'Use of the citizen band radio service is licensed in Australia by ACMA Raido communications (Citizen Band Radio Stations) Class Licence and in New Zealand by MED General User Radio Licence for Citizens Band Radio. Operation is subject to conditions contained in those licences.'
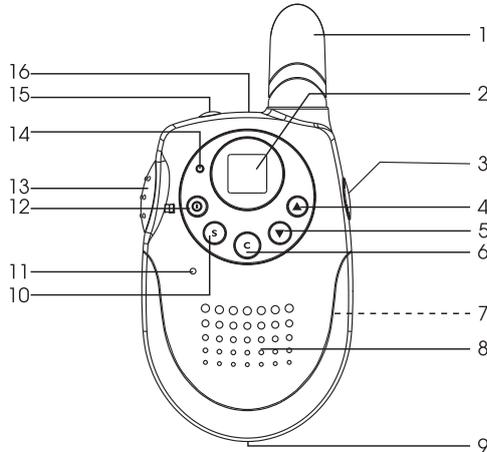

Communicator Controls

1. **Antenna**
2. **LCD Screen**: Displays current channel selection and other radio status symbols.
3. **Torch** ☼ button: Press and hold to turn on the torch.
4. **Up** ▲ button (VOLUME/CHANNEL): Press to adjust volume level and change channels.
5. **Down** ▼ button (VOLUME/CHANNEL): Press to adjust volume level and change channels.
6. **Call** C button: Press to transmit CALL TONES.
7. **Battery Compartment** (LOCATED ON THE REAR): Houses 3 x "AAA" alkaline or Ni-MH rechargeable batteries (not included).
8. **Speaker**
9. **Battery Compartment Cover Latch** (LOCATED ON THE REAR): Secures Battery Compartment cover.
10. **SCAN** S button: Press and hold 1 sec. for channel scanning. Press once to switch on/off repeater function.
11. **Mic**: Microphone.
12. **Menu/Power (On/Off)** ▯/◍ button: Press and hold the button to turn your unit ON/OFF. Allows you to change channels, select high/low power. Press to tune in and hold onto weak signals.
13. **PUSH TO TALK** PTT button: Press to transmit.
14. **TX** (Transmission) **LED indicator**: Illuminates red when transmitting. Lights up once every 15 seconds to show battery low.
15. **LED Torch**
16. **Belt Clip** (LOCATED ON THE REAR)

Getting Started

Carefully remove your communicator from its Packing. If there is any visible damage, do not attempt to operate this communicator. Return it to the place of purchase

Removing the BELT CLIP:
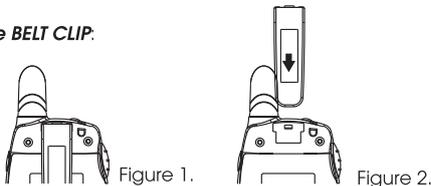
Figure 1.   Figure 2.

1. Pull the BELT CLIP LATCH away from the unit.
2. While pulling the BELT CLIP LATCH, push up on the BELT CLIP to remove it from the unit. See Figure 1.

Installing the Belt Clip:

1. Slide the BELT CLIP into the BELT CLIP SLOT. See Figure 2.
2. A "click" indicates the BELT CLIP is locked into position.

Battery Installation:
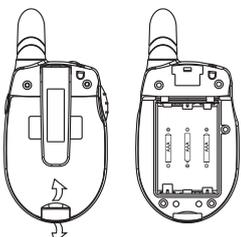
1. Release the BATTERY COMPARTMENT COVER LATCH located on the rear side of the unit (see Figure 3) and remove the BATTERY COMPARTMENT COVER from the BATTERY COMPARTMENT (See Figure 4).
2. Install 3x1.5V AAA alkaline batteries or Ni-MH rechargeable batteries (not included) as shown.
3. Reinstall the BATTERY COMPARTMENT COVER and lock the BATTERY COMPARTMENT COVER LATCH into position.

Figure 3.   Figure 4.

When the COMMUNICATOR is not being used, conserve battery power by pressing the ▯/◍ button to OFF. Remove the batteries if the unit will not be used for a long period of time.

LCD Screen:

RX Icon   Repeater Icon
TX Icon   Low Power Icon
                 Channel Number/Volume Level
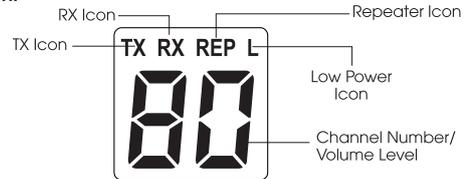
TX	Light on in Transmission mode
RX	Light on in Receiving mode
80	Volume Level/Channel Number changes from 1 to 80 as selected by user (channel 22,23,61,62&63 being inhibited).
L	Light on when low power is selected
REP	Light on when repeater function is switched on

Turning the Unit ON:
Press and hold the ▯/◍ button. The unit will "beep" with dual tone and the LCD SCREEN will briefly display a SELF-TEST Screen.

Turning the Unit OFF:
Press and hold the ▯/◍ button. The unit will "beep" with a signal tone and the LCD Screen will turn blank.

Adjusting Speaker Volume:
1. Press the Up ▲ button to increase the Speaker Volume.
2. Press the Down ▼ button to decrease the Speaker Volume.
3. The Speaker Volume level is indicated by the number 1 to 8 displayed on the LCD Screen.

Receiving a Signal:
The unit is continuously in the RECEIVE mode when the unit is ON and not Transmitting. When you receive a signal on the current channel, the **RX** icon is displayed. (See "LCD SCREEN" for details) and red LED indicator lights up.

Transmitting a Signal:
1. Check the channel activity by using MONITOR function (See below "**MONITOR**" section). You'll hear static if the channel is unoccupied. Don't TRANSMIT if someone is talking on the channel. Press and hold the **PTT** button to TRANSMIT. The **TX** LED Indicator will light up in red. Hold the unit in a vertical position with the MICROPHONE 2 to 3 inches from the mouth.
2. While holding the **PTT** button, speak into the unit using a normal tone of voice.
3. Release the **PTT** button when you have finished transmitting.

NOTE: In order for other people to receive your transmission, they must also be on the same channel you are currently using. Refer to the "Changing Channels" section for more information.

Operation
The unit has 75 channels (Channel 1-80 with channel 22,23,61,62&63 prohibited for voice transmitting). You can communicate with any other PMR that is using the same channel.
In Australia,
1. Except in an emergency, the unit must not be operated on channel 5 and 35;
2. Channel 11 is the customary calling channel for establishing communication;
3. Channel 40 is the customary road vehicle channel.

Changing Channels:
The factory default start up channel is channel 1.
Before selecting a channel for communication, always listen on it and ensure it is not already being used. Always avoid selecting a busy channel when the unit keeps on receiving signal (the **RX** icon is displayed) from unknown party. To change channels:
1. Press the ▯/◍ button until the current channel number flashes on the LCD Screen.
2. While the channel number is flashing:
   • Press the Up ▲ button to move to a higher channel.
   • Press the Down ▼ button to move to a lower channel.
   • The channel changes from 1 to 80, or from 80 to 1. (channel 22,23,61,62&63 being inhibited).
3. Press the **PTT** button to confirm the selected channel and return to the NORMAL mode.
   NOTE: Refer to the "Channel Table" section of this Owner's Manual for detailed frequency listings.

High/Low power selection:
1. Press ▯/◍ twice to enters to High/Low power page.
2. Press ▲/▼ button to select the power level. The LCD panel indicate "L" when low power is selected. Low power can extend the life of battery life but would reduce the talking range.

Monitor:
You can use the MONITOR feature to check for weak signals in the current channel.
1. Press the ▯/◍ button 3 times to activate this function.
2. Press again the ▯/◍ button to deactivate the function.

DIGITECH

This product is made to the new standard 2011 version.

There are possible operational issues during the changeover from the old version 25kHz to the new version of 12.5kHz channel spacing. They include the consequences of narrowband (with 2.5kHz deviation) transmissions being received on the old wideband equipment, and wideband (with 5.0kHz deviation) transmissions being received on newer narrowband equipment.

There is a possibility of interference due to the older equipment being operated on channels adjacent to new narrowband channels.

The list of currently authorised channels can be obtained from the ACMA website in Australia and the MED website in New Zealand.

Using the Torch:
Press and hold the Torch button to shine the torch. The torch works even when the unit is switched off.

Automatic Power Save Feature:
After 6 seconds for the last operation, the PMR enters to the power saving mode automatically. The life of the batteries would be extended. The PMR is still able to receive transmission in this mode.

Low Battery Alert:
When the batteries in the unit are low, an alert tone will be heard and red LED will light up once every 15 seconds. Replace new batteries immediately.

Channel Scan:
CHANNEL SCAN performs searches for active signals in an endless loop from 1 to 80 (channel 22, 23, 61, 62 & 63 being inhibited).
1. Press and hold SCAN S button for 1 second to turn on scan function. The channel number on the LCD Screen changes rapidly until an active signal is detected.
   During CHANNEL SCAN mode.
   - Press and hold PTT button you can talk to others who use same channel.
   - Press the C button to change to CALL function and to send a CALL TONE on that active channel.
   - Press and hold SCAN S button again for 1 second to deactivate CHANNEL SCAN mode.
2. When an active signal (one of 80 channels) is detected. CHANNEL SCAN pauses, keeping the active signal broadcasted.
3. Press the PTT button to communicate through the active signal channel and CHANNEL SCAN is deactivated.
4. When an active signal (one of 80 channels) is detected, but another channel is desired, press the Up ▲ or Down ▼ button to bypass the current channel and continue to search for another active channel.

Repeater Function
Repeater facility is a third party facility which is only available in some local areas. Only use this function for extending your communication range when you know the channel of the repeater facility in your local area.
Press S button once to switch on/off Repeater function.

Sending Call Tones
You can use CALL TONES to alert the other when you are attempting to contact them. You can also use CALL TONES to signal the beginning or the end of a transmission.
Call tone can only be transmitted once (not more than 3 sec) in any 60 sec period. It means that the unit will not transmit a call tone more than once no matter how many times you press the 'Call' (6) button within a minute.
1. Press the C button twice shortly, the red TX LED indicater will light up and the CALL TONE continues for 3 seconds.
2. Release the C button, your CALL TONES will transmit to nearby receivers set to the same channel.

Time-out Timer
The unit will disable transmitting while the PTT button pressed exceed 180 seconds.
Press the PTT button again to re-activate transmitting.

Troubleshooting

SYMPTOM	SOLUTION
No power.	• Check batteries. Ensure that the batteries are installed properly. • The batteries may be weak. • Replace old batteries with three (3) new "AAA" alkaline batteries or Ni-MH rechargeable batteries.
Reception is weak.	• Press the Up ▲ button to increase VOLUME. • The receiving signal may be weak and/or out of range. • If this happens, use the MONITOR function.
Cannot change channels.	• To change channels, press the ☐/① button until the channel number flashes on the LCD Screen. • Press the Up ▲ or Down ▼ buttons to change channels. • Batteries may be weak.
Range is limited.	• BATTERIES may be weak. • Replace with new batteries if there is low battery alert tone. • The maximum range will vary depending on terrain and environment. • Open fields provide the maximum range, while steel/concrete structures, heavy foliage and use in buildings and in vehicles may limit the range significantly. • Wearing the radio close to the body, such as in a pocket or on a belt, will decrease range; change the location of the radio.
Sound distortion problems.	• If you are transmitting, speak in a normal tone of voice, 2 to 3 inches away from the MICROPHONE. • If you are receiving, lower the volume to a comfortable level. • Radios too close. Radios must be at least 5 feet apart; increase your distance. • Radios too far apart. Obstacles interfere with transmission. Talk range is up to 3 Km in clear unobstructed conditions.

Specifications:

Channels Available	80 Channels
Output Power (TX)	0.5W
Battery Life	30 Hours (typical)
Range	Up to 3 Km

CHANNEL TABLE		CHANNEL TABLE		CHANNEL TABLE	
Channel Number	Frequency (MHZ)	Channel Number	Frequency (MHZ)	Channel Number	Frequency (MHZ)
1*	476.4250	28	477.1000	55	476.7875
2*	476.4500	29	477.1250	56	476.8125
3*	476.4750	30	477.1500	57	476.8375
4*	476.5000	31*	477.1750	58	476.8625
5*	476.5250	32*	477.2000	59	476.8875
6*	476.5500	33*	477.2250	60	476.9125
7*	476.5750	34*	477.2500	61++	–
8*	476.6000	35*	477.2750	62++	–
9	476.6250	36*	477.3000	63++	–
10	476.6500	37*	477.3250	64	477.0125
11	476.6750	38*	477.3500	65	477.0375
12	476.7000	39	477.3750	66	477.0625
13	476.7250	40	477.4000	67	477.0875
14	476.7500	41*	476.4375	68	477.1125
15	476.7750	42*	476.4625	69	477.1375
16	476.8000	43*	476.4875	70	477.1625
17	476.8250	44*	476.5125	71*	477.1875
18	476.8500	45*	476.5375	72*	477.2125
19	476.8750	46*	476.5625	73*	477.2375
20	476.9000	47*	476.5875	74*	477.2625
21	476.9250	48*	476.6125	75*	477.2875
22+	476.9500	49	476.6375	76*	477.3125
23+	476.9750	50	476.6625	77*	477.3375
24	477.0000	51	476.6875	78*	477.3625
25	477.0250	52	476.7125	79	477.3875
26	477.0500	53	476.7375	80	477.4125
27	477.0750	54	476.7625		

* Channel 5 and 35 are for emergency calling. Please do not use these channels in non-emergency cases.
+ Speech telephony is inhibited on Channel 22 and 23.
* Channel 1-8 and 31-38, 41-48 and 71-78 are used as repeater channels with 750kHz offset. Channels 1-8 and 41-48 are used for mobile reception and channels 31-38 and 71-78 for mobile transmission.
Only use this repeater function when a long distance communication via the local repeater facility is specifically required. Unless it is necessary, avoid operation on locally used repeater input channels (channels 31 to 38 and channels 71 to 78) or locally used repeater receiving channels (channels 1 to 8 and channels 41 to 48) is recommended.
++ Channel 61, 62 and 63 are reserved for future use. They cannot be activated until approved by the ACMA CBRS Class Licence in Australia.

NOTE: The maximum transmission range will vary depending on terrain and environment.

To Charge The COMMUNICATOR

The COMMUNICATOR units must be used with orignal Charger Pod and AC -DC Adaptor (optional).
* AC -DC Adaptor: input 240 VAC 50Hz - Output 6V DC 200mA.
1. Turn the unit OFF (Do not turn ON the unit during Battery Charge Mode).
2. Install 3.6V "AAA" Ni-MH Rechargeable Battery Pack into the battery compartment of unit.
3. Connect the lead of the AC-DC adaptor to the socket at the back of the charger pod (make sure the lead has been fully inserted into the jack with some force). Connect the AC-DC adaptor to the mains power supply.
4. Place the unit into the Charger Base.
5. The LED Indicators on the Charger Base will turn RED once electricity get connected.
6. Unplug the Adaptor. Turn the unit ON.

NOTE: 1. LED Indicators on the charger base will NOT turn OFF automatically, except take out the unit from the charger base and disconnect the electricity.
2. It takes approximately 6 hours to fully charge the battery pack if they are at their lowest level or takes around 14 hours to fully charge the new battery pack.
3. In case LED Indicators on the Charger Base do not turn RED with units placed inside, please double check if units being put in proper position, or change battery pack and retry the recharge process.

WARNING:
DO NOT attempt to charge any type of regular Alkaline batteries in this PMR. Only use the orignal AC-DC Adaptor with the supplied battery pack (optional).