UH075Operating Guide



Uniden

To bring outstanding wireless communication products to people's lives throughout the world.

WARNING!

WATERPROOF: JIS4

Uniden's UH075 radio is designed to meet the water proofing standard of JIS4.

This Means:

"...the unit is able to withstand a steady stream of water from a hose for 5 minutes without leakage..."

The UH075 will only meet this rating if fully assembled and all rubber seals and bungs are well maintained and correctly fitted. This means that the speaker microphone bung is inserted, and the battery pack and antenna are attached and securely fastened.

This is NOT a rating that allows for the unit to be submersed.

LITHIUM ION BATTERY PACK WARNING

- ➤ This equipment contains a Lithium Ion Battery Pack.
- The Lithium Ion 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 Lithium Ion 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.
- Lithium Ion batteries must be disposed of properly.

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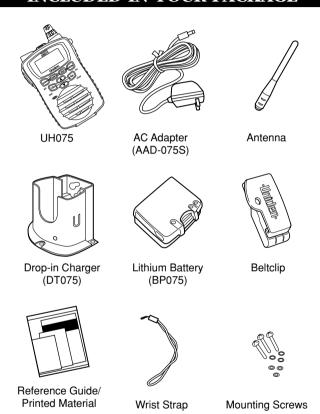
INTRODUCTION

The UH075 is a JIS4 Waterproof, portable two-way UHF-CB radio. It is compact, rugged and fits easily in your hand. This hand held UHF radio will give you consistent, outstanding performance in virtually all conditions and situations. To ensure that you get the most from the UH075 features, please read this operating guide carefully before using the unit.

FEATURES

- ➤ 40 UHF CB Channels
- ➤ 5W Max TX Power
- ➤ 5W/1W Switchable TX Power
- ➤ Waterproof (meets JIS 4 waterproof specifications)
- ➤ Rubber Grips/Seal
- ➤ CTCSS
- ➤ Backlit Keypad & LCD Display
- ➤ Duplex Mode
- > Open and Group Scan
- Busy Channel Lockout Function
- ➤ VOX Function
- ➤ Headset Jack
- ➤ Keypad Lock
- ➤ Battery Type: Lithium-lon Rechargeable
- ➤ Low Battery Alert
- ➤ Battery strength Indicator
- ➤ Auto Battery Save
- ➤ Battery Cover with charge contacts
- Roger Beep

INCLUDED IN YOUR PACKAGE





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

GETTING STARTED

5:50

Mounting the Drop-in Charger

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

Table:

Attach the drop-in charger using the mounting screws and washers.



Wall:

Insert the two mounting screws into the wall keeping the same space as the holes on the charger.



Place the charger with the screws through the larger holes then turn the charger.





Plug one end of the AC adapter into the wall outlet and the other end into the drop-in charger.

When you mount the drop-in charger in a mobile vehicle, use the optional cigarette lead instead.



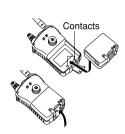
Attaching the Antenna

Attach the antenna to the UH075. Be sure the antenna is firmly seated.



Attaching the Battery Pack

- 1. Place the battery pack onto the back of the radio. It will only fit in one way.
- Snap the battery release clip until it clicks. Be sure the battery pack fits tightly against the UH075 body.



CAUTION!

Avoid exposing the Lithium Ion battery, attached or unattached to the radio, in direct sunshine, heated cars, or in areas with temperatures below $-20^{\circ}C$ ($-4^{\circ}F$) or above $+60^{\circ}C$ ($+140^{\circ}F$). Exposing the chemicals contained within the battery pack to temperatures above $+60^{\circ}C$ ($+140^{\circ}F$) may cause the battery to rupture, fail or reduce performance.

In case of exposure to cell contents, wash the affected area thoroughly, and seek medical attention.

Additional battery cautions should be applied as described on page i of your Owner's Manual.

Attaching the Beltclip

- 1. Hold the beltclip in the direction.
- Apply it to the hanger piece on the back of the radio. Then slid it up.
- 3. You will hear a click. The beltclip is firmly attached.



4. To take the beltclip off the radio, turn it and slid it up.





Charging the Battery Pack

Your radio is powered by a specially designed Lithium Ion battery pack.

- Before operating the UH075, charge the Lithium Ion battery pack for 5 hours without interruption in the drop-in charger.
- 1. Place the UH075 in the drop-in charger.



The red LED illuminates and stays ON, until fully charged.



- The charger won't overcharge the battery pack. When charging is completed, the charge LED is no longer illuminated.
- Do not transmit when the UH075 is in the drop-in charger!
- You can monitor incoming calls while the UH075 is in the drop-in charger.

Battery Level Display

The BATTERY icon in the top right hand corner of the screen indicates the *UH075* current battery voltage level at all times. The battery level is displayed in 4 levels.

LEVEL 4 Battery 100% full



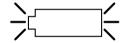
LEVEL 3
Battery approx. 40% capacity



LEVEL 2 Low Battery



LEVEL 1 (flashing) Empty Battery





When PID is pressed at Level Empty, battery icon and channel number will flash, transmission is disabled.



Recharge the battery at any time. From empty the battery will take up to 5 hours to fully charge.

Battery Life: 12 Hours (Typical)

This is based on the following Duty Cycle:

Transmit (Low Power) 5%

Receive 5% Stand-by 90%

OPERATION

 See the Controls and Indicators page at the back of this operating guide for button and key operations.

POWER ON/OFF

To turn the unit **ON**, rotate the **[ON/OFF VOL]** clockwise. A channel number and battery level should appear on the display.



To turn the unit **OFF**, rotate the **[ON/OFF VOL]** knob counter-clockwise. The display will disappear.

VOLUME

Rotate the **[ON/OFF VOL]** knob clockwise or counter-clockwise to adjust speaker volume to desired listening level.

ADJUSTING THE KEY BEEPS

Your radio emits a beep each time-one of the keys (except for the PTT or mon) are pressed.

To turn OFF this beep: Press and hold **dup** while turning on the radio. **To turn ON this beep:** Press and hold **dup** while turning on the radio.

ROGER BEEP

Roger Beep is a BEEP that is sent to notify the end of transmission (both PTT and VOX transmission.) Roger Beep can be heard through the speaker when Key Beep is on. Roger Beep is transmitted even if key beep is turned off. However Roger Beep will not be heard from the speaker.

To turn OFF Roger Beep: Press and hold while turning on the radio.

To turn ON Roger Beep: Press and hold while turning on the radio.

SELECTING CHANNEL

Press or to select the desired channel.



If you press and hold the or v, channel number will scroll rapidly.

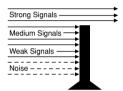
SQUELCH

The squelch is used to eliminate any annoying background noise when there are no signals present.



Make sure to first select a channel not in use before setting the squelch in your **UH075** UHF-CB radio.

Think of squelch as a gate. Turn **[SQ]** fully clockwise. This raises the "Squelch Gate" so high that only the very strong signals can get through.



Turn **[SQ]** fully counter clockwise until you hear a hiss. This opens the "Squelch Gate" so that everything gets through noise, weak signal, and strong signals.



To set the "Squelch Gate" to the desired level, turn **[SQ]** counter-clockwise until you hear noise. Then turn the **[SQ]** clockwise just until the noise stopped. Now only the desired signal can get through.



If an incoming signal is very weak there is a possibility that you will have a choppy or broken reception, due to the sensitivity of the squelch. In this case, simply rotate the [SQ] clockwise until the weak signal is heard clearly.

TO TRANSMIT AND RECEIVE

The *UH075* uses the 40 UHF-CB Channels. For your reference a list of the available channels and corresponding frequencies is printed at the end of this manual.

- 1. The maximum RF transmit power of *UH075* is 5 watts.
 - To switch to low power, press **1/5w**. **LOW** appears on the LCD.
 - To switch back to higher power, press **1/5w** again. **LOW** indicator disappears from the LCD.
- Before you transmit, listen for activity on the selected channel.
- When the channel is clear, press and hold the PTT to transmit. TX appears on the LCD.





Hold the radio with microphone approximately five cms in front of your mouth with the antenna at approximately 45* angle away from your head. Speak in a clear, normal conversational voice.

- When you have finished speaking, release the and listen for a response. TX indicator then disappears on the LCD.
 - The display shows **BUSY** when a transmission is being received by your radio.



USING A REPEATER CHANNEL

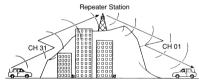
UHF CB Repeaters are used to retransmit or relay your signal. Repeaters will extend the range of your radio and overcome the shielding effect caused by solid obstructions.

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

Standard Operation without the aid of a Repeater Station



Operation with the aid of a Repeater



With Duplex operation, the signal coming from your radio is received by the Repeater station and then re-transmitted at the same time on another channel.

Your *UH075* is designed with duplex capability on Channels 1 to 8. When any of these channels are set to operate in duplex mode during transmission, the *UH075* automatically sends the signal at a frequency 30 channels above the original in order to access the repeater station. After transmitting, the radio reverts back to its original operating frequency.

For example:

- 1. CH01 is on Duplex Mode
 - will receive on CH01 but Transmit on CH31
- 2. CH02 is on Duplex Mode
 - will Receive on CH02 but Transmit on CH32, etc....

Refer to UHF Channel & Frequencies table on page 20.

TO OPERATE UH075 IN DUPLEX MODE

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

Press dup momentarily. The **DUP** icon appears.

Press **dup** again to deactivate the duplex operation. **UH075** will return to simplex operation.





Check with your local retailer for available repeaters.

SCANNING

The *UH075* has two types of scanning; Open Scanning (OS) and Group Scanning (GS).

Scanning allows you to search for active channels programmed in the OS or GS memory.

To initiate scanning;



- 1. Assuming the unit is on CH17 when switched on.
- 2. Press scan and scanning starts. Scan icon flashes during scanning.

Open Scan (OS) Mode (the absence of GS icon indicates that the unit is on OS mode)

Allows continuous scanning of channels stored in the Open Scan (OS) memory. If an active channel is found, scanning will stop on that channel.



The factory has preprogrammed all the 40 UHF channels into the Open Scan channel memory. However, you can change or customize the channels by following the steps on programming Scan Channels on page 15.

Example: CH40 becomes active

If the received signal cease, the unit will wait for at least 3 seconds for the signal to return, otherwise scanning resumes.

To skip the active channel, press mem momentarily. Scanning resumes.

To deactivate SCAN, press scan or PTT.



If SCAN is deactivated while in an active channel, the UH075 will stay on that active channel. If no other channels are active, the UH075 will reinstate the starting channel.

Group Scan (GS) Mode

Allows you to monitor a Priority Channel while scanning.

To use GS Mode Scanning, press the **@s/gs** key. **GS** icon appears on the display.

GS Scanning checks the Priority channel activity regularly.



If GS Scanning is initiated when there are no channels programmed in GS memory, an error tone will be beard and scanning will not start.

If the Priority channel becomes active the radio will stay on that channel for as long as the signal is present. If the received signal ceases, Priority scanning continues after 3 seconds.



If scanning stops on a channel which is not a Priority Channel the UH075 will continue monitoring the Priority Channel for activity Note while listening to the active one.

To deactivate SCAN, press the scan or PTT.



If SCAN is deactivated while it is turned to an active channel, the UH075 will stay on that active channel. If none of the channels are Note active, the UH075 will reinstate the Priority channel.

Programming Scan Channels

1. Select which Scanning Mode you wish to use OS or GS Mode.



OS is indicated by the absence of the GS icon.

- 2. Select the channel you want to store by pressing \(\blacktriangle \) or \(\blacktriangle \).
- Press and hold from for 1.5 secs. to store. MEM icon appears and two short tone beeps are heard.
- To remove the channels from Memory, press and hold mem for 1.5 secs.
 once more. Two short tone beeps are heard and the MEM icon disappears.

PRIORITY CHANNEL

The Priority Channel feature allows user to monitor one of 40 channels in the *UH075*, monitoring it every 1.5 secs. during Group Scanning.

Choosing a Priority Channel

The starting channel, when Group Scanning is initiated, is always the Priority Channel. To change the priority channel setting while scanning, (eg. PRI Channel is CH17 (476.825 MHz))

a. press , to select a higher channel (scanning pauses).



or

b. press , to select a lower channel.



DROP-OUT DELAY

While scanning, the *UH075* stops at a busy channel and receives a transmission. When the received signal is over, the unit will wait for 3 seconds for the return of the signal, otherwise, the radio resumes scanning.

ADVANCED FEATURES

CTCSS

Continuous Tone Coded Squelch System (CTCSS) is a feature that allows a group to talk to each other without hearing other users on the same channel.



Uniden discourages the use of CTCSS feature until the Australian Communications Authority (ACA) grants the use of CTCSS on CB Note frequencies.

Programming CTCSS Code

- Select a desired channel to be used with **CTCSS**.
- Press and hold **ctcss** for 1.5 secs. CTCSS icon blinks.
- Press or to select the desired CTCSS code.
- Press **ctcss** to save the selected code. CTCSS icon stops blinking.



UH075 will return to standby mode after 10 secs. of no activity. CTCSS code can be programmed on every channel. There are 38 available CTCSS tone per channel.

CTCSS Scan Operation

- 1. Press (scan) to start scanning (GS or OS) mode.
- 2. Press and hold **ctcss** to change to CTCSS scan mode.
- 3. When a signal is sensed on a CTCSS CH, the **UH075** stops for about 400 msecs (decode time) to decode the CTCSS code. If there is no code or the receive code does not match the one programmed on the unit, the unit resumes scanning.



Channels 5 and 35 are used for emergency channels. CTCSS will Note not operate on these channels.

VOX

➤ Built-in Voice Activated Circuit (VOX) feature enables the user to transmit automatically by speaking on the microphone of the VOX headset (not supplied) without pressing the PTT switch.



VOX feature will not work without the Vox Headset Microphone. The built in mic of UH075 is temporarily disabled, however accidental pressing of PTD will cause the unit to transmit briefly.

To activate VOX

- Press and hold vox for 1.5 secs. "VOX" icon blinks.
- Press either or within 10 secs. to select the desired VOX sensitivity level (9 with the lowest sensitivity to 1 with the highest sensitivity).
- 3. Press vox to save the selected level. "VOX" icon stops blinking.
- Install VOX Headset (not supplied) to UH075.

To De-activate VOX

- Remove VOX Headset from UH075.
- Press and hold vox for 1.5 secs. until "VOX" blinks.
- 3. Press repeatedly and until "oF" is displayed.
- 4. Press **vox** to save the setting. "**VOX**" icon disappears.



Changing the VOX sensitivity setting to "oF" without removing the Note microphone will cause the unit to transmit continuously.

➤ POWER SAVE

Battery Save feature extends the battery life by switching the receiver circuit power ON and OFF. This feature automatically activates during standby mode (RX mode without signal).

➤ BACK LIGHTING

The Liquid Crystal Display (LCD) and function keys are backlit for easy viewing at night or in low light situations. The back lighting automatically switches ON every time a key (except PTT) is pressed. It turns OFF 5 secs after the last key is pressed.

➤ KEYPAD LOCK

To prevent accidental entries, you can lock the keypad.

Press and hold the **lock** button until it beeps to activate Key Lock. **--•** icon appears.

To unlock the keypad, press and hold the lock button again. res icon disappears.



When the Key Lock is active, a warning beep will be heard if you Note attempt to press keys. (except for the PTT button)

➤ BUSY CHANNEL LOCK-OUT (BCL)

This feature prevents accidental transmission on a busy channel.

This is recommended on channels where CTCSS is being used. If the channel is "active" and the signal is coming from a non or different CTCSS code user the BCL feature will prevent you from transmitting.

To activate BCL

Press and hold **bcl** for 1.5 secs. until "BCL" appears on display.

To De-activate BCL

Press and hold **bcl** for 1.5 secs. until "BCL" disappears from the display.

➤ MONITOR

This feature enables users to listen in for weak signals on the current channel at the press of a button.

To use monitor

- For brief listening, press **mon**.
- For continuous listening. Press and hold mon for 2 sec. A two tone beep will be heard and the receiver circuit will stay open letting in both the noise & weak signals.
- Display shows MON and BUSY icons.
- To return to normal receive mode press mon.

UHF CHANNEL & FREQUENCIES

5:50

CH No.	Simplex Mode Transmit / Receive Frequency (MHz)	Duplex Mode Transmit Frequency (MHz)	CH No.	Simplex Mode Transmit / Receive Frequency (MHz)	
1	476.425	477.175 CH31	21	476.925	
2	476.450	477.200 CH32	22	476.950	
3	476.475	477.225 CH33	23	476.975	
4	476.500	477.250 CH34	24	477.000	
5	476.525	477.275 CH35	25	477.025	
6	476.550	477.300 CH36	26	477.050	
7	476.575	477.325 CH37	27	477.075	
8	476.600	477.350 CH38	28	477.100	
9	476.625		29	477.125	
10	476.650		30	477.150	
11	476.675		31	477.175	
12	476.700		32	477.200	
13	476.725		33	477.225	
14	476.750		34	477.250	
15	476.775		35	477.275	
16	476.800		36	477.300	
17	476.825		37	477.325	
18	476.850		38	477.350	
19	476.875		39	477.375	
20	476.900		40	477.400	



Channel 05 and 35 are Emergency Channels and channel 11 is a Calling Channel. Channels 22 and 23 are used for telemetry and telecommand applications, voice communications are not permitted on these channels.

CTCSS CODES & FREQUENCIES

5:50

Code No.	Freq. (Hz)	Code No.	Freq. (Hz)	Code No.	Freq. (Hz)
00("oF")	OFF	13	103.5	26	162.2
01	67.0	14	107.2	27	167.9
02	71.9	15	110.9	28	173.8
03	74.4	16	114.8	29	179.9
04	77.0	17	118.8	30	186.2
05	79.7	18	123.0	31	192.8
06	82.5	19	127.3	32	203.5
07	85.4	20	131.8	33	210.7
08	88.5	21	136.5	34	218.1
09	91.5	22	141.3	35	225.7
10	94.8	23	146.2	36	233.6
11	97.4	24	151.4	37	241.8
12	100.0	25	156.7	38	250.3

OPTIONAL ACCESSORIES

- VOX Headset
- Speaker Microphone

SPECIFICATIONS

General

Channels Transmit 40 (with Duplex Channel Support)

Receive 40

Oper. Temp. 0°C - +55°C Antenna Flexible Whip

Microphone Built-in Electorate type
Display Liquid Crystal Display
Speaker 8 Ohm 1 Watt

Power Source BP-075

Rechargeable Lithium Ion Battery Pack

850 mAh, 7.4 V

Size (without antenna) 97(H) x 62(W) x 33(D) mm

Weight 250 g (with Antenna & Battery Pack)

Transmitter

Frequency Control Phase Locked Loop
Frequency Range 476.425 to 477.4 MHz
Frequency Stability ± 3 ppm
Power Output 5 W (high)/ 1 W (low)

Spurious Emissions – 50 dBc

Current Drain 1500 mA (high)/ 800 mA (low)

Receiver

Frequency Range

Receive Type Dual Conversion

Super Heterodyne Phase Locked Loop System for Local Oscillator

476.425 to 477.4 MHz

Sensitivity @12 dB SINAD - 120 dBm

Squelch Sensitivity -126 dBm (Threshold)

Audio Frequency Response (ref: 1 KHz, \pm 3 KHz Dev.) 500 Hz, 4.5 dB 2000 Hz, - 6.5 dB

Adjacent Channel Selectivity 57 dB Hum & Noise Ratio 40 dB Audio Output Drain Current Drain

0.6 W (10% THD)

Squelched 40 mA

Max. Audio 170 mA

Charger

Std. Power Supply AAD-075S

Input 230 - 240 V AC, 50 Hz

Output 9 V, 210 mA Approval No. V/00031

Specifications shown are typical and subject to change without notice.

WARRANTY

UNIDEN UH075 UHF CB RADIO

One Year Warranty

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

Warrantor: Uniden Australia Pty Limited / Uniden (NZ) Ltd.

Elements of Warranty: Uniden warrants to the original retail owner for the duration of this warranty, its UH075 UHF CB Transceiver Radio (hereinafter referred to as the Product) to be free from defects in materials and craftmanship 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 or 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 maffunction covered by this warranty, (E) Used in conjunction with any equipment or parts or as part of a system not manufactured by Uniden, or (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. Warranty only valid in the country of original retail/sale.

Parts Covered: This warranty covers for 1 year, the UHF CB Transceiver Unit only. All accessories: AC Adaptor, Wrist Strap, Battery and 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, the warrantor at its discretion, will repair the defect or replace and return it to you without charge for parts and service. This warranty does not cover provide for the reimbursement or 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 of 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

www.uniden.com.au

Ph. (02) 9599-3100 Ph 1300 366 895

Fax (02) 9599 3278

UNIDEN NEW ZEALAND LTD

Service Division

150 Harris Road, East Tamaki, Auckland

www.uniden.co.nz

Ph. (9) 273 8383

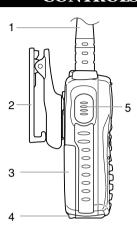
Fax (9) 274 4253

Ph 0800 4 UNIDEN 0800 4 86433

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.)

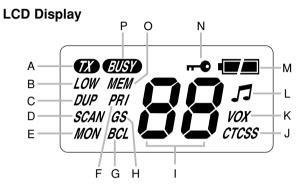
CONTROLS & INDICATORS

5:50



- 1 Antenna
- 2 Belt Clip
- 3 Battery
- 4 Battery Release Clip
- 5 PTT (Push to Talk) Key
- 6 Memory Key (mem)
- 7 Scan Button (scan)/Busy Channel Lock-Out Mode (bcl)
- 8 TX Power/Lock Button (1/5w/lock)
- 9 Microphone
- 10 Speaker MIC (Optional) Jack

- 11 ON/OFF VOL Knob
- 12 Squelch Knob (SQ)
- 13 LCD Display
- 14 Monitor Button (mon)
- 15 Open Scan/Group Scan (os/gs) /VOX
- 16 Channel Up Button (▲)
- 17 Duplex Key (dup)/CTCSS Key (ctcss)
- 18 Channel Down Button (▼)
- 19 Speaker



- A Transmit
- B 1W Power
- C Duplex Transmit
- D Scanning
- E Monitor
- F Priority
- G Busy Channel Lock Out
- H Group Scanning
- I Channel Numbers

- J CTCSS
- K VOX
- L Roger Beep
- M Battery Level Indicator
- N Key Lock
- O Memory
- P Receive

Note:

Uniden

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