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PNI PMR-R18

PNI PMR R18 Portable Radio Station User Manual

Model: PMR-R18

1. Introduction

This manual provides comprehensive instructions for the safe and efficient operation of your PNI PMR R18 Portable Radio Station. Please read this manual thoroughly before using the device and retain it for future reference.
The PNI PMR R18 is a robust and versatile PMR446 radio, designed for reliable communication. It operates on the license-free 446 MHz frequency band, making it suitable for various professional and personal applications in most EU countries. Key features include IP67 waterproofing, 16 channels, CTCSS/DCS codes, and FM radio functionality.

2. Package Contents

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

- 1 x PNI PMR R18 Radio Station
- 1 x Belt Holder
- 1 x Wall Power Supply
- 1 x Li-Ion Battery (1600 mAh)
- 1 x User Manual (this document)
- 1 x Desktop Charger
- 1 x Antenna
- 1 x Rope (Lanyard)

3. Product Overview

Familiarize yourself with the components of your PNI PMR R18 radio station.



Figure 3.1: PNI PMR R18 radio in its charging dock, alongside its retail packaging. The packaging highlights key features like IP67 waterproofing, 16 channels, and FM radio.





Figure 3.2: Front view of the PNI PMR R18 radio, displaying the channel indicator (CH-003) on the screen and the full keypad with function buttons.




PNI
FUN
CH-002
LOW
1 SCAN
2 PRI
3 VOX
4 CODE
5 SQL
6 SCR
PNI
POW
FULL

Figure 3.3: Side view of the PNI PMR R18 radio placed in its desktop charging dock. The radio's display shows "CH-002". The charging dock has "POW" and "FULL" indicators.



Figure 3.4: Side view of the PNI PMR R18 radio, showing the charging cable connected to the side port. The radio's display shows "CH-

002".





Figure 3.5: Top view of the PNI PMR R18 radio in its charging dock, highlighting the antenna, volume/power knob, and channel selector knob.





Figure 3.6: Top view of the PNI PMR R18 radio, showing the antenna connection, two rotary knobs (volume/power and channel selector), and accessory ports.





Figure 3.7: Right side view of the PNI PMR R18 radio, showing the belt clip attachment point and textured grip.





Figure 3.8: Left side view of the PNI PMR R18 radio, featuring the Push-to-Talk (PTT) button and two programmable function buttons below it.



Figure 3.9: All components included in the PNI PMR R18 package: radio, battery, desktop charger, wall power supply, antenna, belt clip, and lanyard.

4. Setup

4.1. Battery Installation

1. Ensure the radio is powered off.
2. Align the battery pack with the grooves on the back of the radio.
3. Slide the battery pack upwards until it clicks into place.
4. To remove, press the release latch (if present) and slide the battery downwards.

4.2. Charging the Battery

Before initial use, fully charge the battery. Charging time is approximately 4 hours.

1. Connect the wall power supply to the desktop charger.
2. Plug the wall power supply into an electrical outlet.
3. Place the radio (with battery installed) into the desktop charger. Ensure proper contact.
4. The charger's indicator light will typically show red during charging and green when fully charged.

Alternatively, the radio can be charged directly via a side port using a compatible cable (refer to Figure 3.4).

4.3. Attaching the Antenna

Screw the antenna clockwise onto the connector at the top of the radio until it is finger-tight. Do not overtighten.

5. Operating Instructions

5.1. Power On/Off and Volume Control

Rotate the top-left knob clockwise to power on the radio. Continue rotating clockwise to increase the volume. Rotate counter-clockwise to decrease volume and power off.

5.2. Channel Selection

Rotate the top-right knob to select one of the 16 available channels. The selected channel will be displayed on the LCD screen.

5.3. Transmitting and Receiving

- To **receive**, ensure the radio is powered on and on the desired channel.
- To **transmit**, press and hold the Push-to-Talk (PTT) button on the left side of the radio. Speak clearly into the microphone. Release the PTT button to listen.

5.4. CTCSS/DCS Codes

The radio supports 50 CTCSS tones and 105 DCS codes. These codes help filter out unwanted conversations on the same channel. Refer to the programming software manual for detailed setup of these codes.

5.5. VOX (Voice Operated Transmit)

VOX allows hands-free transmission. When enabled, the radio will automatically transmit when it detects your voice. The sensitivity can be adjusted (9 levels) to prevent accidental transmissions. This feature is typically configured via the programming software.

5.6. Channel Scan

Activate the scan function to monitor all active channels. The radio will stop on an active channel and resume scanning after a set period of inactivity. This function can usually be activated via a programmable button or menu option.

5.7. FM Radio (76.0 - 108.0 MHz)

The PNI PMR R18 includes an FM radio receiver. Consult the programming software or specific key combinations for activating and tuning the FM radio function.

6. Special Features

- **IP67 Waterproof Standard:** The radio is protected against dust ingress and can withstand immersion in water up to 1 meter for 30 minutes.
- **Programmable:** Functions can be customized using the PNI PSR18 programming kit (sold separately).
- **Lock Keyboard:** Prevents accidental key presses.
- **Roger Beep:** An audible tone indicating the end of your transmission.
- **Key Tones:** Audible feedback for key presses.
- **Low Battery Indicator:** Alerts when the battery level is low.

- **Automatic Energy Saver:** Conserves battery life during periods of inactivity.
- **Channel Monitoring:** Allows listening to a channel without the CTCSS/DCS filter.
- **Emergency Call/Button:** Activates an emergency alert function.
- **Scrambler:** Encrypts voice transmissions for privacy.
- **Jammer:** A function to disrupt unauthorized transmissions (use with caution and according to local regulations).
- **Channel Name:** Allows assigning custom names to channels via programming software.
- **TOT (Time-Out Timer):** Limits transmission duration to prevent accidental continuous transmission.

7. Maintenance

7.1. Cleaning

Wipe the radio's surface with a soft, damp cloth. Do not use harsh chemicals or abrasive cleaners. Ensure all ports are closed before cleaning, especially if using water.

7.2. Battery Care

- Do not expose the battery to extreme temperatures.
- Avoid fully discharging the battery frequently to prolong its lifespan.
- If storing the radio for an extended period, charge the battery to approximately 50% and remove it from the radio.

8. Troubleshooting

Problem	Possible Cause	Solution
Radio does not power on.	Low or depleted battery. Incorrect battery installation.	Charge the battery. Reinstall the battery correctly.
Cannot transmit or receive.	Incorrect channel selected. Volume too low. Antenna not properly attached. CTCSS/DCS mismatch.	Verify channel. Increase volume. Check antenna connection. Ensure matching CTCSS/DCS codes with other radios.
Poor audio quality.	Weak signal. Obstructions. Low battery.	Move to an open area. Charge the battery.
Battery drains quickly.	Frequent transmissions. High volume. VOX enabled with high sensitivity.	Reduce transmission time. Lower volume. Adjust VOX sensitivity or disable. Ensure Automatic Energy Saver is active.

9. Specifications

Feature	Specification
Product Code	PNI-PMR-R18
Color	Black
Type	PMR446
PMR Frequency (UHF)	446.00625~446.09375MHz

Feature	Specification
Channels	16 (8+8 pre-programmed)
Frequency Pitch	2.5 kHz
Security Codes	50 CTCSS, 105 DCS
VOX Levels	9 levels
LCD Screen	Yes
Transmitting Power	0.5W
Power Supply	Li-Ion battery 7.4V (1600 mAh)
Battery Life (5/5/90)	Up to 10 hours
Operating Temperature	-26°C~+80°C
Weight (battery included)	239g (8.4 ounces)
Dimensions (W x H x D, without antenna)	115 x 55 x 35 mm (4.53 x 2.17 x 1.38 inches)
Audio Accessory Pins	2-pin
Antenna Length	108 mm
IP Standard	IP67 Waterproof
Charging Time	~ 4 hours
FM Radio Frequency	76.0 - 108.0 MHz
Talking Range Maximum	10 Kilometers (under optimal conditions)

10. Warranty and Support

For warranty information and technical support, please refer to the documentation provided with your purchase or visit the official PNI website. You can also visit the PNI Store on Amazon for additional product information and contact options.

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