



DG-800pro Quick Reference for Digital radios

Note: For detailed operation and function, please refer to user manual.

Radio controls



Parts description:

NO	PART NAME	NO	PART NAME	NO	Part Name
1	Channel selector	6	Side key 2(*)	11	Belt clip
2	Power switch / volume control	7	LED indicator	12	Li-pol Battery pack
3	Antenna	8	MIC / SP connector	13	Battery latch
4	PTT button	9	Speaker		
5	Side key 1(*)	10	MIC		

Note: Buttons like [*] are programmable key.

LED indicators

The LED indicator indicates the working status of the radio. Turn on or off LED indicator can be programmed by software.

- Lighting Red — radio is transmitting.
- Light Green — radio is receiving.
- Flashing red light — radio is scanning.

Note:

- ◆ In analog mode, when the LED indicator flashes or lights green, it indicates the radio detects the active signal over the air.
- ◆ If the busy channel lockout function is turned on, the radio will refuse to transmit signal when you press the PTT key.

Turn the radio ON

Turn the On/Off/Volume Control Knob clockwise until a click sound is heard. To turn off the radio, rotate anticlockwise the volume control, till a click sound is heard.

Adjust the volume

After powering on, rotate clockwise the volume control to increase the volume or rotate anticlockwise it to

decrease the volume.

Note: If the radio is used with an external earphone, please remember to decrease the volume before wearing the earphone to avoid being scared or harmed due to too large volume.

Select a Zone

A zone is a group of channels. Your radio supports up to 16 zones, with a maximum of 16 digital channels and 16 analog channels per zone (total 32 channels per zone).

To choose a zone by following procedure

Procedure:

1. Press the preset "Zone" key to switch in different zones.
2. A confirmed prompt tone or voice prompt (if turned on) will be heard, indicating the radio changes from current zone to another zone successfully.

Note:

- ◆ The number and names of the zones in the list should be preset by your distributor or system administrator (there can be a maximum of 16 zones).

■ Choose a Channel, User ID, or Group ID

1. Rotate the Power Switch / Volume Control button to turn on the radio.
2. After choosing the desired zone (provided that there is multiple zones preset in the radio), choose a working channel, user alias or ID, or Group alias or ID with the channel selector.

Prompt:

- ◆ When choosing a channel, a prompt tone of current channel will be heard. (The prompt tone type can be programmed)
- ◆ You can change current working channel mode by pressing [Analog / Digital] key. (Digital / Analog Mode)

■ Initiate a Radio Call

To initiate a private/group call, the radio should choose the right alias or ID for private user or group as part of that group.

Note: Your radio must be preset to allow initiating a private / group call firstly.

Procedures:

1. Press preset keys, and continue the step 2.
- OR
- Rotate the channel switch knob to choose the channel with preset group alias or ID.

2. Hold the radio vertically 2.5cm to 5cm (1 to 2 inches) from your mouth.

3. Press the "PTT" key to initiate a call, and blue LED indicator is normal call (if LED indicator function is turned on)

4. Release the PTT key and listen to the response, when the target radio answers, blue LED indicators will flash (if LED indicator function is enabled).

5. If the "Tx Ended Tone" is enabled, a short tone will be heard when target radio releases the "PTT" key, which means the channel is free for answer. Press PTT key to answer

Note:

The private call is end, if there is no audio activity in preset time, and a short call free time prompt tone will be heard.

■ Initiate a General Call

Your radio must be programmed to allow to initiating a general call to all uses at the current channel.

Procedures:

1. Rotate the channel switch knob to choose the channel with preset general alias or ID.
2. Hold the radio vertically 2.5cm to 5cm (1 to 2 inches) from your mouth.

3. Press the "PTT" key to initiate a call, and blue LED indicator is normal call (if LED indicator function is turned on)

4. Release the PTT key and listen to the response, when the target radio answers, blue LED indicators will flash (if LED indicator function is enabled).

5. If the "Tx Ended Tone" is enabled, a short tone will be heard when target radio releases the "PTT" key, which means the channel is free for answer. Press PTT key to answer

Note:

User at the channel can't reply the general call.

■ Talk Around

You can continue to communicate by using talk around feature when the repeater is not operating, or when two way radio is out of the repeater range but within the talking range of other radios. This is known as "Talk Around"

Procedures:

1. Press preprogrammed "Talk Around" key to switching between talk around and repeater mode.
2. If the prompt tone is enabled, you will hear a short beep which indicates the radio is already in talk around / repeater mode.

■ Monitor a channel

Use the monitor feature to make sure a channel is free before transmitting.

Procedure:

1. Press and hold the preset [analog monitor] key and listen to the activity.

■ Permanent Monitor

Use permanent monitor feature to continuously monitor a channel.

Procedure:

1. Press the preset [permanent monitor] key and listen to activity.

■ Send Call Alert

Procedure:

1. Press the direct preset call key to send call alert to preset target radio ID.
2. LED indicator lights red.
3. A prompt tone will be heard if the target radio receives the call alert successfully.

■ Receive or response to the call alert

If you receive a call alert:

1. You will hear a prompt tone repeatedly. The LED indicator flashes blue speedily (if activated).
2. You can press [PTT] to reply within 4 seconds after you receive the call alert.

Note:

If you do not press [PTT] within 4 seconds, the radio will exit the call alert automatically.

■ Send Emergency Alarm

If users are allowed to send an emergency alarm which is non-voice signal, it will activate the target radio to make alarm tone prompt.

Procedure:

1. Press the pre-programmed [emergency alarm on / off] key.
2. LED indicator lights blue.
3. If the target radio confirms to receive the emergency alarm, you will hear a confirming tone and the LED indicator flash blue speedily.

OR

If you don't hear any confirmation from the target radio, after several attempts (preset by the software), you will

hear a lower prompt tone.

4. The radio exits emergency mode.

Note:

If your radio is set to "silent" option, no audio or visible indication is shown to the your radio

■ Scan ON or OFF

If it is permitted by your dealer or system administrator, users can check or operate scan feature through preset [Scan on/off] key.

Note:

◆ "Talkback" or "Scan TX mode" and "Appointed channels" etc scan detail settings can be preset by your dealer or system administrator.

Procedure:

1. Press pre-set [Scan on /off] key to turn ON or OFF scan feature.
2. When the scan is activated, the LED indicator flashed blue and green speedily, and meanwhile you will hear an audible alert "ON" if activated.

OR

The LED indicator will turn off, when the scan is off.

■ Programmable keys and Prompt tones

For your convenient operation and use, some programmable keys can be defined with two different functions, which can be prompted with voice or tones during functions switch.

Prompt: These functions can be set by programming software, please contact your dealer or system administrator for further information.

Programmable keys:

Serial No.	Function List	Keys operation	Prompt Tones
1	High / Low power selection	Long Press / Short Press	Prompt Tone / Voice/Mute
2	VOX	Long Press / Short Press	Prompt Tone / Voice/Mute
3	Zone	Long Press / Short Press	Prompt Tone / Voice/Mute
4	Scan On/Off	Long Press / Short Press	Prompt Tone / Voice/Mute
5	Scanning	Long Press / Short Press	
6	Repeater / Talk Around	Long Press / Short Press	
7	Emergency Mode	Long Press / Short Press	Prompt Tone / Voice/Mute
8	Encryption	Long Press / Short Press	Prompt Tone / Voice/Mute
9	Radio Revive	Long Press / Short Press	
10	Radio Detection	Long Press / Short Press	

Serial No.	Function List	Keys operation	Prompt Tones
11	Radio Kill	Long Press / Short Press	
12	Remote Monitor	Long Press / Short Press	
13	Monitor	Long Press / Short Press	
14	Permanent Monitor	Long Press / Short Press	
15	Information Check	Long Press / Short Press	Prompt Tone / Voice/Mute
16	Digital / Analog Mode	Long Press / Short Press	
17	SQ Level	Long Press / Short Press	Prompt Tone / Voice/Mute
18	PTT 1	Long Press / Short Press	
19	PTT 2	Long Press / Short Press	
20	PTT 3	Long Press / Short Press	

■ Encryption

If this feature is enabled, it is advantageous to prevent other users from using the software encryption method without authorization. Part of the transmitted signal and user identification are not encrypted. The radio must enable the channel's encryption function to transmit the encrypted signal, although this is not required to receive / transmit. At the same time in the encryption

of the channel, the radio can receive a clear transmission signal.

◎ Your radio supports the following types of encryption:

- Low — Basic encryption
- Middle — Strong encryption
- High — Enhanced encryption

Tips:

- ◆ Only one of the above mentioned groups can be assigned to a radio.
- ◆ To decrypt the encrypted call or data transmission, user must have the same encryption key or the same key level, key value and key ID. If user receive a different encryption key, key value and ID key with encryption call , user can hear the confusing transmission of signals (basic encryption) or listen to nothing(Enhanced / super strong encryption).

Procedure:

1. Press the preset [Encryption ON/OFF] key to turn on or off the function

Note:

- ◆ Your radio must be pre-programmed to allocate the key values, Key ID and encryption type.
- ◆ Some types of radios may not provide a single channel encryption or not encryption function. Please

contact your dealer or system administrator for further information.