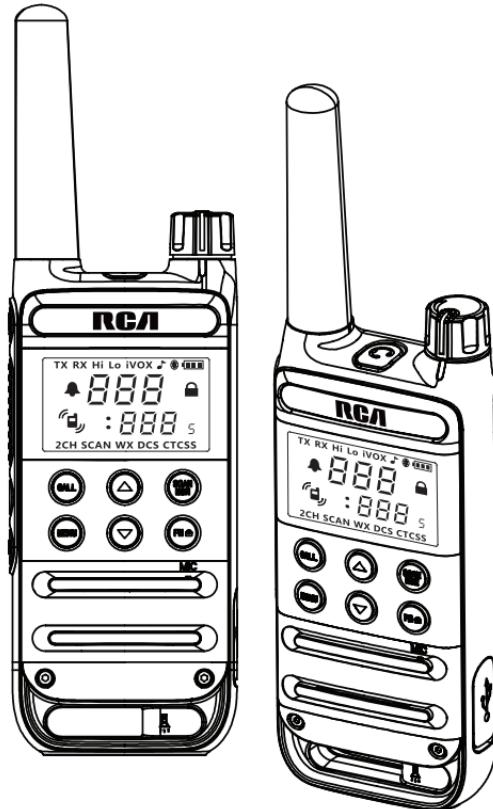


# INSTRUCTION MANUAL



**RCA**

Communications Systems

# RCR490

## Consumer Two-Way Radios





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**Caution**

Before using the product, read this user manual as it contains important operating instructions. For more information, product details, brochures, user manuals, and approved accessories visit the following website: [www.rcacommunicationssystems.com](http://www.rcacommunicationssystems.com).

**Compliance with RF Exposure Standards**

National and international regulations require manufacturers to comply with the RF energy exposure limits for portable two-way radios before they can be marketed. Your RCA two-way radio is designed, manufactured, and tested to comply with all applicable national and international regulations for human exposure to radio frequency electromagnetic energy.

**RF Energy Exposure Awareness and Control Information and Operational Instructions for General Population and Uncontrolled Environment Use**

For more information on what RF energy exposure is, see the following websites:

- <https://www.fcc.gov/>
- <http://www.who.int/peh-emf/project/en/>
- <http://www.ic.gc.ca/eic/site/smt-gst.nsf/eng/sf11467.html>
- <http://www.ic.gc.ca/eic/site/smt-gst.nsf/eng/sf01904.html>

**RF Exposure Compliance and Control Guidelines**

- Do not remove any labels from this device or its related accessories and do not discard this user manual. If transfer ownership, include this user manual with the device.
- Do not use the device if any of the operational requirements described in this user manual are not met.



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## Operating Instructions

- **DO NOT** exceed transmit time of more than 50%. To transmit (talk), press the **Push-To-Talk (PTT)** button. To receive calls, release the **Push-To-Talk (PTT)** button.
- Hold the radio in a vertical position with the antenna pointing upwards. Hold the radio in front of the face with the radio at least 1 in. (2.5 cm) away from the nose or lips. Antenna should be kept away from the eyes.
- When worn on the body, always place the radio in supplied belt clip, holder, holster, case, or body harness specifically made for this product.
- **DO NOT** hold the antenna with your hands when the radio is transmitting.
- **DO NOT** use the radio if the antenna is damaged. If a damaged antenna comes into contact with your skin, it can cause a skin burn.
- To ensure continued compliance with applicable RF exposure limits, use only RCA Communications Systems, approved accessories.
- For a list of RCA Communications Systems approved accessories please refer to your user manual or visit **www.rcacommunicationssystems.com**.

## Acoustic Safety

Exposure to high volume for extended periods of time may affect your hearing negatively. The higher the volume of the radio, the sooner your hearing will be affected. Hearing damage from high volume may be temporarily or permanent and it is sometimes undetectable at the beginning, and can have a cumulative effect.

To protect your hearing, follow these precautions:

- Use the lowest volume necessary to do your job.
- Turn the volume up only if you are in noisy environments.
- Turn the volume down before putting on a headset or an earpiece.
- Limit the amount of time you use a headset or earpiece at high volume.
- When using the radio without a headset or earpiece, do not place the speaker of the radio near your ear.

## Medical Devices

If you use a personal medical device, such as a pacemaker or hearing aid, consult the manufacturer of your medical device to determine if it is adequately shielded from RF energy. Your physician may be able to assist you in obtaining this information.

Some RCA holsters incorporate strong, neodymium magnets. If you use a personal medical device, such as a pacemaker or hearing aid, consult the manufacturer of your device to determine if it can be used in close proximity to magnets. Your physician may be able to assist you in obtaining this information. Also be aware that magnets can damage other products, including cell phones, computers, hard drives, and other electronic devices, as well as credit cards and magnetic media. Keep the holster away from any mechanical device that could be affected by a magnetic field. Consult the manufacturer of your product to determine if your device or product can be used in close proximity to magnets.

### Operational Warnings

The following explains the operational warnings:

#### For Vehicle With Air Bags



##### WARNING

- Refer to vehicle manufacturer's manual prior to installation of electronic equipment to avoid interference with air bag wiring.
- **DO NOT** place a portable radio in the area over an air bag or in the air bag deployment area. Air bags inflate with great force. If a portable radio is placed in the air bag deployment area and the air bag inflates, the radio may be propelled with great force and cause serious injury to occupants of the vehicle.

### Environments with Potentially Explosive Materials



##### WARNING

- **DO NOT** carry and/or use a radio that is not certified for Hazardous Locations into an environment with potentially explosive materials. It could result in a serious injury or death. In such environments you should only use a radio certified for hazardous locations.
- Environment with potentially explosive materials refer to hazard classified locations that may contain hazardous gas, vapors, dusts, such as fueling areas below decks on boats, fuel or chemical transfer or storage facilities, and areas where the air contains chemicals or particles such as grain, dust or metal powders. Areas with potentially explosive materials are often, but not always, marked with a sign.
- **DO NOT** remove, install, or charge batteries in such areas, or remove or install antennas. Sparks in or around potentially explosive materials can cause an explosion or fire resulting in bodily injury or even death.

### Blasting Caps and Blasting Areas



##### WARNING

- To avoid possible interference with blasting operations, turn off your radio when you are near electrical blasting caps, in a blasting area, or in areas with signs: "Turn off two-way radio." Obey all signs and instructions.



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## Batteries

### CAUTION

Use only RCA batteries specifically made for this radio. Risk of fire or explosion if the battery is replaced by an incorrect type.

- Charge your battery using the supplied RCA charger.
- Use the battery in accordance with its water and/or dust Ingress Protection (IP) rating.
- **DO NOT** discard your battery into a fire.
- **DO NOT** replace the battery in environments with potentially explosive materials.
- **DO NOT** disassemble, crush, puncture, shred, or otherwise attempt to change the form of your battery.
- **DO NOT** use the battery if it is damaged and/or it is producing smoke or a smell.
- **DO NOT** dry a wet or damp battery with an appliance or heat source, such as a hair dryer or microwave oven.
- **DO NOT** allow conductive material such as jewelry, keys, or beaded chains to touch exposed battery terminals.
- **DO NOT** dispose of batteries with household waste.

### Safety Instruction for Power Supply

1. The power supply is for use with equipment according to IEC/EN/UL 62368-1/60950-1.
2. The power supply is for indoor use in dry locations.
3. **DO NOT** use or repair the power supply if it is damaged or defective.

### Do Not Substitute Options or Accessories

- Use ONLY RCA Communications Systems approved accessories, specifically designed for this device. Do not substitute or alter any of the accessories as this will void the warranty.
- Use only RCA Communications Systems approved, supplied or replacement antennas, batteries, and accessories. Use of non-approved antennas, batteries, and accessories may result in non-compliance with the FCC and ISED RF exposure guidelines.

### European Union (EU) Waste of Electrical and Electronic Equipment (WEEE) Directive

The European Union's WEEE directive requires that products sold into EU countries must have the crossed out trash bin label on the product (or the package in some cases). As defined by the WEEE directive, this cross-out trash bin label means that customers and end-users in EU countries should not dispose of electronic and electrical equipment or accessories in household waste. Customers or end-users in EU countries should contact their local equipment supplier representative or service center for information about the waste collection system in their country.

## Class B Digital Device

For a Class B digital device or peripheral, the instructions furnished the user shall include the following or similar statement, placed in a prominent location in the text of the manual.

### 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/TV technician for help.

## FCC and ISED Compliance Statement

This device complies with Part 15 of the FCC rules and ISED's license-exempt RSS's per the following conditions:

## INSTRUCTION MANUAL

- 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 approved or performed by RCA Communications Systems, void the user authority to operate this device.

Per FCC CFR 47 Part 2 Section 2.1077(a) the RCR490 conforms to the following regulations FCC Part 15, subpart B, section 15.107(a), 15.107(d), and section 15.109(a).

## Déclaration de conformité FCC et ISED

Cet appareil est conforme aux CNR applicables aux appareils radio exempts de licence et à la partie 15 des règlements de la FCC et d'Innovation, Sciences et Développement économique Canada (ISDÉ), en vertu des 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.
- Les changements ou modifications apportés à cet appareil, non approuvés ou effectués par RCA Communications Systems, annulent le droit de l'utilisateur d'utiliser cet appareil.

Selon la FCC CFR 47 Partie 2 Section 2.1077(a), le RCR490 est conforme aux réglementations suivantes : FCC Partie 15, sous-partie B, section 15.107(a), 15.107(d), et section 15.109(a).



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## LICENSING INFORMATION

### USA (FCC)/CANADA (ISED)

According to FCC Part 95, FRS devices do not require a license. Use of this RCA radio in Canada is subject to the rules and regulations in ISED RSS 210 and do not require a license.

Changes or modifications not expressly approved by RCA Communications Systems may void the user authority granted by the FCC or ISED to operate this radio and any such changes should not be made. To comply with FCC or ISED requirements, transmitter adjustments should be made only by or under the supervision of a person certified as technically qualified to perform transmitter maintenance and repairs in the private land mobile and fixed services as certified by an organization representative of the user of those services. Replacement of any transmitter component (crystal, semiconductor, etc) not authorized by the FCC or ISED equipment authorization for this radio could violate the FCC or ISED rules.

#### **Note:**

Use of this radio outside the country where it was intended to be distributed is subject to local government regulations and may be prohibited.

### **Mexico**

Mexico does not require authorization to use FRS radio equipment frequencies.

### **Colombia**

Operacion itinerante de baja potencia frequency use is subject to CRC Resolucion 002190 de 2003. No license is required for use in Colombia. Consult CRC at [www.crc.gov.co](http://www.crc.gov.co) for more information.

### **Argentina**

Uso Familiar frequency use is subject to CNC Resolution SC No. 2750/98. No license is required for use in Argentina. Consult the AFTIC at <http://www.aftic.gob.ar/> for more information.

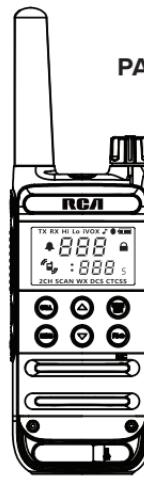
## PRODUCT INSPECTION

Prior to using the RCR490 portable radios, please inspect the packaging for signs of damage and report any damage or missing items immediately to your RCA Communications System Sales and Service Center. The RCR490 portable radios come with the following items:

Item	Qty.
<b>RCR490</b> Handheld Radio	2
<b>B4913NM</b> 1300mAh Rechargeable Battery Packs	2
Lanyard Straps	2
Belt Clip	2
Dual USB Type-C Charging Cable	1
User Manual	1
16 Customizable Labels	1

## INSTRUCTION MANUAL

### PACKAGE CONTENTS:



**RCR490**  
Handheld Radio



Belt Clip



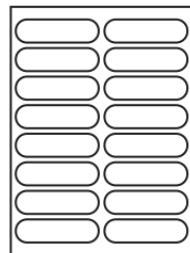
Dual USB Type-C  
Charging Cable



Lanyard



**B4913NM**  
Rechargeable Battery Pack



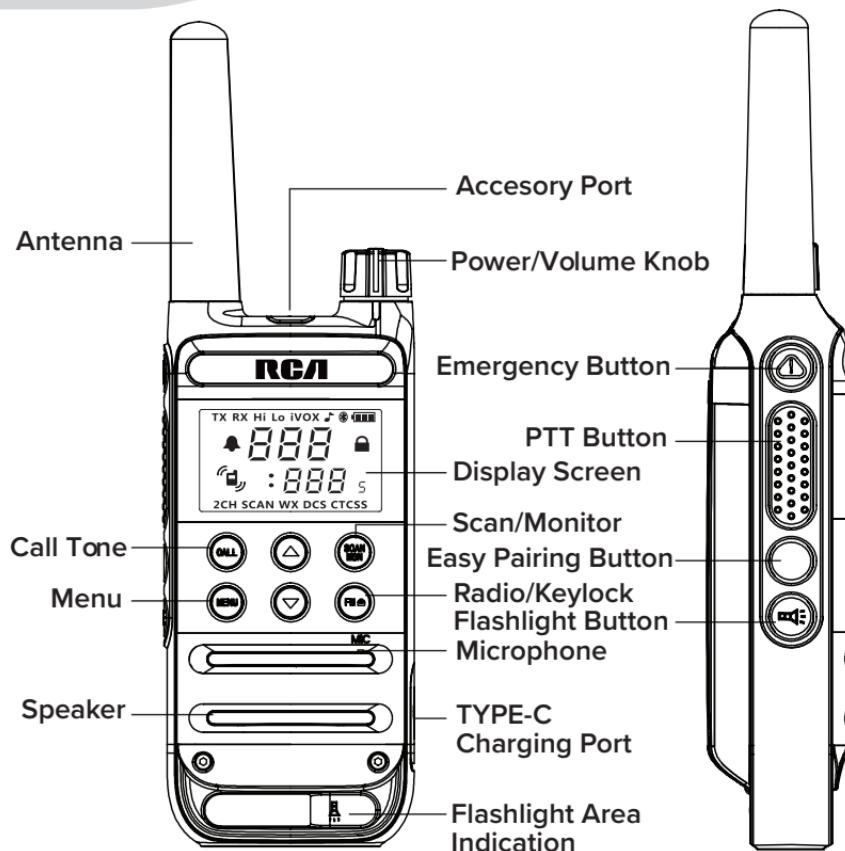
16 Customizable  
Labels



User Manual



## RCR490



# Display Screen Guide

# INSTRUCTION MANUAL

## GETTING STARTED

### Protection from the Environment

This radio is weatherproof to IP-x4 standards. The radio is resistant to water and rain splashes from any direction **only when the battery cover, headset accessory port, and USB ports are sealed**. Remove the battery compartment lid or open the headset port cover only when the radio is completely dry. Using a headset accessory should occur in dry environments only.

The USB adapter is not weatherproof. Therefore:

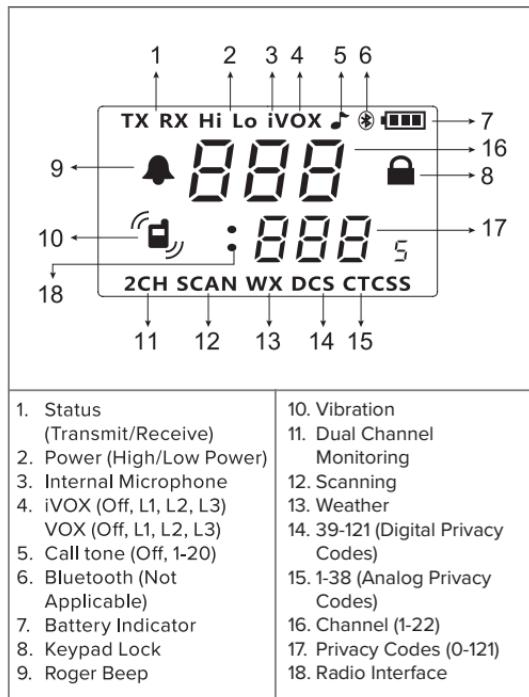
- **DO NOT** expose to rain or snow when the cover is open.
- Charge the radios only in a dry location.
- **DO NOT** charge wet radios.

### Installing the Batteries

Each radio can use NiMH rechargeable battery pack (included) or three AA alkaline batteries (optional). When the radio starts beeping the battery power level is low.

1. Turn the radio off.
2. With the back of the radio facing you, push the latch on the battery cover to the left to unlock the battery cover. Remove the battery cover.
3. For the NiMH battery pack, insert the battery pack by following the instruction provided on the battery pack. Pay attention to the polarity.  
For AA alkaline batteries, insert the batteries by paying attention to the polarity.

**Note:** 5 sec. after last activity, the radio screen will dim itself for 5 seconds to save battery power, after another 5 seconds, the radio screen will turn off. Press any button (except the flashlight button) to activate the display.





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**Note:** The ribbon should be placed underneath and towards right to wrap around the Ni-MH battery pack or AA alkaline batteries, in order to facilitate an easier removal.

4. Place back the battery cover. With the back of the radio facing you, push the latch to the right to lock the battery cover.

### Radio Battery Indicator

The number of bars (0 to 3) on the Radio Battery Icon indicate the charge remaining in the battery. When the battery indicator shows one bar left, the radio will start beeping periodically or after releasing the PTT button, indicating low battery charge level.

### Battery Capacity and Storage

1. When the radio is not in use, charge the Ni-MH battery pack every 3 months.
2. Remove the Ni-MH battery pack or AA batteries before placing the radio in storage for prolonged period of time.
3. Batteries may corrode over time and can cause damage to your radio.
4. Store the Ni-MH batteries in environment in low humidity, between -20C to 35C. Avoid contact with corrosive materials.

### USB Type-C Charging Cable

Use the included Dual Type-C USB charging cable to charge the included Ni-MH battery pack.

1. **Power off the radio before charging.**
2. Plug the USB cable into the radio charging port.
3. Connect the USB cable to a 5V power supply or an AC outlet with built-in 5V USB port.
4. It can take up to 8 hours to fully charge an empty battery pack.
5. During charging the battery indicator bars scroll from right to left.

### Note:

- When moving between locations with hot and cold temperatures, wait about 20 min. before charging for the Ni-MH battery pack to adjust to the new temperature.
- **DO NOT** attempt to charge AA batteries into the radio.
- For optimal battery life, charge the battery pack after full discharge and unplug the radio from the charger as soon as the battery pack is fully charged. **DO NOT** store the radio while charging the battery pack.

## Attaching and Removing the Belt Clip

Slide the belt clip into the belt clip slot at the back of the radio until the clip clicks in place. To remove, press the tab on the back of the belt clip and push the belt clip upwards until it slides out from the radio.

## Turning Radio On and Off

1. To turn the radio on, turn the On/Off Volume rotary knob clockwise.
2. When the radio powers on, the radio chirps and briefly displays all icons on the display. The display shows the current channel, code and all features that are enabled.
3. To turn the radio off, turn the On/Off Volume rotary knob counterclockwise.

## Volume Control

At any time, to increase the volume turn the On/Off Volume rotary knob clockwise and to decrease the volume turn the On/Off Volume rotary knob counterclockwise.

**Note:** Never hold the radio close to your ear while adjusting the volume. If the volume is not set properly, it may damage your hearing.

# INSTRUCTION MANUAL

## Transmit and Receive

To communicate, all participating in the communication radios must be set to the same channel and same Privacy Code.

1. To transmit, press and hold the **Push-To-Talk (PTT)** button. When transmitting, the screen displays the **Tx** icon. If transmitting on a high power channel, **Hi** icon is displayed. If transmitting on a low power channel, **Lo** icon is displayed. These icons remain on until the **Push-To-Talk (PTT)** button is released.
2. To receive, release the **Push-To-Talk (PTT)** button. When receiving, the screen displays the **Rx** icon.

For best audio quality, hold the radio one inch away from your mouth and speak clearly, directly into the microphone. **DO NOT** cover or block the microphone while talking.

## Communication Range

Your radio is designed to maximize performance and extend transmission range. Maximum range can be achieved in ideal conditions. Your actual range will depend on several factors including but not limited to - the specific channel you are using, transmit power level, terrain, weather conditions, electromagnetic interference and obstructions. **Make sure the radios are used at least 5 feet apart.**



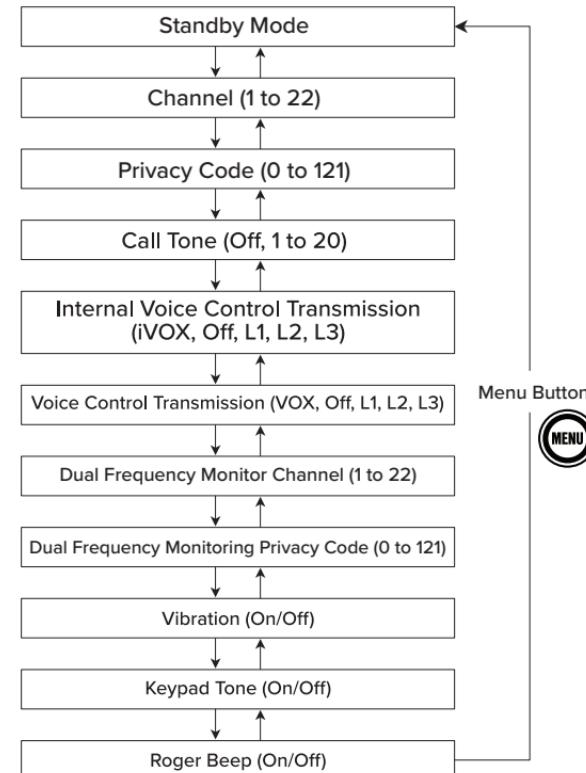
## Monitor Button

Press and hold  Scan/Monitor button for three second to enter Monitor mode and listen for transmissions on the current channel. You can also listen to the volume level of the radio when you are not receiving. Adjust the volume if needed.

## Push-To-Talk (PTT) Timeout Timer

To prevent accidental transmission and preserve battery life, if the **Push-To-Talk (PTT)** button is pressed for more than 60 continues seconds, the radio will emit a continuous warning tone and stop transmitting.

## Menu Options



## Selecting the Channel

## INSTRUCTION MANUAL

Your radio has 22 channels. See the Channels/Frequency table for details.

1. Press the  button until the channel number starts flashing.
2. Press  or  to select the desired channel. A long press on these buttons will quickly scroll through the 22 channels.
3. Press the **Push-To-Talk (PTT)** button to exit the menu, or press the  button to continue browsing through the menu to other settings.

## Privacy Code

Privacy Codes help minimize interference by blocking transmissions from unknown sources. Your radio has 121 Privacy Codes. Codes 1-38 are standard analog codes that appear on other FRS radios. Codes 39-121 are additional digital codes added to provide additional choices for extra protection. If 0 is displayed, it means that no analog or digital code is currently selected on the channel.

## Selecting the Privacy Code

1. Press the  button until the code starts flashing.
2. Press  or  to select the desired code. Long press the button to fast scroll through the codes.
3. Press the **Push-To-Talk (PTT)** button to exit the menu, or press the  button to continue browsing through the menu to other settings.

## Set and Transmit Call Tone

Your radio can transmit different call tone to other radios in your group. Your radio has 20 call tones for you to choose from.

### To set a call tone:

1. Press the  button until the call tone icon  is displayed.
2. Press  or  to select and listen to the call tone.
3. Press the **PTT** button to exit the menu, or press the  button to continue browsing through the menu to other settings.

To transmit your call tone to other radios, select the same Channel and Privacy Code on your radio and press the Call Tone button.

**Note:** Set the call tone to **OFF** to disable the call tone feature.

## Easy Pairing

Easy Pairing allows a group of radio users to quickly and simultaneously program all the radios to the same channel and Privacy Code. Any radio in the group can be selected as a leader radio and transfer the Channel and Privacy Code to other radios in the group (member radios).

1. Select any radio as the “leader radio”. On this radio, select the desired Channel and Privacy Code. See the “Selecting Channel” and “Selecting Privacy Code” sections in this user manual.



2. To copy the Channel and Privacy Code to all the “member radios”, please press the pairing button on the member radio until you hear a beep, release the button after the beep and wait for the leader radio transmission.

**Note:**

You will see a **P** flashing on the display, the member radio is now in easy pairing mode and waiting to receive the Channel and Privacy Code settings from the leader radio. All the member radios will remain in this mode for 3 minutes. It advisable to have all member radios enter easy pairing mode at the same time to ensure the radios are programmed simultaneously before the 3 minute time frame expires.

3. On the leader radio press the pairing button until you hear a two-tone beep.

**Note:**

- Once you hear the two-tone beep, the Channel and Privacy Code from the leader radio will be transmitted and all the member radios will receive it and adjust accordingly.
- The transmission must occur while all member radios are in easy pairing mode, otherwise the transmitted Channel and Privacy Code will not be received.
- On the leader radio, the user must remember to not release the easy pairing button on the first single beep, otherwise

the radio will become a member radio. If this happens, press **Push-To-Talk (PTT)** to exit and try Step 3 again.

### iVOX Internal Voice-Activated Transmission

This feature allows you to initiate a hands-free voice activated call without pressing the **Push-To-Talk (PTT)** button.

**L1** = Low sensitivity, suitable for noisy environments.

**L2** = Medium sensitivity, suitable for most environments.

**L3** = High sensitivity, suitable for quiet environments.

### VOX Voice-Activated Transmission

This feature allows you to initiate a hands-free voice activated call without pressing the **Push-To-Talk (PTT)** button when the radio has a headset accessory attached to it.

**L1** = Low sensitivity, suitable for noisy environments.

**L2** = Medium sensitivity, suitable for most environments.

**L3** = High sensitivity, suitable for quiet environments.

**Note:** When iVOX/VOX is enabled, please expect that the first few words from the communication could be missing.

### Dual Channel Monitor

This feature allows you to scan the current channel and a second channel of your choice.

**To enable dual channel monitoring:**

1. Press the  button until the display shows the dual channel **2CH** icon. The currently set channel number flashes.
2. Press  or  to select the desired second Channel, then press the .
3. Press  or  to select the desired Privacy Code.
4. Press the **Push-To-Talk (PTT)** button or wait for timeout time to expire for the dual channel monitor to become active. Once activated, the screen alternately displays the main channel and the second channel.
5. Press the  button to end dual channels monitor.

**Note:** Dual channel monitor will not work if you set the same Channel and Privacy Code as the current channel.

**Vibration Mode**

Vibration mode makes the radio vibrate when a call is received. It is very useful when using the radio in a noisy environment. If there's no activity within 30 seconds of the previous call, the vibration will be triggered again in the next incoming call.

1. Press the  button until the vibration icon  is displayed on the screen. Settings "On/Off" will blink.
2. Press  or  to set "On/Off".
3. Press the **Push-To-Talk (PTT)** button to exit the menu, or press the  button to continue browsing through the menu to other settings.

**Keypad Tone**

You can enable or disable the keypad tone. If enabled, when a key is pressed, a keypad tone sounds.

1. Press the  button until **BEP** is displayed on the screen. Settings "On/Off" flashes.
2. Press  or  to set "On/Off".
3. Press the **Push-To-Talk (PTT)** button to exit the menu, or press the  button to continue browsing through the menu to other settings.

**Note:** When the keypad tone is turned off, the following features are not disabled:

- Transmit Timeout
- Call Tone
- Low Battery Alert Tone
- Transmit Call Tone

**Roger Tone**

You can set the radio to play a unique tone when you finish transmitting. It is like saying "Roger" or "Over" to let the other person know that you finished the transmission.

1. Press the  button until the Roger Tone icon  is displayed on the screen. Settings "On/Off" flashes.
2. Press  or  to set "On/Off".
3. Press the **PTT** button to exit the menu, or press the  button to continue browsing through the menu to other settings.



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## Emergency Alert Mode

The emergency alert feature can be used to send signal to the group for help. When activating the emergency alert, the radio operates in an automatic “hands free” emergency transmission mode for a total of 30 seconds. All radios in the group automatically turn the speaker volume to the max and emit a local alert tone for 8 seconds. The alert tone is emitted locally from the sender’s radio and all the receiving radios in the group. After the 8 second alert, the automatic transmission from the sender’s radio is broadcast through the receiving radios for 22 seconds. During Emergency Alert Mode, the keypad and controls of the radios are locked to maximize reception of the emergency message.

1. Press and hold the **Emergency Alert** button for 3 seconds.
2. Release the button and the radio automatically emits the alert tone.
3. After the alert tone ends, you may speak into the microphone. Your voice or sound is transmitted to all the radios in the group.
4. After the 30 seconds expire, your radio emits a Talk Permit tone and exits Emergency Mode.

**Warning:** The emergency alert feature should only be used in the event of an actual emergency. RCA Communications Systems is not responsible if there is no response to the emergency alert from the receiving radios or if the receiving radios are out of range.

## Built-In LED Flashlight

Short press the flashlight button to turn the flashlight on and short press the flashlight button again to turn the flashlight off.

**Note:** It is recommended to turn the flashlight off when not in use to save battery power.

## Keypad Lock

Use the keypad lock setting to avoid accidental change of a channel or radio settings:

1. Press and hold the FM  button until the Keypad Lock  icon is displayed.
2. When in lock mode, you can turn On and Off the radio, use the flashlight, adjust the volume, receive, transmit, send call tone, send emergency alert and monitor channel. All other functions are locked.
3. Press and hold the FM  button until the  icon is no longer displayed.

## Weather Mode

Your radio can receive weather radio transmissions by the United States National Oceanic and Atmospheric Administration (NOAA) Weather Radio and Environment Canada Weather Radio. You can listen to a weather channel (see “Weather Channels and Frequencies” table for details) or set your radio to alert you to emergency weather broadcasts that interrupt routine broadcasts. When you listen to a weather channel, you cannot use your radio in scan mode or in two-way radio mode. Both NOAA and Environment Canada have transmitters strategically placed throughout the United States and Canada, however these transmitters are assigned to cover specific areas and service may not be available everywhere. Please check with your local weather office for frequency and details or visit [www.weather.gov/nwr](http://www.weather.gov/nwr) in the US to view the appropriate transmitter for your area. The use of the NOAA logo does not provide an endorsement or implied endorsement by the National Weather Service of NOAA, nor does the use of the Weatheradio logo provide an endorsement or implied endorsement by Environment Canada.

Press **FM**  button to enter weather mode.

### Selecting the Weather Channel

1. In Weather Mode, press the  button, the weather channel flashes. Press  or  to select the desired weather channel.
2. Press the **Push-To-Talk (PTT)** key to set and exit.

### Setting the Weather Alert

The weather alert setting allows radio to receive weather radio emergency messages. When the setting is turned on, the radio will sound an alert and provide weather information if there's a weather emergency.

1. When in Weather Mode, press the  button twice, the On/Off flashes.
2. Press the  or  to turn the weather alert On or Off.
3. Press the **Push-To-Talk (PTT)** key to set and exit.
4. Press **FM**  button until you see the channel information to return to two way radio mode. If Weather alert is turned on, **wx** is displayed when radio is in standby mode.

**Note:** When the weather channel is activated, if there's no weather alert received and/or there is no operation on the radio for 5 minutes, the radio will automatically switch back to two way radio mode.

## FM Radio

1. Press the **FM**  button until you enter the FM radio mode.
2. Press  or  to adjust the frequency. Long press  or  to fast scan to the next available channel. During scanning, **SCAN** is displayed.
3. In the FM Radio mode, you can press the **Push-To-Talk**



**(PTT)** or the  button (if Call Tone is set) to make a call. The radio will switch to standby mode and the FM Radio will be paused.

4. Release **Push-To-Talk (PTT)** to end the standby mode. If no call is received within 5 seconds, the radio returns to the FM Radio mode.
5. When in FM Radio mode, press the  button until you see the channel information, the radio has exited the FM Radio mode.

## Do Not Disturb

1. Press the  button until radio displays **dnd**, the radio enters Do Not Disturb mode.
2. When in Do Not Disturb Mode the radio can make a call and receive emergency alerts, however the radio is not able to receive calls.
3. Press the  button or **Push-To-Talk (PTT)** key to exit Do Not Disturb mode.

## Scan

You can use the scanning feature to search all channels for transmissions from unknown sources, to find someone in the group who accidentally switched channels or to quickly find unused channel.

**Your radio has two mods of scanning (Basic and Advanced) and a Priority feature.**

The Basic Scan mode uses the Channel and Privacy Code combinations that are set for each channel (or uses the default Privacy Code value of 1). The Advanced Scan mode scans all channels for any and all codes, it detects any code in use and use that code value temporarily for that channel. Priority is given to the home channel, which is the Channel and the Privacy Code your radio is set on when scanning begins. As a result, this initial Channel and Privacy Code setting are scanned more frequently than others, ensuring your radio responds quicker to any activity on the home channel.

### Basic Scanning:

1. Short press the  button, **SCAN** will be displayed on the screen and the radio starts scrolling through channels and code combinations.
2. When the radio detects channel activity with the matching combination of Channel and Privacy Code, the radio will pause scanning and receive the transmission.
3. To respond, press the **Push-To-Talk (PTT)** within 5 seconds after the end of the transmission.
4. The radio will resume scanning 5 seconds after the end of the last transmission on the channel.
5. Short press the  button to stop scanning.

## Advanced Scanning:

1. Set the Privacy Code to “0”.
2. Short press the  button, **SCAN** will be displayed on the screen and the radio starts scrolling through the channels.
3. When the radio detects channel activity with **ANY** Privacy Code, the radio will pause scanning and receive the transmission. The Privacy Code that is used by the transmitting party is detected and displayed.
4. To respond, press the **Push-To-Talk (PTT)** within 5 seconds after the end of the transmission.
5. The radio will resume scanning 5 seconds after the end of the last transmission on the channel.
6. Short press the  button to stop scanning.

### Note:

1. If the **Push-To-Talk (PTT)** is pressed while the radio is scanning, the radio will transmit on the home channel. Press the  at any time to stop scanning.
2. If the radio stops transmission unexpectedly, press the  or  to immediately resume scanning.
3. If the radio repeatedly stops on an unwanted transmission, press and hold the  or  for 3 seconds to temporarily remove that channel from the scan list. You can remove multiple channels using this method.

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4. To restore the removed channels, restart the radio or exit and re-enter the scan mode by pressing the  button.
5. You cannot remove the home channel from the scan list.
6. In Advanced Scan Mode, the detected Privacy Code is only used for a single transmission, remember the Privacy Code, exit the scan and set the detected Privacy Code on that channel to permanently use the detected Privacy Code.

## Weather Channels and Frequencies

Weather Channel	Frequency (MHz)
WX1	162.550
WX2	162.400
WX3	162.475
WX4	162.425
WX5	162.450
WX6	162.500
WX7	162.525
WX8	161.650
WX9	161.775
WX10	161.750
WX11	162.000



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### Channels and Frequencies

**Note:** The power listed is the maximum allowable transmit power as defined by FCC/ISED for each channel under the FRS rules for USA and FRS/GMRS rules for Canada and it is not a reflection of the power specification of the radio.

Channel	Frequency (MHz)	Max Power Output
1	462.5625	2 W
2	462.5875	2 W
3	462.6125	2 W
4	462.6375	2 W
5	462.6625	2 W
6	462.6875	2 W
7	462.7125	2 W
8	467.5625	0.5 W
9	467.5875	0.5 W
10	467.6125	0.5 W
11	467.6375	0.5 W
12	467.6625	0.5 W
13	467.6875	0.5 W
14	467.7125	0.5 W
15	462.5500	2 W
16	462.5750	2 W
17	462.6000	2 W
18	462.6250	2 W
19	462.6500	2 W
20	462.6750	2 W
21	462.7000	2 W
22	462.7250	2 W

## NOTES:



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### CARE AND CLEANING

- **DO NOT** directly handle the radio by its antenna or external microphone.
- **DO NOT** place the radio in a dusty or dirty environment.
- Clean the radio with a lint-free cloth moistened with clean water and/or a mild dishwashing liquid to remove dirt, grease and dust.
- Avoid subjecting the radio to corrosives, solvents or spirits.

### WARRANTY STATEMENT

RCA Communications Systems warrants each new radio product it supplies to be free from defects in material and workmanship under normal use and service for the time period listed below, provided that the user has complied with the requirements stated herein.

The warranty period begins on the date of purchase from an Authorized RCA Communications Systems Sales and Service Outlet. This warranty is offered to the original end user and is not assignable or transferable. RCA Communications Systems is not responsible for any ancillary equipment which is attached to or used in conjunction with RCA Communications Systems products.

RCA Communications Systems offers to the original end user Two (2) Year Limited Warranty on the RCA Portable Radio Transceiver Units. Accessories supplied with the radio units, or as spares, such as but not limited to Antennas, Belt Clips, Battery Packs, Single or Multi-Unit Battery Chargers, Power Cords and Adapters are covered under a 90 Day Limited Warranty.

During this period, if the product fails to function under normal use because of manufacturing defect(s) or workmanship, it should be returned to the Authorized RCA Communications Systems Sales and Service Outlet from which it was

purchased. To obtain service, you must include: (a) a copy of your receipt, bill of sale or other comparable proof of purchase; (b) a written description of the problem; and, most importantly; (c) your address and telephone number. The Sales and Service Outlet will repair the product to full operating specifications or if deemed unrepairable, replace the product with a new product of the same make and model. The user is responsible for all charges incurred in returning the product to the Authorized RCA Communications Systems Sales and Service Outlet. RCA Communications Systems will be responsible for all charges in returning the product to the end user via standard ground shipping service. End users may choose to use a faster shipping service at their own cost.

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For more detailed information visit [www.rcacommunicationssystems.com](http://www.rcacommunicationssystems.com) or contact your local Authorized RCA Communications Systems Sales and Service Outlet.



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