

FOREWORD

Thank you for purchasing our professional DMR digital two way radio. This easy to use radio will always offer you reliable, clear and security communication services.

Please read this manual carefully before using this radio, the information presented herein will help you to find the maximum performance, operating method and maintenance of your radio.

PR-4047DMR

QUICK START GUIDE

DIGITAL HAND-HELD TERMINAL

Get Started

Please read the following information before your operation:

How to use this manual?

What will your agent/system administrator tell you?

How to use this manual?

For details, refer to the descriptions provided in the following sections.

What will your agent/system administrator tell you?

You can consult your agent or system administrator about the following:

- Is your PR-4047DMR configured with a preset channel?
- Which buttons can access other functions?
- Which optional accessories are applicable to your demand?

This manual describes the basic operations of the PR-4047DMR. However, your agent or system administrator may customize your PR-4047DMR based on your application. For details, contact your agent or system administrator.

Ready to Use the HT

Perform the following steps to assemble your HT:

Charge the battery.

Install the battery.

Install the antenna.

Install the belt clip.

Power on.

Adjust the volume.

Charge the Battery

The PR-4047DMR is powered by a Li-ion battery. To avoid damage and comply with the warranty terms, you can charge the battery only with the charger included with the PR-4047DMR.

Install the Battery

Align the battery with the battery seat on the back of the PR-4047DMR and forcibly press the battery into the PR-4047DMR until the locker properly locks. To remove the battery, power off the PR-4047DMR and press the locker of the battery until the battery separates from the battery seat.

Install the Antenna

Power off the v , insert the antenna into the mounting hole, and turn it clockwise. To remove the antenna, turn the antenna counterclockwise. Make sure that the PR-4047DMR is powered off before removing its antenna.

Install the Belt Clip

Align the screw hole in the belt clip with that on the back of the PR-4047DMR and tighten the belt clip with the screw.

Power on

Turn the **On/Off/Vol** knob clockwise until a click and then a prompt tone are heard, indicating that the power-on test is successful.

Note:

If the tone/prompt function of the PR-4047DMR is disabled, no power-on prompt tone can be heard. You can enable/disable the prompt tone on the programming software. If the PR-4047DMR fails to be powered on, check the battery. Make sure that the battery is properly charged and correctly installed.

If the problem persists, contact your agent. To power off your PR-4047DMR, turn the knob counterclockwise until a click is heard.

Adjust the Volume

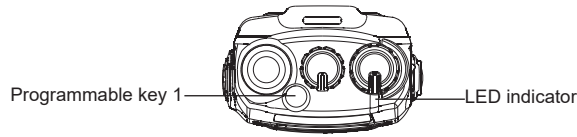
To turn up the volume, turn the **On/Off/Vol** knob clockwise. To turn down the volume, turn the **On/Off/Vol** knob counterclockwise.

HT Control

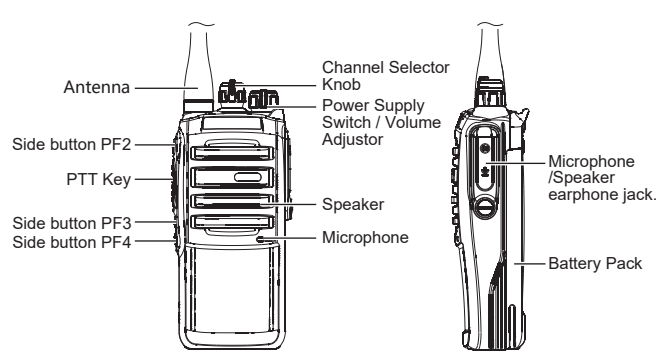
Please read the following carefully:

- HT control options
- Programmable buttons
- PTT button

HT Control Options



Front and Side Views of the HT



Programmable Keys

Your agent can set the programmable keys as the shortcut keys or preset channel or call groups.

Functions That Can Be Allocated

- Emergency call: initiates an emergency alarm or call in accordance with programming.
- PTT call: initiates a portable radio call.
- Voice control: enables or disables the VOX function.
- Power switchover: switches over the transmit power level between the high and low power.
- Squelch: enables or disables the squelch function.
- Remote kill: remotely powers off the PR-4047DMR.
- Remote activation: remotely powers on the PR-4047DMR.
- Area switchover: changes the current area of the PR-4047DMR. There are two areas available for the PR-4047DMR.
- Remote listening: remotely listens to the activities of the PR-4047DMR.
- Talkaround switch: enables or disables the Talkaround mode.
- Remote detection: checks whether the peer device is operating.
- Scanning on/off: enables or disables scanning.
- Shortcut call key 1~5: initiates a group call or a private call and sends preset short messages with a shortcut key.

PTT Key

Each channel in the radio can be individually configured as a digital/analog channel.

- During a call, the PTT key can allow the PR-4047DMR to transmit signals to other portable radios in the call. You can press and hold the PTT key to transmit a call and release the PTT key to receive a call. When the PTT key is pressed, the microphone is activated.
- When a call is terminated, the PTT key can initiate a new call. For details, refer to the "Initiating a Portable Radio Call" section on Page 8.
- When you release the PTT key to terminate a call, you can hear a beep. You can switch off the channel idle prompt by disabling all PR-4047DMR tones and prompts. You can enable/disable the prompt tone on the programming software.
- Channels can be switched over by the channel selection knob.

Status Indicators

The PR-4047DMR indicates its operational status in the following ways:

LED indicators

Prompt tones

LED Indicators

The LED indicators show the operational status of the PR-4047DMR.

- Red on: The PR-4047DMR is transmitting signals, sending short messages, and encrypting calls or data.
- Green on: The PR-4047DMR is powering on, receiving signals or short messages, and encrypting calls or data.
- Flashing orange: The PR-4047DMR is scanning.

Note:

You can enable or disable the following indicators on the programming software: transmission indicator, receiving indicator, scanning indicator, channel switchover indicator, power-on indicator, and carrier indicator.

Prompt Tones

The prompt tones provide voice prompts of the device status or data reception responses. You can enable or disable the related prompt tones on the programming software.

- Digital single-call tone: A beep can be heard when the PTT key is pressed.
- Digital group-call tone: A beep can be heard when the PTT key is pressed.
- Analog call tone: No beep can be heard when the PTT key is pressed.
- Call end tone: A toot can be heard.
- Key pressing tone: A beep can be heard.
- Power-on tone: A continuous tone can be heard.
- Transmission termination tone: Repeated thuds can be heard until you release the PTT key.
- Low-battery alarm tone: Repeated tones can be heard when the battery voltage is low. You can set the duration on the programming software.

Receiving and Initiating a Call

After configuring the following function, you can use your PR-4047DMR.

Selecting a Zone

A zone is a channel group. The PR-4047DMR supports up to two zones. One zone supports up to 16 channels. (The PR-4047DMR supports up to 32 channels.)

Procedure:

- Press the pre-programmed zone conversion key.
- The LED indicator flashes green once, indicating that the current zone is zone 1. If the LED indicator flashes red once, it indicates that the current zone is zone 2. The PR-4047DMR reports the current channel ID.

Selecting the Channel, User ID, or Call Group ID

Procedure:

Turn the channel selection knob to select the PR-4047DMR channel ID and user ID or call group ID.

Receiving and Answering Calls

Receive or answer calls after the PR-4047DMR channel ID and user ID or call group ID are selected.

When the PR-4047DMR transmits a call, the LED indicator is red on. When the PR-4047DMR receives a call, the LED indicator is green on.

Receiving and Answering a Group Call

To receive a call from a user group, the PR-4047DMR must be configured to be a member of the group.

- When the PR-4047DMR receives a group call, the LED indicator flashes green.
- Hold the PR-4047DMR vertically and one to two inches (2.5 cm to 5.0 cm) away from your mouth. Press and hold the **PTT** key and talk to the microphone after the LED indicator is red on.
- Release the **PTT** key to receive the call.
- If no voice is transmitted and received in a specified time, the call is terminated.

Receiving and Answering a Private Call

A private call is the call from an individual portable radio to another portable radio.

When you receive a private call:

- he LED indicator flashes green.
- Hold the PR-4047DMR vertically and one to two inches (2.5 cm to 5.0 cm) away from your mouth. Press and hold the **PTT** key and talk to the microphone after the LED indicator is red on.
- Release the **PTT** key to receive the call.
- If no voice is transmitted and received in a specified time, the call is terminated.

Receiving a General Call

An all-call is the call from an individual portable radio to all portable radios on the channel. It is used to release the important notices that need users' special concern.

When you receive an all-call:

- The PR-4047DMR beeps (if the prompt tone is turned on) and the LED indicator flashes green.
- If no voice is transmitted and received in a specified time, the call is terminated.

Notes:

- You cannot answer an all-call.
- If you are handed over to another channel when you are receiving an all-call, the PR-4047DMR stops receiving this all-call. During an all-call, you cannot use any pre-programmed key until the call is terminated.

Advanced Functions

The PR-4047DMR provides the following advanced functions:

DMO dual-timeslot
Hybrid channel
Scanning list
SMS
VOX
Talkaround
Remotely listening allowed
Remotely alarm-reporting allowed

DMO Dual-Timeslot

In a DMO dual-timeslot communication, two calls can be made on the same frequency, making the communication efficiency double and saving the cost for users for frequency request and use. In addition, dual-timeslot communication can ensure smooth and realtime communication even in peak time.

Hybrid Channel

You can set a hybrid channel for your PR-4047DMR to receive digital or analog signals.

Scanning List

You can create a scanning list and allocate it to a single channel or a call group. Your PR-4047DMR can check whether there are voice activities on the current channel or in the current call group by cyclically scanning the channels and call groups in the list. Your PR-4047DMR can support up to 10 scanning list and each list consists of up to 16 members.

Scanning

When you enable scanning, your PR-4047DMR check whether there are voice activities on the current channel by cyclically scanning the pre-programmed scanning list.

The LED indicator flashes orange.

Automatic scanning: The PR-4047DMR starts to scan automatically after you select an active channel or call group with automatic-scanning enabled.

Starting and Stopping Scanning

Procedure:

- Start or stop scanning by pressing the pre-programmed scanning key or selecting a channel with a pre-programmed scanning list with the channel selection knob.
- When scanning is started, the LED indicator flashes orange. When scanning is stopped, the LED indicator is off.

Transmitting a Response During Scanning

During scanning, your PR-4047DMR stays on the active channel or in the active call group detected. The duration when the PR-4047DMR stays on the channel is called the pre-programmed time limit of the "idle time" .

Procedure:

- During the idle time, press the **PTT** key and talk to the microphone after the LED indicator is red on.
- Release the **PTT** key to receive the call.
- If you do not send a response, the PR-4047DMR starts to scan other channels or call groups.

Sending a Pre-edited Short Message

You can send a pre-edited short message with a pre-programmed key.

Procedure:

- Press the pre-programmed shortcut key to send a pre-edited short message to a pre-defined ID. Up to 10 pre-edited short messages can be set on the PR-4047DMR.
- The LED indicator red on.
- If two prompt tones are heard, it indicates that the short message is successfully sent. If one low tone is heard, it indicates that the short message fails to be sent.

Setting a Power Level

You can set the power level of each channel to low or high.

A high power level is used for the communication between the PR-4047DMR and a remote portable radio. A low power level is used for the communication between the PR-4047DMR and a near portable radio.

Procedure:

- Press the pre-programmed power level key.
- If the PR-4047DMR beeps once, it indicates that high power is transmitted. If the PR-4047DMR beeps twice, it indicates that low power is transmitted.

4

5

6

7

8

9

10

11

12

13

14

15