



## Professional Two-Way PR Series Portable Radio

# User Manual

Models: **VHF PR-1317 DMR**  
**UHF PR-4047 DMR**



- **DMR Digital, Tier-2, Conventional and Analog, Narrow Band Capable**
- **5 / 2 Watt VHF, 4 / 2 Watt UHF**
- **32 Channel Capability – 2 Zones of 16**
- **Loud Audio Output - 1000mW**
- **Rugged, Compact Design**
- **Resistant to Water/Dust Intrusion**

**FCC and IC (Industry Canada) Approved**

**800-USA-1-USA (872-1-872)**  
**www.ritron.com**

Dear Valued Ritron Customer,  
Thank you for your purchase of the PR Series radio. Each radio comes pre-programmed with the \*4 factory default channel frequencies listed below. The frequencies can be changed via the PC programming software and cable. Other factory default radio settings i.e. Programmable Function Buttons are listed on pages 1 and 6.

If your company currently has an FCC license on frequencies different from the default frequencies, the radio can be PC programmed to custom frequencies using optional Ritron PR Series PC software, other settings can also be configured. Please contact your Ritron Reseller for information on “custom” radio programming services.

**Please be advised that operation on the factory default frequencies require that you obtain an FCC Operator License BEFORE USE.**

Channel	Freq. Code	Frequency	Technology Type	Color Code/ Tone Freq.	TXPower
<b>VHF PR-1317 Default Frequency Settings – Operating Band 136-174MHz</b>					
<b>Ch1</b>	FC #3	151.6250MHz	DMR Digital	1 Color Code	5 Watts
<b>Ch2</b>	FC #4	151.6250MHz	Analog	77Hz	5 Watts
<b>Ch3</b>	FC #4	151.955MHz	DMR Digital	1 Color Code	5 Watts
<b>Ch4</b>	FC #4	151.955MHz	Analog	77Hz	5 Watts
<b>UHF PR-4047 Default Frequency Settings – Operating Band 400-470MHz</b>					
<b>Ch1</b>	FC #5	467.8500MHz	DMR Digital	1 Color Code	2 Watts
<b>Ch2</b>	FC #5	467.850MHz	Analog	77Hz	2 Watts
<b>Ch3</b>	FC #3	464.550MHz	DMR Digital	1 Color Code	4 Watts
<b>Ch4</b>	FC #3	464.550MHz	Analog	77Hz	4 Watts

FC# = Frequency Code  
Analog = Narrow Band (12.5KHz)

**The standard antenna supplied with the PR Series radio is cut for operation at the following frequency bands:**

VHF: 150-165MHz  
UHF: 450-470MHz

**Note:** Operation on frequencies outside this range will require a custom cut antenna.

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**PR Radio**

**ITEMS INCLUDED WITH EACH RADIO**



**Note:** The frequency band is shown on the bottom of antenna.  
 UHF = 400-470MHz  
 VHF = 136-174MHz

**Flex Antenna**



**110-220V AC Adaptor**



**Drop-in Charging Tray**

ACCESSORIES	Part No.
Ear Loop with PTT & Microphone, 2 Pin Conn	RHD-16X
Speaker Microphone, 2 Pin	RSM-10X
Replacement, Battery Pack	BP-PR-Li20
Replacement, Belt Clip	CB-PR
6 Unit Gang Charger	BC-6PRGang



**RHD-16X**



**RSM-10X 2-pin**

Standard PR series audio accessories e.g. remote speaker mic and earset are not compatible with VOX function. VOX function requires special VOX capable audio accessories. Contact factory for availability.



**Spring Action Belt Clip**



**Lithium Polymer Battery Pack**

Models	Description
<b>PR-1317 DMR</b>	VHF, *136-174MHz 5 Watt or 2 Watt 32 Channel Capacity
<b>PR-4047 DMR</b>	UHF, *400-470MHz 4 Watt or 2 Watt 32 Channel Capacity

\*Standard antenna supplied is cut for operation in the following frequency ranges:  
**VHF:** 150-165MHz  
**UHF:** 450-470MHz

Operation on frequencies outside this range will require custom cut antenna.

**Installing Audio Accessories**

1. Remove the fastener that secures the audio accessory dust cover to the radio.
2. Plug in the Ritron 2-pin audio accessory

**Battery Installation/Removal**

1. Turn the radio OFF.
2. Align tabs at TOP of battery pack with the slots at the TOP of the radio body.
3. Pivot the BOTTOM of the battery towards the radio body until you hear the spring latches engage with a click at the bottom of the radio.

**To Remove**

- 1 Turn radio OFF.
2. Slide latch at BOTTOM in direction of the OPEN arrow.
3. Gently pivot the BOTTOM of the battery pack away from the radio.

**Antenna** - Thread the matching antenna until mating connector is fully seated.

## Getting To Know Your PR Series Radio

### Controls

Your Ritron dealer can program \*PFB's to perform specific functions.

1. \* Emergency Button – Top - Orange
2. Push-To-Talk Button (not programmable)
3. \* Side Button - Above PTT Button
4. \* Side Button - Below PTT Button
5. Lower Side Button – No Function (not programmable)
6. LED Indicators. The indicator can be enabled or disabled via programming.

**Red** = Transmit

**Green** = Receiving

**Flashing Orange** = Scanning

7. On/Off Volume Control
8. Channel Control – 16 position. 32 channels using 2 Zones
9. Built-in Speaker
10. Built-in Microphone
11. Audio Accessory/Dust Cover
12. Spring-action Belt Clip

### Functions That Can Be Allocated to a \*Programmable Function Button

1. Emergency Call: initiates an emergency alarm or call defined by programming.
2. PTT Call: initiates a portable radio call.
3. VOX Control: Enables or disables VOX function.
4. TX Power: Change transmit power from high to low power.
5. Monitor: Enables or disables the squelch function.
6. Remote Kill: Remotely powers OFF the PR radio.
7. Remote Activation: Remotely powers ON the radio.
8. Zone Switch: Changes current Zone of the PR radio. Two Zones are available.
9. Remote Listen: Allows remote listening of the PR radio.
10. Talk-Around: Enables or disables the Talk-Around through a repeater.
11. Remote Detection: Checks whether the peer device is operating.
12. Scanning On/Off: Enables or disables scanning.
13. Shortcut call key 1~5: initiates a voice call or a message call with a shortcut Hot Key.

### BC-PR Charger Tray and AC Adaptor

#### Operating instruction:

- Insert AC Adaptor into the Charging Tray.
- Plug the AC power cube into a wall outlet.
- Turn the transceiver off.
- Insert the battery pack into the charger with or without the transceiver attached.



#### Color Status of Charging Tray LED

Steady RED.....Battery Charging  
 Steady GREEN....Battery Charging Complete  
 Steady AMBER....Trickle Charge, Replace Battery  
 Blinking AMBER...Abnormal Temperature  
 Blinking RED.....Replace Battery

Specifications:  
 • Input voltage: 12VDC, 1A  
 • Output voltage: 8.4VDC, 850mA  
 • Charge time: 2 1/2 hours

#### Battery Pack

- Fully charge the battery before use for maximum capacity and operation.
- The battery is designed for the PR Series charger only. Please do not charge the battery with any other brand charger.
- Turn the radio off before charging.
- Do not disassemble.
- If the battery terminal is contacted with any metals or conductive substances, it may do harm to the body or battery.
- **Battery Type:** Rechargeable Lithium-Polymer, 2000mAh
- **Battery Life:** Duty cycle: 5% transmit, 5% receive, 90% standby = more than 12 hours



# Operating Your PR Series Portable Radio

- A voice announcement will be heard on each channel change depending on channel type. (e.g. "Digital 1", "Analog 2")
- To Talk, press and hold the PTT button, speak into the microphone on the radio, and Release to listen.

**Note:** For maximum clarity hold the radio 2-3 radio inches away from your mouth and speak in a normal tone of voice.

## Programmable Function Buttons (PFB's)

Programmable Function Buttons (PFB) provide easy, one-button access to a specific feature/function. When momentarily pressed, the PFB can be PC programmed to operate as follows:

- No function when pressed
- Turn ON or OFF a specific feature assigned to that PFB,
- Send a Call Tone or other functions if noted as Yes under the heading

**PFB Assignable** in the tables starting on page 5.

The table listed below indicates the Factory Default settings for each of the PFB's on your radio. The default function can be changed via PC programming, contact Ritron for details.

Factory PF Button	Default Function	Description of Function
#1. Orange	None	
#3. Side Button (Upper)	None	
#4. Side Button (Top)	Monitor	Analog Ch. A momentary press of the Monitor Button will unmute the receiver and you will hear all radio traffic on the channel. If there is no radio traffic on the channel, you will hear continuous squelch noise. A second press of the Monitor Button will mute the radio receiver.  Digital Ch.- No function, error tone will sound.
(Top)		
#5. Side Button (Lower)	Not Programmable	



## FCC REGULATIONS LICENSING

The FCC requires the owners or NT Series radios to obtain a station license before using them. The station licensee is responsible for ensuring that transmitter power, frequency and deviation are within the limits specified by the station license.

The station licensee is also responsible for proper operation and maintenance of the radio equipment. This includes checking the transmitter frequency and deviation periodically, using appropriate methods. To get a FCC license for VHF or UHF frequencies, contact your Ritron dealer for help with this process.

## SAFETY STANDARDS

The FCC (with its action in General Docket 79-144, (March 13, 1985) has adopted a safety standard for human exposure to radio frequency electromagnetic energy emitted by FCC regulated equipment. Ritron observes these guidelines and recommends that you do also:

- DO NOT hold the radio so that the antenna is very close to or touching exposed parts of the body, especially the face or eyes, while transmitting. Keep the radio vertical, four inches away while talking into the front panel.
- DO NOT press the Push-To-Talk except when you intend to transmit.
- DO NOT operate radio equipment near electrical blasting caps or in an explosive atmosphere.
- DO NOT allow children to play with any radio equipment that contains a transmitting device.
- Repair of Ritron products should be performed only by Ritron authorized personnel.

## SERVICE

Federal law prohibits you from making any internal adjustments to the transmitter and/or from changing transmit frequencies unless you are specifically designated by the licensee.

If your radio equipment fails to operate properly, or you wish to have the radio programmed, contact your authorized dealer or Ritron.

## RITRON, INC.,

c/o Repair Department

505 West Carmel Drive,

Carmel, IN 46082-1998

Phone: 317-846-1201

Fax: 317-846-4978

**RF ENERGY EXPOSURE AWARENESS AND CONTROL INFORMATION**  
RF ENERGY EXPOSURE AWARENESS AND CONTROL INFORMATION, AND  
OPERATIONAL INSTRUCTIONS FOR FCC OCCUPATIONAL USE REQUIREMENTS

BEFORE USING YOUR PORTABLE 2-WAY RADIO, READ THIS IMPORTANT RF ENERGY AWARENESS AND CONTROL INFORMATION AND OPERATIONAL INSTRUCTIONS TO ENSURE COMPLIANCE WITH THE FCC'S RF EXPOSURE GUIDELINES.

**NOTICE:** This radio is intended for use in occupational/controlled conditions, where users have full knowledge of their exposure and can exercise control over their exposure to meet FCC limits. This radio device is NOT authorized for general population, consumer, or any other use.

This 2-way radio uses electromagnetic energy in the radio frequency (RF) spectrum to provide communications between two or more users over a distance. It uses radio frequency (RF) energy or radio waves to send and receive calls. RF energy is one form of electromagnetic energy. Other forms include, but are not limited to, electric power, sunlight and x-rays. RF energy, however, should not be confused with these other forms of electromagnetic energy, which when used improperly can cause biological damage. Very high levels of x-rays, for example, can damage tissues and genetic material.

Experts in science, engineering, medicine, health and industry work with organizations to develop standards for exposure to RF energy. These standards provide recommended levels of RF exposure for both workers and the general public. These recommended RF exposure levels include substantial margins of protection. All 2-way radios marketed in North America are designed, manufactured and tested to ensure they meet government established RF exposure levels. In addition, manufacturers also recommend specific operating instructions to users of 2-way radios. These instructions are important because they inform users about RF energy exposure and provide simple procedures on how to control it. Please refer to the following websites for more information on what RF energy exposure is and how to control your exposure to assure compliance with established RF exposure limits.

<http://www.fcc.gov/oet/rfsafety/rf-faqs.html> <http://www.fcc.gov/oet/rfsafety/rf-faqs.html>  
<http://www.osha.gov/SLTC/radiofrequencyradiation/index.html>  
<http://www.osha.gov/SLTC/radiofrequencyradiation/index.html>

**FEDERAL COMMUNICATIONS COMMISSION REGULATIONS** -The FCC rules require manufacturers to comply with the FCC RF energy exposure limits for portable 2-way radios before they can be marketed in the U.S. When 2-way radios are used as a consequence of employment, the FCC requires users to be fully aware of and able to control their exposure to meet occupational requirements. Exposure awareness can be facilitated by the use of a product label directing users to specific user awareness information. Your Ritron PT Series 2-way radio has an RF exposure product label. Also, this user manual includes information and operating instructions required to control your RF exposure and to satisfy compliance requirements.

**COMPLIANCE WITH RF EXPOSURE STANDARDS** -Your Ritron 2-way radio is designed and tested to comply with a number of national and international standards and guidelines (listed below) for human exposure to radio frequency electromagnetic energy. This radio complies with the IEEE and ICNIRP exposure limits for occupational/controlled RF exposure environment at operating duty factors of up to 50% transmitting and is authorized by the FCC for occupational use only. In terms of measuring RF energy for compliance with the FCC exposure guidelines, your radio radiates measurable RF energy only while it is transmitting (during talking), not when it is receiving (listening) or in standby mode.

**NOTE:** The approved batteries supplied with this radio are rated for a 5-5-90 duty factor (5% talk - 5% listen - 90% standby), even though this radio complies with the FCC occupational RF exposure limits and may operate at duty factors of up to 50% talk.

**Have questions? Call 800-USA-I-USA (800-872-1872) or visit our website at [www.ritron.com](http://www.ritron.com)**

**Your Ritron 2-way radio complies with the following RF energy exposure standards and guidelines:**

- United States Federal Communications Commission, Code of Federal Regulations; 47 CFR JJ 1.1307, 1.1310, 2.1091 and 2.1093
- American National Standards Institute (ANSI)/Institute of Electrical and Electronic Engineers (IEEE) C95.3-2003
- Institute of Electrical and Electronic Engineers (IEEE) C95.3 2003Edition

**RF EXPOSURE COMPLIANCE AND CONTROL GUIDELINES AND OPERATING INSTRUCTIONS** -To control your exposure and ensure compliance with the occupational/controlled environment exposure limits always adhere to the following procedures.

**GUIDELINES:**

- Do not remove the RF Exposure Label from the device.
- This user manual should accompany device when transferred to other users.
- Do not use this device if the operational requirements described herein are not met.

**OPERATING INSTRUCTIONS:**

- Transmit no more than the rated duty factor of 50% of the time. To transmit (talk), push the Push-To-Talk (PTT) button. To receive calls, release the PTT button. Transmitting 50% of the time, or less, is important because this radio generates measurable RF energy exposure only when transmitting (in terms of measuring for standards compliance).
- Hold the radio in a vertical position in front of face with the microphone (and the other parts of the radio, including the antenna) at least one inch (2.5 cm) away from the nose. Keeping the radio at the proper distance is important because RF exposures decrease with distance from the antenna. Antenna should be kept away from eyes.
- When worn on the body, always place the radio in a Ritron approved clip, holder, holster, case, or body harness for this product. Using approved body-worn accessories is important because the use of other manufacturers' non-approved accessories may result in exposure levels, which exceed the FCC's occupational/controlled environment RF exposure limits.
- If you are not using a body-worn accessory and are not using the radio in the intended use position in front of the face, then ensure the antenna and the radio are kept at least 2.5 cm (one inch) from the body when transmitting. Keeping the radio at the proper distance is important because RF exposures decrease with increasing distance from the antenna.
- Use only Ritron approved supplied or replacement antennas, batteries, and accessories. Use of non-Ritron approved antennas, batteries, and accessories may exceed the FCC RF exposure guidelines.
- For a list of Ritron approved accessories see this user manual, or visit <http://www.ritron.com> <http://www.ritron.com>, or call Ritron at **800-872-1872**.

**CONTACT INFORMATION**

For additional information on exposure requirements or other information, contact Ritron at 800-872-1872.

**Have questions? Call 800-USA-I-USA (800-872-1872) or visit our website at <http://www.ritron.com>**

**SENSIBILISATION À L'EXPOSITION ÉNERGIE RF ET LE CONTRÔLE DES INFORMATIONS**

SENSIBILISATION À L'EXPOSITION ÉNERGIE RF ET LE CONTRÔLE DES INFORMATIONS ET INSTRUCTIONS OPÉRATI-  
TIONNELLES POUR LES EXIGENCES D'UTILISATION PROFESSIONNELLES FAC

AVANT D'UTILISER VOTRE PORTABLE RADIO 2-WAY, LIRE CETTE IMPORTANTE SENSIBILISATION À L'ÉNERGIE RF ET LES  
INFORMATIONS DE CONTRÔLE ET LES INSTRUCTIONS OPÉRATIONNELLES POUR ASSURER LA CONFORMITÉ AVEC LES  
DIRECTIVES D'EXPOSITION RF DE FAC.

**Avis:** Cette radio est destinée pour utilisation dans des conditions professionnelles et contrôlées, où les utilisateurs ont connaissance de leur exposition et peuvent exercer un contrôle sur leur exposition pour répondre aux limites de la FCC. Ce dispositif radio n'est pas autorisé pour la population générale, consommateur ou toute autre utilisation.

Cette radio 2 voies utilise l'énergie électromagnétique dans le spectre des radiofréquences (RF) à fournir des communications entre deux ou plusieurs utilisateurs sur une distance. Il utilise une énergie radiofréquence (RF) ou des ondes radio pour envoyer et recevoir des appels. L'énergie RF est une forme d'énergie électromagnétique. Autres formes incluent, mais ne se limitent pas à l'énergie électrique, les rayons du soleil et les rayons x. Énergie RF, cependant, ne faut pas confondre avec ces autres formes d'énergie électromagnétique, qui lorsqu'il est utilisé correctement peuvent causer des dommages biologiques. Par exemple, des niveaux très élevés de rayons x, peuvent endommager les tissus et le matériel génétique.

Experts en sciences, ingénierie, médecine, santé et industrie collaborent avec les organisations à élaborer des normes pour

l'exposition à l'énergie RF. Ces normes fournissent des niveaux recommandés d'exposition RF pour les travailleurs et le grand public. Ces recommandés niveaux d'exposition RF comprennent des marges importantes de protection. Toutes les radios 2-way commercialisés en Amérique du Nord sont conçus, fabriqués et testés pour s'assurer qu'ils répondent aux niveaux d'exposition RF gouvernement établis. En outre, les fabricants recommandent également les instructions d'exploitation spécifiques aux utilisateurs de radios 2 voies. Ces instructions sont importantes parce qu'ils informer les utilisateurs sur l'exposition énergie RF et fournissent un simples procédures à suivre pour le contrôler. Veuillez consulter les sites Web suivants pour plus d'informations sur ce qu'est l'exposition énergie RF et comment contrôler votre exposition à assurer le respect des limites d'exposition RF établies.

<http://www.fcc.gov/OET/rfsafety/RF-FAQs.html> <http://www.osha.gov/SLTC/radiofrequencyradiation/index.html>

Règles de la FCC The FEDERAL COMMUNICATIONS COMMISSION règlements exigent que les fabricants à respecter les limites d'exposition énergie RF FCC pour des radios portatives 2 voies avant qu'ils peuvent être commercialisés aux États-Unis. Lorsqu'on utilise des radios 2 voies de l'emploi, la FCC oblige les utilisateurs à être pleinement conscient et capable de contrôler leur exposition pour répondre aux exigences professionnelles. Sensibilisation à l'exposition peut être facilitée par l'utilisation d'une étiquette de produit enjoignant aux utilisateurs de l'information de sensibilisation utilisateur spécifique. Votre radio 2 voies de la série J Ritron a une étiquette de produit de l'exposition RF. Aussi, ce manuel de l'utilisateur comprend les renseignements et les instructions nécessaires pour contrôler votre exposition RF et à satisfaire les exigences de conformité d'exploitation. (Voir suite page)

**CONFORMITÉ AVEC LES NORMES D'EXPOSITION RF**

Votre radio 2 voies de Ritron est conçu et testé pour se conformer à un certain nombre de normes nationales et internationales et lignes directrices (ci-dessous) pour l'exposition des humains à l'énergie électromagnétique radiofréquence. Cette radio est conforme à l'IEEE et Limites d'exposition pour l'exposition RF au travail et contrôlées CIPRNI l'environnement de fonctionnement des facteurs de l'obligation de jusqu'à 50 % de transmission et est autorisée par la FCC uniquement à des fins professionnelles. En termes mesurer l'énergie RF pour le respect de l'exposition de la FCC lignes directrices, votre radio irradie mesurable énergie RF seulement alors qu'il transmet (au cours de parler), pas quand il reçoit (écouter) ou en mode veille.

**Remarque:** Les piles approuvés fournis avec cette radio sont évalués pour un facteur de devoir 5-5-90 (5 % talk-5 % listen - standby 90 %), même si cette radio conforme aux limites d'exposition RF professionnelle les FCC et peut s'appliquer à des facteurs de l'obligation de jusqu'à 50 % talk.

Votre radio 2 voies de Ritron est conforme à la RF suivant énergie exposition normes et lignes directrices :

- United States Federal Communications Commission, Code of Federal Regulations ; 47 CFR JJ, 1.1307, 1.1310, 2.1091 et 2.1093
- American National Standards Institute (ANSI) / Institut de Electrical and Electronic Engineers (IEEE) C95.3-2003
- Institute of Electrical and Electronic Engineers (IEEE) C95.3 2003 Edition

**LIGNES DIRECTRICES DE CONTRÔLE ET DE CONFORMITÉ DE L'EXPOSITION RF ET LES INSTRUCTIONS D'EXPLOITATION**

Pour contrôler votre exposition et à assurer le respect de l'environnement au travail/contrôlé les limites d'exposition toujours respectent les procédures suivantes.

**LIGNES DIRECTRICES:**

- Ne pas enlever l'étiquette de l'exposition RF du périphérique.
- Ce manuel de l'utilisateur doit accompagner le périphérique lorsque transférés à d'autres utilisateurs.
- Ne pas utiliser ce dispositif si les exigences opérationnelles décrits ci-après ne sont pas remplies.

**MODE D'EMPLOI :**

- Transmettre le facteur de devoir nominale de 50 % du temps. Pour transmettre (talk), appuyez sur le bouton de Push-To-Talk (PTT). Pour recevoir des appels, relâchez le bouton PTT. Transmission de 50% de l'époque, ou moins, est important parce que cette radio génère mesurable exposition d'énergie RF seulement lors de la transmission (en termes de conformité aux normes de mesure).
- Tenir la radio en position verticale, en face de visage avec le microphone (et les autres parties de la radio, y compris la antenne) au moins un pouce (2,5 cm) loin du nez. K e e p j e g n la radio à la bonne distance est important parce que l'exposition RF diminue avec la distance de l'antenne. Antenne doit rester loin des yeux.
- Lorsqu'elles sont portées sur le corps, a toujours lieu la radio dans un clip, titulaire, étui, cas ou harnais pour ce produit Ritron approuvé. A l'aide d'accessoires de portés par l'organisme agréés est important parce que l'utilisation de Ritron ou autre fabricant non - approuvé accessoires peuvent entraîner des niveaux d'exposition, qui dépassent les limites d'exposition professionnelle et contrôlées environnement RF de FAC.
- Si vous n'utilisez pas un accessoire porté par l'organisme et n'utilisez pas la radio dans la position de l'utilisation prévue de la face, puis assurer l'antenne et la radio sont conservés au moins 2,5 cm (un pouce) de l'organisme lors de la transmission. Il est important de garder la radio à la distance appropriée, car l'exposition RF diminue avec l'augmentation de la distance de l'antenne.
- Utilisation seulement Ritron approuvé fournie ou antennes de remplacement, batteries et accessoires. Utilisation de Ritron non approuvée antennes, batteries, et accessoires peuvent dépasser les lignes directrices d'exposition RF de la FCC.
- Pour obtenir une liste d'accessoires Ritron approuvé voir ce manuel de l'utilisateur, ou visitez <http://www.ritron.com> ou appelez Ritron au **800-872-1872**.

**CONTACT INFORMATION**

Pour plus d'informations sur les exigences d'exposition ou d'autres renseignements, veuillez communiquer avec Ritron au 800-872-1872.

**Avez-vous des questions? Composez le 800-USA-je-USA (800-872-1872) ou visitez notre site Web à [www.ritron.com](http://www.ritron.com)**

## RITRON, INC. LIMITED WARRANTY

### WHAT THIS WARRANTY COVERS:

RITRON, INC. ("RITRON") provides the following warranty against defects in materials and/or workmanship in RITRON Radios and Accessories under normal use and service during the applicable warranty period (as stated below). "Accessories" means antennas, holsters, chargers, earphones, speaker/microphones and items contained in the programming and programming/service kits.

WHAT IS COVERED	FOR HOW LONG	WHAT RITRON WILL DO
PR Series Radios	1 year*	During the first year after date of purchase, RITRON will repair or replace the defective product, at RITRON's option, parts and labor included at no charge.
Accessories	90 days*	*After date of purchase

### WHAT THIS WARRANTY DOES NOT COVER:

- Any technical information provided with the covered product or any other RITRON products;
- Installation, maintenance or service of the product, unless this is covered by a separate written agreement with RITRON;
- Any products not furnished by RITRON which are attached or used with the covered product, or defects or damage from the use of the covered product with equipment that is not covered (such as defects or damage from the charging or use of batteries other than with covered product);
- Defects or damage, including broken antennas, resulting from:
  - misuse, abuse, improper maintenance, alteration, modification, neglect, accident or act of God,
  - the use of covered products other than in normal and customary manner or,
  - improper testing or installation;
- Defects or damages from unauthorized disassembly, repair or modification, or where unauthorized disassembly, repair or modification prevents inspection and testing necessary to validate warranty claims;
- Defects or damages in which the serial number has been removed, altered or defaced.
- Batteries if any of the seals are not intact.

**IMPORTANT:** This warranty sets forth the full extent of RITRON's express responsibilities regarding the covered products, and is given in lieu of all other express warranties. What RITRON has agreed to do above is your sole and exclusive remedy. No person is authorized to make any other warranty to you on behalf of RITRON. Warranties implied by state law, such as implied warranties of merchantability and fitness for a particular purpose, are limited to the duration of this limited warranty as it applies to the covered product. Incidental and consequential damages are not recoverable under this warranty (this includes loss of use or time, inconvenience, business interruption, commercial loss, lost profits or savings). Some states do not allow the exclusion or limitation of incidental or consequential damages, or limitation on how long an implied warranty lasts, so the above limitations or exclusions may not apply to you. Because each covered product system is unique, RITRON disclaims liability for range, coverage, or operation of the system as a whole under this warranty.

### WHO IS COVERED BY THIS WARRANTY:

This warranty is given only to the purchaser or lessee of covered products when acquired for use, not resale. This warranty is not assignable or transferable.

### HOW TO GET WARRANTY SERVICE:

To receive warranty service, you must deliver or send the defective product, delivery costs and insurance prepaid, within the applicable warranty period, to

**RITRON, INC., 505 West Carmel Drive, Carmel, Indiana 46032,**

### Attention: Warranty Department.

Please point out the nature of the defect in as much detail as you can. You must retain your sales or lease receipt (or other written evidence of the date of purchase) and deliver it along with the product. If RITRON chooses to repair or replace a defective product, RITRON may replace the product or any part or component with reconditioned product, parts or components. Replacements are covered for the balance of the original applicable warranty period. All replaced covered products, parts or components become RITRON's property.

### RIGHTS TO SOFTWARE RETAINED :

Title and all rights or licenses to patents, copyrights, trademarks and trade secrets in any RITRON software contained in covered products are and shall remain in RITRON. RITRON nevertheless grants you a limited non-exclusive, transferable right to use the RITRON software only in conjunction with covered products. No other license or right to the RITRON software is granted or permitted.

**YOUR RIGHTS UNDER STATE LAW:** This warranty gives you specific legal rights, and you may also have other rights which vary from state to state.

**WHERE THIS WARRANTY IS VALID:** This warranty is valid only within the United States, the District of Columbia and Puerto Rico.

## NOTES:

Questions? CALL 800-USA-1-USA (872-1872)

