



MOTOTRBO R2 User Guide

NOVEMBER 2022

© 2022 Motorola Solutions, Inc. All rights reserved



MN009532A01-AA

Contents

List of Figures.....	5
List of Tables.....	6
Legal and Support.....	7
Intellectual Property and Regulatory Notices.....	7
Legal and Compliance Statements.....	8
Supplier's Declaration of Conformity.....	8
Important Safety Information.....	9
Notice to Users (FCC).....	9
Notice to Users (Industry Canada).....	9
Chapter 1: Read Me First.....	10
1.1 Software Version.....	11
1.2 Introduction.....	11
Chapter 2: Radio Care.....	12
Chapter 3: Getting Started.....	13
3.1 Charging the Battery.....	13
3.2 Attaching the Battery.....	13
3.3 Removing the Battery.....	14
3.4 Attaching the Antenna.....	14
3.5 Removing the Antenna.....	14
3.6 Attaching the Belt Clip.....	14
3.7 Removing the Belt Clip.....	14
3.8 Turning the Radio On.....	14
3.9 Turning the Radio Off.....	15
3.10 Adjusting the Volume.....	15
Chapter 4: Radio Overview.....	16
4.1 Programmable Buttons.....	17
4.2 LED Indications.....	17
Chapter 5: System Overview.....	19
5.1 Conventional Analog and Digital Modes.....	19
5.2 IP Site Connect.....	19
Chapter 6: Zone and Channel Selections.....	20
6.1 Selecting Zones.....	20
6.2 Selecting Channels.....	20
Chapter 7: Types of Radio Calls.....	21
7.1 Making Calls on the Radio.....	21

7.2 Receiving and Responding to Calls on the Radio.....	22
Chapter 8: Voice Interrupt.....	23
8.1 Enabling the Voice Interrupt.....	23
Chapter 9: Initiating Transmit Interrupt.....	24
Chapter 10: Advanced Features.....	25
10.1 Analog Scrambling.....	25
10.1.1 Setting the Analog Scrambling.....	25
10.2 Auto-Range Transponder System.....	25
10.3 Call Alert Operation.....	25
10.3.1 Making Call Alerts.....	26
10.3.2 Responding to Call Alerts.....	26
10.4 Call Indicator Settings.....	26
10.4.1 Escalart Mode Tone.....	26
10.5 Emergency Operation.....	26
10.5.1 Sending Emergency Alarms.....	27
10.5.2 Sending Emergency Alarms with Call.....	28
10.5.3 Sending Emergency Alarms with Voice to Follow.....	28
10.5.4 Reinitiating the Emergency Mode.....	28
10.5.5 Exiting the Emergency Mode.....	29
10.6 Lone Worker.....	29
10.7 Multi-Site Control.....	29
10.7.1 Starting and Stopping Automatic Site Search.....	29
10.7.2 Enabling Manual Site Search.....	30
10.8 Monitor Feature.....	30
10.8.1 Monitoring Channels.....	30
10.8.2 Permanent Monitor.....	30
10.8.2.1 Setting the Permanent Monitor.....	31
10.9 Scan.....	31
10.9.1 Setting the Scan.....	32
10.9.2 Scan Talkback.....	32
10.9.3 Nuisance Channels.....	32
10.9.3.1 Deleting Nuisance Channels.....	33
10.9.3.2 Restoring Nuisance Channels.....	33
10.9.4 Vote Scan.....	33
10.9.5 Scan Lists.....	33
10.10 Text Messaging.....	34
10.10.1 Sending Quick Text Messages.....	34
10.11 Rental Timer.....	34
10.11.1 Rental Expiry Reminder.....	34

10.11.2 Extending the Rental Period.....	35
Chapter 11: Utilities.....	36
11.1 Checking the Battery Strength.....	36
11.2 Password Lock.....	36
11.2.1 Accessing Radios with Password.....	36
11.2.2 Unlocking Radios in Locked State.....	37
11.3 Setting Radio Tones/Alerts.....	37
11.4 Setting Power Levels.....	37
11.5 Setting Squelch Levels.....	38
11.6 Setting the Trill Enhancement.....	38
11.7 Setting the Voice Announcement.....	38
11.8 Talkaround.....	38
11.8.1 Toggling Between Repeater and Talkaround Mode.....	38
11.9 Voice Operating Transmission.....	39
11.9.1 Setting the Voice Operating Transmission.....	39
11.10 Privacy.....	39
11.10.1 Privacy-Enabled Calls	39
11.10.2 Setting Privacy.....	40
Chapter 12: Authorized Accessories List.....	41

List of Figures

Figure 1: R2	11
Figure 2: Radio Overview	16

List of Tables

Table 1: Special Notations	10
Table 2: The Feature Access and Indications of the Radio	11
Table 3: IP Specification	12
Table 4: Callout Legend	16
Table 5: Assignable Radio Functions	17
Table 6: LED Indications	18
Table 7: Number of Supported Zones and Channels	20
Table 8: Types of Radio Calls	21
Table 9: Auto-Range Transponder System Indications	25
Table 10: Emergency Modes	26
Table 11: Scan Methods	31
Table 12: Scan Talkback Type	32
Table 13: Privacy Types and Settings	39
Table 14: Antenna	41
Table 15: Batteries	41
Table 16: Cables	41
Table 17: Carry Devices	41
Table 18: Chargers	42
Table 19: Earbuds and Earpieces	43
Table 20: Headsets and Headset Accessories	43
Table 21: Remote Speaker Microphones	43
Table 22: Surveillance Accessories	44

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 wheeled bin label on the product (or the package in some cases). As defined by the WEEE directive, this crossed-out wheeled 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.

© 2022 Motorola Solutions, Inc. All Rights Reserved

Legal and Compliance Statements

Supplier's Declaration of Conformity

Supplier's Declaration of Conformity

Per FCC CFR 47 Part 2 Section 2.1077(a)



Responsible Party

Name: Motorola Solutions, Inc.

Address: 2000 Progress Pkwy, Schaumburg, IL. 60196

Phone Number: 1-800-927-2744

Hereby declares that the product:

Model Name: **R2**

conforms to the following regulations:

FCC Part 15, subpart B, section 15.107(a), 15.107(d), and section 15.109(a)

Class B Digital Device

As a personal computer peripheral, this device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions:

- 1 This device may not cause harmful interference, and
- 2 This device must accept any interference received, including interference that may cause undesired operation.



NOTE:

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation.

If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio or TV technician for help.

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.

Any modification to this device, not expressly authorized by Motorola Solutions, may void the user's authority to operate this device.

Under Industry Canada regulations, this radio transmitter may only operate using an antenna of a type and maximum (or lesser) gain approved for the transmitter by Industry Canada. To reduce potential radio interference to other users, the antenna type and its gain should be so chosen that the equivalent isotropically radiated power (e.i.r.p.) is not more than that necessary for successful communication.

This radio transmitter has been approved by Industry Canada to operate with Motorola Solutions-approved antenna with the maximum permissible gain and required antenna impedance for each antenna type indicated. Antenna types not included in this list, having a gain greater than the maximum gain indicated for that type, are strictly prohibited for use with this device.

Notice to Users (FCC)

This device complies with Part 15 of the FCC rules per the following conditions:

- This device may not cause harmful interference.
- This device must accept any interference received, including interference that may cause undesired operation.
- Changes or modifications made to this device, not expressly approved by Motorola Solutions, could void the authority of the user to operate this equipment.

Notice to Users (Industry Canada)

The operation of your Motorola Solutions radio is subject to the Radiocommunications Act and must comply with rules and regulations of the Federal Government's department of Industry Canada. Industry Canada requires that all operators using Private Land Mobile frequencies obtain a radio license before operating their equipment.

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 **R01.21.01.0000** or later.

Contact your dealer or administrator for more information.

1.2

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 your radio.

Table 2: The Feature Access and Indications of the Radio

Non-Keypad	
Radio Model	Figure 1: R2
	
Feature Access	Programmable Button
Feature Indication	• 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 17](#) topic.

Chapter 2

Radio Care

This section describes the basic handling precaution of the radio.

Table 3: IP Specification

IP Specification	Description
IP55	Allows your radio to withstand low-pressure water jets from any direction and protects your radio from limited dust ingress.

- Keep your radio clean and exposure to water should be avoided to help ensure proper functionality and performance.
- To clean the exterior surfaces of the radio, use a diluted solution of mild dishwashing detergent and fresh water (for example, one teaspoon of detergent to one gallon of water).
- These surfaces should be cleaned whenever a periodic visual inspection reveals the presence of smudges, grease, and/or grime.



CAUTION: The effects of certain chemicals and their vapors can have harmful results on certain plastics. Avoid using aerosol sprays, tuner cleaners, and other chemicals.

- When cleaning your radio, do not use a high-pressure jet spray on radio as this may cause water to leak into your radio.

Chapter 3

Getting Started

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

3.1

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.

3.2

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 or wrong battery, immediately swap with the correct battery.

3.3

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.

3.4

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.

3.5

Removing the Antenna

Procedure:

- 1 Turn the antenna counterclockwise.
- 2 Remove the antenna from the receptacle.

3.6

Attaching the Belt Clip

Procedure:

- 1 Align the grooves on the clip with the grooves on the battery.
- 2 Press the belt clip downward until you hear a click sound.

3.7

Removing the Belt Clip

Procedure:

Slide the clip upward and away from the radio.

3.8

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 green LED illuminates.



NOTE:

If your radio fails to turn on although your battery is charged and properly attached, contact your dealer for assistance.

3.9

Turning the Radio Off

Procedure:

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

3.10

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 4

Radio Overview

Figure 2: Radio Overview



Table 4: Callout Legend

Label	Name	Description
1	Antenna	Provides the needed RF amplification when transmitting or receiving.
2	Lanyard Feature	Allows you to secure holster to the radio.
3	Push-to-Talk (PTT) button	Allows you to execute voice operations (for example, Group Call and Private Call).
4	1-Dot Programmable Feature button	Programmable button of an assignable radio function.
5	2-Dot Programmable Feature button	Programmable button of an assignable radio function.
6	Microphone	Allows your voice to be sent when PTT or voice operations are activated.

Label	Name	Description
7	Speaker	Outputs all tones and audio that are generated by the radio (for example, features like keypad tones and voice audio).
8	LED Indicator	Provides operating status.
9	On/Off/Volume knob	Allows you to turn the radio on or off and adjust volume.
10	Audio Jack with Dust Cover	Allows you to connect audio accessories to your radio.
11	Data Port	Allows your radio for data communication.
12	Charging Rail	Provides guideline for the placement during charging.
13	Charging Contacts	Charging point for the battery.
14	Battery	Provides power source to your radio. Battery Latch
15	Belt Clip Slot	Allows you to attach belt clip.
16	Channel Selector knob	Allows you to select channel.

4.1

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
All Alert Tones	Allows you to toggle all tones and alerts to on or off.
Channel Announcement	Allows you to play zone and channel announcement voice messages in the current channel.
Confirm	Allow you to confirm a feature.
Mic AGC	Allows you to toggle the internal microphone automatic gain control (AGC) to on or off.
One Touch Access	Allows you to direct access to the predefined call features.
Voice Announcement	Allows you to toggle the voice announcement to on or off.

4.2

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 6: LED Indications

Indication	Status
Blinking Red	• 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.
Solid Yellow	• The radio is monitoring a conventional channel. • Indicates fair battery capacity when the programmed Battery Indicator button is pressed.
Blinking Yellow	• The radio has yet to respond to a Call Alert. • The radio has Flexible Receive List enabled.
Double Blinking Yellow	• The radio is actively searching for a new site. • The radio has yet to respond to a Group Call Alert. • The radio is locked.
Solid Green	• The radio is powering up. • The radio is transmitting. • Indicates full battery capacity when the programmed Battery Indicator button is pressed.
Blinking Green	• The radio is receiving a call or data. • The radio is detecting activity over the air.
Double Blinking Green	The radio is receiving a privacy-enabled call or data.

Chapter 5

System Overview

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

5.1

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.

5.2

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.

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.

Chapter 6

Zone and Channel Selections

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

Table 7: Number of Supported Zones and Channels

Zone	Channels
4	64

6.1

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.

6.2

Selecting Channels

Procedure:

Turn the **Channel Selector** knob.

Your radio switches to your preferred channel.

Chapter 7

Types of Radio Calls

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 8: Types of Radio Calls

Call Type	Description
Group Call	A Group Call is a point-to-multipoint call operation. Your radio must be configured as a member of the group for you to communicate with each other.
Broadcast Voice Call	A Broadcast Voice 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. You can set up a Private Call after performing a radio presence check or call immediately.
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. This feature is used to make an important announcement.
Unaddressed Call	An Unaddressed Call is a group call to one of the 16 predefined group IDs.
Open Voice Channel 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.



NOTE:

If you would like to make a 5-Tone Call, you are required to purchase for a Software License Key separately.

7.1

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.

Option	Actions
	b To call, press and hold the PTT button. c Wait for the Talk Permit Tone to end, and speak into the microphone.  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.

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

7.2

Receiving and Responding to Calls on the Radio

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

- The green LED blinks.
- Your radio unmutes and the incoming call sounds through the speaker.



NOTE: You cannot respond to a Broadcast Call or All Call.

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.

Chapter 8

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.

8.1

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 9

Initiating Transmit Interrupt

Procedure:

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

- Press the **PTT** button.
- Press the **Emergency** button.

Chapter 10

Advanced Features

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

10.1

Analog Scrambling

This analog-only feature prevents eavesdropping by unauthorized users on a channel.

Your radio must have analog scrambling enabled on the channel to send and receive an analog scrambling-enabled transmission. On an analog scrambling-enabled channel, the radio is not able to receive clear or unscrambled transmissions. Your radio supports two analog scrambling codes that can be toggled by using the programmable button.

10.1.1

Setting the Analog Scrambling

Procedure:

Press the programmed **Analog Scrambling** button.

10.2

Auto-Range Transponder System

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 9: 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.

10.3

Call Alert Operation

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

10.3.1

Making Call Alerts

Procedure:

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

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

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

10.3.2

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.

10.4

Call Indicator Settings

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

10.4.1

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.

10.5

Emergency Operation

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 10: 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

Emergency Mode	Description
	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.
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.

10.5.1

Sending Emergency Alarms

Procedure:

Press the programmed **Emergency On** button.

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

- The Emergency tone sounds.

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

- A negative tone sounds.

10.5.2

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.

- 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.

10.5.3

Sending Emergency Alarms with Voice to Follow

Procedure:

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

If the alarm is successfully sent, the Emergency tone sounds 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.

10.5.4

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.

10.5.5

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.

10.6

Lone Worker

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.

10.7

Multi-Site Control

Your radio is able to search for sites and switch between sites when signal is weak or your radio is unable to detect any signal from the current site.

When the signal is strong, the radio remains on the current site. Your radio can perform either one of the following site searches:

- Automatic Site Search
- Manual Site Search

If the current channel is a multi-site channel with an attached roam list and is out of range, and the site is unlocked, your radio performs automatic site search.

10.7.1

Starting and Stopping Automatic Site Search

Procedure:

Press the programmed **Site Lock On/Off** button.

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

- A tone sounds.
- The LED blinks yellow rapidly when the radio is actively searching for a new site.

- The yellow LED turns off once the radio locks on to a site.

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

- A tone sounds.
- The LED turns off.

10.7.2

Enabling Manual Site Search

Procedure:

Press the programmed **Manual Site Roam** button.

A tone sounds and the green LED blinks.

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

- A positive tone sounds.
- The LED extinguishes.

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

- A negative tone sounds.
- The LED extinguishes.

10.8

Monitor Feature

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.

10.8.1

Monitoring Channels

Procedure:

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

Your radio shows the following indications:

- You hear the radio activity.
- The yellow LED illuminates.

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

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

10.8.2

Permanent Monitor

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

10.8.2.1

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.

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

- An alert tone sounds.
- The yellow LED extinguishes.

10.9

Scan

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

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 11: 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 turned on.
- Scan list member has been disabled through the menu.
- You are already participating in a call.



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.

10.9.1

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.

10.9.2

Scan Talkback

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 12: 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.

10.9.3

Nuisance Channels

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.

10.9.3.1

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.

10.9.3.2

Restoring Nuisance Channels

Procedure:

Perform one of the following actions:

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

10.9.4

Vote Scan

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.

10.9.5

Scan Lists

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.

10.10

Text Messaging

Your radio is able to send data, for example a text message to another radio.

10.10.1

Sending Quick Text Messages

Procedure:

To send a predefined Quick Text message to a predefined alias, press the programmed **One Touch Access** button.

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

- A positive tone sounds.
- The green LED illuminates.

If your text message fails to send, a negative tone sounds:

10.11

Rental Timer

The Rental Timer feature allows the radio rental dealer to set the permitted rental period of your radio and automatically disable the radio beyond the duration specified on the timer.

The radio can be programmed with a maximum rental period of 999 hours and a maximum rental period extension of 99 hours.

The timer calculates the radio usage time and disables the radio when the usage time reaches the predetermined rental period.

After the rental period expires, the radio ceases to function until the dealer resets the rental timer.

10.11.1

Rental Expiry Reminder

Rental Expiry Reminder feature provides a reminder when the rental period is expiring.

The radio provides an audio reminder of the timer expiry. This feature triggers the reminder up to 9 hours before expiry and hourly reminder.

9 hours or the predetermined reminder hours before expiry

Voice Announcement sounds *Alquiler Vence Pronto* which means rental expiring soon, and repeats for every following hour.

Voice Announcement sounds *Rental Expiring Soon* and repeats for every following hour.

2 hours before expiry

Voice Announcement sounds *Alquiler Vence Pronto* two times and repeats for every following hour.

Voice Announcement sounds *Rental Expiring Soon* two times and repeats for every following hour.

3 minutes before expiry

Voice Announcement sounds *Alquiler Vence Pronto* two times for every remaining minute.

Voice Announcement sounds *Rental Expiring Soon* two times for every remaining minute.

Voice Announcement sounds *Alquiler Vencido* when the rental period expires. The radio turns into disabled state.

Voice Announcement sounds *Rental Expired* and the radio turns into disabled state.

10.11.2

Extending the Rental Period

The radio can be programmed with a maximum of 99 hours rental period extension.



NOTE: You can only extend the rental period once.

Procedure:

- Press the **Side Button 2** six times continuously.

One of the scenario occurs:

- If extension is performed before the rental period expires, Voice Announcement sounds *Período de Alquiler Extendido* which means rental period extended.
- If extension is performed before the rental period expires, Voice Announcement sounds *Rental Period Extended*.
- If extension is performed after the rental period expires, your radio restarts automatically.

Chapter 11

Utilities

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

11.1

Checking the Battery Strength

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.

11.2

Password Lock

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.

11.2.1

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.

11.2.2

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.

11.3

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.

11.4

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.

11.5

Setting Squelch Levels

Procedure:

Press the programmed **Squelch** button.

If the setting is successful, your radio is operating in tight squelch and a positive indicator tone sounds.

If the setting is unsuccessful, your radio is operating in normal squelch and a negative indicator tone sounds.

11.6

Setting the Trill Enhancement

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.

11.7

Setting the Voice Announcement

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.

11.8

Talkaround

This feature allows you to continue communicating when your repeater is non-operational, or when your radio is out of range from the repeater but within the talk range of other radios.

The talkaround setting is retained even after powering down.

11.8.1

Toggling Between Repeater and Talkaround Mode

Procedure:

Press the programmed **Repeater** or **Talkaround** button to toggle between Repeater or Talkaround modes on your radio.

A positive indicator tone sounds indicating the radio is in talkaround mode.

A negative indicator tone sounds indicating the radio is in repeater mode.

11.9

Voice Operating Transmission

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. Contact your dealer or administrator for more information.

11.9.1

Setting the Voice Operating Transmission

Procedure:

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

11.10

Privacy

This feature prevents eavesdropping by unauthorized users on a channel by the use of a software-based scrambling solution. The signaling and user identification portions of a transmission are clear.

Your radio must have privacy enabled on the channel to send a privacy-enabled transmission, although this is not a requirement for receiving a transmission.

Some radio models may not offer Privacy feature, or may have different configuration. Contact your dealer for more information.



NOTE:

Only one type of privacy can be assigned at a time.

This feature is not applicable in Citizens Band channels that are in the same frequency.

The following table describes the type of privacy and the settings that appear on your radio.

Table 13: Privacy Types and Settings

Type	Setting
Basic Privacy	Privacy

11.10.1

Privacy-Enabled Calls

Your radio must have the Privacy feature enabled for the currently selected channel position to send a privacy-enabled transmission. While on a privacy-enabled channel, the radio is still able to receive clear transmissions.

When privacy is enabled for the currently selected channel position, all voice transmission made by your radio is scrambled. The calls include Group Call, Multigroup Call, talkback during scanned calls, Site All Call, Emergency Call, and Private Call. Only receiving radios with the same Key Value and Key ID as your radio can unscramble the transmission.

To unscramble privacy-enabled call or data transmission, your radio must be programmed to have the same type of Privacy Key as the transmitting radio. If your radio receives a scrambled call that is of a different Privacy Key, you hear a garbled transmission.

11.10.2

Setting Privacy

Procedure:

Press the programmed **Privacy** button.

Chapter 12

Authorized Accessories List

Motorola Solutions provides a list of accessories to improve the productivity of your radio.

Table 14: Antenna

Part Number	Description
PMAD4116_	VHF, 144–165 MHz, Helical Antenna
PMAD4117_	VHF, 136–155 MHz, Helical Antenna
PMAD4118_	VHF, 152–174 MHz, Helical Antenna
PMAD4119_	VHF, 136–148 MHz, Stubby Antenna
PMAD4120_	VHF, 146–160 MHz, Stubby Antenna
PMAD4121_	VHF, 160–174 MHz, Stubby Antenna
PMAD4147_	VHF, 136–174 MHz, Whip Antenna 20 cm
PMAE4069_	UHF, 403–450 MHz, Stubby Antenna
PMAE4070_	UHF, 440–490 MHz, Stubby Antenna
PMAE4079_	UHF, 400–527 MHz, Slim Whip Antenna

Table 15: Batteries

Part Number	Description
PMNN4598_	Li-Ion Battery IP55 2300T
PMNN4600_	Li-Ion Battery IP55 2100T

Table 16: Cables

Part Number	Description
PMKN4128_	Programming Cable USB

Table 17: Carry Devices

Part Number	Description
HLN9714_	2.5 in. Spring Belt Clip
HLN9844_	2 in. Spring Action Belt Clip
HLN9985_	Weatherproof Baggie
HLN6602_	Universal Chest Pack
NTN5243_	Adjustable Nylon Carrying Strap
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

Part Number	Description
PMLN7008_	Belt Clip for 2.5 in. Belt Width
PMLN8427_	Nylon Carry Case for 3 in. Fixed Belt Loop
PMLN8433_	Hard Leather Carry Case for 3 in. Fixed Belt Loop
PMLN8434_	Hard Leather Carry Case for 2.5 in. Swivel Belt Loop
PMLN8435_	Hard Leather Carry Case for 3 in. Swivel Belt Loop
PMLN8369_	Belt Clip for APX N30/APX N50 2 in. Belt Clip
PMLN8370_	Belt Clip for APX N30/APX N50 2.5 in. Belt Clip

Table 18: Chargers

Part Number	Description
25009297001	Power Supply Adaptor, Power-Wall Cube , AC, DC, Switch-Mode, Low Noise, 18 W, US, NA, Twin Plug
EPNN7991_	Power Supply, 14.5 V, L599, Euro Plugs
EPNN9292_	SWM Charger with Power Supply, Argentina Plugs, Switch-Mode
EPNN9295_	SWM Charger with power supply, India Plugs, Switch-Mode
EPNN9356_	Power Supply, Brazil Plugs, Switch-Mode
NNTN6844_	Wall mount bracket for Multi-Unit Charger (NNTN8410_)
NNTN8410_	Multi Unit Charger Base
PMLN5229_	Power Supply for Japan Plug, Switch-Mode
PMLN6588_	Standard Multi-Unit Charger, US Plug
PMLN6589_	Standard Multi-Unit Charger, Australia/New Zealand Plug
PMLN6590_	Standard Multi-Unit Charger, Korea Plug
PMLN6591_	Standard Multi-Unit Charger, Brazil Plug
PMLN6592_	Standard Multi-Unit Charger, Japan/Taiwan Plug
PMLN6595_	Standard Multi-Unit Charger, China Plug
PMLN6598_	Standard Multi-Unit Charger, Euro Plug
PMLN6600_	Standard Multi-Unit Charger, United Kingdom Plug
PMLN6601_	Standard Multi-Unit Charger, Argentina Plug
PMPN4133_	Single Unit Charger (CEC) Base
PMLN7089_	Travel Charger
PS000037A01	Power Supply Adaptor, Power-wall Cube , AC, DC, Switch-mode, 14 W, 207 V –253 V, Euro Plug
PS000037A02	Power Supply Adaptor, Power-wall Cube , AC, DC, Switch-mode, 14 W, 207 V –253 V, United Kingdom/ Hong Kong Plug
PS000037A03	Power Supply Adaptor, Power-wall Cube , AC, DC, Switch-mode, 14 W, 207 V –253 V, Australia/ New Zealand Plug

Part Number	Description
PS000037A04	Power Supply Adaptor, Power-wall Cube , AC, DC, Switch-mode, 14 W, 207 V–253 V, Argentina Plug
PS000037A05	Power Supply Adaptor, Power-wall Cube , AC, DC, Switch-mode, 14 W, 207 V–253 V, China Plug
PS000037A06	Power Supply Adaptor, Power-wall Cube , AC, DC, Switch-mode, 14 W, 207 V–253 V, Korea Plug
WPLN4137BR	Single Unit Charger (Non-CEC) Base

Table 19: Earbuds and Earpieces

Part Number	Description
PMLN6531_	Ear Receiver with In-Line Microphone/ PTT/VOX Switch (Mag One)
PMLN6532_	Swivel Earpiece with In-Line Microphone and PTT
PMLN6533_	Earset with combined microphone and PTT
PMLN6534_	Earbud with In-Line Microphone/PTT/VOX Switch (Mag One)
PMLN6535_	D-Style Earpiece with Microphone/PTT
PMLN8502_	Accessory Retainer Clip

Table 20: Headsets and Headset Accessories

Part Number	Description
AY000308A01	Accessory Kit,Headset Cable for Digital GP300
AY000309A01	Accessory Kit,Mesh Head Strap
AY000310A01	Accessory Kit,Microphone Windscreen with Retaining O-Ring (Quantity 5 per Bag)
AY000311A01	Accessory Kit,Gel Ear Seal with Mesh and O-Ring (Quantity 2 per Bag)
AY000312A01	Accessory Kit,Headset Left Microphone Boom Assembly (Standard)
AY000313A01	Accessory Kit,Headset Right Microphone Boom Assembly
PMLN6538_	Lightweight Headset with Swivel Boom Microphone
PMLN6542_	MagOne Ultra-Lite Headset, behind-the-head, adjustable with Boom Microphone and In-line PTT
PMLN6854_	Heavy Duty Headset, Noise Canceling Boom Mic Headset
PMLN7468_	Medium Weight Over-the-Head Dual Muff Headset
REX4648_	Replacement Foam Earpad and Windscreen Kit

Table 21: Remote Speaker Microphones

Part Number	Description
PMMN4013_	Windporting Remote Speaker Microphone with 3.5mm audio Jack (IP54)

Part Number	Description
PMMN4029_	Windporting Remote Speaker Microphone, Submersible (IP57)
PMMN4148_	RM110 Remote Speaker Microphone, with 3.5mm Audio Jack, IP55
PMMN4149_	RM110 Remote Speaker Microphone, without 3.5mm Audio Jack, IP55
PMLN8121_	Low Profile Swivel Clip
PMLN8122_	Replacement Dust Cover for RSM (Pack of 10)

Table 22: Surveillance Accessories

Part Number	Description
AARLN4885B & MDRLN4885B	Receive-Only Covered Earbud with Coiled Cord
PMLN4620_	Receive-Only D-Shell Earpiece
PMLN6445_	2-Wire Surveillance Kit with Translucent Tube, Beige
PMLN6530_	2-Wire Surveillance Kit with Translucent Tube, Black
PMLN7396_	Receive -Only Adjustable D-Style with Standard 3.5mm Jack
PMLN7560_	Receive-Only Earpiece with Translucent Tube
PMLN8120_	Receive-Only XL Clear Tube Earpiece, 3.5mm Jack
RLN4941A & MDRLN4941A	Receive-Only Earpiece with Translucent Tube and Rubber Eartip
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
RLN6242_	Replacement Quick Disconnect Translucent Tube with One Clear Rubber Eartip
RLN6282_	Replace Rubber Ear Tips for RLN6242_

Déclaration de conformité du fournisseur

Déclaration de conformité du fournisseur

Règlement CFR 47, partie 2, section 2.1077(a) de la FCC



Partie responsable

Nom : Motorola Solutions, Inc.

Adresse : 2000 Progress Pkwy, Schaumburg, IL. 60196

Numéro de téléphone : 1 800 927-2744

Déclare par les présentes que le produit :

Nom du modèle : **R2**

est conforme aux réglementations suivantes :

Partie 15, sous-partie B, section 15.107(a), 15.107(d) et section 15.109(a) des règlements de la FCC.

Appareil numérique de classe B

En tant que périphérique d'ordinateur personnel, cet appareil est conforme aux dispositions de la partie 15 des règlements de la FCC. Son utilisation est assujettie aux deux conditions suivantes :

- 1 Cet appareil ne doit pas causer d'interférence nuisible; et
- 2 Cet appareil doit accepter toute interférence reçue, y compris les interférences pouvant entraîner un fonctionnement indésirable.



REMARQUE :

Cet équipement a fait l'objet de tests et a été déclaré conforme aux limites établies pour un appareil numérique de classe B, conformément à la section 15 des règlements de la FCC. Ces limites sont fixées afin d'offrir une protection suffisante contre des interférences nuisibles dans une installation résidentielle. Cet équipement génère, utilise et peut émettre de l'énergie de radiofréquence et, s'il n'est pas installé ou utilisé conformément aux instructions, il peut provoquer un brouillage nuisible aux communications radio. Cependant, il est impossible de garantir qu'il n'y aura aucune interférence dans une installation particulière.

Si cet appareil cause une interférence nuisible à la réception de la radio ou de la télévision, ce qui peut être déterminé en éteignant et en allumant l'appareil, vous êtes encouragé à remédier à la situation en prenant une ou plusieurs des mesures suivantes :

- Réorienter ou déplacer l'antenne réceptrice.
- Augmenter la distance entre l'équipement et le récepteur.
- Brancher l'appareil dans une autre prise sur un circuit différent de celui du récepteur.
- Consulter le distributeur ou un technicien de radio ou de télévision chevronné pour obtenir de l'aide.

Consignes de sécurité importantes

Radios bidirectionnelles portatives : exposition aux radiofréquences et sécurité du produit



MISE EN GARDE :

Cette radio doit être utilisée à des fins professionnelles uniquement. Avant d'utiliser la radio, lisez le guide Exposition aux radiofréquences et sécurité du produit inclus avec la radio. Ce guide contient d'importantes instructions de fonctionnement pour une utilisation sécuritaire et des informations sur l'exposition aux radiofréquences, dans le but d'assurer votre conformité aux normes et règlements en vigueur.

Toute modification apportée à cet appareil sans l'autorisation explicite de Motorola Solutions peut annuler l'autorisation d'utiliser l'appareil.

Selon la réglementation d'Industrie Canada, cet émetteur radio ne peut être utilisé qu'avec une antenne dont le type et le gain maximal (ou minimal) sont approuvés par Industrie Canada pour cet émetteur. Afin de limiter les interférences radio pour les autres utilisateurs, le type et le gain de l'antenne doivent être choisis de façon à ce que la puissance isotrope rayonnée équivalente (p.i.r.e) ne soit pas plus forte qu'il ne le faut pour établir la communication.

Cet émetteur radio a été approuvé par Industrie Canada pour utilisation avec une antenne approuvée par Motorola Solutions offrant le gain maximal autorisé et l'impédance requise pour le type d'antenne indiqué. Il est strictement interdit d'utiliser avec cet appareil tout type d'antenne ne figurant pas dans cette liste et présentant un gain supérieur au maximum indiqué pour le type.

Avis aux utilisateurs (FCC)

Cet appareil est conforme à la partie 15 des règlements de la FCC d'après les conditions suivantes :

- Cet appareil ne doit pas causer d'interférence nuisible.
- Cet appareil doit accepter toute interférence reçue, y compris les interférences pouvant entraîner un fonctionnement indésirable.
- Toute modification apportée à cet appareil sans l'autorisation explicite de Motorola Solutions peut annuler l'autorisation d'utiliser cet appareil.

Avis aux utilisateurs (Industrie Canada)

Le fonctionnement de votre radio Motorola Solutions est assujéti à la Loi sur la radiocommunication et doit se conformer aux règles et règlements du ministère Innovation, Sciences et Développement économique Canada du gouvernement fédéral. Industrie Canada exige que les utilisateurs de fréquences mobiles terrestres privées obtiennent une licence avant d'utiliser leur équipement.