

PNI PNI-R70-PRO

PNI PMR R70 PRO Portable Radio User Manual

Model: PNI-R70-PRO

1. INTRODUCTION

The PNI PMR R70 PRO is a portable PMR446 radio designed for reliable communication. This device operates on the 446 MHz frequency band, offering 16 channels and 99 PC programmable channels. It features 50 CTCSS tones and 166 DCS tones for enhanced privacy and interference reduction. With an IP67 rating, the radio is protected against dust and water immersion, making it suitable for various environments. No license is required for operation in most European Union countries.





Image 1.1: Front view of the PNI PMR R70 PRO portable radio, showing the display and control buttons.

2. PACKAGE CONTENTS

Verify that all items listed below are included in your package:

- PNI PMR R70 PRO Radio Unit
- Antenna
- 1800 mAh Battery
- Desktop Charger
- Belt Clip
- User Guide



Image 2.1: All components included in the PNI PMR R70 PRO package: radio, antenna, battery, desktop charger, and belt clip.

3. SETUP

3.1 Battery Installation

1. Ensure the radio is powered off.
2. Locate the battery compartment cover on the back of the radio.
3. Unscrew the retaining screw and carefully remove the cover.
4. Insert the 1800 mAh battery into the compartment, ensuring the contacts align correctly.
5. Replace the battery compartment cover and secure it with the screw.

Frequency	PMR 446 MHz
Channels	99CH, 16 PMR + 50 CTCSS / 166 DCS
Output power	500 mW
Operating temperature	-26°C ~ +80°C

Functions:

RB, DW, TOT, Scan, PRI
Monitor, Call, VOX, BCL

Floats and flashes
when dropped into the water
3.5 mm external loudspeaker jack
Eye-catching Dot Matrix display
Simple user interface
7 backlight color options



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Image 3.2: The PNI PMR R70 PRO radio placed in its desktop charging cradle, connected to a power adapter.

4. OPERATING INSTRUCTIONS

4.1 Power On/Off

To power on the radio, rotate the power/volume knob clockwise until you hear a click. To power off, rotate the knob counter-clockwise until it clicks.

4.2 Volume Adjustment

Rotate the power/volume knob clockwise to increase the volume and counter-clockwise to decrease it.

4.3 Channel Selection

Use the UP (^) and DOWN (v) arrow buttons on the front panel to select one of the 16 available channels. The selected channel number will be displayed on the screen.

4.4 Transmitting and Receiving

- **To Transmit:** Press and hold the Push-To-Talk (PTT) button located on the side of the radio. Speak clearly into the microphone. Release the PTT button to stop transmitting.
- **To Receive:** Ensure the PTT button is not pressed. The radio will automatically receive signals on the selected channel.

4.5 Special Features

- **CTCSS/DCS Tones:** The radio supports 50 CTCSS (Continuous Tone-Coded Squelch System) and 166 DCS (Digitally Coded Squelch) tones. These tones help filter out unwanted conversations on the same channel. Refer to the full user guide for programming instructions.
- **Scan Function:** Activate the scan function to monitor all active channels. The radio will stop on an active channel until the transmission ends.
- **Dual Watch (DW):** This feature allows the radio to monitor two channels simultaneously.
- **Roger Beep:** An audible tone emitted when the PTT button is released, signaling the end of your transmission.
- **Keypad Lock:** Prevents accidental changes to settings.
- **PC Programmable Channels:** The radio supports 99 PC programmable channels. This requires a specific programming cable (PNI - PSR70) and software.



Image 4.1: The PNI PMR R70 PRO radio connected to a laptop via a programming cable for channel and feature customization.

5. MAINTENANCE

5.1 Cleaning

Wipe the radio with a soft, damp cloth. Do not use harsh chemicals or abrasive cleaners. Ensure the radio is dry before use or charging.

5.2 Water Resistance (IP67)

The PNI PMR R70 PRO is rated IP67, meaning it is fully protected against dust ingress and can withstand immersion in water up to 1 meter for 30 minutes. While robust, avoid unnecessary exposure to water and ensure all covers (e.g., battery cover, accessory port cover) are securely closed before exposing the radio to water.



Image 5.1: The PNI PMR R70 PRO radio with water droplets, illustrating its IP67 water resistance feature.

6. TROUBLESHOOTING

If you encounter issues with your PNI PMR R70 PRO radio, consider the following common troubleshooting steps:

- **No Power:** Ensure the battery is correctly installed and fully charged. Check the power/volume knob is turned on.
- **Cannot Transmit or Receive:** Verify that you are on the correct channel. Check if the PTT button is functioning. Ensure the antenna is securely attached.
- **Poor Audio Quality:** Adjust the volume. Ensure the microphone and speaker are not obstructed. Move to an area with fewer obstructions for better signal.
- **Short Range:** Obstacles like buildings and terrain can significantly reduce range. Operate in open areas for maximum range. Ensure the battery is fully charged.
- **Keypad Unresponsive:** Check if the keypad lock feature is activated. Deactivate it if necessary.

For persistent issues, consult the comprehensive user guide or contact customer support.

7. SPECIFICATIONS

Feature	Specification
Brand	PNI
Model Number	PNI-R70-PRO
Frequency Range	446.00625 ~ 446.19375 MHz

Number of Channels	16 (PMR), 99 PC Programmable
Output Power	0.5 W
CTCSS Tones	50
DCS Tones	166
International Protection Rating	IP67 (Dustproof, Submersible up to 1m for 30 min)
Battery	1800 mAh (included)
Average Battery Life	18 hours
Voltage	7.4 Volts (DC)
Maximum Range	Up to 10 Kilometers (open space)
Operating Temperature	-26°C ~ +80°C
Product Dimensions (D x W x H)	6P x 13l x 4H centimeters
Item Weight	225 Grams
Special Features	Digital Display, Rechargeable, Roger Beep, Submersible, Keypad Lock

8. WARRANTY AND SUPPORT

8.1 Warranty Information

The PNI PMR R70 PRO radio comes with a **2-year warranty** from the date of purchase. This warranty covers manufacturing defects under normal use. Please retain your proof of purchase for warranty claims.

8.2 Customer Support

For technical assistance, troubleshooting, or warranty service, please contact your retailer or the manufacturer's customer support. Refer to the contact information provided in your purchase documentation.