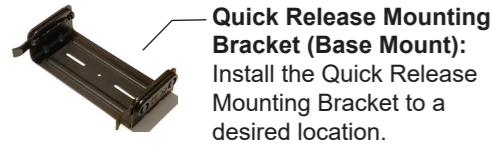# ECOXGEAR

5 Watt Remote Multi-Colour LCD Speaker Mic
Super Compact UHF CB Fixed Mount Radio
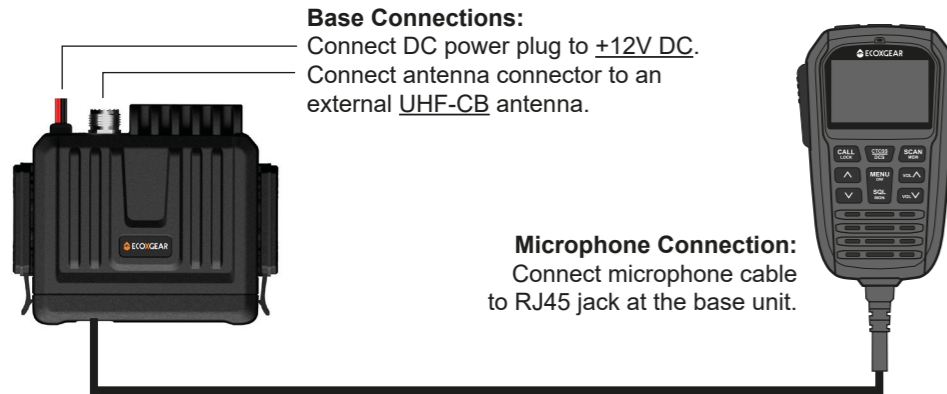
EXG3000 USER GUIDE

Radio Installation 1

For full instructions on the EXG3000 radio installation, visit the website for the online user guide.

Quick Release Mounting Bracket (Base Mount): Install the Quick Release Mounting Bracket to a desired location.
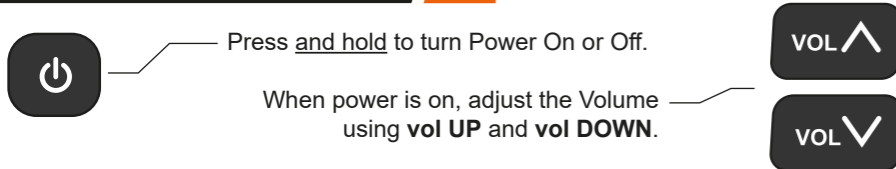
Magnetic Mic Hanger (Mic Mount): Install the Mic Hanger within cable extention range of the Microphone.

Base Connections:
Connect DC power plug to +12V DC.
Connect antenna connector to an external UHF-CB antenna.

Microphone Connection: Connect microphone cable to RJ45 jack at the base unit.

Power ON/OFF | Volume 2

Press and hold to turn Power On or Off.

When power is on, adjust the Volume using **vol UP** and **vol DOWN**.

VOL ∧
VOL ∨

After the ECOXGEAR logo appears, the display will change to the Active mode, indicating the current channel and settings, and Live RSSI graphic.

If there is no signal activity for 8 seconds the display will change to the Simple mode display.

Active Mode Display

No activity (~8sec)
Activity

Simple Mode Display
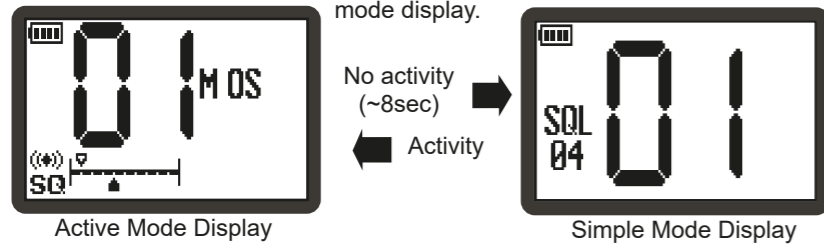
Selecting a Channel 3

There are three ways to navigate to a channel.

Main Method:
Press **UP** or **DOWN** to change channel one step at a time. (Press and hold to change channels rapidly.)

One-Touch Shortcut Keys:
Press **PRI** to recall the Priority Channel (Default is CH11). To store any current channel as the Priority Channel, press and hold **PRI**.

Press **EMG** to recall Emergency Channels 05 and 35.

Channel Usage 4

The EXG3000 has 80 UHF-CB Channels to select from.
Visit the ACMA website for deatils of citzen band radio usage.

Designated Channels
- Channels 05 and 35 are for Emergency communications only.
- CH.11 Call Channel. Once contact is made, switch to another channel.
- Channels 01-08 and 41-48 are repeater output channels. Channels 31-38 and 71-78 are the matching repeater input channels.

Limited Use Channels
- CH.22, 23 No voice (talk) is permitted on these channels.
- CH.61, 62, 63 Reserved for future use.

Commonly used for...
- CH.10 4WD Clubs, Convoys & National Parks
- CH.18 Caravan & Campers, Convoys
- CH.29 Road Safety (Pacific Hwy NSW-QLD)
- CH.40 Road Safety (Truckies) Australia Wide

All other channels are for general use.

CH: 01 02 03 04 05 06 07 08 09 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32 33 34 35 36 37 38 39 40

CH: 41 42 43 44 45 46 47 48 49 50 51 52 53 54 55 56 57 58 59 60 61 62 63 64 65 66 67 68 69 70 71 72 73 74 75 76 77 78 79 80

LISTENING: Receive (RX) Basics 5

Live RSSI (Receive Signal Strength Indicator)

The Live RSSI graphic *(Patent Pending)* shows the signal activity on the current channel.

((⬦)) means no signal activity or no signal strong enough to open the squelch.

▽ is the signal level on the current channel. The signal point indicates the strength of the signal, increasing from left to right.

RX means a receive signal strong enough to pass the squelch point. You should hear something through the radio's speaker when RX is showing - adjust the volume if necessary.

SQ is Squelch. The squelch keeps the radio's speaker muted.

🔺 is the squelch point, the threshold allowing signals to un-mute the radio's speaker.

SQL / MON
Press **SQL** and use **UP** or **DOWN** to adjust the squelch point.
Press **SQL** again to save the new setting.

Adding CTCSS & DCS to the Squelch

CTC-01

CTCSS (CTC) and DCS are Squelch codes. When a Squelch code is set, a signal must have that Squelch code to un-mute the radio's speaker - even if the signal strength is strong enough to pass the squelch point.

CTCSS / DCS
Press **CTCSS/DCS** and use **UP** or **DOWN** to select a CTCSS (01-50) or DCS (001-104) code. CTCSS/DCS cannot be set on Emergency channels 05 and 35.
Press **CTCSS/DCS** again to set.

Make sure, when you set a CTCSS or DCS squelch code, to share the code with others you want to communicate with.

Monitor Mode

The Monitor mode bypasses the Squelch, CTCSS and DCS so that you can listen to the open channel.
In Monitor mode, RX is always on and ▽ always at the left side.

SQL / MON
Press and hold **MON** to enable Monitor mode.
Press and hold **MON** to disable Monitor mode.
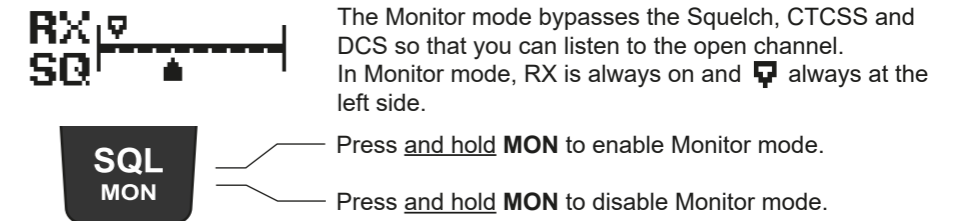
TALKING: Transmit (TX) Basics 6

Always listen on a channel, or check the LiveRSSI, to ensure it is not already being used before transmitting.
To communicate, all radios in your group must be set to the same Channel and, if it is set, the same CTCSS / DCS Code.

To talk, press and hold the **PTT** (Push to Talk) key. Hold the radio 5 to 7 cm away from your mouth and speak towards the micophone located just above the display. When you are finished speaking, release **PTT** to listen.

TX SQ
TX and the full signal level will display while PTT is held.
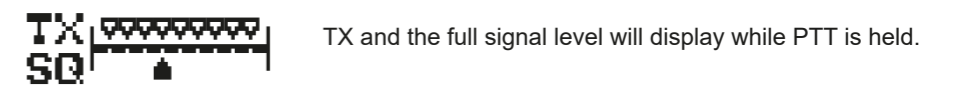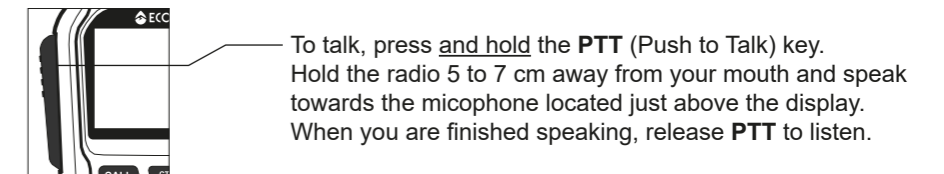
Making Contact Using Call

CALL / LOCK
Press **CALL** to initiate a calling tone. Call Tone transmits a short tune intended to catch the attention of others on the channel.
NOTE: Call Tone can only be used once per minute by regulation.

Dual (Channel) Watch 7

Watch the Priority Channel along with the current channel using DW.
Press and hold DW to enable or disable Dual Watch mode.
NOTE: DW cannot be enabled if the current channel is also the PRI channel.

MENU DW — Press and hold DW to enable or disable Dual Watch mode.

Channel SCAN 9

SCAN sequentially checks channels in the scan memory, indicated by **M**, for activity.
There are two scan memory groups, Open and Group.
- OS (Open SCAN)   Select any grouping of CH01 - CH80
- GS (Group SCAN)   Select any grouping of CH01 - CH80

GS can also scan with Priority Watch: GS + Priority CH Watch every 1.5s

OS (Open Scan) is the default setting, with all channels pre-added into its memory.
GS (Group Scan) memory, by default, is empty and requires adding channels into memory.
Change between OS, GS in the MENU.

SCAN MEM — Press **SCAN** to start or stop the channel scan.

To add or remove a channel from scan memory, press and hold **MEM**. The presence of the **M** icon indicates a channel is in memory for the indicated scan memory group.

TIP: For fast scanning of your favourite channels, keep the total number of channels in memory to under a dozen.

EXAMPLE of channels added into Group Scan memory (M)

```
GS:  M    M M M M M M M        M M M M M M M M          M M M M M    M M      M M      M
CH:  01 02 03 04 05 06 07 08 09 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32 33 34 35 36 37 38 39 40

GS:  M M M M M M M M    M M        M                    M M              M M M M
CH:  41 42 43 44 45 46 47 48 49 50 51 52 53 54 55 56 57 58 59 60 61 62 63 64 65 66 67 68 69 70 71 72 73 74 75 76 77 78 79 80
```
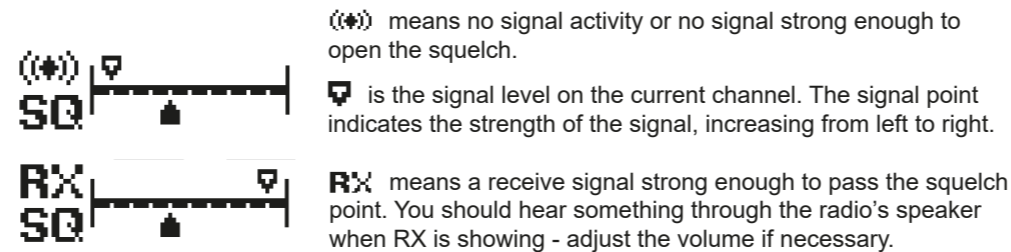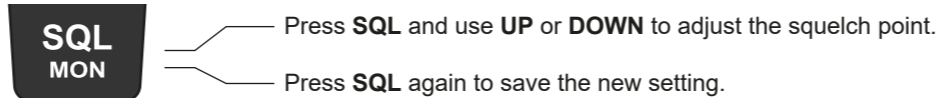
What's in the MENU? 10

MENU DW — Press **MENU** to open and step through the Menu list.
Press and hold **MENU** to save any setting change(s).

MENU ITEM	SETTING	DESCRIPTION
Duplex	On, Off	Available for CH 01-08 and CH 41-48
Scan Mode	OS, GS	Open Scan, Group Scan
GS Priority Watch	On, Off	Watch the Priority Channel during Group SCAN
Call Tone	01... 05	Select a tune for the Call Tone function
Busy Channel Lockout	On, Off	Prevents TX when CH is busy
Roger Beep	On, Off	Sign-off melody when PTT is released
B/Light Colour	Off, 01... 07	7 Backlight Colours
Brightness	Off, 01... 05	Backlight brightness, OFF, 01 (min)... 05 (max)
Key Beep	On, Off	Key Beep
NRC	On, Off	Noise Reduction Circuit (NC)
Speaker Select	Dual, Base, Mic	Speaker Selection
Simple Mode	On, Off	Enable/Disable Simple mode

Duplex Mode (Repeater) 8

The Duplex mode enables access to local repeater stations. UHF CB Repeaters are used to retransmit or relay your signal. Repeaters will extend the range of your radio and overcome the shielding effect caused by solid obstructions. NOTE: Only Channels 01-08 and 41-48 are available for Duplex mode. Turn Duplex on in the MENU. When Duplex is on for a repeater channel, the display shows **DUP**.

Example shows Duplex CH08 with repeater input CH38.

NOTE: When transmitting in Duplex mode, the radio transmits on the matching repeater input channel.

Additional Features 11

Noise Reduction Circuit

The built-in noise reduction circuit can reduce background noise so that the user speaking to the radio mic can clearly be heard. NOTE: background noise may always be present but suppressed enough that user voice is heard clearly.

The built-in noise reduction circuit can be enabled from the MENU.

NC will display in the active mode dislay when the feature is enabled.

Reset to Factory Default Settings

The radio can be reset back to factory settings as follows. Ensure the radio is first turned off.

Press and hold **PTT** and **PRI** while turning Power on.

For more details on features and operation of the EXG3000, visit the website for the online User Guide.

What's in the Box? 12

Items	EXG3000	EXG3000-TPK	EXG3000-4WD
EXG3000 UHF Radio	1	1	1
Quick Release Mounting Bracket	1	1	1
Magnetic Mic Hanger	1	1	1
12V DC Power Cord & Fuse	1	1	1
Set of Mounting Screws	1	1	1
2m Mic Extension Cabe & Adaptor	1	1	1
Antenna	-	1 (ATEBR660-2PK)	1 (ATRD230)
Z Bracket	-	1	1
User Guide	1	1	1

If any of these items are missing from the box, contact your place of purchase immediately.

UHF channels and frequencies
IMPORTANT NOTE: The operation of your UHF radio in Australia and New Zealand is subject to conditions in the following licenses:
In Australia the ACMA Radio communications (Citizen Band Radio Stations) and in New Zealand by MBIE the General User Radio License for Citizen Band Radio.

ECOXGEAR
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