] 📝 **NOTE:** For Group Call, you are to wait for the PTT Sidetone to end, and speak into the microphone if enabled. **d** To listen, release the **PTT** button.
Making broadcast calls, all calls, or OVCM calls	**a** Select a channel with an active group ID or alias. **b** To call, press and hold the **PTT** button.

---

[6] Applicable to PMUE4426B only

Option	Actions
	c Wait for the Talk Permit Tone or PTT Sidetone to end, and speak into the microphone.

If your radio does not detect voice activity for a predetermined period, the call ends.

Receiving and Responding to Calls on the Radio

When you receive calls, your radio shows the following indications:

- The red LED illuminates.

- Your radio unmutes and the incoming call sounds through the speaker.

NOTE: You cannot respond to a Broadcast Call and All Call. For Broadcast Call, the Talkback Prohibit tone sounds when the **PTT** button is pressed.

Procedure:

1   To respond, press and hold the **PTT** button.

2   Wait for the Talk Permit Tone to end, and speak into the microphone.

> **NOTE:** For Group Call, wait for the **PTT** Sidetone to end, and speak into the microphone if enabled.

3   To listen, release the **PTT** button.

Accepting or Declining Private Calls

When you receive Private Calls configured as Full Off Air Call Set-Up (FOACSU), your radio shows the following indications:

- The red LED illuminates.

- The display shows the alias and the Private Call icon.

Accepting Private Calls

Procedure:

1   Press and hold the **PTT** button.

2   Wait for the Talk Permit Tone to end, and speak into the microphone.

3   To listen, release the **PTT** button.

Declining Private Calls

Procedure:

Press the programmed **Cancel** button.

Chapter 11

Phone Calls

Supported systems:

☑ Capacity Max ☑ Connect Plus ☑ Other Systems

A Phone Call is a call in between an individual radio or a group of radios and a telephone.

Depending on how the radio is configured, the following features may or may not be made available:

- Access code.
- Dual Tone Multi Frequency (DTMF) tone.
- De-access code.
- Displaying of caller alias or ID on receiving a phone call.
- Ability to reject or accept a phone call.

The Phone Call capability can be enabled by assigning and setting up phone numbers on the system. Contact your dealer to determine how your radio has been programmed.

11.1
Making Phone Calls

Procedure:

1 From the menu, select **Phone→*<required ID>*→*<Access Code>*.**

2 To call, press and hold the **PTT** button.

3 To listen, release the **PTT** button.

4 While you are in the Phone call, you can perform any of the following actions if required:

  - Enter extra digits by using the **Keypad**.

  - To end the call, select the **Back/Home** button.

  - To deaccess a code, enter the deaccess code by using the **Keypad** when the display shows `De-Access Code:`.

If the call ends successfully, your radio shows the following indications:

- A tone sounds.
- The display shows `Call Ended`.

11.2
Dual Tone Multi Frequency

Supported systems:

☑ Capacity Max ☐ Connect Plus ☑ Other Systems

The Dual Tone Multi Frequency (DTMF) feature allows your radio to operate in a radio system with an interface to the telephone systems.

Receiving and Responding to Phone Calls

When you receive a phone call, your radio shows the following indications:

- The red LED illuminates.

- Your radio unmutes and the incoming call sounds through the speaker.

- The display shows the Phone Call icon and the call status.

Procedure:

1 To respond to the phone call, press and hold the **PTT** button.

2 Wait for the Talk Permit Tone to end, and speak into the microphone.

3 To listen, release the **PTT** button.

If there is no voice activity for a predetermined period of time, the call ends and a tone sounds.

Chapter 12

Voice Interrupt

Voice Interrupt allows your radio to end any ongoing calls.

The Voice Interrupt feature uses the reverse channel signaling to interrupt any ongoing calls. You are allowed to make a voice transmission during the interruption.

The Voice Interrupt feature improves the probability of delivering a new call to the recipients when a call is in progress.

Voice Interrupt is accessible if this feature has been programmed in your radio. Contact your dealer for more information.

12.1
Enabling the Voice Interrupt

Procedure:

1 To interrupt the transmission during an on-going call, press and hold the **PTT** button.

2 Wait for the Talk Permit Tone to end, and speak into the microphone.

Chapter 13

Initiating Transmit Interrupt

Supported systems:

☑ Capacity Max ☐ Connect Plus ☑ Other Systems

Procedure:

To interrupt an ongoing call, perform one of the following actions:

- Press the **PTT** button.
- Press the **Emergency** button.
- For Other Systems, perform data transmission.
- For Other Systems, press the programmed **TX Interrupt Remote Dekey** button.

The receiving radio displays `Call Interrupted`.

Chapter 14

Advanced Features

This chapter explains the operations of the features available in your radio.

14.1
Auto Fallback

Supported systems:

☐ Capacity Max   ☑ Connect Plus   ☐ Other Systems

If failures occur in the Connect Plus system, Auto Fallback is a system feature that allows you to continue making and receiving non-emergency calls on the selected Group Contact.

If a failure occurs in the system, your radio attempts to roam to a different Connect Plus site. Your radio searches for an operable Connect Plus site or a Fallback Channel.

A Fallback Channel is a repeater that is normally part of an operable Connect Plus site. This repeater cannot communicate with either the site controller or Connect Plus network at that moment. In Auto Fallback mode, the repeater operates as a single digital repeater. Auto Fallback Mode supports non-emergency Group Calls only. No other call types are supported in Auto Fallback Mode.

If the site returns to a normal trunking operation while you are in the range of your Fallback repeater, your radio automatically exits Auto Fallback Mode. When your radio successfully registers, a tone sounds.

If you are in the range of an operable site that is not in Fallback Mode, you can search and register on an available site by pressing the Roam Request button. If no other site is available, your radio returns to Auto Fallback Mode. If you are out of coverage of your Fallback repeater, your radio enters the Search Mode. The display shows `Searching`.

14.1.1
Indications of Auto Fallback Mode

When your radio is using a Fallback channel, you hear the intermittent Fallback Tone approximately once every 15 seconds (except while transmitting). Your radio only permits PTT on the selected Group Contact (Group Call, Multigroup Call, or Site All Call). It does not allow you to make other types of calls.

14.1.2
Calls in Fallback Mode

Calling in Fallback Mode is similar to making regular Group Calls. You can select Group, Multi-group, or Site All Call contacts. While your radio is operating on the Fallback Channel, the Multi-group operates similarly to other Groups. Only radios that are selected for that Multi-group can communicate on that channel. Calls are not networked to other sites or other repeaters.

Emergency voice calls or Emergency Alerts are not available in Fallback mode. If you press the emergency button in Fallback mode, the radio provides an invalid key press tone. Display-equipped radios also show the message, `Feature not available.`

Private and Phone calls are not available in Fallback mode. If you attempt a call to a private contact, you will receive a denial tone.

Enhanced Traffic Channel Access (ETCA) is not supported in Auto Fallback Mode. If the **PTT** button is pressed on two or more radios at the same time, both radios may transmit until the **PTT** button is released. In this scenario, it is possible that none of the transmissions are understood by the receiving radios.

14.2
Auto-Range Transponder System

Supported systems:

☑ Capacity Max ☐ Connect Plus ☑ Other Systems

The Auto-Range Transponder System (ARTS) is an analog-only feature designed to inform you when your radio is out-of-range of other ARTS-equipped radios.

ARTS-equipped radios transmit or receive signals periodically to confirm that they are within range of each other.

Your radio provides indications as follows:

Table 14: Auto-Range Transponder System Indications

Indication	Description
First-Time Alert	• A tone sounds.
ARTS-in-Range Alert	• A tone sounds, if programmed.
ARTS-Out-of-Range Alert	• A tone sounds. • The red LED rapidly blinks.

14.3
Beacon Feature

Supported systems:

☐ Capacity Max ☑ Connect Plus ☐ Other Systems

The Beacon feature is part of Connect Plus Man Down, a purchasable feature. Your dealer or Radio System Administrator can tell you if the Beacon feature applies to your radio.

If your radio has been enabled and programmed for one or more of the Man Down Alarms, it can also be enabled for the Beacon feature.

If your radio automatically starts an Emergency Call or Emergency Alert due to one of the Man Down Alarms, and if your radio is also enabled for the Beacon feature, the radio starts to periodically emit a high pitched tone approximately once every ten seconds. The interval can vary depending on whether you are talking on your radio. The purpose of the Beacon tone is to help searchers locate you. If your radio has also been enabled for the "Visual Beacon", the radio's backlight comes on for a few seconds every time the Beacon tone plays.

You can stop your radio from playing the Beacon tone by using a programmable button, if your radio has been configured in this manner. This is discussed in the next two sections. If your radio does not have the programmable button or menu option, you can stop the Beacon tone by turning the radio off and then on again, or by changing to a different zone (if your radio has been programmed for more than one zone).

If your radio has been programmed with the Beacon Reset button, you can stop the Beacon Tone without turning off the Beacon feature.

14.3.1
Turning the Beacon On

Procedure:

Press the programmed **Beacon** button.

The display shows a confirmation message.

14.3.2
Turning the Beacon Off

Procedure:

Press the programmed **Beacon** button.

The display shows a confirmation message.

14.4
Call Alert Operation

Supported systems:

☑ Capacity Max ☑ Connect Plus ☑ Other Systems

Call Alert paging enables you to alert the recipient to call you back when they can. This feature is applicable for subscriber aliases or IDs only.

For Capacity Max, the Call Alert feature allows radio users or dispatchers to alert recipients to call back the caller when available. Voice communication is not involved in this feature. Off Air Call Set-Up (OACSU) private calls allows you to respond immediately. Full Off Air Call Set-Up (FOACSU) private calls requires you to acknowledge the call. OACSU type calls are recommended for the Call Alert feature.

14.4.1
Making Call Alerts

Procedure:

Press the programmed **One Touch Access** button.

The display shows `Call Alert` and the subscriber alias or ID.[7] and the red LED blinks.

If the request is successful, a positive indicator tone sounds.

If the request is unsuccessful, a negative indicator tone sounds.

---

[7] Applicable to PMUE4424A only.

14.4.2
Responding to Call Alerts

When you receive a Call Alert, your radio shows the following indications:

- A repetitive tone sounds.

- The yellow LED blinks.

Procedure:

> Respond to the caller with a Private Call by pressing the **PTT** button.

14.5
Call Indicator Settings

Supported systems:

☑ Capacity Max ☑ Connect Plus ☑ Other Systems

This feature allows you to configure call or text message tones.

14.5.1
Configuring the Vibrate Style

Supported systems:

☐ Capacity Max ☑ Connect Plus ☐ Other Systems

Procedure:

> Press the programmed **Vibrate Style** button.

14.5.2
Ring Alert Type

Supported systems:

☐ Capacity Max ☑ Connect Plus ☑ Other Systems

You can program the radio calls to one predetermined vibrate call.

The radio vibrates once if it is a momentary ring style. The radio vibrates repetitively if it is a repetitive ring style. When set to Ring and Vibrate, the radio sounds a specific ring tone if there is any incoming radio transaction (for example, Call Alert or Message). It sounds like a positive indicator tone or missed call.

14.5.2.1
Selecting a Ring Alert Type

You can program the radio calls to one predetermined vibrate call. The radio vibrates once if it is a momentary ring style. The radio vibrates repetitively if it is a repetitive ring style. When set to Ring and Vibrate, the radio sounds a specific ring tone if there is any incoming radio transaction (for example, Call Alert or Message). It sounds like a positive indicator tone or missed call.

Procedure:

> Press the programmed **Ring Alert Type** button.

14.5.3
Escalert Mode Tone

The radio can be programmed to continually alert, when a radio call remains unanswered. This is done by automatically increasing the alarm tone volume over time. This feature is known as Escalert.

14.6
Call Queue

Supported systems:

☑ Capacity Max ☐ Connect Plus ☐ Other Systems

When there are no resources available to process a call, Call Queue enables the call request to be placed in the system queue for the next available resources.

14.6.1
Receiving Call Queues

Procedure:

> Press and hold the **PTT** button until you hear the Call Queue Tone.

A tone is heard and the display shows `Call in Queue`.

If the call is successful, your radio shows the following indications:

- The red LED blinks.
- If enabled, the Talk Permit Tone sounds.

You have up to 4 seconds to press and hold the **PTT** button to begin voice transmission.

If the call is unsuccessful, your radio shows the following indications:

- A negative indicator tone sounds.
- The display shows the failure notice screen[7].
- Radio terminates the call and exits the call setup.

14.7
Dynamic Group Number Assignment

Supported systems:

☑ Capacity Max ☐ Connect Plus ☐ Other Systems

Dynamic Group Number Assignment (DGNA) is a feature that allows the third-party console to assign and remove talkgroup dynamically to a radio from over the air.

When the console assigns DGNA to your radio, your current channel is in DGNA mode and shows the followings:

- A tone sounds.
- The display shows `<DGNA Talkgroup Alias> Assigned` momentarily before returning to the home screen.
- The DGNA icon appears in the status bar.
- The home screen displays DGNA talkgroup alias.

When the console removes DGNA from your radio, your radio restores the previous talkgroup and shows the followings:

- A tone sounds.

- The display shows `<DGNA Talkgroup Alias> Removed` momentarily before returning to the home screen.

- The DGNA icon disappears from the status bar.

- The home screen displays the previous talkgroup alias.

Depending on how your radio is programmed, you can view, edit, and listen to the original scan lists channels and the non-DGNA talkgroups.

When your radio is in DGNA mode, press and hold the **PTT** button action allows you to communicate only with the current DGNA talkgroup. To communicate with the previous non-DGNA talkgroup, program the programmed **One Touch Access** button.

> **NOTE:** Check with your dealer or system administrator to determine how your radio has been programmed.

14.7.1
Making DGNA Calls

Prerequisites: Ensure your current channel is in DGNA mode.

Procedure:

      To call, press and hold the **PTT** button.

Your radio shows the following indications:

- A DGNA tone sounds.

- The display shows the DGNA icon and the alias.

14.7.2
Making Non-DGNA Calls

Procedure:

1 Perform one of the following actions:

- If your radio is in DGNA mode, press the programmed **One Touch Access** button.

  > **NOTE:**
  > If your radio is not in DGNA mode and you press the **One Touch Access** button, your radio sounds a negative tone, indicating error. The display remains unchanged.

- If your radio is not in DGNA mode, press and hold the **PTT** button.

  > **NOTE:**
  > When a PTT button is press before a negative tone sounds, your radio returns to the home screen. When your radio is in the home screen, a PTT press makes a call to the DGNA talkgroup.

Your radio shows the following indications:

- A positive tone sounds.

- Voice Announcement sounds.

- The display shows `<Talkgroup Alias>` and `Press PTT` momentarily.

14.7.3
Receiving and Responding to DGNA Calls

When you receive a DGNA call, your radio shows the following indications:

- A DGNA tone sounds.

- The display shows the DGNA icon and aliases.

- Your radio unmutes and the incoming call sounds through the speaker.

Procedure:

1 To call, press and hold the **PTT** button.

2 To listen, release the **PTT** button.

14.8
Emergency Operation

Supported systems:

☑ Capacity Max   ☑ Connect Plus   ☑ Other Systems

Emergency Alarms are used to indicate critical situations. You can initiate an Emergency Alarm at any time even when there is activity on the current channel.

You can only assign one type of Emergency Mode to the Emergency button for each channel. Your radio supports the following Emergency Modes:

Table 15: Emergency Modes

Emergency Mode	Description
Emergency Alarm	An Emergency Alarm is not a voice call. This alarm is an emergency notification sent to radios that are programmed to receive them.
Emergency Alarm with Call	Your radio transmits an Emergency Alarm. When the Emergency Alarm is acknowledged, the group of radios can communicate over the assigned emergency channel. Press and hold the **PTT** button to talk.
Emergency Alarm with Voice to Follow	Your radio transmits an Emergency Alarm. When the Emergency Alarm is acknowledged, your radio microphone is automatically activated which is known as Hot Mic. Hot Mic allows you to communicate with the group of radios without pressing the **PTT** button. **NOTE:** • If the Emergency Cycle Mode is enabled, repetitions of Hot Mic and receiving period are made for a programmed duration. • If you press and hold the **PTT** button during the programmed Hot Mic receiving period, your radio proceeds to make a call and stops Hot Mic receiving period timer. Your radio remains in emergency mode. Once **PTT** button is released, Hot Mic receiving period timer restarts. • If the Emergency Alarm request fails, the radio does not retry to send the request, and enters the Hot Mic directly.

Emergency Mode	Description
Silent Emergency Alarm	Your radio transmits an emergency notification without any audio or visual indicators.
Silent Emergency Alarm with Call	Your radio transmits an emergency notification without any audio or visual indicators. Your radio suppresses all audio and visual indicators of the emergency until you press and hold the **PTT** button to talk.
Silent Emergency Alarm with Voice to Follow	Your radio transmits an emergency notification without any audio or visual indicators. When the Emergency Alarm is acknowledged, the Hot Mic is activated. You can communicate with the group of radios without pressing the **PTT** button. **NOTE:** The indicators only appear when you press the **PTT** button.

Your dealer can set the Emergency On or Off function and button-press duration of the Emergency button. Contact your dealer for more information.

Your dealer can program the Emergency Search tone. When the tone is programmed, the Emergency Search tone sounds. The tone mutes when your radio transmits or receives voice, and stops when your radio exits Emergency mode.

14.8.1
Ignore Emergency Revert Call

Supported systems:

☐ Capacity Max ☑ Connect Plus ☐ Other Systems

This feature enhancement provides an option for your radio to disregard an active Emergency Revert Call.

To enable Ignore Emergency Revert Call, your radio must be configured through the Connect Plus Customer Programming Software (CPCPS).

Contact with your dealer for more information.

14.8.2
Sending Emergency Alarms

Procedure:

Press the programmed **Emergency On** button.

Your radio shows the following indications[7]:
- The display shows `Tx Alarm` and the destination alias.
- The red LED blinks.
- The Emergency icon appears.

If the alarm is successfully sent, your radio shows the following indications:
- The Emergency tone sounds.
- The green LED blinks.

If the alarm is unsuccessful after all retries, your radio shows the following indications:

- A negative tone sounds.

- The display shows `Alarm Failed`.

14.8.3
Sending Emergency Alarms with Call

Procedure:

1 Press the programmed **Emergency On** button.

   If the alarm is successfully sent, your radio shows the following indications:

   - The Emergency tone sounds.

   - The green LED blinks.

   - For Other Systems[7], the display shows `Alarm Sent`.

2 To call, press and hold the **PTT** button.

3 Wait for the Talk Permit Tone to end, and speak into the microphone.

4 To listen, release the **PTT** button.

   If your radio does not detect voice activity for a predetermined period, the call ends.

14.8.4
Sending Emergency Alarms with Voice to Follow

Procedure:

1 For Capacity Max and Connect Plus, press the programmed **Emergency On** button.

   For Capacity Max, if the alarm is successfully sent, your radio shows the following indications:

   - The green LED blinks.

   - The display shows `Tx Alarm` and the destination alias[7].

   - The display shows `Tx Telegram` and the destination alias[7].

   - The Emergency icon appears.

   For Connect Plus, if the alarm is successfully sent, the green LED blinks and Hot Mic is activated.

2 Speak into the microphone without pressing the **PTT** button.

   Your radio automatically stops transmitting when:

   - The cycling duration between hot mic and receiving calls expires if Emergency Cycle Mode is enabled.

   - The hot mic duration expires if Emergency Cycle Mode is disabled.

3 For Capacity Max and Other system, press the **Emergency Off** button to exit the Emergency mode.

14.8.5
Reinitiating the Emergency Mode

Procedure:

   1 Perform one of the following actions:

      • Change the channel while the radio is in Emergency mode.

         NOTE: You can reinitiate emergency mode only if you enable emergency alarm on the new channel.

      • Press the programmed **Emergency On** button during an emergency initiation or transmission state.

The radio exits the Emergency mode, and reinitiates Emergency.

14.8.6
Exiting the Emergency Mode

Your radio automatically exits emergency mode when you are having the following scenarios:

• An acknowledgment is received from the system (for emergency alarms only).

• All retries to send the alarm are exhausted.

• Turning off your radio. When you turn on your radio, the emergency will not reinitiate automatically.

• Change your current channel to a channel with no Emergency.

Procedure:

   Press the programmed **Emergency Off** button.

If you exited the Emergency successfully, your radio shows the following indications:

• The tone ceases.

• The red LED extinguishes.

• For Capacity Max, when acknowledgment is received, the display of the transmitting radio shows `Cancel Emer Success`, else `Cancel Emer Failed`.

      NOTE: If the Cancel Emergency configuration is enabled on the transmitting radio, the emergency alarm in your receiving radio ceases and the status is added to the Alarm List of the receiving radio.

14.9
Man Down (Fall Alert)

☐ Capacity Max ☑ Connect Plus ☑ Other Systems

The Man Down feature (henceforth known as Fall Alert) enables your radio to alert others when you are in danger.

If your radio tilts at a specified angle, is moving, or is stationary for a time, it prompts you with an Alert Tone. If you do not respond to the prompt before the predefined reminder timer expires, your radio automatically sends an Emergency Alarm or Emergency Call.

To prevent your radio from sending an Emergency Alarm or Emergency Call, you can take the following measures:

- For Tilt Alarm, you must restore the radio to the vertical position.

- For Movement Alarm, you must stop your radio from moving.

- For Anti-Movement Alarm, you must move your radio.

If more than one Man Down Alarm is enabled, your radio plays the Alert Tone when it detects the first movement violation.

> **NOTE:**
> Man Down Alarms are not supported when operating in Fallback Mode.

14.9.1
Setting the Man Down Feature

Procedure:

> Press the programmed **Man Down** button.

14.9.2
Reset Man Down Alarms

Supported systems:

☐ Capacity Max ☑ Connect Plus ☐ Other Systems

You can reset Man Down Alarms without turning the alarm on or off. Resetting Man Down Alarms stops the Man Down Alert Tone and resets the alarm timer. You must still correct the movement violation. If the movement violation is not corrected in a time, your radio plays the Alert Tone again.

14.10
Home Channel Reminder

Supported systems:

☑ Capacity Max ☑ Connect Plus ☑ Other Systems

This feature provides a reminder when the radio is not set to the home channel for a while.

When this feature is enabled and your radio is not set to the home channel for some time, the following indications occur periodically:

- A tone and the Home Channel Reminder announcement sounds.

- The display shows `Non Home Channel`[7].

14.10.1
Muting the Home Channel Reminder

When the Home Channel Reminder sounds, you can temporarily mute the reminder.

Procedure:

> Press the programmed **Silence Home Channel Reminder** button.

87

The display shows `HCR Silenced`.

8

14.10.2
Setting New Home Channels

Procedure:

> Press the **Reset Home Channel** programmable button.

For Capacity Max, the display shows `New Home Ch`[7].

14.11
Indoor Location

Supported systems:

☑ Capacity Max ☐ Connect Plus ☑ Other Systems

> 📝 **NOTE:** Indoor Location feature is applicable for models with the latest software and hardware. Check with your dealer or system administrator for more information.

You can use Indoor Location to keep track of the location of radio users. When Indoor Location is activated, the radio is in a limited discoverable mode. Dedicated beacons are used to locate the radio and determine the position.

14.11.1
Setting the Indoor Location

Procedure:

> Press and hold the programmed **Indoor Location** button.

If Indoor Location successfully turns on, a positive tone sounds.

If Indoor Location does not turn on, a negative tone sounds.

14.12
Lone Worker

Supported systems:

☑ Capacity Max ☐ Connect Plus ☑ Other Systems

This feature prompts an emergency if there is no user activity (button press or channel selector activation) for a predefined time.

When there is no user activity for a predefined time, the radio prewarns you using an audio indicator once the inactivity timer expires.

If there is no acknowledgment from you before the predefined reminder timer expires, the radio initiates an emergency condition as programmed by the dealer.

14.13
Monitor Feature

Supported systems:

☐ Capacity Max   ☐ Connect Plus   ☑ Other Systems

The feature allows you to remotely activate the microphone of a target radio. You can use this feature to monitor any audible activity surrounding the target radio.

📝   **NOTE:** This feature is not applicable in Capacity Plus–Single-Site and Capacity Plus–Multi-Site.

14.13.1
Monitoring Channels

Procedure:

1 Press and hold the programmed **Monitor** button.

   Your radio shows the following indications:

   - The display shows the Monitor icon[7].

   - You hear the radio activity.

   - The yellow LED illuminates[7].

   - The display shows the **Monitor** icon.

2 To call, press and hold the **PTT** button.

3 To listen, release the **PTT** button.

14.13.2
Permanent Monitor

The Permanent Monitor feature is used to continuously monitor a selected channel for activity.

14.13.2.1
Setting the Permanent Monitor

Procedure:

   Press the programmed **Permanent Monitor** button.

When your radio enters the mode, your radio shows the following indications:

- An alert tone sounds.

- The yellow LED illuminates.

- The display shows `Permanent Monitor On` and the Monitor icon.

When your radio exits the mode, your radio shows the following indications:

- An alert tone sounds.

- The yellow LED extinguishes.

- The display shows `Permanent Monitor Off.`

14.14
Priority Monitor

Supported systems:

☑ Capacity Max   ☐ Connect Plus   ☐ Other Systems

Priority Monitor allows your radio to receive transmission from talkgroups with higher priority during talkgroup call. This feature is only applicable to members in Receive Group List.

✐ **NOTE:** This feature can only be accessed when Talkgroup Scan feature is enabled.

Priority talkgroups are Priority 1 (P1) and Priority 2 (P2). Your radio receives transmission according to the following priority:

1 Emergency Call for P1 Talkgroup.

2 Emergency Call for P2 Talkgroup.

3 Emergency Call for non-priority Talkgroup in the Receive Group List.

4 All Call.

5 P1 Talkgroup Call.

6 P2 Talkgroup Call.

7 Non-priority Talkgroup in the Receive Group List.

14.15
Remote Monitor

Supported systems:

☑ Capacity Max   ☐ Connect Plus   ☑ Other Systems

This feature is used to turn on the microphone of a target radio with a subscriber ID. You can use this feature to remotely monitor any audible activity surrounding the target radio.

Both your radio and the target radio must be programmed to allow you to use this feature.

If initiated, the green LED blinks once on the target radio. This feature automatically stops after a programmed duration or when there is user operation on the target radio.

For Other Systems, Remote Monitor comprises of two types:

• Remote Monitor without Authentication

• Remote Monitor with Authentication

When your radio turns on the microphone of a target radio with user authentication, a passphrase is required. The passphrase is preprogrammed into the target radio through the radio programming softwares.

14.15.1
Initiating the Remote Monitor

Procedure:

Press the programmed **Remote Monitor** button.

If the request is successful, your radio shows the following indications:

• A positive tone sounds.

• The display shows a positive mini notice[7].

- The audio from the monitored radio starts playing for a programmed duration, and the display shows `Rem. Monitor`. When the timer expires, an alert tone sounds and the LED turns off[7].

If the request is unsuccessful, your radio shows the following indications:

- A negative tone sounds[7].

- The display shows a negative mini notice.

14.16
Mute Mode

Supported systems:

☑ Capacity Max ☑ Connect Plus ☑ Other Systems

Mute Mode provides an option to silence all audio indicators on your radio.

When Mute Mode is initiated, all audio indicators are muted except higher priority features such as emergency operations.

When Mute Mode is exited, your radio resumes playing ongoing tones and audio transmissions.

Mute Mode can be enabled for a predefined duration by setting the Mute Mode Timer. The duration of the timer is configured through the radio menu and can range between 0.5–6 hours. Mute Mode is exited once the timer expires.

If the timer is left at **0**, the radio remains in Mute Mode for an indefinite period until the radio is moved to a face-up position or the programmed **Mute Mode** button is pressed.

> **IMPORTANT:** You can only enable either Face Down or Man Down one at a time. Both features cannot be enabled together.

14.16.1
Turning the Mute Mode On

Procedure:

Perform one of the following actions:

- Place the radio in a face-down position momentarily.

- Press the programmed **Mute Mode** button.

If Mute Mode is enabled, your radio shows the following indications:

- A positive tone sounds.

- The red LED blinks and continues blinking until Mute Mode is exited.

- The display shows `Mute Mode On`.[7]

- The home screen shows the Mute Mode icon.

- Your radio mutes.

- If the Mute Mode Timer has been set, the timer begins counting down the duration that it is configured.

14.16.2
Exiting the Mute Mode

When the Mute Mode Timer expires, your radio automatically exits Mute Mode. You can also exit Mute mode manually.

Procedure:

Exit Mute Mode manually by performing one of the following actions:

- Press the programmed **Mute Mode** button.
- Press and hold the **PTT** button and speak into the microphone.
- Place your radio in a face-up position momentarily.
- Switch to any unprogrammed channel.

If Mute Mode is disabled, your radio shows the following indications:

- A negative tone sounds.
- The blinking red LED extinguishes.
- The display shows `Mute Mode Off`.[7]
- The Mute Mode icon disappears from the home screen.
- Your radio unmutes and restores the speaker state.
- The Mute Mode Timer stops even if the timer has not expired.

14.17
Over-the-Air Programming

Supported systems:

☑ Capacity Max ☐ Connect Plus ☑ Other Systems

Your dealer can remotely update your radio through Over-the-Air Programming (OTAP) without any physical connection. Some settings can also be configured by using OTAP.

When your radio undergoes OTAP, the red LED blinks.

When your radio receives high volume data, your radio shows the following indications:

- If you press the **PTT** button, a negative tone sounds.
- The display shows the High Volume Data icon.
- The channel becomes busy.

When your radio turns on after automatic restart, your radio shows the following indications:

- If the program update is successful, the display shows `Sw Update Completed`.
- If the program update is unsuccessful, a tone sounds, the red LED blinks once, and the display shows `Sw Update Failed`.

> **NOTE:**
> If the programming update is unsuccessful, the update failure indications appear every time you turn on your radio. Contact your dealer to reprogram your radio with the latest software to eliminate the update failure indications.

14.18
Scan

Supported systems:

☐ Capacity Max ☑ Connect Plus ☑ Other Systems

Depending on the supported system available on your radio, your radio may have different behavior on Scan.

Talkgroup Scan

Talkgroup Scan is available for Capacity Max.

This feature allows your radio to monitor and join calls for groups defined by a Receive Group List.

When scan is enabled, your radio unmute to any member in its Receive Group List. When scan is disabled, your radio does not receive transmission from any members of the Receive Group List, except for All Call, Permanent Talkgroup, and the selected Talkgroup.

Channel Scan

Channel Scan is available for Other Systems.

When you start a scan, your radio scans through the programmed scan list for the current channel looking for voice activity. If you are on a digital channel, and your radio locks onto an analog channel, your radio automatically switches from digital mode to analog mode during the call and the same behavior occurs if you are on analog channel.

Table 16: Scan Methods

Method	Description
Main Channel Scan (Manual)	Your radio scans all the channels or groups in your scan list. When scanning, your radio may, depending on the settings, automatically start on the last scanned active channel or group, or on the channel where scan was initiated.
Auto Scan (Automatic)	Your radio automatically starts scanning when you select a channel or group that has Auto Scan enabled.

When you miss a call from a talkgroup or a channel that is in your scan list, you might be having the following situations:

- Scan feature is not on.

- Scan list member has been disabled through the menu.

- You are already participating in another call.

- For Multi-site system, no member of the scanned group is registered at your current site.

> **NOTE:** If your radio joins a call for a Zone Scan List member from a different Zone and Call Hang Timer expires before you are able to respond, in order to respond, you must navigate to the Zone and Channel of the Scan List Member and start a new call.

14.18.1
Setting the Scan

Procedure:

> Press the programmed **Scan** button to start or stop the Scan.

If scan is turned on, your radio shows the following indications:

- A positive indicator tone sounds.
- The yellow LED blinks.

If scan is turned off, your radio shows the following indications:

- A negative indicator tone sounds.
- The LED extinguishes.

14.18.2
Scan Talkback

☐ Capacity Max ☑ Connect Plus ☐ Other Systems

The Talkback feature allows you to respond to a transmission while scanning.

Depending on how you configure the Scan Talkback feature, you will see two different scenarios if you press the PTT button when your radio scans into a call from the selectable group scan list.

Table 17: Scan Talkback Type

Type	Description
Scan Talkback Disabled	During an ongoing scanned call, if the **PTT** button is pressed, the scanned call is terminated and a new call is launched.
Scan Talkback Enabled	During an ongoing scanned call, if the **PTT** button is pressed, you can talkback to the scanned call.

NOTE:
If you face the following scenarios:

1. Scan into a call for a group that is not assigned to a channel position in the currently selected zone
2. Miss the Hang Time of the call.

Perform the following actions:

1. Switch to the proper zone.
2. Select the channel position of the group to talk back to that group.

14.18.3
Nuisance Channels

Supported systems:

☐ Capacity Max ☐ Connect Plus ☑ Other Systems

Nuisance Channel is a channel that generates unwanted call continually.

You can temporarily remove the unwanted channel from the scan list and restore it back later on. This capability does not apply to the channel designated as the Selected Channel.

14.18.3.1
Deleting Nuisance Channels

Prerequisites: Your radio is scanned into the Nuisance Channel.

Procedure:

1. Press the programmed **Nuisance Delete** button until you hear a tone.

2. Release the programmed **Nuisance Delete** button.

14.18.3.2
Restoring Nuisance Channels

Procedure:

Perform one of the following actions:

- Restart your radio.
- Turn off and then turn on the scan.[6]
- Change the channel using the **Channel Selector** knob.

14.18.4
Vote Scan

Supported systems:

☐ Capacity Max ☐ Connect Plus ☑ Other Systems

Vote Scan provides wide coverage in areas with multiple base stations transmitting identical information on different analog channels.

Your radio scans analog channels of multiple base stations, and performs a voting process to select the strongest received signal.

During a vote scan, your radio shows the following indications:

- The yellow LED blinks.
- The display shows the Vote Scan icon.

14.18.5
Scan Lists

☐ Capacity Max ☐ Connect Plus ☑ Other Systems

You can create and assign individual channels or groups in Scan Lists. Your radio scans for voice activity by cycling through the channel or group sequence specified in the scan list for the current channel or group. Scan List also known as Receive Group List.

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 analog and digital entries.

NOTE: This feature is not applicable to Capacity Plus.[6]

14.18.6

Flexible Receive List

Supported systems:

☐ Capacity Max   ☐ Connect Plus   ☑ Other Systems

The Flexible Receive List feature allows you to create and assign members on the receive talkgroup list.

Your radio can support a maximum of 16 members in the list.

📝   **NOTE:** This feature is only applicable to Capacity Plus.

14.18.6.1

Setting the Flexible Receive List

The Flexible Receive List feature allows you to create and assign members on the receive talkgroup list.

Procedure:

Press the programmed **Flexible Receive List** button to toggle the feature on or off.

If Flexible Receive List is enabled, your radio shows the following indicators:

• The yellow LED blinks.

• A positive tone sounds.

If Flexible Receive List is disabled, your radio shows the following indicators:

• The LED turns off.

• A positive tone sounds.

14.18.7

Multi-Talkgroup Affiliation

Supported systems:

☑ Capacity Max   ☐ Connect Plus   ☐ Other Systems

Your radio can be configured for up to seven talkgroups at a site.

Up to seven talkgroups can be assigned as affiliation talkgroups from the 16 talkgroups in the Receive Group List. The selected talkgroup and the priority talkgroups are automatically affiliated.

14.19

Priority Call

Supported systems:

☑ Capacity Max   ☐ Connect Plus   ☐ Other Systems

Priority Call allows the system to preempt one of the ongoing non-priority calls and initiate the requested high priority call when all channels are busy.

With all channels occupied with high priority calls, the system does not preempt any calls, and places the requesting high-priority call into call queue. If the system fails to place the requesting high-priority call into call queue, it declares failure.

The default settings for Priority Call are preconfigured. When the following features are used, the call priority level reverts automatically to the preconfigured setting.

- All voice calls

- DMR III Text Message/Text Message

- Job Ticket

- Remote monitor

14.19.1
Switching the Priority Call Level

Procedure:

> Press the programmed **Toggle Call Priority Level** button.

If High Priority is enabled, your radio shows the following indications:

- The display shows `Next Call: High Priority`.[7]

- The Call Priority High icon appears on the home screen.

If Normal Priority is enabled, your radio shows the following indications:

- The display shows `Next Call: Normal Priority`[7].

- The Call Priority High icon disappears on the home screen.

14.20
Radio Kill

Supported systems:

☑ Capacity Max ☐ Connect Plus ☐ Other Systems

This feature is an enhanced security measure to restrict unauthorized access to a radio.

Radio Kill causes a radio to be rendered inoperable. For example, you may want to kill a stolen or misplaced radio to prevent unauthorized usage.

When powered on, a killed radio displays `Radio Killed` on the screen momentarily to indicate the killed state.[7]

> **NOTE:** A killed radio can only be revived at a Motorola Solutions service depot. Contact your dealer for more information.

14.21
Response Inhibit

Supported systems:

☑ Capacity Max ☐ Connect Plus ☑ Other Systems

This feature helps prevent your radio from responding to any incoming transmissions.

NOTE: Contact your dealer for more information.

If enabled, your radio does not generate any outgoing transmissions in respond to incoming transmissions, such as Radio Check, Call Alert, Radio Disable, Remote Monitor, Automatic Registration Service (ARS), and responding to Private Messages.

Your radio cannot receive Confirmed Private Calls when this feature is enabled. However, your radio is able to manually send transmission.

14.21.1
Setting the Response Inhibit

Procedure:

Press the programmed **Response Inhibit** button.

If the Response Inhibit is successfully turned off, your radio shows the following indications:

* A positive tone sounds.
* The display shows a momentary positive mini notice.[7]

If the Response Inhibit fails to turn off, your radio shows the following indications:

* A negative tone sounds.
* The display shows a momentary negative mini notice[7].

14.22
Security

Supported systems:

☐ Capacity Max   ☐ Connect Plus   ☑ Other Systems

This feature allows you to stun or revive any radio in the system.

For example, you may disable stolen radio to prevent unauthorized users from using and revive or enable the radio when it is recovered.

When a radio is stunned, the radio cannot request nor receive any user initiated services on the system that performed the stun procedure. However, the radio can switch to another system. The radio continues to send GNSS location reports and can be monitored remotely when it was stunned or disabled.

For Other Systems, you can stun or revive a radio with or without authentication.

Authenticated Radio Disable is a selling feature and requires verification when you enable or disable a radio. When your radio disables a target radio with user authentication, a passphrase is required. The passphrase is preprogrammed in the target radio through the Customer Programming Software (CPS).

NOTE: Contact your dealer to enable this feature.

14.22.1
Disabling Radios

Procedure:

Press the programmed **Radio Disable** button.

If the request is successful, your radio shows the following indications:

- A positive indicator tone sounds.
- The display shows a positive mini notice.

If the request is unsuccessful, your radio shows the following indications:

- A negative indicator tone sounds.
- The display shows a negative mini notice.

14.22.2
Enabling Radios

Procedure:

Press the programmed **Radio Disable** button.

If the request is successful, your radio shows the following indications:

- A positive indicator tone sounds.
- The display shows a positive mini notice.

If the request is unsuccessful, your radio shows the following indications:

- A negative indicator tone sounds.
- The display shows a negative mini notice.

14.23
Status Message

Supported systems:

☑ Capacity Max ☐ Connect Plus ☐ Other Systems

This feature allows your radio to send status messages to other radios.

The Quick Status list is configured using the radio programming softwares and comprises up to a maximum of 99 statuses.

The maximum length for each status message is 16 characters.

Contact your dealer for more information.

> **NOTE:** Every status has a corresponding digital value ranging from 0–99. An alias can be specified to each status for ease of reference.

The Text-to-Speech feature if enabled, allows the radio to audibly indicate the status messages that are received.[7]

14.23.1
Sending Status Messages

Procedure:

> Press the programmed **One Touch Access** button.

If your status message is sent successfully, your radio shows the following indications:

- A positive indicator tone sounds.
- The LED extinguishes.
- The display shows a positive mini notice and a ✔ beside the sent status message.

If your status message is fails, your radio shows the following indications:

- A negative indicator tone sounds.
- The LED extinguishes.
- The display shows a failure notice.

14.24
Text Messaging

Supported systems:

☑ Capacity Max ☑ Connect Plus ☑ Other Systems

Your radio is able to receive data from another radio or a text message application.

There are two types of text messages, Digital Mobile Radio (DMR) Short Text Message and text message. The maximum length of a DMR Short Text Message is 23 characters. The maximum length of a text message is 280 characters, including the subject line. The subject line only appears when you receive messages from e-mail applications.

> 📝 **NOTE:**
> The maximum character length is only applicable for models with the latest software and hardware. For radio models with older software and hardware, the maximum length of a text message is 140 characters. Contact your dealer for more information.

14.24.1
Sending Quick Text Messages

Procedure:

> Press the programmed **Text Message/One Touch Access** button.

For Capacity Max and Other System, if your text message is successfully sent, your radio shows the following indications:

- The red LED blinks.
- A tone sounds.

For Connect Plus, if your text message is successfully sent, a tone sounds.

For Capacity Max and Other System, if your text message fails to send, a tone sounds.

For Connect Plus, if your text message fails to send, the display shows `Message Send Failed`.

14.25
Transmit Inhibit

Supported systems:

☐ Capacity Max ☐ Connect Plus ☑ Other Systems

The Transmit Inhibit feature allows you to block all transmissions from your radio.

14.25.1
Enabling or Disabling Transmit Inhibit

Procedure:

Press the programmed **Transmit Inhibit** button.

If Transmit Inhibit is enabled, your radio shows the following indications:

- A positive tone sounds.
- The display shows `Tx Inhibit On.`

If Transmit Inhibit is disabled, your radio shows the following indications:

- A negative tone sounds.

NOTE: The status of Transmit Inhibit does not change after the radio turns on.

Chapter 15

Utilities

This chapter explains the operations of the utility functions available in your radio.

15.1
Checking the Battery Strength

Supported systems:

☐ Capacity Max ☐ Connect Plus ☑ Other Systems

Procedure:

Press the programmed **Battery Indicator** button.

One of the following scenario occurs:

- The LED lights up solid yellow indicating fair battery capacity.
- The LED lights up solid green indicating full battery capacity.
- The LED blinks red indicating low battery capacity.

15.2
Password Lock

☑ Capacity Max ☐ Connect Plus ☑ Other Systems

You can set a password to restrict access to your radio. Each time you turn on your radio, you must enter the password.

Your radio supports a four-digit password input.

Your radio is unable to receive calls in locked state.

These buttons function as a numeric keypad when entering password:

Channel Selector Knob
Position 1–9: Number 1–9

Position 10: Number 10

Side Buttons
Side Button 1 and 2: Number 1 and 2.

15.2.1
Accessing Radios with Password

Procedure:

1. Enter your first digit from the four-digit password using the **Channel Selector Knob**.
2. Enter the remaining three digits of the password by pressing **Side Button 1** or **2**.

If you enter the password correctly, the radio turns on.

If you enter the wrong password after the first and second attempt, a continuous tone sounds.

If you enter the wrong password after the third attempt, your radio shows the following indications:

• A tone sounds.

• The yellow LED double blinks.

• Your radio enters into locked state for 15 minutes.

> **NOTE:**
> You can repeat the steps to enter the password. You are given three attempts before your radio enters into a locked state for 15 minutes. Wait for 15 minutes and then repeat the steps.
>
> If you restart your radio during the locked state, the timer restarts.

15.2.2
Unlocking Radios in Locked State

Procedure:

1 To unlock your radio in locked state, perform one of the following actions:

Option	Actions
Unlocking Radios in Locked State if your radio is turned on	**a** Wait for 15 minutes. **b** Access the radio by following the steps in Accessing Radios with Password.
Unlocking Radios in Locked State if your radio is turned off	**a** Turn on your radio. > **NOTE:** Your radio restarts the 15 minutes timer for locked state. **b** Wait for 15 minutes. **c** Access the radio by following the steps in Accessing Radios with Password.

15.3
Setting the Acoustic Feedback Suppressor

Procedure:

Press the programmed **Acoustic Feedback Suppressor** button.

If the setting is successful, a positive indicator tone sounds.

If the setting is unsuccessful, a negative indicator tone sounds.

15.4
Setting the Global Navigation Satellite System

Global Navigation Satellite System (GNSS) is a satellite navigation system that determines the radio precise location. GNSS includes Global Positioning System (GPS) and BeiDou Navigation Satellite System (BDS).

Procedure:

Press the programmed GNSS button to toggle **GNSS** on or off on your radio.

15.5
Setting the Intelligent Audio

Your radio automatically adjusts the audio volume to overcome current background noise in the environment, inclusive of both stationary and non-stationary noise sources. This is a receive-only feature and does not affect transmission audio.

Procedure:

Press the programmed **Intelligent Audio** button.

15.6
Setting the Option Board

Supported systems:

☑ Capacity Max ☐ Connect Plus ☑ Other Systems

Procedure:

Press the programmed **Option Board** button.

15.7
Setting Power Levels

Procedure:

Press the programmed **Power Level** button to transmit to a longer or shorter distance.

If the setting is successful, your radio shows the following indications:
- A positive indicator tone sounds.
- Radio transmits at the desired power level.

If the setting is unsuccessful, your radio shows the following indications:
- A negative indicator tone sounds.
- Radio transmission remains unchanged.

15.8
Setting Radio Tones/Alerts

Procedure:

Press the programmed **All Tones/Alerts** button.

If the setting is successful, a positive indicator tone sounds.

If the setting is unsuccessful, a negative indicator tone sounds.

15.9
Setting the Trill Enhancement

Supported systems:

☑ Capacity Max ☐ Connect Plus ☑ Other Systems

You can enable this feature when you are speaking in a language that contains many words with alveolar trill (rolling "R") pronunciations.

Procedure:

Press the programmed **Trill Enhancement** button to toggle the feature on or off.

If the setting is successful, a positive indicator tone sounds.

If the setting is unsuccessful, a negative indicator tone sounds.

15.10
Voice Announcement

This feature enables the radio to audibly indicate the current Zone or Channel assigned. This audio indicator can be customized per customer requirements.

15.10.1
Setting the Voice Announcement

Supported systems:

☑ Capacity Max ☑ Connect Plus ☑ Other Systems

Procedure:

Press the programmed **Voice Announcement** button.

If the setting is successful, a positive indicator tone sounds.

If the setting is unsuccessful, a negative indicator tone sounds.

15.11
Switching Audio Route between Internal Radio Speaker and Wired Accessory

Supported systems:

☑ Capacity Max ☐ Connect Plus ☑ Other Systems

Prerequisites:
Attach a wired accessory with speaker to your radio.

Procedure:

1 Switch the audio route between the internal speaker of your radio and the speaker of the wired accessory by pressing the programmed **Audio Toggle** button.

> **NOTE:** Turning off your radio or detaching the accessory resets the audio routing to the internal speaker of your radio.

If the audio route is switched, a tone sounds.

15.12

Text-to-Speech

Supported systems:

☑ Capacity Max ☑ Connect Plus ☑ Other Systems

This feature enables the radio to audibly indicate the following features:

- Current Channel
- Current Zone
- Programmed button feature on or off
- Content of received text messages
- Content of received Job Tickets

> **NOTE:**
> If Text-to-Speech is enabled, the Voice Announcement feature is automatically disabled. If Voice Announcement is enabled, then the Text-to-Speech feature is automatically disabled.
>
> Applicable to PMUE4426B only.

15.12.1

Setting the Text-to-Speech

Procedure:

Perform the following actions:

- For Capacity Max and Other System, press the programmed **Text-to-Speech** button to listen to the received text message.

- For Connect Plus, press the programmed **Voice Announcement** button to toggle this feature on or off.

15.13

Voice Operating Transmission

Supported systems:

☐ Capacity Max ☐ Connect Plus ☑ Other Systems

Voice Operating Transmission (VOX) allows you to initiate hands-free voice-activated calls on a programmed channel. When your VOX-capable accessory detects voice, your radio automatically transmits for a programmed period.

> **NOTE:**
> This feature is not applicable in Citizen Band channels that are in the same frequency.[6]
>
> Contact your dealer or administrator for more information.

15.13.1

Setting the Voice Operating Transmission

Procedure:

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

<div style="background-color:#1a6fc4; color:white; padding:8px;">

Part I

</div>

Authorized Accessories List

Motorola Solutions provides the following approved accessories to improve the productivity of your digital portable two-way radio.

Table 18: Antenna

Part Number	Description
PMAE4069__	UHF, 403–450 MHz, Helical Antenna
PMAE4070__	UHF, 440–490 MHz, Helical Antenna
PMAE4071__	UHF, 470–527 MHz, Helical Antenna
PMAE4079__	UHF, 403–527 MHz, Stubby Antenna

Table 19: Batteries

Part Number	Description
NNTN8129_	IMPRES Hi-Capacity Li-Ion, 2300 mAh Battery (FM)
NNTN8560_	Impres Hi-Capacity Li-Ion, 2500 mAh IP57 Battery, 2300M 2500T
PMNN4406_R	Battery Standard IP67 Li-Ion 1500M 1600T
PMNN4409_R	IMPRES Hi-Capacity Li-Ion, 2250 mAh Battery
PMNN4454_	Ultra High, Li-Ion Battery 2750 mAh (Replacement for PMNN4409_)
PMNN4543_	IP68 Li-Ion Battery (Replacement for PMNN4463_)
PMNN4488_	IMPRES Li-Ion, 3000 mAh IP68 Battery for Vibrating Belt Clip
PMNN4489_	IMPRES Li-Ion, 2900 mAh TIA 4950 HAZLOC IP68 Battery
PMNN4491_	IMPRES Slim Li-Ion, 2100 mAh IP68 Battery
PMNN4493_	IMPRES Li-Ion, 3000 mAh IP68 Battery, low voltage
PMNN4543_	Core Li-Ion, 2450 mAh IP68 Battery
PMNN4544_	IMPRES Li-Ion, 2450 mAh IP68 Battery

Table 20: Carry Devices

Part Number	Description
PMLN4651_	Belt Clip for 2 in. Belt Width
PMLN5610_	2.5 in. Replacement Leather Swivel Belt Loop
PMLN5611_	3 in. Replacement Leather Swivel Belt Loop
PMLN5838_	Hard Leather Carry Case with 3 in. Fixed Belt Loop for Full-Keypad Radio
PMLN5839_	Hard Leather Carry Case with 3 in. Fixed Belt Loop for Non-Display Radio

Part Number	Description
PMLN5840_	Hard Leather Carry Case with 3 in. Swivel Belt Loop for Full-Keypad Radio
PMLN5842_	Hard Leather Carry Case with 2.5 in. Swivel Belt Loop for Full-Keypad and Limited-Keypad Radio
PMLN5843_	Hard Leather Carry Case with 2.5 in. Swivel Belt Loop for Non-Display Radio
PMLN5844_	Nylon Carry Case with 3 in. Fixed Belt Loop for Full-Keypad and Limited-Keypad Radio
PMLN5845_	Nylon Carry Case with 3 in. Fixed Belt Loop for Non-Display Radio
PMLN5846_	Hard Leather Carry Case with 3 in. Swivel Belt Loop for Non-Display Radio
PMLN7008_	Belt Clip for 2.5 in. Belt Width
PMLN7296_	Vibrating Belt Clip for 2.5 in. Belt Width
RLN6486_	Leather Radio Strap
RLN6487_	Leather Radio Strap, Size XL
RLN6488_	Anti-Sway Leather Radio Strap

Table 21: Chargers

Part Number	Description
EPNN9286_	Charger SWM with Power Supplyer that includes 2571886T01, Euro Plug
HKVN4036_	IMPRES Battery Fleet Management License Key
NLN7967_	Wall Mount Bracket for IMPRES Multi-Unit Charger
NNTN7392_	IMPRES Battery Reader
NNTN7616_	IMPRES Vehicular Charger
NNTN7677_	IMPRES Battery Fleet Management Multi-Unit Charger Interface Unit
NNTN8045_	IMPRES Battery Fleet Management Single-Unit Charger Interface Unit
NNTN8117_	Core Single-Unit Charger, Base Only
NNTN8525_	Travel Charger, Rapid Rate with Voltage Regulated Vehicular Charger Adapter, Custom Charger Base, Mounting Bracket, and Coil Cord
PMPN4008_	Micro USB Switched-Mode Power Supply, China Plug
PS000037A05	Power Supply Adaptor, Power-Wall Cube, 14 W, 207–253 V, China Plug
WPLN4211_	IMPRES Multi-Unit Charger, Base Only
WPLN4218_	IMPRES Multi-Unit Charger with Display Base Only
WPLN4245_	IMPRES Single-Unit Charger, China Plug

Part Number	Description
WPLN4256_	IMPRES Single-Unit Charger, 1.25 A, 230 VAC, Australia/New Zealand/APME
2564060M01	Transformer, 15 W, Waris, China

Table 22: Earbuds and Earpieces

Part Number	Description
AARLN4885_	Receive-Only Earbud
BDN6666_	Earpiece with Volume Control
BDN6728_	Receive-Only Earpiece with Volume Control, Black
PMLN4620_	D-Shell Receive-Only Earpiece
PMLN5096_	D-Shell Earset
PMLN5101_	IMPRES Temple Transducer with In-line Push-to-Talk
PMLN5973_	Ear Receiver with In-line Mic/PTT, MagOne
PMLN5975_	Swivel Earpiece with MIC/PTT, MagOne
PMLN5976_	Earset with Boom MIC In-line PTT, MagOne
PMLN6069_	Earbud with In-line Mic/PTT, MagOne
PMLN7181_	Flexible Fit Swivel Earpiece with Boom Mic
PMLN7203_	Flexible Fit Swivel Earpiece with Boom Mic, Multipack
PMLN7696_	Completely Discreet Earpiece Kit
PMLN7851_	Operational Critical Wireless Earpiece PTT
RLN4941_	Receive-Only Earpiece
RLN5313_	Receive-Only Noise Surveillance Kit, Black
RLN5314_	Receive-Only Noise Surveillance Kit, Beige
RLN6279_	Standard Earpiece, Black
RLN6280_	Standard Earpiece, Beige
RLN6283_	Replacement Foam Ear Pad and Windscreen
RLN6284_	Earpiece with Acoustic Tube Assembly, Beige
RLN6285_	Earpiece with Acoustic Tube Assembly, Black
RLN6288_	Earpiece with High Noise Kit, Beige
RLN6289_	Earpiece with High Noise Kit, Black
RLN6511_	Clear EP7-Small Hearing Protectors [Sonic Defenders] Ultra Ear-plugs, Noise reduction = 28 dB
RLN6512_	Clear EP7-Medium Hearing Protectors [Sonic Defenders] Ultra Earplugs, Noise reduction = 28 dB
RLN6513_	Clear EP7-Large Hearing Protectors [Sonic Defenders] Ultra Ear-plugs, Noise reduction = 28 dB
RLN6550_	Swivel Earpiece with In-Line Microphone for Bluetooth Accessory Kit Pod, Pack of three

Part Number	Description
NNTN8294_	1-Wire Earbud, 29 cm Cord, Black
NNTN8295_	1-Wire Earbud, 116 cm Cord, Black
NNTN8296_	Wireless Covert Kit, includes two sets of 2-Wire Earbuds (1 Black and 1 White), 1-Wire Earbud (Black), and a 3.5 mm Adapter to plug into any off-the-shelf headphones
NNTN8299	Eartips for Operations Critical Wireless Earbuds
WADN4190_	Over-the-Ear Receiver for Remote Speaker Microphone
NNTN8385_	Wireless Neckloop Y-adapter and retention hook for Completely Discreet Kit

Table 23: Headsets and Headset Accessories

Part Number	Description
NTN2572_	Earpiece 12 in. Cable (Replacement for NNTN8125_)
NNTN8189_	Non-Secure Wireless Headset and Push-to-Talk Device with Push-to-Talk Audio, 12 in. Cable
NNTN8191_	Push-to-Talk Module, without Charger
PMLN5102_	Ultra-Lite Headset
PMLN5974_	Lightweight Headset with Boom Mic and PTT, MagOne
PMLN5979_	Breeze Headset with Boom MIC and PTT, MagOne
PMLN6463_	Business Wireless Accessory Kit
PMLN6852_	Next Generation Behind-the-Head Heavy Duty Headset GCAI
PMLN6853_	Next Generation Behind-the-Head Heavy Duty Headset GCAI TIA 4950
PMLN7466_	Over-the-Head Heavy Duty Headset with GCAI
PMLN7467_	Over-the-Head Heavy Duty Headset/TIA with GCAI
RLN6490_	XBT Behind-the-Neck, Non-Secure Wireless Heavy Duty Headset
RLN6491_	XBT Overhead, Non-secure Wireless Heavy Duty Headset
RMN5058_	Lightweight Headset

Table 24: Remote Speaker Microphones

Part Number	Description
NNTN8382_	IMPRES Remote Speaker Microphone, IP57
NNTN8383_	IMPRES Remote Speaker Microphone, with Earjack
PMMN4024_	Remote Speaker Microphone
PMMN4025_	IMPRES Remote Speaker Microphone
PMMN4040_	Remote Speaker Microphone, Submersible (IP57)
PMMN4046_	IMPRES Remote Speaker Microphone, with Volume, IP57

Part Number	Description
PMMN4050_	IMPRES Remote Speaker Microphone, with Earjack, Noise Canceling
PMMN4083_	IMPRES Remote Speaker Microphone Large, APX IP68 Delta T (GCAI)
PMMN4099_	IMPRES IP68 Heavy Duty Remote Speaker Microphone
PMMN4102_	IMPRES Noise Cancelling Remote Speaker Microphone, 3.5 mm Jack, Long Coil Cable, with Nexus Connector
MMN4102B_GRN	IMPRES Noise Cancelling Remote Speaker Microphone, 3.5 mm Jack, Long Coil Cable, with Nexus Connector (Green Housing)
PMMN4113_	IMPRES OMNI Remote Speaker Microphone, 3.5 mm Jack, Long Coil Cable, with Nexus Connector
RLN6074_	Remote Speaker Microphone Replacement Coil Cord Kit (For Use with PMMN4024_ and PMMN4040_)
RLN6075_	Remote Speaker Microphone Replacement Coil Cord Kit (For Use with PMMN4025_ , PMMN4046_, PMMN4050_)
RLN6561_/MDRLN6561_	Operational Critical Wireless RSM

Table 25: Surveillance Accessories

Part Number	Description
NNTN8459_	1-Wire Surveillance Kit with Translucent Tube, Black
PMLN6123_	IMPRES 3-Wire Surveillance with Clear, Comfortable Acoustic Tube, Black
PMLN6124_	IMPRES 3-Wire Surveillance with Clear, Comfortable Acoustic Tube, Beige
PMLN6125_	Receive Only Surveillance Kit, Black (Single Wire)
PMLN6126_	Receive Only Surveillance Kit, Beige (Single Wire)
PMLN6127_	IMPRES 2-Wire Surveillance Kit, Black
PMLN6128_	IMPRES 2-Wire Surveillance Kit, Beige
PMLN6129_	IMPRES 2-Wire Surveillance Kit with Clear, Comfortable Acoustic Tube, Black
PMLN6130_	IMPRES 2-Wire Surveillance Kit with Clear, Comfortable Acoustic Tube, Beige
PMLN7052_	Operations Critical Wireless 1-Wire Surveillance Kit with translucent tube (PMLN7052_)
RLN4760_	Small Custom Earpiece for Surveillance Kits, Right Ear
RLN4761_	Medium Custom Earpiece for Surveillance Kits, Right Ear
RLN4762_	Large Custom Earpiece for Surveillance Kits, Right Ear
RLN4763_	Small Custom Earpiece for Surveillance Kits, Left Ear
RLN4764_	Medium Custom Earpiece for Surveillance Kits, Left Ear
RLN4765_	Large Custom Earpiece for Surveillance Kits, Left Ear

Part Number	Description
RLN6281_	Replacement Foam Plugs, Pack of 50 (For Use with RLN5886_)
RLN6282_	Replacement Ear Tips, Clear, Pack of 50 (For Use with RLN5887_)

Table 26: Miscellaneous Accessories

Part Number	Description
15012157001	Dust Cover Assembly
1505596Z02	Replacement Strap for RLN4570_ and HLN6602_ Chest Packs
32012144001	Antenna Identification Band – Grey
32012144002	Antenna Identification Band – Yellow
32012144003	Antenna Identification Band – Green
32012144004	Antenna Identification Band – Blue
32012144005	Antenna Identification Band – Purple
4200865599	Belt
4280384F89	Universal RadioPAK Extension Belt
5880348B33	SMA To BNC Adapter, reworked
AY000267A01_	Screen Protector, Clear (single pack contains one unit)
HLN6602_	Universal Chest Pack
HLN9985_	Waterproof Bag, includes Large Carry Strap
NTN5243_	Shoulder Strap (Attaches to D-Ring on Carry Case)
PMKN4012_	DMR Portable Programming Cable
PMKN4013_	Test and Alignment Cable for programming
PMKN4040_	DMR Portable Telemetry Cable
PMKN4071_	IMPRES Portable Non PC Adapter
PMKN4126_	TTR and Programming Cable for test alignment
PMLN6765_	Tactical GCAI PTT/VOX Interface Module
PMLN6767_	Tactical Remote Body Push-to-Talk
PMLN6827_	Push-to-Talk Interface Module
PMLN6830_	Tactical Remote Ring Push-to-Talk
PMLN6833_	Tactical Heavy Duty Temple Transducer with Noise Cancelling Boom Microphone
RLN4295_	Small Clip, Epaulet Strap
RLN4570_	Break-A-Way Chest Pack
RLN4815_	Universal Radio Pack and Utility Case (Fanny Pack)

目 录

法律和支持

知识产权和监管声明

版权

本文档中介绍的 Motorola Solutions 产品可能包含受版权保护的 Motorola Solutions 计算机程序。美国和其他国家/地区的法律为 Motorola Solutions 保留受版权保护的计算机程序的某些专有权利。因此，在未经 Motorola Solutions 明确书面许可的情况下，不得以任何方式对本文档中介绍的 Motorola Solutions 产品所包含的任何受版权保护的 Motorola Solutions 计算机程序进行拷贝或复制。

在未经 Motorola Solutions, Inc. 事先书面许可的情况下，不得以任何形式或通过任何方式来复制、传播、在检索系统中存储本文档的任何部分，或将其翻译为任何语言或计算机语言。

商标

MOTOROLA、MOTO、MOTOROLA SOLUTIONS 和标志性的 M 徽标是 Motorola Trademark Holdings, LLC 的商标或注册商标，必须获得授权方可使用。所有其他商标均为其各自所有者的财产。

许可权利

购买 Motorola Solutions 的产品不应视为直接或通过暗示、禁止反言或其他方式授予 Motorola Solutions 的版权、专利或专利申请的任何许可，但产品销售过程中因法律实施所引起的普通非专有免版税许可除外。

开源内容

本产品可能包含经许可使用的开源软件。请参阅产品安装介质，了解完整的"开源法律声明和归属"内容。

欧盟 (EU) 和英国 (UK) 废弃电子电气设备 (WEEE) 指令

欧盟的 WEEE 指令和英国的 WEEE 法规要求销售到欧盟国家/地区和英国的产品必须在产品上（有时是在包装上）张贴带交叉号的垃圾箱标签。根据 WEEE 指令的定义，此带叉号的带轮垃圾箱标签表示欧盟国家/地区和英国的客户和最终用户不得将此电子电气设备或附件作为生活垃圾处置。

欧盟国家/地区和英国的客户或最终用户应联系当地的设备供应商代表或服务中心，以了解有关所在国家/地区废物收集系统的相关信息。

免责声明

请注意，本文档中介绍的某些特性、设备和功能可能不适用于或未授权给特定系统使用，或者取决于特定移动订阅用户设备的特性或特定参数的配置。请联系 Motorola Solutions 联系人获取详细信息。

法律及合规性声明

重要安全信息

便携式双向对讲机的射频能量辐射和产品安全指南

⚠ 小心:
此对讲机仅限职业使用。 使用对讲机之前，请阅读对讲机随附的射频能量辐射和产品安全指南。本指南包含安全使用操作说明，以及符合适用标准与法规的射频能量信息和控制。

此对讲机的设计用于满足普通人群的使用。（仅适用于 PMUE4426B） 使用对讲机之前，请阅读对讲机随附的射频能量辐射和产品安全指南。本指南包含安全使用操作说明，以及符合适用标准与法规的射频能量信息和控制。

法规遵从信息

中国

无线电发射设备型号核准代码会在设备标签上注明。

章节 1

使用须知

本用户指南涵盖了在您所在区域提供的对讲机型号的基本操作。

本手册中使用的注解

在本手册的全文中，您会注意到使用了**警告**、**小心**和**注意**。这些注解用于强调存在的安全隐患，用于提示您在操作时应小心谨慎。

警告: 操作步骤、举措或状况等，如果不严格遵守，则可能导致受伤或死亡。

小心: 操作步骤、举措或状况等，如果不严格遵守，则可能导致设备损坏。

注释: 必须强调的操作步骤、举措或状况等。

特殊注解

以下特殊注解用于整个手册，以重点介绍某些信息或项目：

表 1： 特殊注解

示例	说明
菜单键或 **PTT** 按钮	粗体字表示某个按键、按钮或软菜单项的名称。
对讲机显示蓝牙打开。	打字机字体表示对讲机上显示的 MMI 字符串或信息。
<所需 ID>	Courier 字体、粗体、斜体和尖括号表示用户输入内容。
设置→**提示音**→**所有提示音**	字间有箭头的粗体字表示菜单项中的浏览结构。

功能和服务可用性

您的经销商或管理员可能已经针对具体需要对对讲机进行了定制。

注释:
  • 并非手册中的所有功能都适用于您的对讲机。请联系您的经销商或管理员了解详细信息。

您可以向您的经销商或系统管理员咨询以下事项：

• 每个按钮的功能是什么？
• 哪些可选附件可满足您的需求？
• 使用对讲机实现有效通信的最佳做法是什么？
• 怎样的维护过程可延长对讲机寿命？

1.1
软件版本

软件版本 **R02.22.03.1000** 或更高版本支持以下章节中介绍的所有功能。

请联系您的经销商或管理员了解详细信息。

简介

本用户指南是按照提供给该地区的最高级别型号编写的。

下表介绍访问不同对讲机型号的功能的方法。根据对讲机型号，您会收到不同的指示。

表 2：不同对讲机型号的功能访问和指示

	显示屏	无显示屏
对讲机型号	图 1：XiR P8808R	图 2：XiR P8808R
功能访问	• 菜单 • 可预设按钮	可预设按钮
功能指示	• 提示音 • LED 指示灯 • 显示屏 • 语音提示或文本转语音	• 提示音 • LED 指示灯 • 语音提示或文本转语音

> 注释: 要了解**可预设按钮**提供的功能，可以参考可预设按钮页号 17 主题。

章节 3

对讲机维护

本节介绍对讲机的基本操作预防措施。

表 3：IP 规格

IP 规格	说明
IP68	让对讲机可在两米深的水中耐受两个小时，并能承受雨、雪、灰尘等恶劣的野外条件和油脂或其他表面污染物。

⚠ **小心:** 请勿拆卸对讲机。这样可能会损坏对讲机密封垫，并出现通往对讲机内部的漏洞。只能在可以检测对讲机的密封性和更换密封件的服务站进行对讲机维护。

- 如果对讲机被浸没在水中，请用力挥动对讲机，这样可以将积留在扬声器网罩和麦克风接口内的水甩出。积留的水分会导致音质降低。

- 如果电池触点部位接触到水，则在装入电池前，请将对讲机和电池的电池触点擦干净并晾干。残留的水分会导致对讲机短路。

- 如果对讲机被浸没在腐蚀性液体中（例如盐水），请用清水将对讲机和电池冲洗干净，然后将对讲机和电池凉干。

- 清洁对讲机的外表面时，请使用中性餐洗剂与清水的稀释溶液（例如一茶匙餐洗剂和一加仑水）。

- 切勿刺戳位于电池触点下方的对讲机壳上的孔（洞）。该孔能够使对讲机内的压力保持平衡。如果这样做，液体可能会渗漏进对讲机，从而可能导致其丧失防水性能。

- 切勿堵塞或覆盖该孔，即使是标签也不可以。

- 确保不让油泥接触到该孔。

- 对讲机所设计的防水性能为：最大防水深度为 2 米，最长浸没时间为 120 分钟。超过最大限值可能会导致对讲机损坏。

章节 **4**

使用入门

本章提供有关如何让对讲机做好使用准备的说明。

为电池充电

此款对讲机由镍氢电池 (NiMH) 或锂离子 (Li-Ion) 电池供电。

前提条件： 充电时请关闭对讲机。

步骤：

- 只能在非危险区域为电池充电。电池充电后，要让对讲机放置至少 3 分钟。

- 为了遵守保修条款和防止损坏，请务必使用充电器用户指南中要求的 Motorola Solutions 认可的充电器为电池充电。

- 为了获得最佳电池性能，初次使用时新电池充电时间应为 14 到 16 小时。

  电池最好在室温下进行充电。

- 为了获得最佳电池寿命和宝贵的电池数据，请使用 IMPRES™ 充电器为 IMPRES 电池充电。

安装电池

步骤：

1. 将电池与对讲机背面的电池滑轨对齐。
2. 按牢电池，将电池往上滑动，直到锁片锁到正确位置。
3. 将电池锁拨到锁定位置。

后期必要条件：

 注释:
如果对讲机安装了错误的电池，对讲机会显示以下指示：

- 一声低音调警告提示音响起。

- 红色 LED 指示灯闪烁。

- 显示屏显示电池错误

- 如果使用 CPS 加载了语音提示或文本转语音，则语音提示或文本转语音会发出"电池错误"的声音。

如果对讲机安装了不受支持的电池，对讲机会显示以下指示：

- 发出一声提示音。

- 显示屏显示未知电池。

- 电池图标处于禁用状态。

如果您将 UL 电池装入经过 FM 认证的对讲机（反之亦然），则对讲机认证将失效。

如果您的对讲机安装了不受支持、未认证或无法识别的电池，请立即换上正确的电池。

4.3
取出电池

前提条件： 确保对讲机已关闭。

步骤：

将电池锁拨到解锁位置并按住，然后将电池向下滑动脱离电池滑轨。

4.4
安装天线

步骤：

1 将天线置入插孔中。

2 顺时针转动天线。

> 📝 **注释：** 固定天线可防止水和灰尘进入对讲机。

> ⚠ **小心：** 为防止损坏，请只使用 MOTOTRBO 天线替换出现故障的天线。

4.5
取下天线

步骤：

1 逆时针转动天线。

2 从插孔中拆下天线。

4.6
装上便携皮套

步骤：

1 将便携皮套上的滑轨与电池上的凹槽对齐。

2 向下按，直到您听到一声"咔嗒"声。

4.7
安装通用接口护盖

步骤：

1 将护盖的倾斜端插入通用接口上方的卡槽中。

2 向下按护盖，使护盖正确卡在通用接口中。

3 顺时针旋转指旋螺钉，将接口护盖固定在对讲机上。

4.8
取下通用接口护盖

步骤：

1 逆时针转动指旋螺钉。

2 向上滑动接口护盖，使其脱离通用接口的倾斜端。

后期必要条件： 在不使用通用接口时，请装回防尘罩。

清洁通用接口护盖

何时何处使用： 如果对讲机暴露在水中，在安装附件或更换防尘罩之前，确保通用接口干燥。如果对讲机暴露在盐水或污染物中，请执行以下清洁步骤。

步骤：

1 将一茶匙中性餐洗剂和一加仑水混合，制成浓度为 0.5% 的溶液。

2 此溶液仅用于清洁对讲机的外表面。使用短毛非金属硬刷薄薄地涂抹溶液。

3 使用一块柔软的无绒布彻底擦干对讲机。确保通用接口的接触点表面清洁且干燥。

4 在通用接口的接触点表面涂抹 Deoxit Gold 清洁剂或使用润滑剂笔（制造商 CAIG 实验室，部件号 G100P）进行清洁。

5 安装附件至通用接口以测试连接性。

后期必要条件：

注释: 请勿将对讲机浸没在水中。确保没有过量的清洁剂残留在通用接口、控件或缝隙之间。

每月清洁一次对讲机以进行维护。对于更恶劣的环境，例如石化厂或高盐度海洋环境，对讲机的清洁频率应更高。

打开对讲机

步骤：

顺时针旋转**开/关/音量**旋钮，直到听到一声"咔嗒"声。

如果对讲机已打开，它会显示以下指示：

• 发出一声提示音。

注释: 如果"提示音/提示"功能已禁用，则不会响起提示音。

• 红色 LED 指示灯亮起。

• 主屏幕亮起。

注释:
如果 LED 指示灯已禁用，则主屏幕不会亮起。

如果电池已充电且安装正确，但对讲机无法打开，请与经销商联系以获得帮助。

关闭对讲机

步骤：

逆时针旋转**开/关/音量**旋钮，直到听到一声"咔嗒"声。

显示屏将显示正在关机。

4.12
调节音量

步骤：

1 执行以下操作之一：

- 要调高音量，请顺时针旋转**开/关/音量**旋钮。

- 要调低音量，请逆时针旋转**开/关/音量**旋钮。

  注释：
  对讲机可通过预设来设置最低音量补偿，但音量在这种情况下无法降低至预设最低音量以下。

对讲机概述

对讲机概述介绍对讲机的按钮、图标和 LED 指示。

对讲机概述

表 4：标注图例

标签	按钮名称	说明
1	信道选择旋钮	用于选择信道。
2	开/关/音量旋钮	用于打开或关闭对讲机并调节音量。
3	LED 指示灯	用于指示操作状态的红色、绿色和橙色发光二极管。
4	侧面按钮	这些按钮可使用客户编程软件 (CPS) 进行现场预设。
5	通话按键 (PTT) 按钮	用于执行语音操作（例如，组呼和单呼）。
6	麦克风	在激活 PTT 或语音操作时，允许发送语音。
7	侧面按钮	这些按钮可使用客户编程软件 (CPS) 进行现场预设。
8	菜单选择按钮 [1]	用于提供菜单导航和选择界面的三个按钮。

---

[1] 不适用于无键盘机型。

16

标签	按钮名称	说明
9	液晶显示屏 (LCD)	半透反射式彩色显示屏提供有关许多对讲机功能的可视信息。
10	扬声器	输出由对讲机生成的所有提示音和音频（例如键盘音和语音等功能）。
11	紧急呼叫按钮	打开和关闭紧急操作。
12	天线	在传输或接收时进行必要的射频放大。

5.1
可预设按钮

您可以通过编程软件将可预设按钮预设为以下对讲机功能的快捷方式。

注释: 请联系您的经销商了解详细信息。

表 5： 可分配的对讲机功能

功能	说明
回声 (AF) 抑制器	允许您打开或关闭 AF 抑制器功能。
所有提示音	允许您打开或关闭所有提示音和提示。
音频切换	允许您在对讲机内置扬声器和有线附件扬声器之间切换音频路由。
电池指示灯	允许您检查电池电量的当前状态。
信标	允许您打开或关闭信标。
信标重置	允许您在不禁用信标的情况下重置信标提示音。
繁忙队列取消	当在繁忙队列中发起非紧急呼叫时，此功能可让您退出繁忙模式。在繁忙队列中接听紧急呼叫时，您无法将其取消。
呼叫提示	允许您直接访问通讯录并选择所需联系人来发送呼叫提示。
呼叫转移	允许您打开或关闭呼叫转移。
通话记录	允许您选择通话记录列表。
取消	允许您取消正在进行的呼叫。如果呼叫类型为"组呼"，则只有呼叫发起者可以使用此按钮取消正在进行的呼叫。如果呼叫类型为"单呼"，则呼叫发起者和接收者都可以使用此按钮取消正在进行的呼叫（仅适用于带显示屏的机型）。
信道通知	允许您在当前信道中播放区域和信道通知语音消息。
确认	允许您确认功能。
通讯录	可直接访问通讯录。
显示模式	允许您切换至日间或夜间模式
紧急呼叫关	允许您终止正在呼出的紧急呼叫。
紧急呼叫开	允许您发起紧急呼叫。
全球导航卫星系统 (GNSS) 开或关	允许您打开或关闭卫星导航系统。
室内定位	允许您打开或关闭室内定位。

功能	说明
智能音频	允许您打开或关闭智能音频。
倒地警报	允许您打开或关闭倒地警报。
倒地警报重置	允许您取消倒地警报提示音并重置功能计时器，而不禁用倒地警报。
手动站点漫游	允许您启动手动站点搜索。
麦克风 AGC	允许您打开或关闭内部麦克风自动增益控制 (AGC) 功能。
麦克风失真	允许您打开或关闭麦克风动态失真控制功能。
监听	允许您监听信道。
通知	允许您直接访问通知列表。
无用信道删除	允许您从扫描列表中暂时删除无用信道，选定信道除外。删除的无用信道将恢复到扫描列表中，例如，当对讲机关闭再重新打开时（智能信道共享模式下不适用）。
单键接入	允许您直接访问预定义的呼叫功能。
选件板功能	允许您切换选件板功能以启用或禁用启用了选件板的信道。
电话	允许您直接访问电话通讯录。
电话退出	允许您终止电话呼叫（仅适用于无显示屏或数字显示屏机型的数字模式）。
功率级别	允许您将发射功率切换为高或低。
加密	允许您打开或关闭加密。
中继器或脱网	允许您在使用中继器和直接与其他对讲机通信之间切换。
重置主信道	允许您选择新的主信道。
铃声提示类型	允许您直接访问"铃声提示类型"设置。
漫游请求	允许您请求搜索其他站点。
扫描	允许您打开或关闭扫描。
将主信道提醒静音	允许您将主信道提醒静音。
站点信息	允许您查看当前 Capacity Max 或其他系统的站点名称和 ID。
站点锁定	允许您启用站点锁定，从而仅在当前站点中搜索，或者禁用站点锁定，从而也可在其他站点中搜索。
遥感遥测控制	允许您控制本地或远程对讲机上的输出引脚。
切换呼叫优先级	允许您使对讲机进入呼叫优先级高或正常状态。
传输中断远程停止	允许您通过停止发射对讲机来停止进行中的语音呼叫，或终止中继器呼叫闲置时间来释放信道。此按钮还可用于终止远程监听会话。
颤音增强功能	允许您打开或关闭颤音增强功能。
未分配	指示按钮功能尚未分配。
振动类型	允许您配置振动类型。
语音提示	允许您打开或关闭语音提示。
声控传输 (VOX)	允许您打开或关闭 VOX。
区域切换	允许您在 2 个区域之间切换。

5.2

图标

图标仅适用于带显示屏的对讲机。

对讲机显示屏显示对讲机状态、文字条目和菜单条目。

5.2.1

显示屏图标

以下图标出现在对讲机显示屏顶部的状态栏中。图标按出现或使用顺序排列在最左侧，并且是信道特定图标。这些图标不适用于 PMUE4426A 和 PMUE4426B 型号。

表 6： 显示屏图标

图标	说明
	电池
	通话记录
	DGNA
	紧急呼叫
	灵活接收列表
	GNSS 可用
	GNSS 不可用
	大批量数据
	监听
	静音模式 [2]
	通知
	选件板
	选件板不工作

---

[2] 仅适用于具有最新软件和硬件的机型。

图标	说明
	无线编程延迟计时器
	功率级别
	优先级通话组 1 或 2
	接收信号强度指示器 (RSSI)
	响应抑制
	仅响铃
	扫描 [3]
	扫描优先级 1 或 2 [3]
	共享频率
	登录到远程服务器
	从远程服务器注销
	安全
	静音
	站点漫游
	状态
	脱网
	不安全
	振动

_____

[3] 在智能信道共享中不可用

图标	说明
	振动和响铃
	投票扫描

5.2.2
高级菜单图标

以下图标显示在菜单项旁边，这些图标支持用户在两个选项之间进行选择或者向用户表明有一个可提供两个选项的子菜单。

表 7： 高级菜单图标

图标	说明
	复选框（选中）
	复选框（未选中）
	实心黑框

5.2.3
呼叫图标

以下图标在呼叫过程中出现在显示屏上。这些图标也出现在通讯录中，表示别名或 ID 类型。

表 8： 呼叫图标

图标	说明
	呼叫优先级高
	组呼/全呼
	组呼或全呼电话呼叫
	单呼电话呼叫
	单呼

5.2.4

小型通知图标

在采取执行任务的操作后，显示屏上会短暂显示以下图标。

表 9： 小型通知图标

图标	说明
❗	传输失败（否定性）
✔️	传输成功（确定性）
⊞	正在传输（过渡性）

5.2.5

已发信息图标

以下图标显示在显示屏右上角的"已发信息"文件夹中。

表 10： 已发信息图标

图标	说明
✉ 或 ✉	进行中
✉ 或 ✉	已读单条或群组信息
✉ 或 ✉	未读单条或群组信息
✉ 或 ✉	发送失败
✉ 或 ✉	发送成功

5.3

LED 指示灯

LED 指示灯显示对讲机的工作状态。

符合资质的技术人员可以通过预设来永久禁用 LED 指示灯。

表 11： LED 指示灯

指示	状态
红色长亮	对讲机正在传输所有类型的语音呼叫。
呈红色闪烁	• 对讲机指示电池不匹配。

指示	状态
	• 开机后对讲机自检失败。 • 对讲机正在接收紧急呼叫传输信号。 • 对讲机正在低电池电量状态下发射。 • 如果配置了自动范围应答机系统，对讲机已移至范围以外。 • 已启用静音模式。 • 对讲机出现充电错误。 • 对讲机正在检测活动或者正在检索无线编程传输信号。 • 对讲机预设失败。 • 对讲机正在接收呼叫或数据。
呈红色快速闪烁	• 在 Connect Plus 中，对讲机正在接收无线文件传输（选件板固件文件、网络频率文件或选件板 Codeplug 文件）。 • 在 Connect Plus 中，对讲机正在升级到新的选件板固件文件。
呈黄色长亮	• 对讲机正在监听某个传统信道。 • 按下**电源/信息**按钮时，指示电池电量中等。
呈黄色闪烁	• 对讲机尚未回应呼叫提示。 • 对讲机正在扫描活动。 • 所有"智能信道共享 - 多站点"信道均处于繁忙状态。
呈黄色双闪	• 对讲机已启用自动漫游功能。 • 对讲机正在主动搜索新站点。 • 对讲机尚未回应组呼提示。 • 对讲机已锁定。 • 在智能信道共享模式下，对讲机未与中继器连接。 • 所有智能信道共享信道均处于繁忙状态。
呈绿色长亮	• 对讲机正在开机。 • 对讲机正在发射。 • 对讲机正在发送呼叫提示或紧急呼叫传输信号。 • 按下**电源/信息**按钮时，指示电池电量全满。
呈绿色闪烁	• 对讲机正在接收呼叫或数据。 • 对讲机正在检索无线编程传输信号。 • 对讲机正在以无线方式检测活动。 **注释:** 由于数字协议的特性，该活动可能会也可能不会影响对讲机的预设信道。
呈绿色双闪	对讲机正在接收加密呼叫或数据。

章节 **6**

系统概述

系统概述说明对讲机中可用的系统类型和模式。

6.1
Capacity Max

Capacity Max 是基于 MOTOTRBO 控制信道的集群对讲机系统。

MOTOTRBO 数字对讲机产品是 Motorola Solutions 主要面向商业和工业用户销售的产品。MOTOTRBO 使用欧洲电信标准协会 (ETSI) 数字移动无线电 (DMR) 标准（即双时隙时分多址 (TDMA)）将同步语音或数据整合至 12.5 kHz 信道（相当于 6.25 kHz）中。

6.2
Connect Plus

Connect Plus 是基于 DMR 技术的 FULL 集群解决方案。Connect Plus 使用专用控制信道进行信道请求和分配。

6.3
其他系统

其他系统包括传统模拟和数字模式、IP 站点连接以及智能信道共享。

6.3.1
传统模拟和数字模式

对讲机中的每个信道都可配置为传统模拟信道或传统数字信道。

从数字模式切换到模拟模式时，有些功能不可用，而有些功能在两种模式下都可用。

每个功能的工作方式有一些微小差别，但它们不会影响对讲机的性能。

6.3.2
IP 站点连接

此功能允许您的对讲机连接至通过互联网协议 (IP) 网络连接的不同可用站点，从而将传统通信扩展到单个站点范围之外。这是传统多站点模式。

当对讲机从一个站点的范围内移到另一个站点的范围内时，对讲机会连接到新站点的中继器，以发送或接收呼叫或数据传输。此操作可以自动完成，也可以手动完成，具体取决于您的设置。

在自动站点搜索中，如果来自当前站点的信号较弱或对讲机检测不到来自当前站点的任何信号，对讲机将扫描所有可用站点。然后，对讲机会锁定具有最大接收信号强度指示器 (RSSI) 值的中继器。

在手动站点搜索中，对讲机搜索漫游列表中当前处于范围内的下一个站点（但该站点可能不具有最强的信号）并锁定该站点。

> 注释: 每个信道只能启用"扫描"或"漫游"，但不能同时启用二者。

您可以将启用了此功能的信道添加到特定的漫游列表中。在自动漫游操作过程中，对讲机会搜索漫游列表中的信道以确定最佳站点。一个漫游列表最多支持 16 个信道（包括选定信道）。

注释：您无法在漫游列表中手动添加或删除条目。请联系您的经销商了解详细信息。

6.3.3
Capacity Plus

智能信道共享是一种经济高效的入门级数字集群系统。它扩展了单站点和多站点的容量及覆盖范围。单站点和多站点动态集群可提供更佳的容量和覆盖范围。

注释：如果尝试使用可预设按钮访问不适用于"智能信道共享 - 单站点"或"智能信道共享 - 多站点"的功能，您将听到否定提示音。

智能信道共享 - 单站点

"智能信道共享 - 单站点"是 MOTOTRBO 对讲机系统中的单站点集群配置，它使用信道池支持数百个用户及最多 254 个通话组。

此配置允许对讲机在处于中继器模式时有效利用多个可用的预设信道。

此外，对讲机还提供在传统数字模式、IP 站点连接和智能信道共享中均可使用的功能。

智能信道共享 - 多站点

"智能信道共享 - 多站点"是 MOTOTRBO 对讲机系统中的多信道集群配置，它将智能信道共享和 IP 站点连接配置的优点结合在了一起。此外，它也称为"链接智能信道共享"。

它允许对讲机连接至使用 IP 网络连接的不同可用站点，从而将集群通信扩展到单个站点范围之外。此外，它还通过有效利用每个可用站点支持的一系列可用预设信道的组合增加了容量。

当对讲机移出一个站点的范围并移入另一个站点的范围时，它会连接到新站点的中继器以发送或接收呼叫或数据传输。根据您的设置，可以自动或手动进行此操作。

自动
当来自当前站点的信号较弱或对讲机检测不到任何信号时，对讲机会扫描所有可用站点并锁定到 RSSI 值最强的中继器。

手动
对讲机搜索漫游列表中当前在范围内的下一个站点（可能信号不是最强的）并锁定该站点。

任何启用了"智能信道共享 - 多站点"的信道均可添加到漫游列表中。在自动漫游操作过程中，对讲机将搜索这些信道以确定最佳站点。

注释：您无法在漫游列表中手动添加或删除条目。

注册

支持的系统：

☑ Capacity Max ☐ Connect Plus ☐ 其他系统

您的对讲机可能会从 Capacity Max 系统接收与注册相关的信息。

注册

当您打开对讲机、更改通话组或请求站点漫游时，对讲机会向系统发送注册信息。如果对讲机无法在站点上注册，对讲机会自动尝试漫游到另一站点，并从漫游列表中暂时移除尝试注册的站点。

当站点搜索成功时，对讲机会显示以下指示：

• 发出一声提示音。

• 黄色 LED 指示灯双闪。

• 显示屏显示正在注册。

站点注册成功后，您的对讲机会显示站点*<编号>*。

超出范围

当对讲机检测不到来自系统或当前站点的信号时，对讲机会显示以下指示：

• 将发出一声重复音。

• 红色闪烁。

• 显示屏显示超出范围。

通话组加入失败

当对讲机在注册过程中未能尝试加入在信道或统一旋钮位置 (UKP) 指定的通话组时，对讲机会显示 UKP 别名。

注册被拒

当系统注册不被接受时，对讲机会显示以下指示：

• 黄色 LED 指示灯双闪。

• 显示屏显示注册被拒。

章节 8

区域和信道选择

支持的系统：

☑ Capacity Max ☑ Connect Plus ☑ 其他系统

区域是一个信道组。您可以为每个信道预设支持不同用户组的不同功能。

表 12： 支持的区域和信道数

型号	区域	信道	每个区域的信道数
显示屏	250	1000	160
无显示屏	2	32	16

8.1
选择区域

步骤：

按预设的**区域切换**按钮。

对讲机会显示以下指示：
- 如果对讲机处于区域 2，则将发出确定提示音。
- 如果对讲机处于区域 1，则将发出否定提示音。

  注释: 对于所有无键盘对讲机，建议启用语音提示功能以选择区域。语音提示功能只能通过 CPS 启用。

8.2
使用别名搜索选择区域

步骤：

1 从菜单中，选择**区域**。
2 输入别名所需的字符。

屏幕短暂显示*<区域>*已选择。

  注释: 别名搜索不区分大小写。如果有两个或两个以上名称相同的条目，显示屏将显示列表中首先列出的条目。

。

8.3
选择信道

步骤：

1 旋转**信道选择**旋钮。

> ✎ **注释：** 如果**虚拟信道停止**功能已启用，您的对讲机会在跨越第一个或最后一个信道后停止，而且您会听到提示音。

对讲机将切换到首选信道。

章节 9

站点概述

站点会覆盖特定区域。

在多站点网络中，系统会在当前站点的信号等级降低至无法接受的等级时自动搜索新站点。

9.1
站点限制

支持的系统：

☑ Capacity Max　☑ Connect Plus　☐ 其他系统

对于站点限制，您的对讲机经销商可以决定对讲机使用哪些网络站点。

无需重新预设对讲机即可更改允许和不允许站点的列表。

如果对讲机尝试在不允许的站点注册，则会收到站点被拒的提示，然后它会搜索其他网络站点。

当遇到站点限制时，对讲机会显示以下指示：

- 黄色 LED 闪烁两次，指示在执行站点搜索。

9.2
站点集群

支持的系统：

☑ Capacity Max　☐ Connect Plus　☐ 其他系统

站点集群仅适用于 Capacity Max 系统。站点必须能够与要被视为系统集群的集群控制器通信。

如果站点无法与系统中的集群控制器通信，对讲机将进入"站点集群"模式。处于"站点集群"模式时，对讲机将定期向用户提供声音和视觉指示，以便向用户告知功能受限。

当对讲机处于"站点集群"模式时，它将发出重复提示音。

处于"站点集群"模式的对讲机仍然能够发起组呼和个人语音呼叫，并向同一站点中的其他对讲机发送短信。语音控制台、日志记录器、电话网关和数据应用程序无法与该站点的对讲机进行通信。

处于"站点集群"模式后，参与多个站点呼叫的对讲机将只能与同一站点中的其他对讲机进行通信。与其他站点之间进行的通信将丢失。

✏ **注释:** 如果有多个站点覆盖对讲机的当前位置，并且其中一个站点进入"站点集群"模式，则对讲机将漫游到覆盖范围内的另一个站点。

9.3
打开站点锁定

支持的系统：

☑ Capacity Max ☑ Connect Plus ☑ 其他系统

步骤：

按预设的**站点锁定**按钮。

对讲机会显示以下指示：

- 发出一声确定提示音。
- 显示屏显示站点已锁定。
- 对讲机只会在当前站点中进行搜索。

9.4
关闭站点锁定

支持的系统：

☑ Capacity Max ☑ Connect Plus ☑ 其他系统

步骤：

按预设的**站点锁定**按钮。

对讲机会显示以下指示：

- 发出一声否定提示音。
- 显示屏显示站点已解锁。
- 对讲机会搜索其他站点的列表，其中包括当前站点。

9.5
启动手动站点搜索

支持的系统：

☑ Capacity Max ☑ Connect Plus ☑ 其他系统

步骤：

从菜单中，选择**实用程序→对讲机设置→站点漫游→主动搜索**。

对讲机会显示以下指示：

- 发出一声提示音。
- 绿色 LED 指示灯闪烁。

如果对讲机找到新站点，它会显示以下指示：

- 发出一声确定提示音。
- LED 指示灯熄灭。

如果对讲机未找到新站点，它会显示以下指示：

- 发出一声否定提示音。
- LED 指示灯熄灭。

如果范围内有新站点，但对讲机无法与其连接，它会显示以下指示：

- 发出一声否定提示音。

- LED 指示灯熄灭。

对讲机呼叫类型

支持的系统：

☑ Capacity Max ☑ Connect Plus ☑ 其他系统

根据呼叫类型和对讲机上可用的系统，您可以通过多种方式使用对讲机发起呼叫。

表 13： 对讲机呼叫类型

呼叫类型	Capacity Max	Connect Plus	其他系统
组呼 组呼是一种点对多点呼叫操作。对讲机必须配置为组成员，这样才能彼此通信。	✔	✔	✔
广播呼叫 广播呼叫是从任何用户到整个通话组的单向语音呼叫。 广播呼叫功能仅允许呼叫发起用户传输至通话组，而呼叫接收者无法回应。	✔	✘	✔
单呼 单呼是一台对讲机对另一台对讲机的呼叫。 提供以下两种单呼类型： • 非占空呼叫建立 (OACSU) [4] • 完全非占空呼叫建立 (FOACSU) [5]	✔	✔	✔
全呼 全呼是单个对讲机到站点上的每个对讲机或站点组中的每个对讲机的呼叫。它用于发布重要的公告。	✔	✔	✔
选择性呼叫 选择性呼叫是一台对讲机对另一台对讲机的呼叫。该呼叫是在模拟系统中进行的单呼。	✘	✘	✔
无地址呼叫 无地址呼叫是对 16 个预定义组 ID 的组呼。	✘	✘	✔

---

[4] OACSU 在执行对讲机存在检测后设置呼叫，并自动完成呼叫。

[5] FOACSU 在执行对讲机存在检测后设置呼叫。FOACSU 需要用户确认才可完成呼叫，且允许用户接受或拒绝呼叫。

呼叫类型	Capacity Max	Connect Plus	其他系统
开放语音信道模式 (OVCM) OVCM 是指在群呼或个呼期间，从未预配置为在特定系统中工作的对讲机发出的呼叫。OVCM 组呼支持广播呼叫。	✗	✗	✓

当呼叫中断时，您将听到连续的通话禁止提示音。松开 **PTT** 按钮可接收呼叫。

您的经销商可以在对讲机上预设"信道空闲提示"功能。如果"信道空闲提示"功能已启用，则当接收者松开 **PTT** 按钮时，您将会听到一声短提示音，表示此信道空闲，您可以回应。

10.1
在对讲机上发起呼叫

步骤：

1　根据呼叫类型，执行以下操作之一：

选项	操作
发起组呼、单呼、无地址呼叫或选择性呼叫	**a**　选择具有活动 ID 或别名的信道。 **b**　要进行呼叫，请按住 **PTT** 按钮。 **c**　等待通话许可音结束后，再对着麦克风讲话。[6] 　　注释: 对于组呼，您要等 PTT 侧音结束后，再对着麦克风讲话（如已启用此功能）。 **d**　要进行接听，请松开 **PTT** 按钮。
发起广播呼叫、全呼或 OVCM 呼叫	**a**　选择具有激活的组 ID 或别名的信道。 **b**　要进行呼叫，请按住 **PTT** 按钮。 **c**　等待通话许可音或 PTT 侧音结束后，再对着麦克风讲话。

如果对讲机在预定的时间段内未检测到语音活动，则呼叫结束。

10.2
接收和回应无线电呼叫

当收到呼叫时，对讲机会显示以下指示：

• 红色 LED 指示灯亮起。

• 对讲机取消静音，并通过扬声器响起来电。

　　注释: 您无法回应广播呼叫和全呼。对于广播呼叫，当按下 **PTT** 按钮时，对讲禁止提示音将响起。

步骤：

1　要回应呼叫，请按住 **PTT** 按钮。

6　仅适用于 PMUE4426B

2 等待通话许可音结束后，再对着麦克风讲话。

> 📝 **注释:** 对于组呼，等待 **PTT** 侧音结束后，再对着麦克风讲话（如已启用此功能）。

3 要进行接听，请松开 **PTT** 按钮。

接受或拒绝单呼

当您收到配置为完全非占空呼叫建立 (FOACSU) 的单呼时，对讲机会显示以下指示：

- 红色 LED 指示灯亮起。
- 显示屏显示别名和"单呼"图标。

接受单呼

步骤：

1 按住 **PTT** 按钮。
2 等待通话许可音结束后，再对着麦克风讲话。
3 要进行接听，请松开 **PTT** 按钮。

拒绝单呼

步骤：

按预设的**取消**按钮。

章节 11

电话呼叫

支持的系统：

☑ Capacity Max ☑ Connect Plus ☑ 其他系统

电话呼叫是单个对讲机或一组对讲机与电话之间的呼叫。

根据对讲机的配置方式，可能提供也可能不提供以下功能：

- 接入代码。
- 双音多频 (DTMF) 提示音。
- 取消接入代码。
- 在接听电话呼叫时显示主叫方别名或 ID。
- 能够拒绝或接听电话呼叫。

通过在该系统上分配和设置电话号码，可启用电话呼叫功能。联系经销商以确定对讲机的预设情况。

11.1
发起电话呼叫

步骤：

1. 从菜单中，选择**电话**→*<所需 ID>*→*<访问代码>*。
2. 要进行呼叫，请按住 **PTT** 按钮。
3. 要进行接听，请松开 **PTT** 按钮。
4. 在电话呼叫中，如果需要，您可以执行以下任何操作：
   - 使用**键盘**输入额外的数字。
   - 要结束呼叫，请选择**后退/主屏幕**按钮。
   - 要取消接入代码，请在显示屏显示取消接入代码：时使用**键盘**输入取消接入代码。

如果呼叫成功结束，对讲机会显示以下指示：

- 发出一声提示音。
- 显示屏显示呼叫结束。

11.2
双音多频

支持的系统：

☑ Capacity Max ☐ Connect Plus ☑ 其他系统

双音多频 (DTMF) 功能使您的对讲机可以在带有电话系统接口的对讲机系统中工作。

11.3
接收和回复电话呼叫

当收到电话呼叫时，对讲机会显示以下指示：

- 红色 LED 指示灯亮起。

- 对讲机取消静音，并通过扬声器响起来电。

- 显示屏显示"电话呼叫"图标和呼叫状态。

步骤：

1 要回应电话呼叫，请按住 **PTT** 按钮。

2 等待通话许可音结束后，再对着麦克风讲话。

3 要进行接听，请松开 **PTT** 按钮。

如果在预定时间内无语音活动，则呼叫终止并响起提示音。

章节 12

语音中断

语音中断允许对讲机结束任何正在进行的呼叫。

语音中断功能使用反向信道信令来中断任何正在进行的呼叫。您可以在中断期间进行语音传输。

语音中断功能提高了在呼叫过程中向接收者进行新呼叫的可能性。

在对讲机中预设此功能后，用户才能访问"语音中断"功能。请联系您的经销商了解详细信息。

12.1
启用语音中断

步骤：

1　要在正在进行的呼叫过程中中断传输，请按住 **PTT** 按钮。

2　等待通话许可音结束后，再对着麦克风讲话。

章节 13

启动传输中断

支持的系统：

☑ Capacity Max ☐ Connect Plus ☑ 其他系统

步骤：

要中断正在进行的呼叫，请执行以下操作之一：

- 按 **PTT** 按钮。
- 按**紧急呼叫**按钮。
- 对于其他系统，请执行数据传输。
- 对于其他系统，请按预设的**传输中断远程停止**按钮。

接收对讲机显示呼叫中断。

章节 14

高级功能

本章介绍对讲机中可用的功能的操作。

14.1
自动降级

支持的系统：

☐ Capacity Max　☑ Connect Plus　☐ 其他系统

如果 Connect Plus 系统中发生故障，作为一项系统功能，自动降级允许您继续对选定组联系人发起和接收非紧急呼叫。

如果系统中发生故障，对讲机会尝试漫游到其他 Connect Plus 站点。对讲机会搜索可工作的 Connect Plus 站点或降级信道。

降级信道是一个中继器，通常是可工作的 Connect Plus 站点的一部分。此中继器此时无法与站点控制器或 Connect Plus 网络通信。在"自动降级"模式下，中继器作为单个数字中继器工作。"自动降级"模式仅支持非紧急组呼。"自动降级"模式不支持任何其他呼叫类型。

如果站点在您处于降级中继器范围内时返回到正常集群操作，对讲机会自动退出"自动降级"模式。对讲机成功注册后，会发出一声提示音。

如果您在一个可工作站点的范围内，而该站点未处于降级模式下，则可以通过按"漫游请求"按钮搜索可用站点并进行注册。如果无其他可用站点，对讲机会返回到"自动降级"模式。如果不在降级中继器的覆盖范围内，对讲机会进入搜索模式。屏幕显示正在搜索。

14.1.1
"自动降级"模式指示

对讲机使用降级信道时，大约每 15 秒钟您会听到间歇性的"降级提示音"（发射时除外）。对讲机只允许选定组联系人的 PTT（组呼、多组呼或站点全呼）。它不允许进行其他类型的呼叫。

14.1.2
降级模式下的呼叫

降级模式下的呼叫类似于进行常规组呼。您可以选择组呼、多组或站点全呼通讯录。当对讲机在降级信道上工作时，多组的操作与其他组相似。只有为该多组选择的对讲机才能在该信道上通信。呼叫不会通过网络传输给其他站点或其他中继器。

降级模式下无法使用紧急语音呼叫或紧急报警。如果在降级模式下按紧急呼叫按钮，对讲机会发出无效按键提示音。配备显示屏的对讲机还会显示消息功能不可用。

降级模式下无法使用单呼和电话呼叫。如果尝试进行单呼，您将听到拒绝提示音。

"自动降级"模式不支持增强流量信道访问 (ETCA)。如果同时按下两部或多部对讲机上的 **PTT** 按钮，两部对讲机都可以发射信号，直至松开 **PTT** 按钮。在这种情况下，接收对讲机可能无法识别任何传输。

14.2
自动范围应答机系统

支持的系统：

☑ Capacity Max ☐ Connect Plus ☑ 其他系统

自动范围应答机系统 (ARTS) 是一种仅限模拟的功能，专用于在您的对讲机超出其他配备 ARTS 的对讲机的范围时通知您。

配备 ARTS 的对讲机定期发射或接收信号，以确认对讲机位于彼此范围之内。

对讲机提供如下指示：

表 14： 自动范围应答机系统指示

指示	说明
首次提示	• 发出一声提示音。
ARTS 在信号区提示	• 发出提示音（如果已预设）。
ARTS 不在信号区提示	• 发出一声提示音。 • 红色 LED 指示灯快速闪烁。

14.3
信标功能

支持的系统：

☐ Capacity Max ☑ Connect Plus ☐ 其他系统

信标是可购买功能，是 Connect Plus 倒地警报功能的一部分。您的经销商或对讲机系统管理员可以告知信标功能是否适用于您的对讲机。

如果对讲机已启用并且预设了一个或多个倒地警报，则此对讲机也可以启用信标功能。

如果对讲机因为一个倒地警报自动发起紧急呼叫或紧急提示并且对讲机还启用了信标功能，则对讲机会大约每 10 秒钟间歇性地发出一声高音调提示音。间隔可根据是否在对讲机上通话改变。信标提示音的目的在于帮助搜寻人员找到您。如果对讲机还启用了"可视信标"，则对讲机的背光会在信标提示音播放时亮起几秒钟。

如果已按此方法配置对讲机，则您可以使用可预设按钮停止对讲机播放信标提示音。该方法将在接下来的两部分中讨论。如果对讲机无可预设按钮或菜单选项，则可以通过关闭并再次打开对讲机或更改到其他区域（如果对讲机预设了多个区域）来停止信标提示音。

如果对讲机已预设"信标重置"按钮，则可以在不关闭信标功能的情况下停止信标提示音。

14.3.1
打开信标

步骤：

按预设的**信标**按钮。

显示屏会显示确认消息。

14.3.2
关闭信标

步骤：

按预设的**信标**按钮。

显示屏会显示确认消息。

14.4
呼叫提示操作

支持的系统：

☑ Capacity Max ☑ Connect Plus ☑ 其他系统

呼叫提示寻呼使您能够提醒接收者在有空时给您回电。此功能仅对用户别名或 ID 适用。

对于 Capacity Max，呼叫提示功能允许对讲机用户或调度员提醒接收者在有空时回呼呼叫者。此功能中不涉及语音通信。非占空呼叫建立 (OACSU) 单呼允许您立即回应。完全非占空呼叫建立 (FOACSU) 单呼要求您确认呼叫。建议将 OACSU 类型呼叫用于呼叫提示功能。

14.4.1
发起呼叫提示

步骤：

按预设的**单键接入**按钮。
显示屏显示呼叫提示和用户别名或 ID。[7] 红色 LED 指示灯闪烁。

如果请求成功，对讲机会发出一声确定提示音。
如果请求失败，对讲机会发出一声否定提示音。

14.4.2
回应呼叫提示

当收到呼叫提示时，对讲机会显示以下指示：
- 将发出一声重复音。
- 黄色 LED 指示灯闪烁。

步骤：

按 **PTT** 按钮，以单呼方式回应呼叫方。

14.5
呼叫提醒设置

支持的系统：

☑ Capacity Max ☑ Connect Plus ☑ 其他系统

---

[7] 仅适用于 PMUE4424A。

此功能允许您配置呼叫或短信提示音。

14.5.1
配置振动类型

支持的系统：

☐ Capacity Max ☑ Connect Plus ☐ 其他系统

步骤：

> 按预设的**振动类型**按钮。

14.5.2
铃声提示类型

支持的系统：

☐ Capacity Max ☑ Connect Plus ☑ 其他系统

您可以将对讲机呼叫预设为预定的振动呼叫。

如果铃声为瞬间铃声类型，则对讲机会振动一次。如果铃声为重复铃声类型，则对讲机会重复振动。设置为"响铃并振动"时，如果有任何呼入的对讲机事务（例如呼叫提示或信息），对讲机将发出特定的铃声。该铃声听起来像确定提示音或未接呼叫。

14.5.2.1
选择铃声提示类型

您可以将对讲机呼叫预设为预定的振动呼叫。如果铃声为瞬间铃声类型，则对讲机会振动一次。如果铃声为重复铃声类型，则对讲机会重复振动。设置为"响铃并振动"时，如果有任何呼入的对讲机事务（例如呼叫提示或信息），对讲机将发出特定的铃声。该铃声听起来像确定提示音或未接呼叫。

步骤：

> 按预设的**铃声提示类型**按钮。

14.5.3
渐强模式提示音

可将对讲机预设为当对讲机呼叫尚未得到回复时，不断提醒您。这由警报音量随时间自动增强来实现。此功能称为渐强提示音。

14.6
呼叫排队

支持的系统：

☑ Capacity Max ☐ Connect Plus ☐ 其他系统

如果无可用资源处理呼叫，"呼叫排队"功能可将呼叫请求置于系统队列中，以便等待下个可用资源。

14.6.1
接收呼叫队列

步骤：

> 按住 **PTT** 按钮，直至听到呼叫队列提示音。

对讲机发出提示音，显示屏显示呼入队列。

如果呼叫成功，对讲机会显示以下指示：

- 红色 LED 指示灯闪烁。

- 如果启用，将发出通话许可提示音。

您最多有 4 秒时间按住 **PTT** 按钮来开始语音传输。

如果呼叫失败，对讲机会显示以下指示：

- 发出一声否定提示音。

- 显示屏会显示失败通知屏幕 [7]。

- 对讲机终止呼叫并退出呼叫建立。

14.7
动态通话组号码分配

支持的系统：

☑ Capacity Max ☐ Connect Plus ☐ 其他系统

动态通话组号码分配 (DGNA) 功能允许第三方控制台以无线方式向对讲机动态分配通话组和从中删除通话组。

当控制台将 DGNA 分配到您的对讲机时，当前信道将处于 DGNA 模式并具有以下操作：

- 发出一声提示音。

- 显示屏短暂显示 <DGNA 通话组别名> 已分配，然后再返回到主屏幕。

- DGNA 图标出现在状态栏上。

- 主屏幕显示 DGNA 通话组别名。

当控制台从对讲机中删除 DGNA 时，对讲机将恢复之前的通话组并具有以下操作：

- 发出一声提示音。

- 显示屏短暂显示 <DGNA 通话组别名> 已删除，然后再返回到主屏幕。

- 状态栏中的 DGNA 图标消失。

- 主屏幕显示之前的通话组别名。

根据对讲机的预设情况，您可以查看、编辑和收听原来的扫描列表信道和非 DGNA 通话组。

当对讲机处于 DGNA 模式时，按住 **PTT** 按钮操作可以只与当前的 DGNA 通话组通信。要与之前的非 DGNA 通话组通信，请设置预设的**单键接入**按钮。

> 📝 **注释:** 请咨询经销商或系统管理员以确定对讲机的预设情况。

14.7.1
发起 DGNA 呼叫

前提条件： 确保您当前的信道处于 DGNA 模式。

步骤：

要进行呼叫，请按住 **PTT** 按钮。

对讲机会显示以下指示：

- DGNA 提示音响起。

- 显示屏显示 DGNA 图标和别名。

14.7.2
发起非 DGNA 呼叫

步骤：

1 执行以下操作之一：

- 如果对讲机处于 DGNA 模式，请按预设的**单键接入**按钮。

   注释:
   如果对讲机未处于 DGNA 模式，而您按下**单键接入**按钮，则对讲机会发出一声否定提示音，指示出现错误。显示屏保持不变。

- 如果对讲机未处于 DGNA 模式，请按住 **PTT** 按钮。

   注释:
   在否定提示音响起之前按下 PTT 按钮，对讲机会返回到主屏幕。当对讲机处于主屏幕时，按下 PTT 会向 DGNA 通话组发起呼叫。

对讲机会显示以下指示：

- 发出一声确定提示音。

- 发出语音提示音。

- 显示屏短暂显示 <通话组别名> 和按下 PTT。

14.7.3
接收和回应 DGNA 呼叫

当收到 DGNA 呼叫时，对讲机会显示以下指示：

- DGNA 提示音响起。

- 显示屏显示 DGNA 图标和别名。

- 对讲机取消静音，并通过扬声器响起来电。

步骤：

1 要进行呼叫，请按住 **PTT** 按钮。

2 要进行接听，请松开 **PTT** 按钮。

14.8

紧急呼叫操作

支持的系统：

☑ Capacity Max   ☑ Connect Plus   ☑ 其他系统

紧急警报用于指示紧急状况。您可以在任何时候发起紧急警报，甚至在当前信道上有活动的情况下。

您只能为每个信道的"紧急呼叫"按钮分配一种紧急呼叫模式。您的对讲机支持以下紧急呼叫模式：

表 15： 紧急呼叫模式

紧急呼叫模式	说明
紧急警报	紧急警报不是语音呼叫。此警报是紧急通知，将发送给预设为接收这些警报的对讲机。
带呼叫的紧急警报	对讲机可发送紧急警报。紧急警报经过确认后，对讲机组就可以通过分配的紧急信道进行通信。按住 **PTT** 按钮进行通话。
带语音跟随的紧急警报	对讲机可发送紧急警报。紧急警报经过确认后，对讲机麦克风（称为紧急麦克风）将自动激活。无需按 **PTT** 按钮即可通过紧急麦克风与对讲机组进行通信。 注释: • 如果已启用紧急循环模式，则对讲机会在预设的持续时间内重复紧急麦克风和接收时间段。 • 如果在预设的紧急麦克风接收期间按住 **PTT** 按钮，对讲机会继续发起呼叫并停止紧急麦克风接收时段计时器。您的对讲机仍处于紧急呼叫模式。松开 **PTT** 按钮后，紧急麦克风接收时段计时器会重新启动。 • 如果紧急警报请求发送失败，对讲机不会再尝试发送请求，而会直接进入紧急麦克风状态。
静默紧急警报	对讲机发送紧急警报通知，但无任何音频或视觉提示。
带呼叫的静默紧急警报	对讲机发送紧急警报通知，但无任何音频或视觉提示。对讲机将抑制紧急警报的所有音频和视觉提示，直到您按住 **PTT** 按钮进行通话。
带语音跟随的静默紧急警报	对讲机发送紧急警报通知，但无任何音频或视觉提示。紧急警报经过确认后，紧急麦克风将被激活。无需按 **PTT** 按钮即可与对讲机组进行通信。 注释: 只有按下 **PTT** 按钮时，这些提示才会出现。

您的经销商可以设置紧急呼叫打开或关闭功能，以及紧急呼叫按钮的按钮按下持续时间。请联系您的经销商了解详细信息。

您的经销商可以预设紧急搜索提示音。预设提示音后，对讲机将发出紧急搜索提示音。当对讲机传输或接收语音时，此提示音会静音，而当对讲机退出紧急呼叫模式时，此提示音会停止。

14.8.1

忽略紧急恢复呼叫

支持的系统：

☐ Capacity Max   ☑ Connect Plus   ☐ 其他系统

此增强功能为您的对讲机提供一个可忽略正在进行的紧急恢复呼叫的选项。

要启用"忽略紧急恢复呼叫"，必须通过 Connect Plus 客户编程软件 (CPCPS) 配置您的对讲机。

请联系您的经销商了解详细信息。

14.8.2
发送紧急警报

步骤：

按预设的**紧急呼叫开**按钮。

对讲机会显示以下指示 [7]：

- 显示屏显示发送警报和目标别名。
- 红色 LED 指示灯闪烁。
- 将显示"紧急呼叫"图标。

如果警报发送成功，对讲机会显示以下指示：

- 紧急呼叫提示音将响起。
- 绿色 LED 指示灯闪烁。

如果进行所有尝试后警报发送仍失败，对讲机会显示以下指示：

- 发出一声否定提示音。
- 显示屏显示警报失败。

14.8.3
发送带呼叫的紧急警报

步骤：

1 按预设的**紧急呼叫开**按钮。

如果警报发送成功，对讲机会显示以下指示：

- 紧急呼叫提示音将响起。
- 绿色 LED 指示灯闪烁。
- 对于其他系统 [7]，显示屏显示已发送警报。

2 要进行呼叫，请按住 **PTT** 按钮。

3 等待通话许可音结束后，再对着麦克风讲话。

4 要进行接听，请松开 **PTT** 按钮。

如果对讲机在预定的时间段内未检测到语音活动，则呼叫结束。

14.8.4
发送带语音跟随的紧急警报

步骤：

1 对于 Capacity Max 和 Connect Plus，按预设的**紧急呼叫开**按钮。

对于 Capacity Max，如果警报发送成功，对讲机会显示以下指示：
- 绿色 LED 指示灯闪烁。
- 显示屏显示发射警报和目标别名 [7]。
- 显示屏显示发射电报和目标别名。[7]
- "紧急呼叫"图标出现。

对于 Connect Plus，如果警报发送成功，则绿色 LED 指示灯闪烁，并且紧急麦克风激活。

2 对着麦克风讲话，而不用按下 **PTT** 按钮。

对讲机将在以下情况中自动停止传输：
- 在启用了紧急循环模式时，紧急麦克风和接收呼叫之间的循环持续时间到期。
- 在禁用了紧急循环模式时，紧急麦克风的持续时间到期。

3 对于 Capacity Max 和其他系统，按**紧急呼叫关**按钮退出紧急呼叫模式。

14.8.5
重新启动紧急呼叫模式

步骤：

1 执行以下操作之一：
- 当对讲机处于紧急呼叫模式时更改信道。

    ✏️ **注释：** 在新信道上启用紧急警报后，才能重新启动紧急呼叫模式。
- 在紧急呼叫发起或传输状态下，按预设的**紧急呼叫开**按钮。

对讲机将退出紧急呼叫模式，然后重新启动紧急呼叫。

14.8.6
退出紧急呼叫模式

当发生以下情况时，对讲机会自动退出紧急呼叫模式：
- 收到系统的确认消息（仅适用于紧急警报）。
- 已达到发送警报的最大尝试次数。
- 关闭对讲机。当您打开对讲机时，紧急呼叫模式不会自动重新启动。
- 将当前信道更改为无紧急呼叫的信道。

步骤：

按预设的**紧急呼叫关**按钮。

如果成功退出紧急呼叫模式，对讲机会显示以下指示：

- 提示音停止。

- 红色 LED 指示灯熄灭。

- 对于 Capacity Max，当收到确认消息时，发射对讲机的显示屏将显示取消紧急呼叫模式成功，否则会显示取消紧急呼叫模式失败。

  📝 **注释:** 如果在发射对讲机上启用了"取消紧急呼叫"配置，则接收对讲机中的紧急警报将停止，而且该状态将添加到接收对讲机的警报列表中。

14.9
倒地警报（跌倒警报）

☐ Capacity Max ☑ Connect Plus ☑ 其他系统

倒地警报功能（以下称为"跌倒警报"）能够让对讲机在您面临危险时提醒他人。

如果对讲机以指定角度倾斜、移动或静止一段时间，它会以提示音提示您。如果您在预定义的提醒计时器到期前没有回应提示，对讲机将自动发送紧急警报或紧急呼叫。

要防止对讲机发送紧急警报或紧急呼叫，您可以采取以下措施：

- 对于倾斜警报，您必须将对讲机恢复到垂直位置。

- 对于移动警报，您必须让对讲机停止移动。

- 对于防移动警报，您必须移动对讲机。

如果启用了多个倒地警报，则对讲机会在检测到第一个违背条件的移动时播放提示音。

  📝 **注释:**
  在降级模式下工作时，对讲机不支持"倒地警报"。

14.9.1
设置倒地警报功能

步骤：

按预设的**倒地警报**按钮。

14.9.2
重置倒地警报

支持的系统：

☐ Capacity Max ☑ Connect Plus ☐ 其他系统

可以在不打开或关闭警报的情况下重置倒地警报。重置倒地警报会停止倒地警报提示音，并重置警报计时器。您仍然必须纠正移动违规。如果移动违规在一段时间内未得到纠正，对讲机将再次播放提示音。

14.10
主信道提醒

支持的系统：

☑ Capacity Max ☑ Connect Plus ☑ 其他系统

如果对讲机在一段时间内未设置为主信道，则此功能会提供提醒。

如果此功能已启用并且对讲机在一段时间内未设置为主信道，则对讲机将定期出现以下指示：

- 发出一声提示音，并且主信道提醒通知将响起。
- 显示屏显示非主信道 [7]。

14.10.1
将主信道提醒静音

发出主信道提醒时，您可以暂时将提醒静音。

步骤：

按预设的**将主信道提醒静音**按钮。

[87]

显示屏显示 HCR 已静音。

14.10.2
设置新的主信道

步骤：

按**重置主信道**可预设按钮。

对于 Capacity Max，显示屏会显示新的主信道 [7]。

14.11
室内定位

支持的系统：

☑ Capacity Max ☐ Connect Plus ☑ 其他系统

✎ **注释:** 室内定位功能适用于具有最新软件和硬件的型号。请联系您的经销商或系统管理员了解详细信息。

您可以使用室内定位来跟踪对讲机用户的位置。激活室内定位功能时，对讲机处于受限制的可发现模式。专用信标用于定位对讲机并确定其位置。

14.11.1
设置室内定位

步骤：

按住预设的**室内定位**按钮。

如果室内定位成功打开，对讲机将发出一声确定提示音。
如果室内定位未打开，对讲机将发出一声否定提示音。

14.12
单独工作者

支持的系统：

8

☑ Capacity Max   ☐ Connect Plus   ☑ 其他系统

如果在预定义的时间内没有用户活动（按按钮或激活信道选择器），此功能就会提示紧急情况。

如果在预定义的时间内没有用户活动，那么一旦不活动计时器到期，对讲机就会使用语音提示预先警告您。

如果在预定义的提醒计时器到期前没有收到您的确认，对讲机将启动由经销商预设的紧急条件。

14.13
监听功能

支持的系统：

☐ Capacity Max   ☐ Connect Plus   ☑ 其他系统

该功能允许您远程激活目标对讲机的麦克风。您可以使用该功能监听目标对讲机四周的任何声音活动。

> **注释:** 此功能不适用于"智能信道共享 - 单站点"和"智能信道共享 - 多站点"。

14.13.1
监听信道

步骤：

1 按住预设的**监听**按钮。

   对讲机会显示以下指示：

   • 显示屏显示监听图标 [7]。

   • 您听到对讲机活动。

   • 黄色 LED 指示灯亮起 [7]。

   • 显示屏显示**监听**图标。

2 要进行呼叫，请按住 **PTT** 按钮。

3 要进行接听，请松开 **PTT** 按钮。

14.13.2
永久监听

使用永久监听功能来持续监听选定信道的活动。

14.13.2.1
设置永久监听

步骤：

按下预设的**永久监听**按钮。

当对讲机进入该模式时，它会显示以下指示：

• 发出一声提示音。

• 黄色 LED 指示灯亮起。

- 显示屏显示永久监听开和"监听"图标。

当对讲机退出该模式时，它会显示以下指示：

- 发出一声提示音。
- 黄色 LED 指示灯熄灭。
- 显示屏显示永久监听关。

14.14
优先监听

支持的系统：

☑ Capacity Max   ☐ Connect Plus   ☐ 其他系统

优先监听允许对讲机在通话组呼叫期间接收来自优先级更高的通话组的传输。此功能仅适用于接收组列表中的成员。

📝 **注释:** 此功能只能在启用通话组扫描功能时才可访问。

优先级通话组具有优先级 1 (P1) 和优先级 2 (P2)。对讲机根据以下优先级接收传输：

1 P1 通话组的紧急呼叫。

2 P2 通话组的紧急呼叫。

3 接收组列表中非优先级通话组的紧急呼叫。

4 全呼。

5 P1 通话组呼叫。

6 P2 通话组呼叫。

7 接收组列表中的非优先级通话组。

14.15
远程监听

支持的系统：

☑ Capacity Max   ☐ Connect Plus   ☑ 其他系统

此功能用于打开具有用户 ID 的目标对讲机的麦克风。您可以使用此功能远程监听目标对讲机四周的任何声音活动。

您的对讲机和目标对讲机必须进行预设才允许您使用此功能。

如果已启动，则目标对讲机上的绿色 LED 闪烁一次。在预设的持续时间后或者当目标对讲机上执行了用户操作时，此功能会自动停止。

对于其他系统，远程监控包括两种类型：

- 无身份验证的远程监听
- 带身份验证的远程监听

当您的对讲机利用用户身份验证打开目标对讲机的麦克风时，需要提供密码。该密码通过对讲机编程软件预设到目标对讲机中。

14.15.1
启动远程监听

步骤：

按预设的**远程监听**按钮。

如果请求成功，对讲机会显示以下指示：

- 发出一声确定提示音。

- 显示屏会显示确定性的小型通知[7]。

- 开始在预设持续时间内播放来自被监听对讲机的音频，并且显示屏显示远程监听。计时器到期时，对讲机发出一声提示音，并且 LED 指示灯熄灭[7]。

如果请求失败，对讲机会显示以下指示：

- 发出一声否定提示音[7]。

- 显示屏会显示否定性的小型通知。

14.16
静音模式

支持的系统：

☑ Capacity Max ☑ Connect Plus ☑ 其他系统

静音模式可提供一个将对讲机上的所有语音提示静音的选项。

启用"静音模式"后，所有语音提示都将静音，优先级更高的功能除外（如紧急呼叫操作）。

退出"静音模式"后，您的对讲机将恢复播放正在进行的提示音并恢复音频传输。

可通过设置静音模式计时器，在预定义的持续时间内启用静音模式。该计时器的持续时间是通过对讲机菜单配置的，范围介于 0.5 和 6 小时之间。计时器到期后将退出静音模式。

如果计时器停留在 **0** 处，则对讲机将在无限期的时间段内保持静音模式，直至对讲机移至正面朝上位置或按下预设的**静音模式**按钮。

⚠️ **重要说明:** 您一次只能启用"正面朝下"或"倒地警报"中的其中一种功能。无法同时启用两种功能。

14.16.1
打开静音模式

步骤：

执行以下操作之一：

- 将对讲机短暂置于正面朝下的位置。

- 按预设的**静音模式**按钮。

如果"静音模式"已启用，对讲机会显示以下指示：

- 发出一声确定提示音。

- 红色 LED 指示灯持续闪烁，直至退出静音模式。

- 显示屏显示静音模式开。[7]

- 主屏幕显示"静音模式"图标。

- 对讲机静音。

- 如果已设置静音模式计时器，计时器将开始倒数配置的持续时间。

14.16.2
退出静音模式

当静音模式计时器到期时，对讲机会自动退出静音模式。您也可以手动退出静音模式。

步骤：

执行以下操作之一，手动退出静音模式：

- 按预设的**静音模式**按钮。

- 按住 **PTT** 按钮，然后对着麦克风讲话。

- 将对讲机短暂置于正面朝上的位置。

- 切换到任何未预设的信道。

如果静音模式已禁用，对讲机会显示以下指示：

- 发出一声否定提示音。

- 闪烁的红色 LED 指示灯熄灭。

- 显示屏显示静音模式关。[7]

- 静音模式图标从主屏幕上消失。

- 对讲机退出静音模式并恢复扬声器状态。

- 即使计时器未到期，静音模式计时器也会停止。

14.17
无线编程

支持的系统：

☑ Capacity Max ☐ Connect Plus ☑ 其他系统

您的经销商可通过不带任何物理连接的无线编程 (OTAP) 远程更新对讲机。某些设置还可使用 OTAP 配置。

当对讲机进行 OTAP 时，红色 LED 指示灯闪烁。

当对讲机收到大批量数据时，它会显示以下指示：

- 如果按 **PTT** 按钮，会发出一声否定提示音。

- 显示屏显示"大批量数据"图标。

- 信道变得繁忙。

当对讲机在自动重启后开机时，它会显示以下指示：

- 如果程序更新成功，显示屏会显示软件更新完成。

- 如果程序更新失败，系统将发出一声提示音，红色 LED 指示灯闪烁一次，同时显示屏显示软件更新失败。

注释:
如果程序更新失败，则每次打开对讲机时都会显示更新失败的指示。请与您的经销商联系，使用最新软件对对讲机进行重新编程，以消除更新失败的指示。

14.18

扫描

支持的系统：

☐ Capacity Max ☑ Connect Plus ☑ 其他系统

根据对讲机支持的系统，对讲机在扫描时可能有不同的行为。

通话组扫描

通话组扫描不适用于 Capacity Max。

此功能允许对讲机监听并加入接收组列表中所定义的通话组的呼叫。

启用扫描时，对讲机将对其接收组列表中的所有成员取消静音。禁用扫描后，对讲机将不会接收接收组列表中任何成员的传输信号，但全呼、永久通话组和选定通话组除外。

信道扫描

信道扫描可用于其他系统。

当您启动扫描时，您的对讲机通过扫描预设的扫描列表来查看当前信道是否有语音活动。如果您位于数字信道上，而您的对讲机锁定了模拟信道，则对讲机会在呼叫过程中自动从数字模式切换为模拟模式，而且如果您位于模拟信道上，则处理方法相同。

表 16：扫描方法

方法	说明
主信道扫描（手动）	对讲机扫描您的扫描列表中的所有信道或通话组。在扫描时，根据设置不同，对讲机可自动从最后一个被扫描的活动信道或通话组开始，或从开启扫描的信道开始。
自动扫描（自动）	当您选择一个已经启用自动扫描的信道或通话组时，对讲机会自动开始扫描。

如果错过了来自扫描列表中的通话组或信道的呼叫，则可能是由于以下情况：

- 扫描功能未打开。
- 扫描列表成员已通过菜单停用。
- 您已在参与其他呼叫。
- 对于多站点系统，您的当前站点未注册任何扫描通话组成员。

　　注释: 如果对讲机加入了来自不同区域的区域扫描列表成员的呼叫且呼叫闲置时间计时器在您能够响应之前到期，则为了响应，您必须导航到扫描列表成员的区域和信道并启动新呼叫。

14.18.1

设置扫描

步骤：

　　按预设的**扫描**按钮开始或停止扫描。

如果扫描已打开，对讲机会显示以下指示：

- 发出一声确定提示音。
- 黄色 LED 指示灯闪烁。

如果扫描已关闭，对讲机会显示以下指示：

- 发出一声否定提示音。
- LED 指示灯熄灭。

14.18.2
扫描对讲

☐ Capacity Max ☑ Connect Plus ☐ 其他系统

对讲功能使您能够在扫描过程中回应传输。

根据您配置扫描对讲功能的方式，如果对讲机通过在可选通话组扫描列表中扫描呼叫，且在扫描呼叫时按下 PTT 按钮，您将看到两种不同的情况。

表 17： 扫描对讲类型

类型	说明
扫描对讲已禁用	在正在进行扫描到的呼叫期间，如果按下 **PTT** 按钮，则扫描到的呼叫将终止，并启动新呼叫。
扫描对讲已启用	在正在进行扫描到的呼叫期间，如果按下 **PTT** 按钮，则可以与扫描到的呼叫对讲。

注释:
如果您面对以下情形：

1. 扫描到未分配到当前选定区域信道位置的组呼叫
2. 错过呼叫的闲置时间。

请执行以下操作：

1. 切换到适当区域。
2. 选择通话组的信道位置以回复该组。

14.18.3
无用信道

支持的系统：

☐ Capacity Max ☐ Connect Plus ☑ 其他系统

无用信道是持续生成不需要的呼叫的信道。

您可以暂时从扫描列表中删除不需要的信道，稍后再将其恢复。此功能不适用于指定为选定信道的信道。

14.18.3.1
删除无用信道

前提条件： 对讲机已被扫描到"无用信道"中。

步骤：

1. 按下预设的**无用信道删除**按钮，直至听到提示音。
2. 松开预设的**无用信道删除**按钮。

14.18.3.2
恢复无用信道

步骤：

执行以下操作之一：

- 重启对讲机。
- 关闭然后打开扫描。[6]
- 使用**信道选择**旋钮更改信道。

14.18.4
投票扫描

支持的系统：

☐ Capacity Max   ☐ Connect Plus   ☑ 其他系统

如果区域内有多个在不同模拟信道上发射相同信息的基站，投票扫描可以为您提供较大的覆盖范围。

您的对讲机将扫描多个基站的模拟信道，然后执行投票过程，以选择最强的接收信号。

在投票扫描过程中，对讲机显示以下指示：

- 黄色 LED 指示灯闪烁。
- 显示屏显示投票扫描图标。

14.18.5
扫描列表

☐ Capacity Max   ☐ Connect Plus   ☑ 其他系统

您可以在扫描列表中创建和分配单个信道或通话组。对于当前信道或通话组，通过循环其扫描列表中的指定信道或通话组序列，对讲机可以扫描是否有语音活动。扫描列表也称为接收组列表。

对讲机最多可支持 250 个扫描列表，每个列表最多 16 个成员。每个扫描列表支持模拟和数字条目的混合。

> 📝 **注释:** 此功能不适用于智能信道共享。[6]

14.18.6
灵活接收列表

支持的系统：

☐ Capacity Max   ☐ Connect Plus   ☑ 其他系统

灵活接收列表功能使您可以在接收通话组列表上创建和分配成员。

对讲机最多支持列表中的 16 个成员。

> 📝 **注释:** 此功能仅适用于智能信道共享。

14.18.6.1
设置灵活接收列表

灵活接收列表功能使您可以在接收通话组列表上创建和分配成员。

步骤：

按预设的**灵活接收列表**按钮，打开或关闭该功能。

如果"灵活接收列表"已启用，对讲机会显示以下指示：

- 黄色 LED 指示灯闪烁。
- 发出一声确定提示音。

如果"灵活接收列表"已禁用，对讲机会显示以下指示：

- LED 指示灯熄灭。
- 发出一声确定提示音。

14.18.7
多通话组加入

支持的系统：

☑ Capacity Max ☐ Connect Plus ☐ 其他系统

对讲机在一个站点最多可配置七个通话组。

在接收组列表中的 16 个通话组中，最多可将七个通话组分配为加入通话组。系统会自动加入选定通话组和优先级通话组。

14.19
优先呼叫

支持的系统：

☑ Capacity Max ☐ Connect Plus ☐ 其他系统

"优先呼叫"允许系统在所有信道都处于繁忙状态时抢占正在进行的非优先呼叫之一，并发起所请求的高优先级呼叫。

如果高优先级呼叫占用了所有信道，则系统不抢占任何呼叫，而是将请求高优先级呼叫置于呼叫队列中。如果系统未能将请求高优先级呼叫置于呼叫队列中，则会声明故障。

优先呼叫的默认设置可预先配置。使用以下功能时，呼叫优先级将自动恢复为预配置的设置。

- 所有语音呼叫
- DMR III 短信/短信
- 任务单
- 远程监听

14.19.1
切换优先呼叫级别

步骤：

按下预设的**切换优先呼叫级别**按钮。

如果"高优先级"已启用，对讲机会显示以下指示：

- 显示屏显示下一个呼叫：高优先级。[7]
- 主屏幕上将显示"呼叫优先级高"图标。

如果"正常优先级"已启用，对讲机会显示以下指示：

- 显示屏显示下一个呼叫：正常优先级 [7]。
- 主屏幕上的"呼叫优先级高"图标将会消失。

14.20
对讲机终止

支持的系统：

☑ Capacity Max ☐ Connect Plus ☐ 其他系统

此功能是限制对对讲机进行未经授权访问的增强型安全措施。

对讲机终止会导致对讲机无法正常工作。例如，您可能想要失窃或放置不当的对讲机停止运行，以防未经授权的使用。

开机后，被终止的对讲机将在屏幕上短暂显示对讲机已终止，以表示对讲机当前处于终止状态。[7]

注释: 被终止的对讲机只能在 Motorola Solutions 维修点恢复。请联系您的经销商了解详细信息。

14.21
响应抑制

支持的系统：

☑ Capacity Max ☐ Connect Plus ☑ 其他系统

此功能有助于防止对讲机回应任何呼入传输。

注释: 请联系您的经销商了解详细信息。

如果启用此功能，则您的对讲机将不会生成任何呼出传输来回应呼入传输（如对讲机检测、呼叫提示、对讲机遥毙、远程监听、自动注册服务 (ARS)）和回复私人消息。

如果启用此功能，则您的对讲机无法接收已确认单呼。但是，您的对讲机可以手动发送传输信号。

14.21.1
设置响应抑制

步骤：

按预设的**响应抑制**按钮。

如果响应抑制成功关闭，对讲机会显示以下指示：

- 发出一声确定提示音。
- 显示屏显示确定性的小型瞬间通知。[7]

如果响应抑制关闭失败，对讲机会显示以下指示：

- 发出一声否定提示音。
- 显示屏显示否定性的小型瞬间通知。[7]

14.22
安全性

支持的系统：

☐ Capacity Max ☐ Connect Plus ☑ 其他系统

此功能允许您临时关闭或恢复系统中的任何对讲机。

例如，您可以遥毙被盗的对讲机以防止未经授权的用户使用，并在对讲机找回后恢复或启用它。

当对讲机临时关闭时，对讲机无法在执行临时关闭程序的系统上请求或接收任何用户发起的服务。但是，对讲机可切换为另一系统。当对讲机被临时关闭或遥毙后，它可以继续发送 GNSS 定位报告，并且可对其进行远程监听。

对于其他系统，无论有无身份验证，您都可以临时关闭或恢复对讲机。

身份验证对讲机遥毙是一项付费功能，当您启用或遥毙对讲机时，需要进行验证。当您的对讲机通过用户身份验证遥毙目标对讲机时，需要提供密码。该密码通过客户编程软件 (CPS) 预设在目标对讲机中。

> 📝 **注释:** 请与经销商联系以启用此功能。

14.22.1
禁用对讲机

步骤：

按预设的**对讲机遥毙**按钮。

如果请求成功，对讲机会显示以下指示：

- 发出一声确定提示音。
- 显示屏会显示确定性的小型通知。

如果请求失败，对讲机会显示以下指示：

- 发出一声否定提示音。
- 显示屏会显示否定性的小型通知。

14.22.2
激活对讲机

步骤：

按预设的**对讲机遥毙**按钮。

如果请求成功，对讲机会显示以下指示：

- 发出一声确定提示音。

- 显示屏会显示确定性的小型通知。

如果请求失败，对讲机会显示以下指示：

- 发出一声否定提示音。

- 显示屏会显示否定性的小型通知。

14.23
状态信息

支持的系统：

☑ Capacity Max ☐ Connect Plus ☐ 其他系统

此功能允许对讲机向其他对讲机发送状态信息。

快速状态列表使用对讲机编程软件进行配置，最多可包含 99 个状态。

每个状态信息的最大长度为 16 个字符。

请联系您的经销商了解详细信息。

> **注释:** 每个状态都有一个介于 0-99 的对应数值。可为每个状态指定一个别名，以便于参考。

如果启用"文本转语音"功能，则允许对讲机通过语音方式指示接收的状态信息。[7]

14.23.1
发送状态信息

步骤：

按预设的**单键接入**按钮。

如果状态信息发送成功，对讲机会显示以下指示：
- 发出一声确定提示音。
- LED 指示灯熄灭。
- 显示屏显示确定性的小型通知，并在已发送的状态信息旁边显示 ✓。

如果状态信息发送失败，对讲机会显示以下指示：
- 发出一声否定提示音。
- LED 指示灯熄灭。
- 显示屏显示失败通知。

14.24
短信发送

支持的系统：

☑ Capacity Max ☑ Connect Plus ☑ 其他系统

您的对讲机可以接收来自另一部对讲机或短信应用程序的数据。

有两种类型的短信，即数字车载台对讲机 (DMR) 短信和普通短信。一条 DMR 短信的最大长度为 23 个字符。一条普通短信的最大长度为 280 个字符，包括主题行。仅当从电子邮件应用程序收到信息时，主题行才会出现。

> **注释：**
> 最大字符长度仅适用于具有最新软件和硬件的型号。对于具有较旧软件和硬件的对讲机型号，一条普通短信的最大长度为 140 个字符。请联系您的经销商了解详细信息。

14.24.1
发送预制短信

步骤：

按预设的**短信/单键接入**按钮。

对于 Capacity Max 和其他系统，如果短信发送成功，对讲机会显示以下指示：

- 红色 LED 指示灯闪烁。
- 发出一声提示音。

对于 Connect Plus，如果短信发送成功，会发出一声提示音。

对于 Capacity Max 和其他系统，如果短信发送失败，会发出一声提示音。

对于 Connect Plus，如果短信发送失败，屏幕会显示信息发送失败。

14.25
禁止发射

支持的系统：

☐ Capacity Max ☐ Connect Plus ☑ 其他系统

"禁止发射"功能允许您阻止来自您对讲机的所有发射。

14.25.1
启用或禁用禁止发射

步骤：

按预设的**禁止发射**按钮。

如果禁止发射已启用，对讲机会显示以下指示：

- 发出一声确定提示音。
- 显示屏显示禁止发射打开。

如果禁止发射已禁用，对讲机会显示以下指示：

- 发出一声否定提示音。

> **注释：** 禁止发射的状态在对讲机开机后不会更改。

章节 **15**

实用程序

本章介绍对讲机中可用的实用功能操作。

15.1
检查电池电量强度

支持的系统：

☐ Capacity Max　　☐ Connect Plus　　☑ 其他系统

步骤：

> 按预设的**电池指示灯**按钮。

会发生以下情况之一：

- 黄色 LED 指示灯长亮表示电池电量中等。

- 绿色 LED 指示灯长亮表示电池电量全满。

- 红色 LED 指示灯闪烁表示电池电量低。

15.2
密码锁定

☑ Capacity Max　　☐ Connect Plus　　☑ 其他系统

可以设置密码以限制对对讲机的访问。每次打开对讲机时，都必须输入密码。

您的对讲机支持四位密码输入。

在锁定状态下，您的对讲机无法接收呼叫。

输入密码时，这些按钮可充当数字键盘：

信道选择旋钮
> 位置 1-9：数字 1-9

> 位置 10：数字 10

侧面按钮
> 侧面按钮 1 和 2：数字 1 和 2。

15.2.1
访问带密码的对讲机

步骤：

1　使用**信道选择旋钮**输入四位数密码中的第一位数字。

2　按**侧面按钮 1** 或 **2**，输入密码的其余三位数字。

如果输入的密码正确，则对讲机开机。

如果您在第一次和第二次尝试后输入了错误的密码，对讲机会发出连续的提示音。

如果您在第三次尝试后输入了错误的密码，对讲机会显示以下指示：

- 发出一声提示音。

- 黄色 LED 指示灯双闪。

- 对讲机进入锁定状态 15 分钟。

> **注释:**
> 您可以重复这些步骤以输入密码。您有三次尝试机会，之后对讲机会进入锁定状态 15 分钟。等待 15 分钟，然后重复相关步骤。
>
> 如果在锁定状态下重启对讲机，计时器将重启。

15.2.2
解除对讲机的锁定状态

步骤：

1 要解除对讲机的锁定状态，请执行以下操作之一：

选项	操作
在对讲机已打开的情况下解除对讲机的锁定状态	**a** 等待 15 分钟。 **b** 按照 访问带密码的对讲机 中的步骤访问对讲机。
在对讲机已关闭的情况下解除对讲机的锁定状态	**a** 打开对讲机。 　　> **注释:** 对讲机将重启锁定状态的 15 分钟计时器。 **b** 等待 15 分钟。 **c** 按照 访问带密码的对讲机 中的步骤访问对讲机。

15.3
设置回声抑制器

步骤：

按预设的**回声抑制器**按钮。

如果设置成功，对讲机会发出一声确定提示音。

如果设置失败，对讲机会发出一声否定提示音。

15.4
设置全球导航卫星系统

全球导航卫星系统 (GNSS) 是一种卫星导航系统，用于确定对讲机的精确位置。GNSS 包括全球定位系统 (GPS) 和北斗导航卫星系统 (BDS)。

步骤：

按预设的 GNSS 按钮以在对讲机上打开或关闭 **GNSS**。

15.5

设置智能音频

您的对讲机会自动调整音量以克服环境中当前存在的背景噪音（包括静态和非静态噪音源）。此功能只对接收的音频有效，不会影响发射的音频。

步骤：

按预设的**智能音频**按钮。

15.6

设置选件板

支持的系统：

☑ Capacity Max ☐ Connect Plus ☑ 其他系统

步骤：

按下预设的**选件板**按钮。

15.7

设置功率级别

步骤：

按下预设的**功率级别**按钮，以将信号传输到更长或更短的距离。

如果设置成功，对讲机会显示以下指示：

- 发出一声确定提示音。
- 对讲机以所需的功率级别传输信号。

如果设置失败，对讲机会显示以下指示：

- 发出一声否定提示音。
- 对讲机信号传输距离保持不变。

15.8

设置对讲机提示音/提示

步骤：

按预设的**所有提示音/提示**按钮。

如果设置成功，对讲机会发出一声确定提示音。

如果设置失败，对讲机会发出一声否定提示音。

15.9

设置颤音增强

支持的系统：

☑ Capacity Max ☐ Connect Plus ☑ 其他系统

当您以包含许多唇齿抖音（卷舌"R"）发音的语言说话时，可以启用此功能。

步骤：

按预设的**颤音增强功能**按钮打开或关闭此功能。

如果设置成功，对讲机会发出一声确定提示音。

如果设置失败，对讲机会发出一声否定提示音。

15.10
语音提示

此功能使对讲机能够以语音方式指示当前分配的区域或信道。此音频指示器可根据客户需求进行自定义。

15.10.1
设置语音提示

支持的系统：

☑ Capacity Max   ☑ Connect Plus   ☑ 其他系统

步骤：

按预设的**语音提示**按钮。

如果设置成功，对讲机会发出一声确定提示音。

如果设置失败，对讲机会发出一声否定提示音。

15.11
在对讲机内置扬声器和有线附件之间切换音频路由

支持的系统：

☑ Capacity Max   ☐ Connect Plus   ☑ 其他系统

前提条件：
将带扬声器的有线附件连接到对讲机。

步骤：

1 按下预设的**音频切换**按钮，在对讲机的内置扬声器和有线附件的扬声器之间切换音频路由。

> 📝 **注释:** 关闭对讲机或断开附件会将音频路由重置为对讲机的内置扬声器。

如果切换了音频路由，对讲机会发出一声提示音。

15.12
文本转语音

支持的系统：

☑ Capacity Max ☑ Connect Plus ☑ 其他系统

此功能让对讲机可以通过语音方式指示以下功能：

- 当前信道
- 当前区域
- 打开或关闭预设的按钮功能
- 收到的短信的内容
- 收到的任务的内容

> 注释:
> 如果文本转语音已启用，则语音提示功能会自动被禁用。如果语音提示已启用，则将自动禁用文本转语音功能。
>
> 仅适用于 PMUE4426B。

15.12.1
设置文本转语音

步骤：

请执行以下操作：

- 对于 Capacity Max 和其他系统，按预设的**文本转语音**按钮以收听收到的短信。
- 对于 Connect Plus，按预设的**语音提示**按钮打开或关闭此功能。

15.13
声控传输

支持的系统：

☐ Capacity Max ☐ Connect Plus ☑ 其他系统

声控传输 (VOX) 允许您在预设的信道上发起免提语音激活呼叫。在支持 VOX 功能的附件检测到语音时，对讲机会按预设时长自动传输语音。

> 注释:
> 此功能不适用于频率相同的民用频段信道。[6]
>
> 请联系您的经销商或管理员了解详细信息。

15.13.1
设置声控传输

步骤：

按预设的 **VOX** 按钮打开或关闭此功能。

部分 I

经认可的附件列表

Motorola Solutions 提供以下认可的附件来提高数字手持式双向对讲机的工作效率。

表 18：天线

部件号	说明
PMAE4069__	UHF，403–450 MHz，螺旋天线
PMAE4070__	UHF，440–490 MHz，螺旋天线
PMAE4071__	UHF，470–527 MHz，螺旋天线
PMAE4079__	UHF，403–527 MHz，短型天线

表 19：电池

部件号	说明
NNTN8129_	IMPRES 2300 mAh 高容量锂离子电池 (FM)
NNTN8560_	IMPRES 2500 mAh IP57 高容量锂离子电池，2300M 2500T
PMNN4406_R	IP67 标准锂离子电池，1500M 1600T
PMNN4409_R	IMPRES 2250 mAh 高容量锂离子电池
PMNN4454_	2750 mAh 超高容量锂离子电池（PMNN4409_ 的替换件）
PMNN4543_	IP68 锂离子电池（PMNN4463_ 的替换件）
PMNN4488_	IMPRES 3000 mAh IP68 振动皮带夹用锂离子电池
PMNN4489_	IMPRES 2900 mAh TIA 4950 HAZLOC IP68 锂离子电池
PMNN4491_	IMPRES 2100 mAh IP68 超薄锂离子电池
PMNN4493_	IMPRES 3000 mAh IP68 低电压锂离子电池
PMNN4543_	2450 mAh IP68 核心锂离子电池
PMNN4544_	IMPRES 2450 mAh IP68 锂离子电池

表 20：携带设备

部件号	说明
PMLN4651_	2 英寸皮带宽度的皮带夹
PMLN5610_	2.5 英寸旋转皮带环替换件
PMLN5611_	3 英寸旋转皮带环替换件
PMLN5838_	带 3 英寸固定皮带环、适用于全键盘对讲机的硬皮套
PMLN5839_	带 3 英寸固定皮带环、适用于无显示屏对讲机的硬皮套
PMLN5840_	带 3 英寸旋转皮带环、适用于全键盘对讲机的硬皮套
PMLN5842_	带 2.5 英寸旋转皮带环、适用于全键盘和有限键盘对讲机的硬皮套

部件号	说明
PMLN5843_	带 2.5 英寸旋转皮带环、适用于无显示屏对讲机的硬皮套
PMLN5844_	带 3 英寸固定皮带环、适用于全键盘和有限键盘对讲机的尼龙套
PMLN5845_	带 3 英寸固定皮带环、适用于无显示屏对讲机的尼龙套
PMLN5846_	带 3 英寸旋转皮带环、适用于无显示屏对讲机的硬皮套
PMLN7008_	2.5 英寸皮带宽度的皮带夹
PMLN7296_	2.5 英寸皮带宽度振动皮带夹
RLN6486_	皮革对讲机手提带
RLN6487_	皮革对讲机手提带，XL 尺寸
RLN6488_	消摆皮革对讲机手提带

表 21： 充电器

部件号	说明
EPNN9286_	开关模式充电器，带电源，包含 2571886T01，欧洲插头
HKVN4036_	IMPRES 电池组管理许可证密钥
NLN7967_	适用于 IMPRES 多座充电器的墙壁安装支架
NNTN7392_	IMPRES 电池读取器
NNTN7616_	IMPRES 车载充电器
NNTN7677_	IMPRES 电池组管理多座充电器接口装置
NNTN8045_	IMPRES 电池组管理单座充电器接口装置
NNTN8117_	核心单座充电器，仅带有基座
NNTN8525_	旅行充电器、已调节电压的快速车载充电器适配器、自定义充电器基座、安装支架和螺旋线
PMPN4008_	微型 USB 开关模式电源，中国插头
PS000037A05	电源适配器，壁式电源插座，14 W，207–253 V，中国插头
WPLN4211_	IMPRES 多座充电器，仅带有基座
WPLN4218_	带显示屏的 IMPRES 多座充电器，仅带有基座
WPLN4245_	IMPRES 单座充电器，中国插头
WPLN4256_	IMPRES 单座充电器，1.25 A，230 VAC，澳大利亚/新西兰/APME 插头
2564060M01	变压器，15 W，Waris，中国插头

表 22： 耳塞和耳机

部件号	说明
AARLN4885_	单收耳塞
BDN6666_	带音量控制的耳机
BDN6728_	带音量控制的单收耳机，黑色
PMLN4620_	D 字形单收耳机

部件号	说明
PMLN5096_	D 字形耳机
PMLN5101_	带线控通话按键的 IMPRES 太阳穴传导器耳机
PMLN5973_	带线控麦克风/PTT 的耳塞听筒，MagOne
PMLN5975_	带麦克风/PTT 的旋转耳机，MagOne
PMLN5976_	带悬臂式麦克风和线控 PTT 的耳机，MagOne
PMLN6069_	带线控麦克风/PTT 的耳塞，MagOne
PMLN7181_	带悬臂式麦克风的灵活旋转耳机
PMLN7203_	带悬臂式麦克风的灵活旋转耳机，多件包装
PMLN7696_	绝对极简型耳机套件
PMLN7851_	关键作业无线耳机 PTT
RLN4941_	单收耳机
RLN5313_	单收噪音监听套件，黑色
RLN5314_	单收噪音监听套件，浅褐色
RLN6279_	标准耳机，黑色
RLN6280_	标准耳机，浅褐色
RLN6283_	泡沫耳垫和防风罩替换件
RLN6284_	带传声管组件的耳机，浅褐色
RLN6285_	带传声管组件的耳机，黑色
RLN6288_	带高噪音套件的耳机，浅褐色
RLN6289_	带高噪音套件的耳机，黑色
RLN6511_	透明的 EP7-小型听力保护器 [Sonic 护耳器] 超级耳塞，降噪 = 28 dB
RLN6512_	透明的 EP7-中型听力保护器 [Sonic 护耳器] 超级耳塞，降噪 = 28 dB
RLN6513_	透明的 EP7-大型听力保护器 [Sonic 护耳器] 超级耳塞，降噪 = 28 dB
RLN6550_	带线控麦克风的旋转耳机，适用于蓝牙附件套件 Pod，3 件装
NNTN8294_	单线耳塞，29 厘米电源线，黑色
NNTN8295_	单线耳塞，116 厘米电源线，黑色
NNTN8296_	无线私密套件，包括两套双线耳塞（1 线黑色，1 线白色）、单线耳塞（黑色）和一个 3.5 mm 适配器，可插入任何现有耳机
NNTN8299	关键作业无线耳塞的耳套
WADN4190_	远程扬声器麦克风耳上接收器
NNTN8385_	无线颈环 Y 形适配器和保持钩，适用于绝对极简型套件

表 23： 耳机和耳机附件

部件号	说明
NTN2572_	带 12 英寸连接线的耳机（NNTN8125_ 的替换件）

部件号	说明
NNTN8189_	非加密无线耳机和带有 PPT 音频的 PTT 设备，12 英寸连接线
NNTN8191_	PTT 模块，不带充电器
PMLN5102_	Ultra-Lite 耳机
PMLN5974_	带悬臂式麦克风和 PTT 的轻型耳机，MagOne
PMLN5979_	带悬臂式麦克风和 PTT 的超轻型耳机，MagOne
PMLN6463_	企业无线附件包
PMLN6852_	新一代后戴式重型耳机 GCAI
PMLN6853_	新一代后戴式重型耳机 GCAI TIA 4950
PMLN7466_	头戴式重型耳机，带 GCAI
PMLN7467_	头戴式重型耳机/TIA，带 GCAI
RLN6490_	XBT 颈带式非加密无线重型耳机
RLN6491_	XBT 头戴式非加密无线重型耳机
RMN5058_	轻型耳机

表 24：远程扬声器麦克风

部件号	说明
NNTN8382_	IMPRES 远程扬声器麦克风，IP57
NNTN8383_	IMPRES 远程扬声器麦克风，带耳机接口
PMMN4024_	远程扬声器麦克风
PMMN4025_	IMPRES 远程扬声器麦克风
PMMN4040_	远程扬声器麦克风，防水 (IP57)
PMMN4046_	IMPRES 远程扬声器麦克风，带音量控制，IP57
PMMN4050_	IMPRES 远程扬声器麦克风，带耳机接口，降噪
PMMN4083_	IMPRES 大型远程扬声器麦克风，APX IP68 Delta T (GCAI)
PMMN4099_	IMPRES IP68 重型远程扬声器麦克风
PMMN4102_	IMPRES 降噪远程扬声器麦克风，3.5 mm 插孔，长卷电缆，带 Nexus 连接器
MMN4102B_GRN	IMPRES 降噪远程扬声器麦克风，3.5 mm 插孔，长卷电缆，带 Nexus 连接器（绿色外壳）
PMMN4113_	IMPRES OMNI 远程扬声器麦克风，3.5 mm 插孔，长卷电缆，带 Nexus 连接器
RLN6074_	远程扬声器麦克风螺旋线替换套件（适用于 PMMN4024_ 和 PMMN4040_）
RLN6075_	远程扬声器麦克风螺旋线替换套件（适用于 PMMN4025_、PMMN4046_ 和 PMMN4050_）
RLN6561_/MDRLN6561_	关键作业无线 RSM

表 25： 监听附件

部件号	说明
NNTN8459_	带透明耳机管的单线监听套件，黑色
PMLN6123_	带舒适型透明传声管的 IMPRES 3 线监听套件，黑色
PMLN6124_	带舒适型透明传声管的 IMPRES 3 线监听套件，浅褐色
PMLN6125_	单收监听套件，黑色（单线）
PMLN6126_	单收监听套件，浅褐色（单线）
PMLN6127_	IMPRES 2 线监听套件，黑色
PMLN6128_	IMPRES 2 线监听套件，浅褐色
PMLN6129_	带舒适型透明传声管的 IMPRES 2 线监听套件，黑色
PMLN6130_	带舒适型透明传声管的 IMPRES 2 线监听套件，浅褐色
PMLN7052_	带透明耳机管的关键作业无线单线监听套件 (PMLN7052_)
RLN4760_	适用于监听套件的小型定制耳机，右耳
RLN4761_	适用于监听套件的中型定制耳机，右耳
RLN4762_	适用于监听套件的大型定制耳机，右耳
RLN4763_	适用于监听套件的小型定制耳机，左耳
RLN4764_	适用于监听套件的中型定制耳机，左耳
RLN4765_	适用于监听套件的大型定制耳机，左耳
RLN6281_	泡沫耳塞替换件，每包 50 个（适用于 RLN5886_）
RLN6282_	透明耳套替换件，每包 50 个（适用于 RLN5887_）

表 26： 其他附件

部件号	说明
15012157001	防尘罩组件
1505596Z02	RLN4570_ 和 HLN6602_ 胸包的替换肩带
32012144001	天线识别条带 – 灰色
32012144002	天线识别条带 – 黄色
32012144003	天线识别条带 – 绿色
32012144004	天线识别条带 – 蓝色
32012144005	天线识别条带 – 紫色
4200865599	皮带
4280384F89	通用 RadioPAK 延长带
5880348B33	SMA 至 BNC 适配器，改进型
AY000267A01_	屏幕保护膜，透明（单包包含一件）
HLN6602_	通用胸包
HLN9985_	带大携行带的防水袋
NTN5243_	肩带（固定在对讲机套的 D 型环上）
PMKN4012_	DMR 便携编程电缆

部件号	说明
PMKN4013_	用于编程的测试和校准电缆
PMKN4040_	DMR 便携遥感遥测电缆
PMKN4071_	IMPRES 便携式非 PC 适配器
PMKN4126_	用于测试校准的 TTR 和编程电缆
PMLN6765_	战术性 GCAI PTT/VOX 接口模块
PMLN6767_	战术性分体式机身 PTT
PMLN6827_	PTT 接口模块
PMLN6830_	战术性分体式环形 PTT
PMLN6833_	战术性重型太阳穴传导器耳机，带降噪悬臂式麦克风
RLN4295_	小夹子，肩带
RLN4570_	Break-A-Way 胸包
RLN4815_	通用对讲机袋和工具包 (Fanny Pack)