

NEXTECH



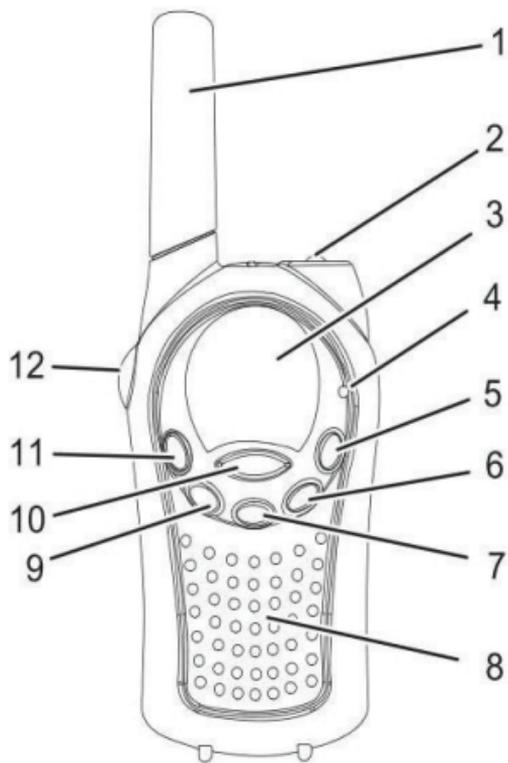
0.5W UHF Transceivers
DC1104
User Manual

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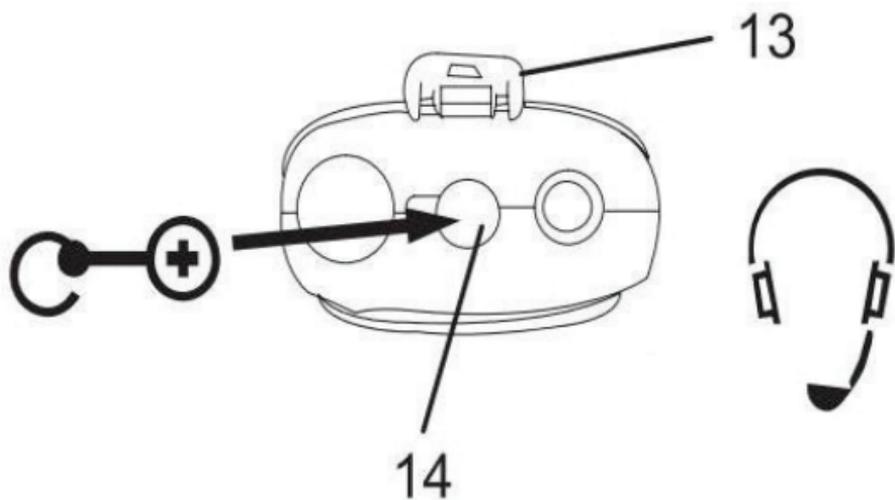
This lightweight hand-held transceiver is suitable for all manner of recreational and professional activities such as building sites, IT-cablers, electricians, inter-car road trip communication or keeping in touch with the kids while they play. Open field transmission range is up to 6km, with typical city range up to 1km. It runs off 3 x AAA batteries, and has features you usually only find in more expensive models, including VOX hands free, monitor, call tones, roger beep, backlit display, headset connection, and CTCSS sub-channels. There is also an LED torch built into the top in case you're stuck in the dark. Thanks to the auto-battery saving feature, the batteries won't go flat in case you forget to turn it off.

Specific Recommendations:

- To avoid the risk of burns, do not use the device if the aerial is damaged in any way.
- Do not use the device in a potentially explosive setting (e.g. Around pumps, on the lower deck of a boat or around a fuel-storage installation or chemical products) If traveling in a car or by bike, stop before using the device.
- Switch off the device if on an airplane or in a hospital,
- Never use the device in close proximity to a radio to avoid interference.
- Remove the batteries if the device is not going to be used for an extended period of time. Never mix used with new batteries.
- Position the transmitter and antenna at least 5cm from your face. Direct the antenna upwards and speak normally.
- Clean the device with a damp cloth. Avoid the use of cleaning agents and solvents.
- Do not modify the device in any way. In the event of damage occurring, ensure that the device is checked by a qualified professional. The device cannot be used to contact the emergency services.



-  15
-  16
-  17
- SCAN** 18
-  19
-  20
- 8** 21
- 88** 22
- VOX** 23



Key Functions:

1. Antenna
2. Lamp
3. LCD
4. Microphone
5. Lamp Button
6. Down Button
7. Call Button
8. Speaker
9. Up Button
10. Menu Button
11. Power ON/OFF Button
12. PTT (Push to Talk) Button
13. Belt Clip
14. Charger/Headset Jack
15. Receiving Icon
16. Transmitting
17. Volume Icon
18. Scan Icon
19. Lock Icon
20. Battery Level Indicator
21. Channel Number
22. CTCSS Number
23. Vox Selection

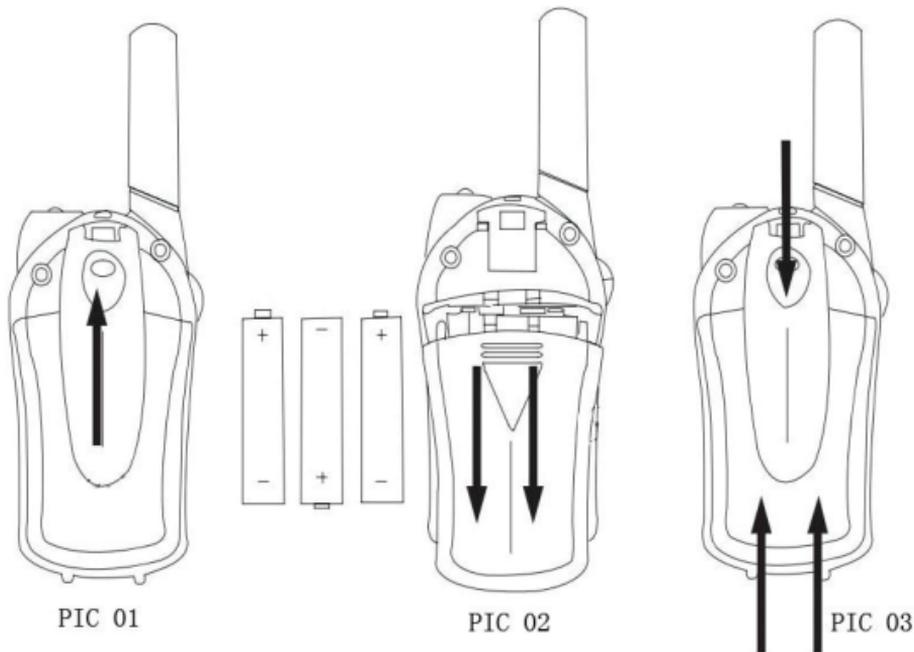
Before Using the Device:

Removing the belt clip:

Before insert batteries into the device, first pull the belt clip latch away from the device (See PIC01).

Installing the Batteries:

1. Slide down the battery compartment cover (See PIC02).
2. Insert 3 x AAA Alkaline (Not included)
3. Position the batteries according to the polarity making on the battery compartment.
4. After placing batteries into correct positions, replace the battery cover (See PIC03).



PIC 01

PIC 02

PIC 03

Using the Device:

1. Turning the Device ON/OFF

Switch on the Device: Press and hold the Power Button for 3 seconds then you will hear a beep sound.

Switch off the device: press and hold the Power Button for 3 seconds then you will hear a beep sound.

2. Adjusting the Volume

To increase the volume, press the ▲ Up Button; press the ▼ Down Button to decrease the volume.

3. Low Battery Indication

The device can detect low battery level. When battery voltage is low, the battery icon will flash and a beep will be heard to indicate that the batteries need to be replaced.

4. Receiving/Transmitting Communications:

The device is in "Reception" mode when it is turned ON and not transmitting. When a signal is received on the current channel, the LCD will display receiving icon.

When you press the PTT (push to talk) button, the device switches to "Transmission" mode.

Hold the device in a vertical position with the Mic (microphone) 3-5cm away from your mouth. While holding the PTT button, speak into the microphone in a normal tone of voice. Release the PTT button when you have finished transmitting. For others to receive your transmission, they must be on the same channel with you.

Note:

1. The maximum talking range is up to 6Km, this will depend on your surroundings and environment. It can be affected by obstructions such as hills or buildings.
2. Don't try to use two devices which are less than 1.5m (5 feet) apart. Otherwise, you may experience interference.

5. Changing Channels:

Press the MENU button once, the channel number will Flash on the display.

Press the up ▲ /down ▼ button to change the channel. Press the PTT button to confirm and return to stand-by mode.

Note:

If no button is pressed within 15 seconds during setting, the device will return to stand-by mode.

6. CTCSS (Continues Tone Coded Squelch System):

Press the MENU button twice, the current CTCSS code will flash on the display. Press the up ▲ /down ▼ button to change the 38 available codes. Press the PTT button to confirm and return to stand-by mode. This license free radio operates on the 476MHZ frequency band; the device has 80 available radio channels. If there are any device users near you, there is a chance that some of the users are operating on the same radio channel. To prevent you receiving signals from other users, sub-channels have been integrated. When using CTCSS, a low frequency tone (between 67-250Hz) will be transmitted along with the voice signal. There are 38 available tones to choose form. You are free to choose one of the 38 available sub-channels. Due to filtering, these sub-channels will generally not be audible so they will not disturb the communication.

7. VOX (Hands free function):

Press the MENU button three times, the current VOX setting will flash on the display and the VOX icon will display, Press UP ▲ button to set the VOX sensitivity level between 1 and 3 level (level 3 is the high sensitive level). Press down ▼ button until "OF" appears on the display to turn VOX OFF. Press the PTT button to confirm and return to stand-by mode. In VOX mode, the radio will transmit a signal when it is activated by your voice or other sound around you. VOX Operation is not recommended if you plan to use your device in a noisy or windy environment.

Note:

VOX mode will be over ridden when you press the PTT button.

8. Scanning for an active radio channel:

Press and hold the UP ▲ button for 2 seconds: The "SCAN" function indicator will appear on the display and the channel will scan continuously. Once an active channel is found, the scanning will stop and you can listen to the transmission. When the transmission has stopped on that channel, the scan function will resume automatically.

Note:

If you press the PTT button while listening to a found channel, the device will go back to stand-by mode on the found channel.

9. Monitor:

Press and hold the DOWN ▼ button about 3 seconds to activate monitor. Release the DOWN ▼ button to return to standby mode.

10. Setting the Call tones:

The device has 10 call tones. Press the MENU button 4 times, "CA" is displayed and on the current call tone. Press the UP ▲ /Down ▼ button to change to another call tone. Press the PTT button to confirm and return to stand-by mode.

11. Sending a call tone:

Press the call button one time quickly, the call tone will be transmitted on the set channel.

12. Roger Beep On/Off:

After the PTT button is released, the device will send out a roger beep to confirm that you have stopped talking. Press the MENU button 6 times, "RO" will be displayed. Press the UP ▲ /Down ▼ button to set the roger beep ON/OFF. Press The PTT button to confirm your selection and return to the stand-by mode.

13. Backlit Display:

Press any button except for the MENU button to activate the back light of the LCD display. The back light will light on approx. 5 seconds.

14. Headset Connection:

The device can be used with an authorised headset. The connector is located on the top of the device. Insert the earpiece plug into the connector (2.5mm jack). There is a small "PTT" button on the earpiece that has the same function as the PTT button on the device. When you use the PTT button from the earpiece, you must also use the microphone from the earpiece to talk.

Note:

Do not connect an un-authorized headset, this may damage your device.

15. Battery Saving Function

When the device has not been used for 6 seconds, economy mode is automatically activated. This does not affect the reception or transmission of the radio. Standby mode is automatically re-activated as soon as a signal is detected.

16. Built-in Flash Light

Your device has a built-in flash light that can be used for sending light signals or for other lighting needs.

17. Lock & Unlock the Device

Press and hold the MENU button for 3 seconds to lock the device. The button lock icon is displayed on the LCD screen. Press and hold MENU button for 3 seconds to unlock the device.

18. Technical Specifications

| | |
|---------------------|---------------------------------|
| Frequency: | 476MHz |
| Output Power: | 0.5W |
| Channels: | 80 |
| CTCSS Sub-Channels: | 38 |
| Talking Range: | 6km (In the Open) |
| Call Tones: | 10 |
| Batteries: | Requires 3 x AAA (Not Included) |
| Weight: | 60g (Excluding Batteries) |
| Dimensions: | 130(L) x 48(W) x 36(D)mm |

| Channel | Frequency | Use |
|----------------|------------------|--|
| Channel 1 | 476.4250 | Duplex - Repeater Output |
| Channel 2 | 476.4500 | Duplex - Repeater Output |
| Channel 3 | 476.4750 | Duplex - Repeater Output |
| Channel 4 | 476.5000 | Duplex - Repeater Output |
| Channel 5 | 476.5250 | Duplex - Repeater Output (Emergency use only) |
| Channel 6 | 476.5500 | Duplex - Repeater Output |
| Channel 7 | 476.5750 | Duplex - Repeater Output |
| Channel 8 | 476.6000 | Duplex - Repeater Output |
| Channel 9 | 476.6250 | Simplex |
| Channel 10 | 476.6500 | Simplex 4WD Drivers - Convoy, Clubs & National Parks |
| Channel 11 | 476.6750 | Simplex Call Channel |
| Channel 12 | 476.7000 | Simplex |
| Channel 13 | 476.7250 | Simplex |
| Channel 14 | 476.7500 | Simplex |
| Channel 15 | 476.7750 | Simplex |
| Channel 16 | 476.8000 | Simplex |
| Channel 17 | 476.8250 | Simplex |
| Channel 18 | 476.8500 | Simplex Caravan & Campers Convoy Channel |
| Channel 19 | 476.8750 | Simplex |
| Channel 20 | 476.9000 | Simplex |
| Channel 21 | 476.9250 | Simplex |
| Channel 22 | 476.9500 | Data Only (No Voice - No Packet) |
| Channel 23 | 476.9750 | Data Only (No Voice - No Packet) |
| Channel 24 | 477.0000 | Simplex |
| Channel 25 | 477.0250 | Simplex |
| Channel 26 | 477.0500 | Simplex |
| Channel 27 | 477.0750 | Simplex |
| Channel 28 | 477.1000 | Simplex |
| Channel 29 | 477.1250 | Simplex Pacific Hwy (NSW) & Bruce Hwy (Qld) Road Channel |
| Channel 30 | 477.1500 | Simplex UHF CB Broadcasts |
| Channel 31 | 477.1750 | Repeater Input |
| Channel 32 | 477.2000 | Repeater Input |
| Channel 33 | 477.2250 | Repeater Input |
| Channel 34 | 477.2500 | Repeater Input |

| | | |
|------------|----------|-------------------------------------|
| Channel 35 | 477.2750 | Repeater Input (Emergency Use Only) |
| Channel 36 | 477.3000 | Repeater Input |
| Channel 37 | 477.3250 | Repeater Input |
| Channel 38 | 477.3500 | Repeater Input |
| Channel 39 | 477.3750 | Simplex |
| Channel 40 | 477.4000 | Simplex Highway Channel |
| Channel 41 | 476.4375 | Duplex - Repeater Output |
| Channel 42 | 476.4625 | Duplex - Repeater Output |
| Channel 43 | 476.4875 | Duplex - Repeater Output |
| Channel 44 | 476.5125 | Duplex - Repeater Output |
| Channel 45 | 476.5375 | Duplex - Repeater Output |
| Channel 46 | 476.5625 | Duplex - Repeater Output |
| Channel 47 | 476.5875 | Duplex - Repeater Output |
| Channel 48 | 476.6125 | Duplex - Repeater Output |
| Channel 49 | 476.6375 | Simplex |
| Channel 50 | 476.6625 | Simplex |
| Channel 51 | 476.6875 | Simplex |
| Channel 52 | 476.7125 | Simplex |
| Channel 53 | 476.7375 | Simplex |
| Channel 54 | 476.7625 | Simplex |
| Channel 55 | 476.7875 | Simplex |
| Channel 56 | 476.8125 | Simplex |
| Channel 57 | 476.8375 | Simplex |
| Channel 58 | 476.8625 | Simplex |
| Channel 59 | 476.8875 | Simplex |
| Channel 60 | 476.9125 | Simplex |
| Channel 61 | | Reserved for Future Expansion |
| Channel 62 | | Reserved for Future Expansion |
| Channel 63 | | Reserved for Future Expansion |
| Channel 64 | 477.0125 | Simplex |
| Channel 65 | 477.0375 | Simplex |
| Channel 66 | 477.0625 | Simplex |
| Channel 67 | 477.0875 | Simplex |
| Channel 68 | 477.1125 | Simplex |
| Channel 69 | 477.1375 | Simplex |
| Channel 70 | 477.1625 | Simplex |

| | | |
|------------|----------|----------------|
| Channel 71 | 477.1875 | Repeater Input |
| Channel 72 | 477.2125 | Repeater Input |
| Channel 73 | 477.2375 | Repeater Input |
| Channel 74 | 477.2625 | Repeater Input |
| Channel 75 | 477.2875 | Repeater Input |
| Channel 76 | 477.3125 | Repeater Input |
| Channel 77 | 477.3375 | Repeater Input |
| Channel 78 | 477.3625 | Repeater Input |
| Channel 79 | 477.3875 | Simplex |
| Channel 80 | 477.4125 | Simplex |

UHF CB radio - What you need to know

A few things to note about channel allocation. Channels 5 & 35 are reserved for emergency only, and misuse of these channels carries hefty fines or jail time. Besides these, the truckies use channel 40, 18 is the caravan and campers channel. Channels 1-8 and 31-38 are for repeater use, the latest standard states that 41 – 48 and 71 -78 may also become available for repeater operation to supplement the other repeater channels. Presently speech telephony is inhibited on channels 22 and 23 (i.e. data only). Channels 61, 62, and 63 are currently not activated on all UHF units until approved by the ACMA at some time in the future.

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