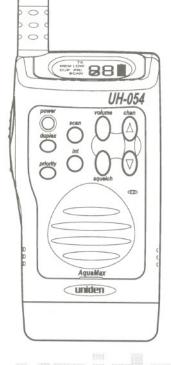
# uniden *UH-054A/ UH-054L*

Ultra Light Weight Two Way Radio



**Operating Guide** 

UTZZ01870ZA

## Warning!

- The **UH054A** is waterproof only when both the antenna and the battery are properly attached.
- The **UH054L** is a standard NON water proof wearable radio only.
- Do not operate the transmitter of any radio equipment unless all the Radio Frequency (RF) connectors are secure and any open connectors are properly terminated.
- Do not operate the transmitter of any radio equipment near electrical blasting caps or in an explosive atmosphere.
- Do not let children operate any transmitter-equipped radio equipment.
- Have your radio equipment serviced by a qualified technician.
- Do not operate the transmitter of any radio equipment with the antenna touching or close to the eyes, face, or exposed body parts.

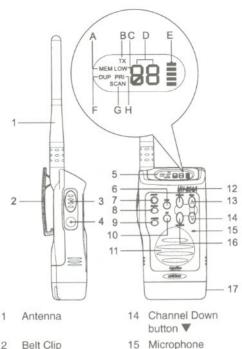
#### Nickel-Cadmium Battery Pack Warning

- This equipment contains a Nickel-Cadmium Battery Pack.
- The Nickel-Cadmium Battery Pack contained in this equipment may explode if disposed of in a fire.
- Do not short-circuit the Battery Pack.
- Do not charge the Nickel-Cadmium
  Battery Pack used in this equipment in
  any charger other than the one designed
  to charge this Battery Pack. Using
  another charger may damage the Battery
  Pack or cause the Battery Pack to
  explode.
- Nickel-Cadmium batteries must be disposed of properly.



The exclamation point within an equilateral triangle is intended to alert the user to the presence of important operating and maintenance(servicing) instructions in the literature accompanying the appliance.

#### Controls and Indicators



- 1
- PTT (Push to Talk) 3
- Key 4 HI/LO/LOCK Key
- LCD Display 5
- Scan button 6
- 7 Power button
- 8 Duplex button
- Priority button 9
- Memory button 10
- Speaker 11
- 12 Volume button
- 13 Channel Up button A

- 16 Squelch button
  - 17 Battery
  - MEM Indicator A
  - В Transmit Indicator
  - C **RF** Power Level Indicator
  - Channel Number D Display
  - Battery Level E Indicator
  - F **Duplex Indicator**
  - Scan Indicator G
  - Priority Indicator H

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#### Introduction

The **UH-054** is a portable two-way UHF transceiver. It is compact, lightweight, and rugged and fits easily in your hand. This hand held UHF CB Radio will give you the consistent, outstanding performance in virtually all conditions and situations.

The UH-054 radio is available in two versions:

 A Wearable and Waterproof UH-054A\*
 AquaMax Radio.

Or

A Wearable UH-054L LandMax Radio (non-waterproof)

To ensure that you get the most from the **UH-054** features, please read this operating guide carefully before using the unit.

\*Up to a depth of 30 cm for 30 minutes.

#### **Features**

- Dual Watch Mode
- Two level selectable RF power output
- · Priority Channel Scanning
- · Memory Channel Scan
- Drop-in Charger
- Rechargeable nickel-cadmium battery pack
- Key pad lock
- · Back-lit display
- Duplex Capable
- Wrist strap

## Technical Support and Service

Should you find it desirable or necessary to service your UH-054, we suggest you contact the Uniden dealer where your purchase was made. Your dealer will be able to assist you with complete service information.

If you require service that is within the terms of your warranty, you should present a copy of your receipt to your dealer to authenticate your claim.

If you find it inconvenient to obtain service assistance from a dealer, please pack your radio in a suitable container that will provide adequate protection. Enclose a note describing the problem and a copy of your receipt, and send the radio transportation prepaid to:

Uniden Australia Pty Limited Customer Service Division 345 Princes Highway Rockdale NSW2216

> Ph. (02) 9599-3355 Fax. (02) 9599-3278

> > Or

Uniden New Zealand Limited Customer Service Division 150 Harris Road East Tamaki Auckland

> Ph. (9) 273-8383 Fax. (9) 274-0009

## Included with Your UH-054



UH-054



Charger



AC Adapter



Antenna



Battery



Wrist Strap



Operating Guide



Product Registration Card



Mounting Screws

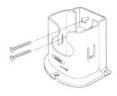
If any of these items are missing from the box, contact your Uniden Dealer.

## **Getting Started**

## Mounting the Drop-in Charger

 Mount the drop-in charger to either a counter or wall.





Plug one end of the AC adapter into the wall outlet, and the other end into the Dropin Charger.



## AL

## Attaching the Antenna

Attach the antenna to the UH-054. Be sure the antenna is firmly seated.



## Attaching the Battery Pack

 Slide the battery pack onto the bottom of the radio.



Use a coin to turn the screw that connects the battery pack to the UH-054. Be sure the battery pack fits tightly against the UH-054's body.



## **Charging the Battery Pack**

Your UHF CB radio is powered by a specially-designed nickel-cadmium battery pack.

Before operating the UH-054, charge the battery pack for 15 hours in the drop-in charger. 1. Place the UH-054 in the drop-in charger.



2. The red LED lights and stays on.



- The battery pack will not be overcharged by the charger even if the battery pack is not removed from the charger.
- Do not transmit when the UH-054 is in the drop-in charger!
- You can monitor incoming calls while the UH-054 is in the drop-in charger.
- You can charge the battery pack alone or connected to the UH-054.

## Operation

- When you press any key (except PTT), a short tone sounds.
- See the front of the operating guide for button and key positions.

## Setting the Squelch

 To turn the unit on, press and hold the power button for 1 second.



- Use the *volume* and *chan* buttons to adjust the volume to a comfortable level.
- Press the volume button.



Press ▲ on the *chan* button to adjust the volume up.



Press ▼ on the *chan* button to adjust the volume down.



Press volume to finish.

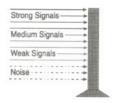
- Before setting the squelch control on your UHF CB radio, you must select a channel that is not in use.
- Use the squelch and chan buttons to adjust the squelch to the desired level. Think of the squelch control as a gate.

Press the *squelch* button.



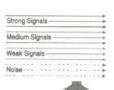
Press and hold  $\triangle$  on the *chan* button to adjust the "squelch gate" so high that no signals get through.



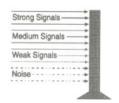


 Press and hold ▼ on the *chan* button to adjust the "squelch gate" so everything gets through – noise, weak signals, and strong signals.



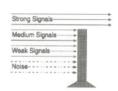


6. To set the "squelch gate" to the desired level, press ▲ on the *chan* button until the gate is all the way shut.



Press ▼ repeatedly until you just hear noise. Then press ▲ on the *chan* button repeatedly until the noise just stops. Now only strong signals get through.





Press the squelch button when finished.

## Selecting a Channel

 When you turn on the UH-054, the last channel will appear on the LCD display. (e.g. CH01)



2. To select a higher channel, press ▲ on the channel button.



 To select a lower channel, press ▼ on the channel button.



To quickly change channels, press and hold  $\blacktriangle$  or  $\blacktriangledown$ . This will change the channel rapidly.

## **Transmitting**

The **UH-054** uses the 40 UHF CB Channels. For your reference, a listing of all the available channels is printed at the end of this manual.

 The maximum RF transmit power of UH-054 is 1 watt.

To switch to low power, press the HI/LO switch. LOW appears on the LCD and the transmit power output level is changed to 0.2 Watt.



To switch back to high power, press the HI/LO switch again. The TX power returns to high and the LOW indicator disappears from the LCD.



Before you transmit, listen for activity on the selected channel.

- 3. When the channel is clear, press the PTT switch to transmit. TX appears on the LCD when you transmit. Hold the radio with the microphone approximately two inches in front of your mouth with the antenna at approximately a 45-degree angle away from your head. Speak in a clear, normal conversational voice.
- When you are finished speaking, release the PTT switch and listen for an answer.

## **Using a Repeater Channel**

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.

In normal Simplex operation, your radio transmits on one particular frequency and receives on that same frequency. If there is a barrier (i.e. Valley) that partially blocks your transmitted signal, the probability of another radio receiving the signal is very slim. Valleys, tall buildings, metallic structures, ... etc., tend to act as a screen between radios

Standard operation without the help of a Repeater Station



Operation with the aid of a Repeater Station



The signal coming from your radio is received by the Repeater station and then retransmitted at the same time on another channel. This operation is called "duplexing".

Your UH-054 is designed with the capability to access and use repeater stations.

Channels 01 through 08 have the option to operate in Duplex Mode. When any of these channels are set to operate in duplex mode during transmission, the UH-054 automatically sends the signal at a frequency 30 channels above the original. After transmitting, the radio reverts back to its original operating frequency.

For example,

- CH01 on Duplex Mode will Receive on CH 01 but Transmit on CH31
- (2) CH02 on Duplex Mode will Receive on CH 02 but Transmit on CH32 etc....

If you transmit on CH01 Duplex mode, you are actually transmitting on CH31, the repeater station down-converts your signal and retransmits on CH01.

## TO operate UH-054 in Duplex Mode

eg. CH01 is being used in your area for repeater use.



Press **DUPLEX** momentarity. The **DUP** icon appears.



Press **DUPLEX** again to deactivate the duplex operation. UH-054 will return to simplex operation.



#### **Dual Watch**

Dual Watch mode monitors a priority channel and the currently selected channel for a signal. The UH-054 checks the priority channel for activity every 1.5 seconds.

## Selecting a Priority Channel

The UH-054 is preprogrammed with CH01 as the priority channel.



However, you can change the priority channel to be any other channel.

**Note:** When you select a new priority channel, the old priority channel automatically becomes a regular channel.

- 1. The radio should be in Stand-by mode.
- Select the new channel (e.g. CH04)



 Press and hold the priority button to change the new channel to priority.



You hear a beep and **P** appears on the LCD.

## **Dual Watching**

Select a channel other than your priority channel. (e.g. CH01)



You can begin dual watching by simply pressing *priority* button momentarily.

Notice that the display toggles between the selected and the priority channel and *PRI* appears every time the priority channel is checked.

While in Dual Watch Mode, you can use the ▲ or ▼ to change to a new selected channel while monitoring the priority channel.

To cancel dual watch, momentarily press *priority* button or the PTT.

#### Scan

Your UH-054 has a scanning feature that allows you to search for active channels automatically.

## Memory Scanning

Memory Scanning scans only the channels stored in the scan memory.

 To begin scanning, momentarily press the scan button.



 The SCAN icon flashes as the UH-054 looks for a transmission.



 When it finds (receives) an active channel, the UH-054 stops and monitors that channel.



4. When the transmission stops, the radio continues scanning.

To stop scanning, press **scan** or the **PTT** switch.

#### Priority Channel Scanning

Priority Channel Scanning allows you monitor the priority channel while scanning.

There are two ways to begin priority Scanning.

 Start memory scanning (as described on the previous section) then momentarily press the priority button.



- or -

 While dual watching, press the scan button.

## Deleting and Storing Channels in the Scan Memory

You may have certain channels that you do not want to hear every time you scan. These are channels that are busy in a major portion of time, and the scanning stops at that channel(s) often enough to interrupt the scan cycle. You can remove those channels from the scan memory so that they are not scanned.

 Using ▲ or ▼ button manually select the unwanted channel.



 Then press and hold the *mem* button. You will hear a twoconfirmation tone and *MEM* icon disappears from the display.



To return the deleted channel in the scan memory.

 Using ▲ or ▼ button manually select the desired channel.



 Then press and hold the *mem* button. You will hear a single-confirmation tone and *MEM* icon appears on the display.



## **Drop Out delay**

While scanning, the UH-054 stops at a busy channel and receives a transmission. When the received signal is over, the unit will wait for three seconds for the return of the signal, otherwise the radio resumes scanning.

## **Lighted Display**

The LCD back light automatically switch-on every time a key is pressed.

## Key Lock

To prevent accidental entries, you can lock the keypad.

Press and hold the HI/LO button until it beeps to activate Key Lock.

To unlock the keypad, press and hold the HI/LO button again.

**Note:** When the Key Lock is active, a twotone warning beep will be heard if you attempt to use it.

## **Battery Level Detection**

 At Power On, the level indicator is always the current battery level when not in Squelch or Volume Adjust Mode.

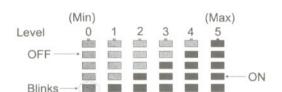




voltage level.







3. If level 1 is detected when [PTT] SW is pressed, transmit mode will fail, PTT Error Tone will sound and TX icon will blink. On the other hand, if Level 0 is detected, transmit mode will fail causing PTT Error Tone to sound while TX icon remains Off.

Once the battery level dips below Level 0, Power will be turned off automatically.

Once any of the above conditions occur, recharge your battery immediately.

## **UHF CB Channel Information**

This radio has been designed to provide a high level of performance in the Citizens Band Radio Service, which is comprised of the following frequency assignments;

## SIMPLEX Operating Mode

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

## **DUPLEX Operating Mode**

Channel Assignment	Receive Frequency (MHz)	Transmit Frequency (MHz)
CH1	476.425	477.175 (CH31)
CH2	476.450	477.200 (CH32)
CH3	476.475	477.225 (CH33)
CH4	476.500	477.250 (CH34)
CH5	476.525	477.275 (CH35)
CH6	476.550	477.300 (CH36)
CH7	476.575	477.325 (CH37)
CH8	476.600	477.350 (CH38)

## **Parts and Accessories**



Antenna



Operating Guide



AC Adapter



Cigarette Adapter HH9804



Standard Battery Pack BP940



Wrist Strap



Drop-in Charger HH9485



High Capacity Battery Pack BP054

## Specifications

General

Channels Transmit 40

Receive 40

Freq. Control PLL Freq. Tol. Transmit ±6 ppm

Receive ±6 ppm

Oper. Temp.  $0^{\circ}\text{C} \sim +55^{\circ}\text{C}$ Antenna Flexible Whip

Microphone Built-in Electret type
Display Liquid Crystal Display

Speaker 8Ω 1 Watt
Power Source Rechargeable

Nickel-cadmium Battery Pack 4.8V 400 mAh

Size (without 122 (H) 63 (W) 32 (D) mm

antenna)
Weight (with battery 238 g

& antenna)

Water Proof (UH-054 AquaMax only)

Standard Designed to meet

Japanese Industry Standard
Class 4

Depth & Duration up to 30 cm for 30 minutes

Water Inpact Resistance 72 kph (max)
Temperature Shock < 22°C (Ref 25°C)

Transmitter

Frequency Range 476.425 to 477.4MHz

Frequency Stability ±6 ppm

Power Output 1.0W(HIGH)/0.2W(LOW)

Spurious Emissions —65 dBc

Current Drain 550 mA at HI Power 250 mA at LOW Power

Receiver

Receiver Type Dual Conversion

Super Heterodyne Phase Locked Loop System for Local

Oscillator

Frequency Range 476.425 to 477.4MHz Sensitivity 0.18 µV (12dB SINAD)

Squelch Sensitivity Threshold 0.15µV

Audio ±6dB 500 to 2000Hz Frequency

Response
Adjacent Channel 62 dB @ ± 25 kHz

Adjacent Channel 62 dB @± 25 kHz Selectivity Hum & Noise Ratio Audio Output Power Current Drain Squelched Max.Audio 45 dB 0.6 W @10% THD

45 mA 280 mA

Charger Input Voltage Std. Power Supply

9 V ~ 12 V DC AAD-050S N/13809 Input=230~240V AC, 50Hz Output = 9 V DC, 210 mA

Specifications shown are typical and subject to change without notice.

## Warranty

Uniden UH-054 UHF CB Radio One Year Warranty

Note: Please keep your sales docket as it provides evidence of warranty.

WARRANTOR: Uniden Australia Pty. Limited ACN 001 865 498 Uniden New Zealand Limited

ELEMENTS OF WARRANTY: UNIDEN warrants to the original retail owner for the duration of this warranty. Its UH-054UHFCB Transceiver Radio (hereinafter referred to as the Product) to be free from defects in materials and craftsmanship with only the limitations or exclusions set out below.

WARRANTY DURATION: This warranty to the original retail owner only, shall terminate and be of no further effect ONE(1) Year after the date of original retail sale. This warranty will be deemed invalid if the product is; (A) Damaged or not maintained as reasonable and necessary, (B) modified, altered, or used as part of any conversion kits, subassemblies, or any configurations not sold by Uniden, (C) improperly installed, (D) Repaired by someone other than an authorized Uniden Repair Agent for a defect or malfunction covered by this warranty, (E) Used in conjunction with any equipment or parts or as part of a system not manufactured by Uniden. (F) Installed, programmed or serviced by anyone other than an authorized Uniden Repair Agent, or (G) Where the Serial Number label of the product has been removed or damaged beyond recognition.

PARTS COVERED: This warranty covers for 1 year, the UH-054 UHF CB Transceiver Unit only. All accessories, AC adapter, Charger, Battery Pack, Antenna are covered for 90 days.

STATEMENT OF REMEDY: In the event that the product does not conform to this warranty at any time while this warranty is in effect, warrantor at its discretion, will repair the defect or replace the product and return it to you without charge for parts and service. THIS WARRANTY DOES NOT COVER OR PROVIDE FOR THE REIMBURSEMENT OR PAYMENT OF INCIDENTAL OR CONSEQUENTIAL DAMAGES.

WARRANTY CARD: If a warranty card has been included with this product, please fill it in and return it to us within 14 days of purchase. Your name and serial number of the product will then be registered in our database and this will help us process your claim with greater speed and efficiency should you require warranty service.

PROCEDURE FOR OBTAINING PERFORMANCE OR WARRANTY: In the event that the product does not conform to this warranty, the product should be shipped or delivered freight prepaid, with evidence of original purchase, eg/a copy of the sales docket, to the warrantor at:

UNIDEN AUSTRALIA PTY. LIMITED SERVICE DIVISION 345 Princes Highway, Rockdale, NSW 2216 Ph (02) 9599 3355 FAX (02) 9599 3278

UNIDEN NEW ZEALAND LTD. COSTOMER SERVICE DIVISION 150 Harris Road East Tamaki Auckland Ph (9) 273 8383 FAX (9) 274 0009

Customers in other states should ship or deliver the Product freight pre-paid to the nearest Uniden Authorized Repair Centre. (Contact Uniden for the Warranty Agent nearest you.)

# uniden®

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