

ecoterra
 general mobile radio service

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 FOR PURCHASING A UNIDEN PRODUCT
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 LATEST ACCESSORIES
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GMRS540

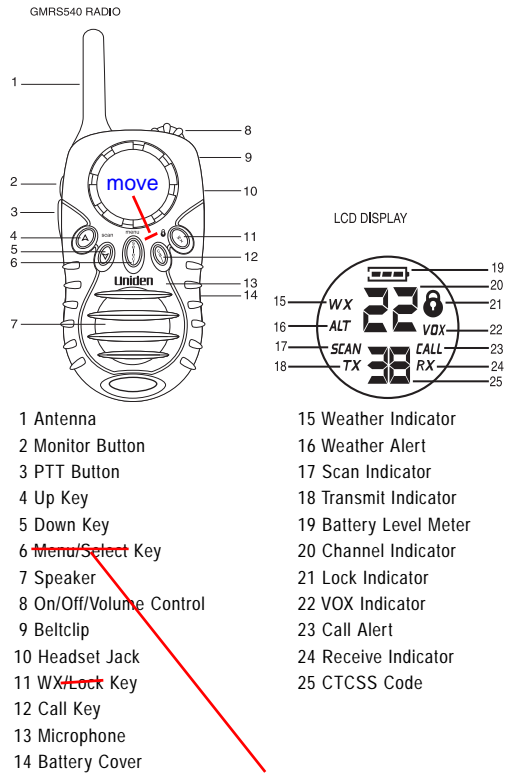
- 5 Selectable Call Tone Alert S
- 8 GMRS/14 FRS Channels
- Battery Recharge Circuitry
- Internal VOX Circuitry
- Channel Monitor
- Headset Jack
- 38 CTCSS Codes
- 7 NOAA Emergency/Weather Channels
- Optional NiMH Battery Pack and Charger
- Extended Long Range*
- Battery Level Meter
- Backlit LCD Display
- Channel Scan
- Keypad Lock
- Weather Alert

GMRS

2-way

radios

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



Congratulations on your purchase of the Uniden GMRS540 (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 GMRS540 radio, this reference guide, and a product registration card. You will need to purchase 3 AA Alkaline batteries in order to operate the unit. The following optional accessories may be purchased from your participating Uniden dealer or call 1-800-554-3988 or visit us on the web at www.uniden.com. **Use only Uniden accessories.**

- Earset Mic w/ PTT - #HS2468
- Vox Headset Mic - #HSV2469
- NiMH Battery Pack - #BP524
- Drop in Charger - #RC5248

FCC GMRS LICENSE

The GMRS540 radio operates on the General Mobile Radio Service (GMRS) frequencies which require a Federal Communication Commission license to operate. For licensing information and application forms, visit the FCC online at: www.fcc.gov/wtb/uls or call the FCC hotline at 1-800-418-3676. If you have any questions you can contact the FCC direct at 1-888-225-5322.

INSTALL THE BATTERIES

Your GMRS540 radio uses 3 AA Alkaline batteries for power. We recommend using high quality alkaline batteries.

To install the batteries:

- 1) Make sure your radio is OFF.
- 2) Remove the battery compartment door by pressing the tab at the bottom of the door allowing the door to be removed.
- 3) Install 3 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) Optional: Your GMRS540 radio can be powered using an optional NiMH battery pack specifically designed for this model. Remove the alkaline batteries and install the battery pack by inserting it into the battery compartment. Follow the instructions found with the NiMH accessory.
- 5) Replace the battery compartment door by pressing the tab and snapping it into 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 battery meter icon will flash and the unit will emit a low battery tone. Replace the batteries immediately or if you are using the optional NiMH battery pack, you must recharge the battery in order to continue using the radio.

Warning! To avoid the risk of personal injury or property damage from fire or electrical shock, only use the Uniden accessories specifically designated for this product.

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.

Turning the Radio On and Adjusting the Volume

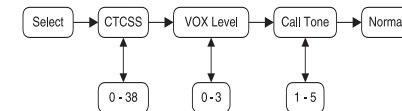
- 1) Rotate the **on/off/volume** control counter clockwise to turn the unit ON and increase the speaker volume.
- 2) Rotate the **on/off/volume** control clockwise to decrease the speaker volume and turn the unit OFF.

Adjusting the Sound (Key Beeps)

Your GMRS540 radio emits a beep each time one of the keys are pressed or a Call Tone is generated. To turn this sound OFF, press **menu/select** while turning on the radio. Repeat this step to turn the sound ON.

Navigating through the Menu

To access the advanced features of the GMRS540, your radio has a Menu function.



- 1) To enter the Menu, press the **menu/select** key for **1 second**.
- 2) Additional presses of the **menu/select** key will advance you through the Menu until exiting to "normal" operating mode.
- 3) Other methods of exiting the menu function are:
 - a. Press **PTT** (Press To Talk).
 - b. Wait 10 seconds until the unit automatically returns to "normal" mode.

Choosing a Channel

Your radio has 8 GMRS/14 FRS 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 **▼** key to increase or decrease the channel number displayed.

Choosing a CTCSS Code

Each of the channels 1-22 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 until the CTCSS code on the LCD is flashing.
- 2) Press the **▲** or **▼** key 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 transmit icon **TX** will be shown 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 receive icon **RX** will be shown on the display.

Voice Operated Transmission

Your GMRS540 radio is equipped with a user selectable Voice Operated Transmitter (VOX) which is enabled when the special headset is inserted and can be adjusted through the Menu. The VOX feature is designed to be used with a headset with a microphone, but no remote PTT switch. Transmission is initiated by speaking into the remote microphone instead of pushing the PTT button.

To select a VOX level:

- 1) Enter the Menu. Advance through the Menu until the **VOX** icon is displayed. The current level (**0-3**) will be indicated. Level '0' disables VOX, while levels 1-3 set the sensitivity of the VOX circuit.
- 2) Press the **▲** or **▼** keys to the desired VOX sensitivity level. Use level 1 for increased

sensitivity to voice in normally quiet environments, and use a higher level to reduce undesired activation in very noisy environments.

- 3) Exit the Menu.

Transmitting a Call Alert Tone

Your GMRS540 radio is equipped with 5 selectable call tones that will be transmitted when the **call** key 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 **▼** keys 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, press the **call** key. The selected tone will automatically be transmitted for a fixed length of time.

Channel Scan Feature

Your GMRS540 radio has a channel scan feature that allows you to easily scan all 22 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 **▼** key until the **SCAN** icon on the display is shown. The channel number on the display will rapidly cycle through the channels.

To turn OFF channel scanning:

Press and release either the **▲** or **▼** key.

Keypad Lock

To Lock the keypad, press and hold the **WX/Lock** key until the **6** icon is displayed. To remove the keypad Lock, press and hold the **WX/Lock** key until the Lock icon disappears.

Auto Squelch Feature

The GMRS540 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

Select/Lock

Select

your range limit.

To temporarily disable the Auto Squelch and monitor the selected channel, press and hold the **monitor** button. When the **monitor** button is released, the Auto Squelch will be re-engaged. To persistently monitor the channel between transmissions, press and hold the **monitor** button until the second confirmation beep is heard.

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 when any key is press. The LCD display will illuminate for 5 seconds before turning OFF.

USING THE WEATHER RADIO

Your GMRS540 radio can receive weather broadcasts from the NOAA National Weather Service. When in the Weather Radio Alert mode, the system functions as it does in GMRS mode but also monitors the selected weather channel for alerts when not communicating. While using the Weather Radio, you are not able to receive GMRS communications unless you press the **PTT** or **call** key which will immediately exit and return to Radio Mode.

To turn on the Weather Radio Broadcast mode, press the **WX/lock** key until the **WX** icon on the display is shown.

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.

While in Weather Radio Broadcast mode, press the **▲** or **▼** key to increase or decrease the channel number displayed. The Auto Squelch feature is never active in Weather Radio Mode.

To enter the combined GMRS/Weather Alert Mode, press the **WX/lock** key until the **ALT** icon on the display is shown. Press the **WX/lock** again to return to normal mode.

NOAA Weather Radio Frequency List

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

To return to the GMRS Radio:

- 1) Enter the Menu.
- 2) Press either the **▲** or **▼** key until the channel numbers on the display are flashing indicating the GMRS Radio Mode.
- 3) Exit the Menu.

462.5625 467.7125

SPECIFICATIONS

Channels	8 GMRS/14 FRS 7 Weather
CTCSS Codes	38 Sub-Audible Tones
Operating Frequency	UHF 462.525- 467.725 MHz VHF 162.400-162.550 MHz
Power Source	3 AA Alkaline Batteries or NiMH Battery Pack
Output Power	500mW Conducted
Battery Life	55 Hours (5/5/90 duty cycle)

Frequency Chart

Ch.	Freq.	Ch.	Freq.
1	462.5625	12	467.6625
2	462.5875	13	467.6875
3	462.6125	14	467.7125
4	462.6375	15	462.5500
5	462.6625	16	462.5750
6	462.6875	17	462.6000
7	462.7125	18	462.6250
8	467.5625	19	462.6500
9	467.5875	20	462.6750
10	467.6125	21	462.7000
11	467.6375	22	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 Subpart-B. 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 the settings inside the radio to exceed those limitations. Any adjustments to your radio must be made by qualified technicians.

Portable Radio Operation and SAR Exposure: When transmitting with a portable radio, hold the radio in a vertical position with the microphone at least 2 inches away from the mouth. Keep the antenna at least 4 centimeter (about 2 inches) from your head or body when transmitting. If you wear a portable radio on your body, ensure that the antenna is at least half inch from the body when transmitting.

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, warrantor 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 warrantor or its representatives in connection with the performance of this warranty. Warrantor, 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 warrantor:

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 Parts and Service Division
 4700 Amon Carter Blvd., Fort Worth, TX 76155
 (800) 297-1023, 8 a.m. to 5 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	5,517,677	5,526,528	5,557,606	5,574,994	5,610,946
5,613,201	5,625,870	5,627,876	5,628,059	5,634,196	5,634,205
5,678,176	5,697,096	5,717,312	5,722,070	5,787,345	5,901,341
6,021,326	6,084,861	6,163,691	6,195,415		

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