

# GMRS480

- 8 GMRS/7 FRS Channels
- 38 CTCSS Codes
- Up to 5 mile range\*
- Ambient Temperature Display
- 5 Selectable Call Tone Alerts
- NiMH Battery Pack Included
- Vibrate Alert for incoming calls
- 7 NOAA Weather Radio Channels
- LCD Display with Holographic Effect
- Optional Headset Accessories
- Earset Mic w/PTT Included
- AC Charger Included
- 10 Memory Locations
- Battery Level Meter
- Channel Monitor
- Water Resistant
- Channel Scan
- Keypad Lock



\*Range may vary depending on environmental and/or topographical conditions.

Congratulations on your purchase of the Uniden GMRS480 (General Mobile Radio Service) radio. This product is a lightweight, palm-sized radio. Use it at sporting events to stay in contact with family and friends, hiking, skiing, outdoors, or in a neighborhood watch for vital communication. This compact, state-of-the-art device is equipped with many features.

## OPTIONAL ACCESSORIES

Your package contains the GMRS480 radio, NiMH battery pack, AC wall charger, this reference guide, and a product registration card. You can also operate the unit using 4 AA alkaline batteries (not included). The following optional accessories may be purchased from our participating Uniden dealer or call 1-800-554-3988 or visit us on the web at [www.uniden.com](http://www.uniden.com)

• Earset Mic w/ PTT - #HS2468

• Vox Headset Mic - #HSV2469

• NiMH Battery Pack w/AC Charger and DC Car Charger - #BPCCB0

## FCC GMRS LICENSE

Use of the GMRS480 (General Mobile Radio Service) within the United States requires a FCC GMRS license.

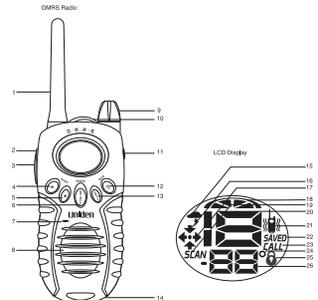
An individual 18 years of age or older, is eligible for a GMRS system license. You will need two forms from the FCC, FCC Form 159 and FCC Form 605 Main Form and Schedule F. You can find these forms online at: [www.fcc.gov/formpage.html](http://www.fcc.gov/formpage.html) or call 1-800-418-3676.

## INSTALL THE BATTERY

Your GMRS480 radio uses the NiMH battery pack or 4 AA alkaline batteries. If alkaline batteries are used, we recommend using Duracell Ultra alkaline batteries.

To install the NiMH Battery Pack:

- 1) Make sure your radio is off.
- 2) Remove the battery compartment door by firmly moving the clip away from the door allowing the door to be removed.
- 3) Place the pack in the compartment, paying close attention to the round alignment key. If the pack is installed incorrectly, the unit will not operate and the compartment door will not close properly.
- 4) Replace the battery compartment and secure the clip back in place.
- 5) The battery pack must be charged before using it for the first time. Insert the charger adapter into the accessory jack and allow 12-14 hours charging time to fully charge the battery pack.



- |                         |                               |
|-------------------------|-------------------------------|
| 1 Antenna               | 15 Weather Indicator          |
| 2 Monitor Button        | 16 Receive Indicator          |
| 3 PTT Button            | 17 Transmit Indicator         |
| 4 Up Key                | 18 Battery Level Meter        |
| 5 Down Key              | 19 Scan Indicator             |
| 6 Menu/Select Key       | 20 Channel Indicator          |
| 7 Microphone            | 21 Vibrator Indicator         |
| 8 Speaker               | 22 Memory Operation Indicator |
| 9 On/Off/Volume Control | 23 Call Alert                 |
| 10 Bellclip             | 24 Temperature Reading        |
| 11 Headset Jack         | 25 Lock Indicator             |
| 12 Weather/Lock Key     | 26 CTCSS Code                 |
| 13 Call Key             |                               |
| 14 Battery Cover        |                               |

To install the alkaline batteries:

- 1) Make sure the radio is off.
- 2) Remove the battery compartment door by firmly moving the clip away from the door allowing the door to be removed.
- 3) Install 4 AA alkaline batteries (not included) into the battery compartment. Be certain to follow the + and - symbols in the compartment. Installing the batteries incorrectly will prevent the unit from operating.
- 4) Replace the battery compartment door and secure the clip back in place.

## BATTERY LEVEL AND LOW BATTERY ALERT

This unit has a battery level meter on the display to indicate the status of the batteries. When the batteries in the unit are low, the icon will flash and the unit will periodically emit a tone. Replace the alkaline batteries immediately or if you are using the NiMH battery pack, you must recharge the batteries in order to continue using the radio.

Note: It is recommended that the radio be turned off while charging. If the unit is turned on, the display will show a C indicating charging.

## USING THE RADIO

In order to get the most out of your new radio, read this reference guide completely before attempting to operate the unit.

Your unit has (2) modes of operation.

- 1) GMRS Radio Mode
- 2) Weather Radio Mode

The Weather Radio Mode will be discussed later.

## Turning the Radio On and Adjusting the Volume

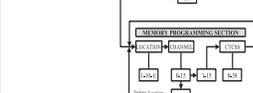
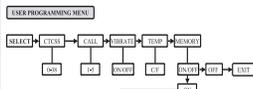
- 1) Rotate the **on/off/volume** control clockwise to turn the unit on and increase the speaker volume.
- 2) Rotate the **on/off/volume** control counterclockwise to decrease the speaker volume and turn the unit off.

## Adjusting the Sound (Key Beeps)

Your radio emits a beep each time one of the buttons is pressed. To turn this sound off, press **menu/select** while turning on the radio. To turn this sound on, press **menu/select** while turning on the radio.

## Navigating through the Menu

To access the advanced features of the GMRS480, your radio has a menu function.



- 1) To enter the menu, press and hold the **menu/select** button for 1 second.
- 2) Additional presses of the **menu/select** button will advance through the menu until exiting to "normal" operating mode.
- 3) Other methods of exiting the menu function are:
  - a. Press and hold the **menu/select** button for 1 second again.
  - b. Press **PTT**.

## Choosing a Channel

Your radio has 15 channels and 38 CTCSS codes you can use to talk to others. In order to speak to someone, each of you must be set to the same channel and CTCSS code.

To choose a channel:

Press the **▲** or **▼** button to increase or decrease the channel number displayed.

## Choosing a CTCSS Code

Each of the GMRS/FRS channels 1-15 may have any one of the codes 0-38 selected. Code "0" indicates no CTCSS code selected and your radio can receive a signal regardless of the code settings of the transmitting radio.

- 1) Enter the menu. Advance through the menu, to the CTCSS code on the LCD display will flash.
- 2) Press the **▲** or **▼** button to increase or decrease the code number displayed.
- 3) Exit the menu to return to "normal" mode.

## Talking on Your Radio

To talk to others using the radio:

- 1) Press and hold the **PTT** button and speak in a clear, normal voice about 2-3 inches away from the microphone. While you are transmitting, the icon will appear on the display. To avoid cutting off the first part of your transmission, pause slightly after pressing the **PTT** button before you start talking.
- 2) When you are finished speaking, release the **PTT** button. You can now receive incoming calls. While receiving, the icon will appear on the display.

## Transmitting a Call Alert Tone

Your GMRS480 radio is equipped with 5 selectable call tones that will be transmitted when the **call** button is pressed.

To select a call tone:

- 1) Enter the menu. Advance through the menu until the **CALL** icon on the display is shown. The current call tone number (1-5) will be indicated.
- 2) Press the **▲** or **▼** button to increase or decrease the number to the desired call tone. Each tone will be heard through the speaker.
- 3) Exit the menu.

To transmit the selected call alert tone, momentarily press the **call** button. The selected tone will automatically be transmitted for a fixed length of time.

## Vibrate Alert for Incoming Calls

Your GMRS480 radio is equipped with a vibrator that can be used for notification of an incoming call alert from other Uniden radios equipped with the same feature.

To select the vibrate alert:

- 1) Enter the menu. Advance through the menu, the icon will appear on the display along with **on** or **off** indicating the vibrate alert feature status.
- 2) Press either the **▲** or **▼** button to toggle between **on** or **off**.
- 3) Exit the menu.

## Channel Scan Feature

Your GMRS480 radio has a channel Scan feature that allows you to easily scan all 15 channels. When an active channel is detected, the unit will pause on that channel until the channel is clear. Then after a 4 second delay, the unit will continue scanning. Pressing **PTT** while the scan is paused on a channel will allow you to transmit on that channel.

To turn on channel scanning:

Press and hold either the **▲** or **▼** button until the icon appears on the display. The channel number on the display will rapidly cycle through the channels.

To turn off channel scanning:

Press and release the **▲** or **▼** button.

## Using the Memory Feature

The Memory Feature allows you to store up to 10 frequently used channels. Each channel can have a unique CTCSS code assigned to it. When the Memory feature is turned on, the menu is automatically expanded to enable memory programming [refer to the User Programming Menu].

To select the Memory Feature:

- 1) Enter the menu. Advance through the menu until the **SAVED** icon on the display is shown. You will see **on** or **off** indicating the memory feature status.
- 2) Press either the **▲** or **▼** button to toggle between **on** or **off**.
- 3) If **on** is selected, press **menu/select** to advance to the Memory Programming menu.
- 4) The current memory location 1-10 will be flashing on the display. Press the **▲** or **▼** button to scroll through the locations. When you pass location 10 an E will flash indicating that you can press **menu/select** to exit the menu.
- 5) Press **menu/select** to advance to the channel selection. The channel saved in the selected location will be flashing on the display.
- 6) Press the **▲** or **▼** button to chose the desired channel for memory. To erase a location, simply choose "0" for the channel.
- 7) Press **menu/select** to advance to the CTCSS selection. The current CTCSS assigned to the channel will be flashing on the display.
- 8) Press the **▲** or **▼** button to choose the desired CTCSS code.
- 9) Press **menu/select** to program another memory location or press and hold the **menu/select** button to exit the menu. If no key is pressed after 10 seconds, the radio will return to normal mode.

When the Memory feature is on, only those stored channels will be available after exiting the menu. You can now select any of the memory channels to be used by the radio by pressing the **▲** and **▼** button. In addition, entering the scan mode will scan only the memory channels. The memory will remain in use until you enter the menu and turn the Memory feature off.

## Keypad Lock

To lock the keypad, press and hold the **WX/lock** button until the icon is displayed. To remove the keypad lock, press and hold the **WX/lock** button until the icon disappears.

## Ambient Temperature Display

Your radio will periodically display the ambient temperature either in degrees F° or degrees C°.

To change this setting:

- 1) Enter the menu. Advance through the menu until the icon appears on the display. The letters **F** or **C** will be blinking indicating the selection.

2) Press either the ▲ or ▼ button to toggle between F or C.

3) Exit the menu.

Note: Once the radio is turned on, please allow time for an accurate temperature reading to be collected.

### Auto Squelch Feature

The GMRS480 radio is equipped with an automatic squelch system which shuts off weak transmissions and unwanted noise due to terrain conditions or if you have reached your range limit.

To temporarily disable the Auto Squelch and monitor the selected channel, press and hold the **monitor** button. When you hear a double beep, the monitor button can be released. The Auto Squelch will be re-engaged when you momentarily press the **monitor** button or **PTT**.

### Automatic Power Save Feature

Your radio has a unique circuit designed to dramatically extend the life of the batteries. If there is no transmission within 5 seconds, your radio switches to the Power Save mode. The radio is still able to receive transmissions in this mode.

### LCD Backlight

The LCD backlight will automatically turn on with any key press. The LCD display will illuminate for 5 seconds before turning off.

## USING THE WEATHER RADIO

Your GMRS480 radio can receive weather broadcasts from the NOAA National Weather Service. While using the Weather Radio, you are not able to receive GMRS communications unless you press the **PTT** or **call** button which will immediately exit the weather radio mode and return to GMRS radio mode.

To turn on the Weather Radio:

- 1) Momentarily press **WX/lock** button.

### Choosing a Weather Channel

There are 7 NOAA channel frequencies available and these frequencies are common between the US and Canada. You will need to know what frequency is being transmitted in your location.

Press the ▲ or ▼ button to increase or decrease the channel number displayed.

The Auto Squelch feature is never active in Weather Radio mode.

### NOAA Weather Radio Frequency List

<b>Channel 1</b>	<b>162.550 Mhz</b>	<b>Channel 5</b>	<b>162.450 Mhz</b>
<b>Channel 2</b>	<b>162.400 Mhz</b>	<b>Channel 6</b>	<b>162.500 Mhz</b>
<b>Channel 3</b>	<b>162.475 Mhz</b>	<b>Channel 7</b>	<b>162.525 Mhz</b>
<b>Channel 4</b>	<b>162.425 Mhz</b>		

To return to the GMRS Radio:

- 1) Momentarily press **WX/lock** button again.

## SPECIFICATIONS

Channels	8 GMRS/7 FRS, 7 Weather
CTCSS Codes	38 Sub-Audible Tones
Operating Frequency	UHF 462.550-462.725 MHz VHF 162.400-162.550 MHz
Power Source	6V NiMH Battery Pack 4 AA Alkaline Batteries
Output Power	2W ERP maximum
Battery Life	10 Hours - NiMH Battery Pack (5/5/90 duty cycle) 35 Hours - Alkaline Batteries

### Frequency Chart

Ch.	Freq.	Ch.	Freq.
1	462.5625	8	462.6750
2	462.5875	9	462.6250
3	462.6125	10	462.6750
4	462.6375	11	462.5500
5	462.6625	12	462.6000
6	462.6875	13	462.6500
7	462.7125	14	462.7000
		15	462.7250

### CTCSS Chart (Hz)

Code	Freq.	Code	Freq.
0	Disabled	20	131.8
1	67.0	21	136.5
2	71.9	22	141.3
3	74.4	23	146.2
4	77.0	24	151.4
5	79.7	25	156.7
6	82.5	26	162.2
7	85.4	27	167.9
8	88.5	28	173.8
9	91.5	29	179.9
10	94.8	30	186.2
11	97.4	31	192.8
12	100.0	32	203.5
13	103.5	33	210.7
14	107.2	34	218.1
15	110.9	35	225.7
16	114.8	36	233.6
17	118.8	37	241.8
18	123.0	38	250.3
19	127.30		

## FCC Information

This device complies with Part 15 of the FCC Rules. Operation is subject to the following conditions:

-This device may not cause harmful interference.

-This device must accept any interference received, including interference that may cause undesired operation.

Important: Changes or modifications to this unit not expressly approved by Uniden could void your authority to operate this unit. Your radio is set up to transmit a regulated signal on an assigned frequency. It is against the law to alter or adjust the settings inside the radio to exceed those limitations. Any adjustments to your radio must be made by qualified technicians.

To be safe and sure:

- Never open your radio's case.

- Never change or replace anything in your radio except the batteries.

Your radio might cause TV or radio interference even when it is operating properly. To determine whether your radio is causing the interference, turn it off. If the interference goes away, your radio is causing it. Try to eliminate the interference by moving your radio away from the receiver. If you cannot eliminate the interference, the FCC requires that you stop using the radio.

**Audio Accessories:** Do not operate the radio with audio accessories at high volume levels. Hearing experts advise against continuous high volume operation. If you experience a ringing in your ears, reduce the volume level or discontinue use. Always make sure the radio is turned off before plugging audio accessories into the accessory jack.

**Hazardous Environments:** Do not operate the radio in hazardous environments. Explosion or fire may result. Do not operate the radio near unshielded electrical blasting caps. Under certain conditions, radios can interfere with blasting operations and may cause an explosion. Turn your radio OFF to prevent accidental transmission when in a blasting area or in areas posted: "Turn off two-way radio." Construction crews often use remote control RF devices to set off explosives.

**Care and Safety:** To clean the radio, use a soft cloth dampened with water. Do not use cleaners or solvents because they can harm the body of the unit and leak inside, causing permanent damage. Use a dry, lint-free cloth to clean the battery contacts. Do not submerge the unit in water. If the unit gets wet, turn it off and remove the batteries immediately. Dry the battery compartment with a soft cloth to minimize potential water damage. Leave the battery compartment cover off overnight to ensure complete drying. Do not use the radio until the unit is completely dry.

## ONE YEAR LIMITED WARRANTY

Important: Evidence of original purchase is required for warranty service.

WARRANTOR: UNIDEN AMERICA CORPORATION ("Uniden")ELEMENTS OF WARRANTY:

Uniden warrants, for one year, to the original retail owner, this Uniden Product to be free from defects in materials and craftsmanship with only the limitations or exclusions set out below.

WARRANTY DURATION: This warranty to the original user shall terminate and be of no further effect 12 months after the date of original retail sale. The warranty is invalid if the Product is:

(A) damaged or not maintained as reasonable or necessary, (B) modified, altered, or used as part of any conversion kits, subassemblies, or any configurations not sold by Uniden, (C) improperly installed, (D) serviced or repaired by someone other than an authorized Uniden service center for a defect or malfunction covered by this warranty, (E) used in any conjunction with equipment or parts or as part of any system not manufactured by Uniden, or (F) installed or programmed by anyone other than as detailed by the owner's manual for this product.

STATEMENT OF REMEDY: In the event that the product does not conform to this warranty at any time while this warranty is in effect, warrantior will either, at its option, repair or replace the defective unit and return it to you without charge for parts, service, or any other cost (except shipping and handling) incurred by warrantior or its representatives in connection with the performance of this warranty.

Warrantior, at its option, may replace the unit with a new or refurbished unit. THE LIMITED WARRANTY SET FORTH ABOVE IS THE SOLE AND ENTIRE WARRANTY PERTAINING TO THE PRODUCT AND IS IN LIEU OF AND EXCLUDES ALL OTHER WARRANTIES OF ANY NATURE WHATSOEVER, WHETHER EXPRESS, IMPLIED OR ARISING BY OPERATION OF LAW, INCLUDING, BUT NOT LIMITED TO ANY IMPLIED WARRANTIES OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE. THIS WARRANTY DOES NOT COVER OR PROVIDE FOR THE REIMBURSEMENT OVERPAYMENT OF INCIDENTAL OR CONSEQUENTIAL DAMAGES. Some states do not allow this exclusion or limitation of incidental or consequential damages so the above limitation or exclusion may not apply to you.

LEGAL REMEDIES: This warranty gives you specific legal rights, and you may also have other rights which vary from state to state. This warranty is void outside the United States of America.

PROCEDURE FOR OBTAINING PERFORMANCE OF WARRANTY: If, after following the instructions in the owner's manual you are certain that the Product is defective, pack the Product carefully (preferably in its original packaging). The Product should include all parts and accessories originally packaged with the Product. Include evidence of original purchase and a note describing the defect that has caused you to return it. The Product should be shipped freight prepaid, by traceable means, to warrantior:

Uniden America Corporation  
Parts and Service Division  
4700 Amon Carter Blvd., Fort Worth, TX 76155  
(800) 297-1023, 7 a.m. to 7 p.m. Central, Monday through Friday  
www.uniden.com

Covered under one or more of the following U.S. patents:

4,684,870	4,734,049	4,963,844	5,203,015	5,214,789	5,491,745
5,497,508	5,517,877	5,557,606	5,613,201	5,620,059	5,634,196
5,634,205	5,678,176	5,722,070	5,787,345	5,526,528	5,574,994
5,610,946	5,697,096	5,717,312	5,901,341	6,021,326	

© 2001 Uniden America Corporation  
All rights reserved - Printed in China  
UTZZ-480

**Uniden**<sup>®</sup>