OREWORD

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 maximun performance, operating method and maintenance of your radio.

Set 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 DM-R88 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 DM-R88. However, your agent or system administrator may customize your DM-R88 based on your application. For details, contact your agent or system

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 DM-R88 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 radio.

Install the Battery

Align the battery with the battery seat on the back of the DM-R88 and forcibly press the battery into the radio body until the locker properly locks. To remove the battery, power off the radio and press the locker of the battery until the battery separates from the battery seat.

Receiving and Answering Calls

Receive or answer calls after the DM-R88 channel ID and user ID or call group ID are selected.

QUICK START GUIDE DIGITAL HAND-HELD TERMINAL

DM-R88

When the radio transmits a call, the LED indicator is red on. When radio receives a call, the LED indicator is green on.

Receiving and Answering a Group Call

- To receive a call from a user group, the radio must be configured to be a member of the group.
- When the radio receives a group call, the LED indicator turns green. 2. Hold the radio 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.
- 3. Release the PTT key to receive the call.
- 4. 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:

- 1. The LED indicator turns green.
- 2. Hold the radio 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.
- 3. Release the PTT key to receive the call.
- 4. 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 concerr When you receive an all-call:

- 1. The radio beeps (if the prompt tone is turned on) and the LED indicator turns green.
- 2. If no voice is transmitted and received in a specified time, the call is

Notes:

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

Initiating a HT Call

You can select a channel, user ID, or call group ID in either of the

- following ways:
- Channel selection knob
- Pre-programmed shortcut key

Note:

Your DM-R88 must enable channel encryption before sending encrypted information. The transmitted encrypted information can be decrypted only when the target portable radio has the same encryption key as your DM-R88.

Initiating a Call with the Channel Selection Knob Initiating a Group Call

To initiate a call to a user group, the DM-R88 must be configured to be a member of the group.

- Procedure: 1. Turn the channel selection knob and select the channel with the
- active call group ID. 2. Hold the DM-R88 vertically and one to two inches (2.5 cm to 5.0 cm)
- away from your mouth 3. Press and hold the PTT key and talk to the microphone after the
- LED indicator is red on. 4. Release the PTT key to receive the call. When the DM-R88 receives
- an answer, the LED indicator turns green. 5. If no voice is transmitted and received in a specified time, the call is
- terminated

Initiating a Private Call Procedure:

- 1. Turn the channel selection knob and select the channel with the active user ID.
- 2. Hold the DM-R88 vertically and one to two inches (2.5 cm to 5.0 cm) away from your mouth
- 3. Press and hold the PTT key and talk to the microphone after the LED indicator is red on.
- 4. Release the PTT key to receive the call. When the DM-R88 receives an answer, the LED indicator turns green.
- 5. If no voice is transmitted and received in a specified time, the call is

Initiating an All Call

This function allows you to transmit signals to all the users on the channel. The radio must be programmed to allow you to use this

- Procedure:
- 1. Turn the channel selection knob and select the channel with the active all-call group alias or ID. 2. Hold the radio vertically and one to two inches (2.5 cm to 5.0 cm)
- away from your mouth 3. Press and hold the PTT key and talk to the microphone after the
- LED indicator is red on Note:

The users on the channel cannot answer an all-call.

Initiating a Group/Private Call with the Shortcut Key

With the shortcut-key call function, you can make a group call or a private call with a pre-defined alias or ID. To use this function, you can pre-define a shortcut key. You can allocate only an alias or an ID to a shortcut key. You can pre-define several shortcut keys. Procedure:

- 1. Press the pre-programmed shortcut key to initiate a group call or a private call to the pre-defined alias or ID.
- 2. Hold the DM-R88 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.
- 4. Release the PTT key to receive the call. When the DM-R88 receives an answer, the LED indicator turns green
- 5. If no voice is transmitted and received in a specified time, the call is terminated

Starting and Stopping Scanning

- Procedu
- with the channel selection knob

removing its antenna.

Install the Belt Clip

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 DM-R88 is disabled, no power-on prompt tone can be heard. You can enable/disable the prompt tone on the programming software. If the DM-R88 fails to be powered on. check the battery. Make sure that the battery is properly charged and correctly installed.

Adjust the Volume

HT Control

Please read the following carefully:

- HT control options
- Programmable buttons

DMO dual-timeslot

Scanning list

Scanning

Talkaround

Remote Monitor

Scanning List

Scanning

VOX

PTT button

Install the Antenna

Power off the DM-R88, insert the antenna into the mounting hole and turn it clockwise. To remove the antenna, turn the anter counterclockwise. Make sure that the DM-R 88 is powered off before

Align the screw hole in the belt clip with that on the back of the radio and tighten the belt clip with the screw.

If the problem persists, contact your agent. To power off your DM-R88, turn the knob counterclockwise until a click is heard.

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 Options

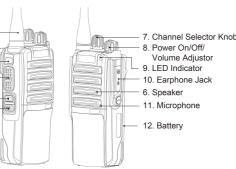
1. Antenna

2.Side Key 3

3.PTT Key

4.Side Kev 1

5. Side Key 2



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.
- Voice control: enables or disables the VOX function.
- Power switchover: switches over the transmit power level between the high and low power.
- Talkaround switch: enables or disables the Talkaround mode.
- Scanning on/off: enables or disables scanning.
- One Touch Access 1-5 (Shortcut Key): Initiates a group call. All call or a private call and supports to send Cal Initial Alert, Radio check, Radio Kill, Radio Active and Remote Monitor function when on Single call mode.
- Remote detection: checks whether the peer device is operating.
- Remote kill: remotely powers off the radio
- Remote activation: remotely powers on the radio
- · Remote Monitor: remotely listens to the activities of the pre-set channels.
- Zone Inc (Zone Increase): Change the current Zone, there are two zones.
- Zone Dec (Zone Decrease): Change the current Zone, there are two zones.

PTT Key Each channel can be individually configured as a digital/analog channel.

- During a call, the PTT key can allow the radio 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 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 Indicatrs

The radio indicates its operational status in the following ways: LED indicators Prompt tones

LED Indicators

The LED indicators show the operational status of the radio

- Red on: The radio is transmitting signals, and sending encrypting calls or data. • Green on: The radio is powering on, receiving signals or encrypting
- calls or data.
- Flashing orange: The radio is scanning.

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

- Call Start of Digital: A Beep can be heard when the PTT key is
- Voice End of Digital: A Beep can be heard when the voice is end.
- Call End of Digital: A Beep can be heard when the PTT key is released.
- Call Start of Analog: A Beep can be heard when the PTT key is nressed
- Voice End of Analog: A Beep can be hear d when the voice is end.
- 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 DM-R88.

Selecting a Zone

A zone is a channel group. The DM-R88 supports up to two zones. One zone supports up to 16 channels. (The radio supports up to 32 channels.)

Procedure

1. Press the pre-programmed zone conversion key.

Selecting the Channel, User ID, or Call Group ID

Turn the channel selection knob to select the DM-R88 channel ID and user ID or call group ID.

Advanced Functions

The DM-R88 provides the following advanced functions:

Remote Kill and Activate

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.

You can create a scanning list and allocate it to a single channel or a call group. Your DM-R88 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 DM-R88 can support up to 10 scanning list and each list consists of up to 16 members.

When you enable scanning, your DM-R88 check whether there are voice activities on the current channel by cyclically scanning the preprogrammed scanning list.

The LED indicator flashes jade green

Automatic scanning: The DM-R88 starts to scan automatically after you select an active channel or call group with automatic-scanning enabled.

Start or stop scanning by pressing the pre-programmed scanning key or selecting a channel with a pre-programmed scanning list

2. When scanning is started, the LED indicator flashes jade green. When scanning is stopped, the LED indicator is off

Transmitting a Response During Scanning

During scanning, your DM-R88 stays on the active channel or in the active call group detected. The duration when the DM-R88 stays on the channel is called the pre-programmed time limit of the "Hold time." Procedure[.]

- 1. During the hold time, press the PTT key and talk to the microphone after the LED indicator is red on.
- 2. Release the PTT key to receive the call.
- 3. If you do not send a response, the DM-R88 starts to scan other channels or call groups.

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 radio and a remote portable radio. A low power level is used for the communication between the terminal and a near portable radio. Procedure

- 1. Press the pre-programmed power level key.
- 2. If the radio beeps once, it indicates that high power is transmitted If the radio beeps twice, it indicates that low power is transmitted

Enabling or Disabling the VOX Voice Control Function

VOX allows you to initiate a hand-free voice call without pressing PTT key. Once the microphone detects a voice signal, including VOX voice signal. the radio will automatically transmits signals in a programmed time period Procedure:

- 1. Press the programmed VOX key to enable or disable the VOX
- 2. Talk to the microphone clearly.

Talkaround

If the forwarder does not work or if your radio is beyond the operating scope of the forwarder but within the coverage of other portable radios, you can still use your DM-R88 for communication. This is called "Talkaround".

Procedure:

Press the programmed Repeater/Talkaround key to switch over between the Talkaround and Repeater mode

Remote Monitor

This function enables remote listening of the radios Procedure:

- 1. You should program the side key as One Touch Call feature, and set up the Contacts who you want to monitor via. software and Choose Feature type as "Remote Monitor"
- 2. Press the programmed One Touch Call key to monitor the pre-set

Remote Kill and Activate

This function enables remote kill and activate of the target radio. Procedure:

- 1. You should program the side key as One Touch Call feature, and set up the Contacts who you want to Kill or Activate via. software and set up the Feature type as Radio Kill / Activate.
- 2. Press the programmed One Touch Call key to Kill or Activate the preset channel

Accessories

Earphone (optional)

Portable radio

i-ion battery

Smart charger

Power adapter

Quick start guide

Your DM-R88 is compatible with the accessories listed in the following table. For details, contact your agent. Antenna

Parking List

DM-R88 A6

- Batterv
- Smart charger
- Power adapter Belt clip

Name

Antenna

Belt clip

2. You will hear a beep for Zone 1 and a double Beep for Zone 2.

Model/Specification Quantity