DORO
design on speaking terms

Manual

pmr 510
2-way UHF personal communicator
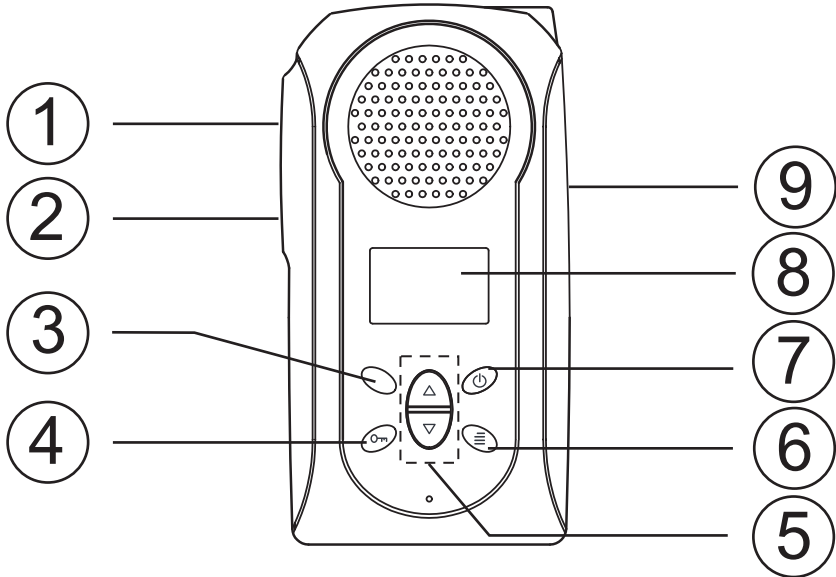
1	PTT button (Push To Talk)	6	Menu button
2	Monitor button	7	On/Off button
3	Search button	8	Display
4	Channel lock button	9	Headset socket
5	Scroll buttons		
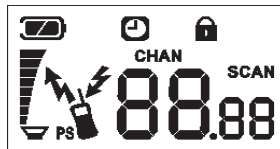
Indicator	Function
🔋	Battery charge indicator.
⏰	Automatic shutdown.
🔒	Channel lock.
▌	Volume control.
PS	Power saving/Stand-by mode.
	Sending messages/talk.
⚡	Incoming signals/Channel busy.
CHAN 18	Shows the selected channel/Repeater mode.
SCAN	Signal search.

Setting Up

Unpacking

The package should include the following items:
- 2 handsets with belt clips
- 8 alkaline batteries
- This manual
- Guarantee Card

Please Note!
An optional Accessory Pack is available (pmr a-pack) that contains:
- 2 Ni-MH rechargeable battery packs,
- A twin handset charger and mains adapter,
- 2 headsets,
- 2 carry cases.

Approved usage

This product can be freely used in Australia and New Zealand without a license. The handsets are made from durable plastic for indoor and outdoor use, however, they are not resistant to rain, fluid ingress, abuse or any careless treatment.

Batteries

Each unit requires four AAA 1.5V alkaline batteries to function (included). The battery symbol in the display indicates when it is time to change the batteries. The battery symbol has two segments, which disappear as the battery charge decreases. When the batteries are almost fully discharged the battery symbol flashes and a warning tone is emitted, the batteries should be changed as soon as possible. Good quality alkaline batteries will allow approximately 4 hours talk time or 100 hours of stand-by time.

1. Remove the belt clip if fitted (see below).
2. Remove the battery cover by pressing on the indentation markings, and pushing out (away from aerial).
3. Insert the batteries ensuring correct polarity is observed.
4. Replace the battery cover.

Setting Up

Belt clips

A belt clip is included, which can be fitted on the back of the handset once the batteries have been installed. The belt clip allows the handset to be attached to a belt, waistband or similar.

To remove, lift the small tab at the top of the clip and simultaneously push upwards.

Range

The communication range is dependent on many factors, with the maximum range being achieved when there are no obstacles in the transmission path (line of sight). Under optimum conditions the maximum range can be up to 5km.

There will be a reduction in the range when the units are used in built up areas, undulating terrains and vehicles.

Headset

The handset can be used with the headset supplied in the optional Accessory Pack (pmr a-pack) which can be purchased from your local DORO retailer. When the headset is connected, the microphone and speaker on the handset are automatically disconnected, all other functions remain unchanged.

Please note!
Use only DORO original headsets with these PMR units.
Adjust the Call signal and headset volume immediately upon connecting a headset, as these settings may initially be too loud.

Turning the handset On/Off

To turn the handset On or Off press and hold the ⏻ button (1-2 seconds) until a tune is heard.

Operation

Channel Selection

This product can operate on the available 40 channels for UHF CB use in Australia and New Zealand, refer to the channel/frequency allocation table on page 7.

If the selected channel is being used by other persons an alternate channel can be selected, the channel number will be displayed in the stand-by mode.

1. Press the ≡ button until **CHAN** flashes in the display.

2. Scroll to the desired channel using the △/▽ buttons.

3. Press the **PTT** (Push to Talk) button to save the settings.

Please note!
Speech telephony is not permitted on channels 22 and 23 and if selected an error tone will be heard when the PTT button is pressed. No communication will occur on these channels.

Repeater Operation

In addition to the standard operating channels 1 to 40 there are an additional 8 settings that can be selected. When selected, by following the procedure above, the display will show the channel number, 1 to 8 plus **du** indicating the handset is in the repeater mode.

This mode allows the handset to operate via a local repeater thereby increasing the communication range. It does this by linking channels 1 - 8 to channels 31 - 38 respectively.

When the handset is set to channel **1du** it will transmit on channel 31 and receive on channel 1.

For more information on the CB repeater network contact the local ACA office in your capitol city, or the local MED office in New Zealand.

Channel lock

The controls can be locked can be locked to prevent accidental operation of the buttons. Only the **PTT** and △/▽ buttons function with the handset locked.

1. Press and hold the O━ button until the display shows the lock symbol and a beep tone is heard.

2. Unlock by pressing and holding the O━ button, a beep will be heard and the lock symbol will disappear from the display.

Operation

Communication between the handsets

1. Ensure that you use the same channel, e.g. 1.
2. Hold the handset approximately 10 cm in front of you at face height.
3. Press and hold the **PTT** button, wait a second and then speak clearly towards the handset. Release the button when you have finished speaking.
4. The handset is now ready to receive.
5. If nobody answers, try sending a **CALL** signal by pressing and holding the **PTT** and △ buttons simultaneously.
6. The handset will automatically revert to stand-by mode (**PS** flashes in display) when you release the **PTT** button.

Please note!
If the handsets are unable to communicate this may be due to different channels being selected, low batteries or if handsets are out of range.

Volume control

The receive volume can be adjusted by using the △/▽ buttons. The display will show the selected setting **VOL**.

Monitor function

The handset will usually receive all calls on the selected channel.
If the signal is weak (ie the handsets at maximum range), the monitor may be used to listen for any transmission within range on the selected channel.

1. Press and hold the **MON** button until you hear a beep.
2. To disable the monitor function press and hold the **MON** button again.

Signal search

You can scan all channels to locate a PMR unit that has a signal.
If a signal is located, the display will show the channel number and the signal will be heard. Press the **PTT** button to remain on the located channel.

1. Press and hold the ⁕ button until the unit starts searching.
2. Press and hold the ⁕ button again to stop searching.

When searching battery power consumption will be four times higher than in stand-by mode

Operation

Type of CALL signal

You can select different handset Call signals.

1. Press the ☰ button repeatedly until ⌶ flashes in the display and a signal is heard.
2. Scroll to the desired setting using the △/▽ buttons.
3. Press the **PTT** button to confirm selected signal.

Automatic shutdown

You can select automatic shutdown to conserve battery power.
If no button is pressed within the set time period (hours) the handset will switch off. A warning tone will be heard approximately 1 minute before this happens.

1. Press the ☰ button repeatedly until �Hⵕ is displayed.
2. Scroll to the desired setting using the △/▽ buttons. (⎓ Hⵕ=function disabled).
3. Press the **PTT** button.
4. The 🕗 indicator will be displayed and the function will be active.

Operating Channels and Frequencies

Channel	MHz	Channel	MHz	Channel	MHz
1 *.............	476.425	15................	476.775	29	477.125
2 *.............	476.450	16................	476.800	30	477.150
3 *.............	476.475	17	476.825	31 *.............	477.175
4 *.............	476.500	18................	476.850	32 *.............	477.200
5 **	476.525	19................	476.875	33 *.............	477.225
6 *.............	476.550	20................	476.900	34 *	477.250
7 *.............	476.575	21................	476.925	35 **	477.275
8 *.............	476.600	22 !	476.950	36 *	477.300
9	476.625	23 !.............	476.975	37 *.............	477.325
10	476.650	24................	477.000	38 *.............	477.350
11	476.675	25................	477.025	39	477.375
12	476.700	26................	477.050	40	477.400
13	476.725	27................	477.075		
14	476.750	28................	477.100		

* These channels are the repeater access channels (**du** mode).

** Designated emergency channels.

! Speech telephony is not permitted on these channels.

Other

Troubleshooting

The handset will not turn on

- Check the batteries are installed correctly.
- Ensure the batteries are in good condition and/or are fully charged.

Cannot change channel or volume setting

- Ensure the Channel Lock function is not active.

Reduced operating range

- Batteries may be failing, replace or recharge batteries if the indicator shows low.
- Operating in built up areas or undulating terrain? Line of sight/flat open environment provides for maximum range.

No or Weak reception

- Are both handsets set to the same channel?
- Reduce the distance between the handsets.
- Increase the receive volume.
- Activate the monitor function.

Sound is distorted

- Speak clearly towards the handset from a distance of 10cm.
- Adjust the receive volume to a comfortable level.
- Check the battery charge level.

Other

Australia and New Zealand

If you believe this product is malfunctioning, please refer to the relevant section and/or consult the troubleshooting guide in this manual to ensure that you have followed the instructions carefully. As an alternative you can visit our web site for FAQ's or send an e-mail for a prompt reply.

Guarantee

This product is guaranteed for a period of 12 months from the date of purchase. Should you experience difficulties with the product, please contact us for assistance. If the product is then found to be faulty you will be asked to return it directly to us with a copy of the purchase receipt.

This guarantee shall not apply to a fault caused by an accident or a similar incident or damage, liquid ingress, negligence, abnormal usage or any other circumstances on the purchaser's part. This guarantee does not affect your statutory rights.

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