

## **DBH05, DBH09R, DBH10R, DBH20 & DBH20R Models** ***Turning your CRYSTAL UHF radio ON and OFF***

### ***To switch the handset ON.***

Press and hold the ( ***MENU/PWR*** )button until the display comes on.

### ***To switch the handset OFF.***

Press and hold the ***MENU/PWR*** button until the display goes blank.

You hear a tone each time to confirm.

### ***Volume control***

To adjust the loudspeaker volume

Press the **arrow UP** or **arrow DOWN** buttons.

The volume level is shown by the numbers 1-8 on the display.

You can change the volume either while you're using your handset,  
Or when free.

### ***Changing the channels***

The handset has eighty channels, numbered 1 to 80. To communicate with other handset users within range. You must all have you handsets tuned to the same channel.

### ***Using this feature***

Press the ***MENU/PWR*** button once

The current channel number flashes on the display

Press ***UP or DN*** button to go to the channel you want

Press ***PTT*** button to confirm changes.

Each channel also has 38 sub-channels(sometime call CTCSS codes) allowing you set up groups of users within the same channels, for more private communication if you have set a sub-channel.

### ***Changing the sub-channels***

Press the ***MENU/PWR*** button twice

The current channel number (small 00) flashes on the display

Press ***UP or DN*** button to go to the sub channel you want

Press ***PTT*** button to confirm changes.

### ***To turn the sub-channel function OFF***

Simply set the sub-channel to **00 (2 small zeros)**. Then you can communicate with any handset user on the same channel who also turned off sub-channel operation (or whose handset that do not have this feature).

### ***(TO) Auto power turn OFF***

Press the ***MENU/PWR*** button five times until ***(OF to)*** is displayed.

Select OF, 30 or 60 minutes the radio will automatically turn off after set time.

### ***Transmitting and Receiving.***

The handset transmission is one way-at-a-time while you are speaking, you can not receive a transmission better known as **(SIMPLEX)**.

Your handset is an open-license band so always identify yourself (No personal details) when transmitting. Other people may be communicating on the same channel.

### ***To speak to another handset user***

Press and hold the ***PTT*** button so that the Transmitting symbol ***(TX)*** appear on the LCD panel.

Speak clearly into the microphone, in a normal tone - don't

Shout, when you're finished speaking, release the ***PTT*** button.

### ***To listen to another handset user***

Make sure you are not pressing the ***PTT*** button

Receiving symbol ***(RX)*** is shown on the display when the other person is speaking. Don't try to transmit until they have finished.

## ***(MONI)***

### ***Monitoring the current channel (MONI) physical button on radio.***

Normally the handset will not pick up very weak signals. But you can monitor the current channel for all sounds.

### ***To activate monitoring feature***

Press the ***(MONI)*** on the handset once it will monitor the current channel your handset is on and will pick up any signals on the current channel, including background noise which will be a constant hiss through the speaker .

Press ***(MONI)*** button once to stop monitoring.

## ***VOX (voice activated transmission)***

In ***VOX*** mode your handset will transmit whenever it detects your voice (or other noise) without the ***PTT*** button being pressed. It will transmit for 2 seconds even if you stop talking.

The level of ***VOX*** sensitivity is shown by Numbers on the display. At the highest level 3, the handset will pickup softer noise (including background noise); at the lowest level 1, it will pick up only louder noises.

### ***To turn VOX mode ON and OFF:***

Press ***MENU/PWR*** button Three times. The ***VOX*** icon is displayed and OF flashes on the LCD panel.

Press ***UP*** button to set the level of sensitivity.

If you press the ***DN*** button until ***OF*** appears on the display, ***VOX*** mode is turned off.

Press the ***PTT*** button to confirm the setting.

As long as the handset is in ***VOX*** mode, ***VOX*** is shown steadily on the display.

### ***(CA) Ring tone***

You can send a ring tone to other handsets within range tuned to the same channel,(and sub-channel if applicable), to alert them you want to communicate with them. Press and release the **CALL** button once. You can hear a ring tone for about two seconds, while the transmitting symbol (**TX**) appear on the LCD panel. Any other handset within range and tuned to the same channel will hear the Ring tone, and can respond.

### ***(CA) Setting Call-Ring tones***

Press the **MENU/PWR** button Four times, the unit will enter Call-Ring settings mode.

The LCD will display **CA01** while a **bell symbol** in brackets is displayed on the LCD screen.

Press **UP or DN** button to change the Call-Ring tone.

5 different tones heard during and set

Press **PTT** button to confirm your setting after you select your desired Call-Tone from 1 to 10.

### ***Setting Call-Ring off***

You cannot turn this feature off.

### ***(RO )Roger Beep ON/OFF setting***

The roger Beep is a Tone which is automatically transmitted whenever the **PTT** button is released. This lets the other person know that you have finished talking and you are now in receive mode.


### ***To enable or disable the Roger Beep tone***

Press the **MENU/PWR** button Five times until (**ON ro**) is flashing on the LCD screen. Press the **UP or DN** button to enable or disable the **RO** feature ("**ON**") will appear on the display) or disable ("**OF**") will appear on the display) depending on the state you choose. Press the **PTT** button to confirm the setting.

### ***Key tone ON/OFF setting***

This feature allows the handset to sound a confirmation tone whenever keys are pressed.

### ***To turn the Key-Tone ON or OFF***

Press the **MENU/PWR** button Six times. The "**On**" icon is displayed with the **bell symbol** below. 

Press **UP or DN** button to to enable or disable the feature.

Press **PTT** button to confirm your setting.

### ***(DCM) monitoring Two channels at once(Dual channel watch)***

Press **MENU/PWR** button Seven times.

DCM appear on the display while "**OF**" is flashing.

Select the desired channel by pressing **UP or DN** button.

Press **MENU/PWR** button to change the CTCSS code.

Press **UP or DN** button to select the desired CTCSS code.

Press **PTT** button to confirm the setting.

The display switches backwards and forwards between the two channels. If handset detects a signal on either channel, it will stop and receive it. As long as the unit is in Dual watch mode, **DCM** is shown steadily on the display.

### ***To end the Dual Watch mode***

Press **MENU/PWR** button Seven times, the channel number flashes on the display. Press **UP or DN** button until the "**OF**" is shown on the display.

Press the **PTT** button to exit Dual Watch mode.

## ***Scanning Channels***

When the Scan function is tuned on, the handset will continuously scan through all eighty channels and all 38 sub-channels until it finds one on which another user is transmitting.

Press and hold the (***MONI***) on the handset for 3 seconds.

channel number now count on the screen continuously. When a signal is detected, the unit will pause and listen for 4 seconds.

Press button to continue scanning for main channel.

Press button to scan the Sub-channels.


Press the ***PTT*** button to stop the scan and communicate or ***MONI*** button to continue scan.

## ***Locking the buttons (KEY SYMBOL)***


With the buttons locked you can still transmit (Talk), receive or

Monitor (LISTEN) to the current channel but you can't change the volume or use any other buttons apart from the ***PTT*** button.

### ***To lock the buttons***

Press and hold the ***CALL*** button for 3 seconds until a ***KEY SYMBOL***  appears on the display.

### ***To unlock the buttons***

Press and hold the ***CALL*** button for 3 seconds until the ***KEY SYMBOL***  disappears from the display.