

# DM-R88

## QUICK START GUIDE DIGITAL HAND-HELD TERMINAL

### 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.

### 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 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 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 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.

#### 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 antenna counterclockwise. Make sure that the DM-R88 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 radio 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 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.

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

#### Adjust the Volume

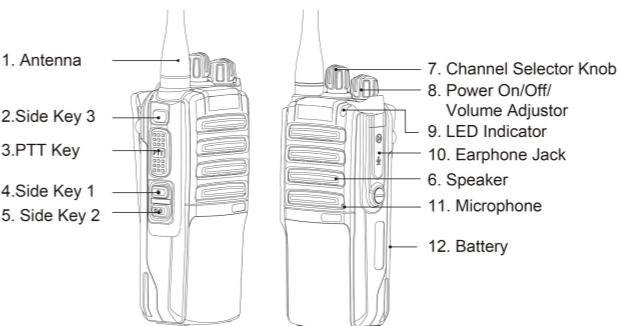
To turn up the volume, turn the On/Off/Vol knob clockwise. To turn down the volume, turn the On/Off/Vol knob counterclockwise.

### HT Control

Please read the following carefully:

- HT control options
- Programmable buttons
- PTT button

### HT Control Options



### 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 Indicators

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 pressed.
- 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 pressed.
- Voice End of Analog: A Beep can be heard 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.
2. You will hear a beep for Zone 1 and a double Beep for Zone 2.

#### Selecting the Channel, User ID, or Call Group ID

Procedure:

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

### Accessories

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

Antenna  
Battery  
Smart charger  
Power adapter  
Belt clip  
Earphone (optional)

Parking List		
Name	Model/Specification	Quantity
Portable radio	DM-R88 A6	1
Antenna		1
Li-ion battery		1
Smart charger		1
Power adapter		1
Belt clip		1
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#### Receiving and Answering Calls

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

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.

1. 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 concern.

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 terminated.

#### 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.

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### Advanced Functions

The DM-R88 provides the following advanced functions:

DMO dual-timeslot

Scanning list

Scanning

VOX

Talkaround

Remote Monitor

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.

#### Scanning List

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.

#### Scanning

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

#### Starting and Stopping Scanning

Procedure:

1. 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.
2. When scanning is started, the LED indicator flashes jade green. When scanning is stopped, the LED indicator is off.

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