

# **User Manual**

**Model: L8230**

## SAFETY AND GENERAL INFORMATION

### *Important Information for Safe and Efficient Operation*

Please read this information before using your radio.

#### *Safety and General*

1. Do not transmit more than 50% of time. It is important as the radio generates measurable RF energy exposure only when transmitting.
2. Do not open the radio. Any unauthorized modification may invalidate the guarantee.
3. Radio frequency signals transmitted may cause interference to hearing aids.
4. Turn off the radio when near medical equipment.
5. This product should not be used by people with pacemakers.
6. Do not use the radio when driving a vehicle or operating machinery.
7. Do not use the radio when on board aircraft.
8. Do not hold the antenna when transmitting.
9. Do not use the radio when the antenna has damaged.
10. Turn off the radio and remove the batteries if you are not going to use it for a long time.
11. Do not attempt to charge alkaline batteries.

### ***Transmit and Receive Procedures***

Your wireless hand-held portable transceiver contains a low power transmitter. When the Push-to-Talk (PTT) button is pushed it sends out radio frequency (RF) signals. The device is authorized to operate at a duty factor not to exceed 50%. In August 1996, the Federal Communications Commissions (FCC) adopted RF exposure guidelines with safety levels for hand-held wireless devices.

### ***RF Exposure***

**CAUTION:** To maintain compliance with the FCC's RF exposure guidelines hold the transmitter and antenna at least 1 inch (2.5 centimeters) from your face and speak in a normal voice, with the antenna pointed up and away from the face. If you wear the handset on your body while using the headset accessory, use only the supplied belt clip for this product and when transmitting, take it out of the belt to ensure that the antenna is at least 1 inch (2.5 centimeters) from your body.

Use only the supplied antenna. Unauthorized antennas, modifications, or attachments could damage the transmitter and may violate FCC regulations.



## **OPERATIONAL CAUTIONS**

1. Never dispose of batteries in a fire. There is a serious risk of explosion and /or the release of highly toxic chemicals.
2. Do not expose your product to direct sunlight, extreme cold or place it near heating appliances.
3. Do not submerge any part of your product in water and do not use it in damp, humid or wet conditions.
4. Do not expose your product to fire, explosive or other hazardous conditions. For example, at petrol stations or areas where explosive products are used.
5. Turn off the radio during charging.

## USING YOUR RADIO

Read this manual carefully before use.

Your radio has 14 channels. All radios in your group must be set to the same channel and Interference Eliminator Code in order to communicate with each other.


- For maximum clarity, hold radios 5 to 7 centimeters from mouth.
- Press and hold  and speak into the microphone.
- To receive messages, release .

### 1. Antenna

### 2.

- Power on/off.
- Increase/Decrease volume.

### 3.

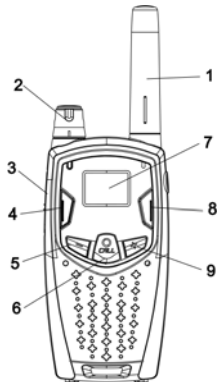
- Push to transmit, release to listen.
- Pressing  has 60 seconds limit.
- In menu mode, push to confirm selection.

### 4. **mon**/

- Push to monitor/scan channels.

### 5.

- Push to decreases the channel / CTCSS Code / select VOX level and call tone.











## 6. CALL

- Short press to send a single call tone.
- Long press to send the call tone maximum 10 times, and then returns to standby mode automatically.

## 7. LCD








## 8. mode/☎

- Short press enters menu mode
  - Press one time to enter MENU mode, press  or  to select RF channel.
  - Press two times to enter CTCSS mode, press  or  to set CTCSS code.
  - Press three times to enter Call Tone mode, press  or  to set a new call tone.
  - Press four times to enter Sensitivity Level mode, press  or  to set sensitivity level.
  - Press five times to exit MENU mode.
- Long press to lock/unlock keypad.

It will be automatically exited the menu mode if you have not pressed any key for several seconds when you in any mode.



## 9.

- Push to increases the channel / CTCSS Code / select VOX level and call tone.




-  : displays the battery level
-  : displays the channel number
-  : displays the CTCSS Code
-  : displays the Call Tone setting
-  : displays when VOX function turn on
-  : keypad locked
-  : talk confirmation tone




### ***Turning Your Radio On And Off***


Turn  clockwise to turn your radio on. The radio chirps and the display will show all feature icons that your radio has available for a brief period. The display will show the channel 1 - 14 and interference eliminator code 0 - 38. Turn  counterclockwise to turn your radio off.


### ***Volume***

Rotate  while holding down **mon/** key until you reach a comfortable listening level. Rotate  clockwise to increase the volume or counterclockwise to decrease the volume.

### ***Select Channel***

1. Press **mode/** button. The channel number will begin to flash.


2. Use  or  button to change channel.

3. Press  button to set the new channel.


CH	FREQ (MHz)	CH	FREQ (MHz)
1	462.5625	8	467.5625
2	462.5875	9	467.5875
3	462.6125	10	467.6125
4	462.6375	11	467.6375
5	462.6625	12	467.6625
6	462.6875	13	467.6875
7	462.7125	14	467.7125

### *Scan*

Use scanning to monitor channels and codes for transmissions or to find someone in your group who has accidentally changed channels.

To start scanning, briefly press and release **mon**/ key. The scan indicator  is shown.

When the radio detects channel activity, it stops scanning and you can hear the transmission. To



respond to the transmission, press .

**Note:** If your radio's Interference Eliminator Code is set to 0 while scanning, the radio checks for




activity on each channel regardless of the code used on the channel. If your radio's Interference Eliminator Code is set to 1-38 and ignores channels using code 0.



### ***Scan Advance***

If scan stops on a channel that you don't want to listen, briefly press  or  button to resume scanning for the next active channel.

### ***Monitor***

There are multiple channels shared among all users on the "take turn" basis. For uninterrupted communication, do not talk on a channel if someone else is currently talking on it. To check for activity on a channel before you talk, press and hold **mon**/ key. If you hear static, the channel is clear to use.


### ***Removing Channels form the Scan List***




To remove a channel so the radio does not stop on it while scanning, press and hold  or  for at least 3 seconds, then release. This temporarily removes the channel from the scan list. To restore the channel, turn the radio off and then back on.

**Note:** You cannot remove the channel which your radio was set to (called your home channel) when you start scanning.

### ***Interference Eliminator Code (CTCSS)***

CTCSS help minimize interference by providing you with a choice of code combinations.


1. Press **mode**/ until the code number begins to flash.

2. Press  or  to change the code.
3. Press  to set new code.


You can specify a different code for each channel.


**Note:** You must set the CTCSS to 0 on a radio that uses CTCSS to communicate with other radios that do not have CTCSS.

### ***Time-out Timer***

The Time-out Timer feature helps extend battery life by preventing accidental transmission. The radio will emit a continuous warning tone after  is pressed for 60 continuous seconds and will stop transmitting.

### ***Keypad Lock***

To avoid accidentally changing your radio settings, press and hold **mode**/ for 3 seconds until key lock icon is displayed. You can turn the radio on and off, adjust the volume, receive, transmit, send a call tone and monitor channels. All other functions are locked.

To unlock the radio, press and hold **mode**/ for 3 seconds and until key lock icon is no longer displayed.

### ***Channel Busy Indicator***

When a channel is busy, the LED flashes twice per second.

## ***Setting and Transmitting Call Tone***

Your radio can transmit different call tones to other radios in your group so you can alert them that you want to talk.


To set a call tone:

1. With the radio on, press **mode/PTT** 3 times. The current call tone setting flashes and “CA” is displayed.
2. Press **+** or **-** to change and hear the call tone.
3. Press **mode/PTT** or **PTT** to set the new call tone.

To transmit your call tone to other radios set to the same channel and Interference Eliminator Code as your radio, press CALL button.

**Note:** This radio has 10 call tones. Setting the call tone to 0 disables the call tone feature.

## ***Transmitting a Talk Confirmation Tone***


When you turn on this feature, your two-way radio transmits a unique tone when you finish transmitting. It's like saying 'Roger' or 'Over', and lets others know you've finished talking. And at the same time, the icon  will display.

1. To turn talk confirmation tone on, press and hold **+** button while you turn the radio on. When you release **PTT** button after transmitting, your talk confirmation tone transmits.
2. To turn talk confirmation tone off, turn your radio off and then back on while pressing and holding **+** button.

## ***Hands Free Use (VOX)***




VOX allows you to transmit hands free by talking while using VOX accessories connected to the radio.

1. Turn the radio off.
2. Insert the plug of the VOX accessory firmly into the accessory jack.
3. Turn the radio on and “VOX” is displayed.
4. Lower the radio volume before placing the accessory on your head or in your ear.
5. To transmit, speak into the accessory microphone. There is a short delay between the time you start talking and radio transmission.
6. To receive, stop talking.

To turn VOX off, press  or remove the VOX accessory.

## ***Setting Sensitivity Levels***



Adjusting your radio's sensitivity level helps minimize the possibility of unintended noise triggering a transmission and helps the radio pick up soft voices.

1. Press **mode/** 4 times or until the sensitivity level number and “VOX” is shown.
2. Press  or  to select the sensitivity level:
  - 1 = Low Sensitivity (for noisy environments)**
  - 2 = Medium Sensitivity (for most environments)**
  - 3 = High Sensitivity (for quiet environments)**

**Note:** When you connect a VOX accessory, the radio is automatically set to the last chosen

sensitivity level.



### ***Battery Meter***

The battery icon shows the battery charge level from full  to  empty.

When the battery is about to be empty, the radio chirps periodically.

**Note:** Remove the batteries before storing your radio for extended period of time. Batteries corrode over time and may cause permanent damage to your radio.

### ***Using Audio Accessory (optional)***

1. Turn the radio off. Plug the accessory connector into the jack.
2. Turn the radio on. Lower the volume before placing the accessory on your head or in your ear.
3. Adjust the volume to a comfortable level using  or .
4. To transmit, speak into the accessory microphone.
5. To receive, stop talking.

## FCC INFORMATION

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/TV technician for help.

**Warning:**

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

Any adjustment to this equipment is recommended to be performed by or under the immediate supervision and responsibility of a person certified as technically qualified to perform transmitter maintenance and repair duties in the private land mobile services and fixed services by an organization or committee representative of users of those services.

Replacement of any transmitter component (crystal, semiconductor, etc.) for this equipment could result in violation of FCC rules.