

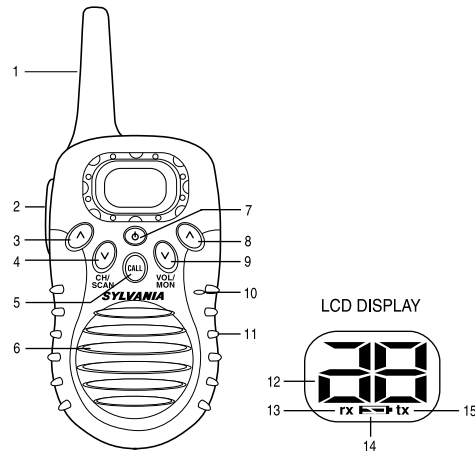
GMR221

- 8 GMRS / 14 FRS Channels
- Long Battery Life
- Extended Long Range*
- Channel Scan
- Channel Monitor
- Battery Strength Meter
- Call Button



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

GMR221 RADIO



- | | |
|--|-----------------------------|
| 1 Antenna | 10 Microphone |
| 2 PTT (Push-To-Talk) Button | 11 Battery Compartment Door |
| 3 CH/SCAN ▲ (Channel/scan up) Key | 12 Channel Indicator |
| 4 CH/SCAN ▼ (Channel/scan down) Key | 13 Receive Indicator |
| 5 CALL Key | 14 Battery Level Indicator |
| 6 Speaker | 15 Transmit Indicator |
| 7 ⏻ (Power On/Off) Key | |
| 8 VOL/MON ▲ (Volume up/monitor) Key | |
| 9 VOL/MON ▼ (Volume down/monitor) Key | |

Congratulations on your purchase of the Sylvania GMR221 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.

PACKAGE CONTENTS

Your package contains 2 x GMR221 radios, this reference guide and 2 x belt clips. You will need to purchase 3 AAA alkaline batteries in order to operate each unit.

INSTALL THE OPTIONAL BATTERIES

Your GMR221 radio uses 3 AAA alkaline batteries (not included) 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 on and sliding the compartment door, allowing the door to be removed.
- 3) Install 3 AAA 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 by sliding the door into place.

USING THE RADIO

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

Turning the Radio On and Adjusting the Volume

- 1) Press and hold the ⏻ key to turn the radio ON.
- 2) To change the volume level press the **VOL/MON** ▲ or ▼ keys to increase or decrease the volume level.
- 3) Press and hold the ⏻ key to turn the radio OFF.

Adjusting the Sound (Key Beeps)

Your radio emits a beep each time one of the keys (except for the **PTT** button and **CALL** key) is pressed. The sound of the Key Beep will increase or decrease depending on the volume level setting.

To turn OFF this beep:
Press and hold the **CALL** key while turning ON the radio.

To turn ON this beep:
Turn the radio OFF and ON again.

Choosing a Channel

Your GMR221 has 22 channels you can use to talk to others. In order to speak to someone, each of you must be set to the same channel.

To choose a channel:
Press the **CH/SCAN** ▲ or ▼ keys to increase or decrease the channel number displayed.

Channel Scan Feature

Your GMR221 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 2 second delay, the unit will continue scanning. Pressing **PTT** button 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 **CH/SCAN** ▲ or ▼ key. The channel number on the display will rapidly cycle through the channels.

To turn OFF channel scanning:
Press either the **CH/SCAN** ▲ or ▼ key.

Note: If you press either the **CH/SCAN** ▲ or ▼ key while the unit is pausing on a channel, scanning will resume.

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 **tx** icon is displayed. 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 **rx** icon is displayed.

Transmitting a Call Alert Tone

Your GMR221 radio is equipped with a call tone that will be transmitted when the **CALL** key is pressed.

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

Auto Squelch Feature

The GMR221 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.

Monitor Mode Feature

Your GMR221 radio allows you to listen for weak signals on the current channel at the press of a key.

To turn ON monitor mode:
Press and hold the **VOL/MON** ▲ or ▼ key. The **rx** icon will blink.

To turn OFF monitor mode:
Press the **VOL/MON** ▲ or ▼ key. The **rx** icon will disappear.

Automatic Power Save Feature

Your GMR221 has a unique circuit designed to dramatically extend the life of the batteries.

If there is no transmission nor an incoming call within 2 seconds, your radio switches to the Power Save mode. The radio is still able to receive transmissions in this mode.

SPECIFICATIONS

Channels	8 GMRS / 14 FRS
Operating Frequency	UHF 462.5625 - 467.7125 MHz
Power Source	3 AAA Alkaline Batteries (not included)
Output Power	500mW Conducted
Battery Life	25 Hours typical (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

IC INFORMATION

Operation is subject to the following two conditions:

- (1) This device may not cause harmful interference.
- (2) 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 Sylvania 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 IC requires that you stop using the radio.

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.

RF EXPOSURE INFORMATION

WARNING! It is up to the user to properly operate this radio transmitter to insure safe operation. Please adhere to the following:

Use only the supplied or an approved antenna. Unauthorized antennas, modifications, or attachments could impair call quality, damage the radio, or result in violation of regulations.

Do not use the radio with a damaged antenna. If a damaged antenna comes into contact with the skin, a minor burn may result. Please contact your local dealer for a replacement antenna.

Body-worn Operation

This device was tested for typical body-worn operations using the supplied belt-clip, which typically provides a space of 1 inch from the body.

To maintain compliance with RF exposure requirements, Body-worn operations are restricted to the supplied belt-clip.

For hand-held operation, the radio should be held 1 inch from the user's face. The use of accessories that do not satisfy these requirements may not comply with RF exposure requirements and should be avoided.

SYLVANIA WARRANTY STATEMENT

We appreciate your purchase of a SYLVANIA Communication product. We take pride in the quality of our products and have manufactured your new Communication unit to exacting quality standards. We feel confident that in normal use, it will provide you with satisfactory performance. However, should you experience difficulty, you are protected under the provisions of this warranty.

SYLVANIA Communication products are warranted against manufacturing defects in materials and workmanship in normal use for the following period from the date of purchase by the original user, and is conditional upon the unit being installed and used as directed in the instruction manual.

PRODUCT PARTS AND LABOUR

Cordless Telephone	1 Year
Corded Telephone	1 Year
Telephone Headset Communications	1 Year
	1 Year

SYLVANIA's obligation under this warranty shall be limited to the repair, including all necessary parts and the cost of the labour connected therewith, or at our option the exchange of any Communication product which shows evidence of a manufacturing defect within the warranty period.

Replacement parts, furnished in connection with this warranty shall be warranted for a period equal to the unexpired portion of the original equipment warranty.

CUSTOMER OBLIGATIONS

This warranty applies to the product from the original date of purchase at retail. Therefore, the owner must provide a copy of the original, dated bill of sale. No warranty service will be performed without a bill of sale. Transportation to and from the service depot is the responsibility of the owner.

WARRANTY EXCLUSIONS

This warranty is extended to SYLVANIA Communication products purchased and used in Canada. This warranty shall not apply to appearance or accessory items including but not limited to: antenna, cabinet, cabinet parts, knobs, batteries, connecting cables, cassette tapes, compact discs. This warranty shall, in addition, not apply to damages due to handling, transportation, unpacking, set-up, installation, customer adjustments that are covered in the instruction book, repair or replacement of parts supplied by other than the SYLVANIA authorized service depot, any malfunction or failure caused by or resulting from abnormal environmental conditions, improper unauthorized service, improper maintenance, modifications or repair by the consumer, abuse, misuse,

neglect, accident, fire, flood, or other Acts of God, and incorrect line voltage.

This Communication product is only warranted to the original retail purchaser. This warranty becomes void in the event of commercial or rental use. This warranty becomes void in the event serial numbers are altered, defaced or removed.

SYLVANIA reserves the right to make changes in design or to make additions to or improvements upon this product without incurring any obligation to install the same on products previously manufactured. The foregoing is in lieu of all other warranties expressed or implied and SYLVANIA neither assumes nor authorizes any person to assume for it any other obligation or liability in connection with the sale or service of this product. In no event shall SYLVANIA or its SYLVANIA dealers be liable for special or consequential damage arising from the use of this product, or for any delay in the performance of this warranty due to cause beyond our control.

The purchaser may have other rights under existing provincial or federal laws, and where any terms of this warranty are prohibited by such laws, they are deemed null and void, but the remainder of the warranty shall remain in effect.

HOW TO OBTAIN SERVICE

Should this product require service, you may obtain specific information on how to obtain service by contacting the SYLVANIA Dealer from whom this product was purchased, or by contacting us directly:

SYLVANIA SERVICE

300 Alden Road
Markham, Ontario
L3R 4C1

PHONE: (905) 940-5089 FAX: (905) 940-2303
1-800-287-4871

SYLVANIA

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