

Uniden®

UH45 Max Series **UHF-CB Transceiver**

For more exciting new products please visit our website:
Australia: www.uniden.com.au

OWNER'S MANUAL

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Introduction

The UH45Max is a 0.5W, portable two-way UHF-CB radio. This hand held UHF-CB radio is designed to give consistent, outstanding performance in many conditions and situations. To ensure that you get the most from the UH45Max features, please read this operating guide carefully before using the unit.

Key Features

- 80 Channel UHF-CB Radio¹
- 0.5W Max TX Power
- LCD Display
- USB-Type C charging
- 38 Built-in CTCSS
- Duplex Mode for Repeater Access¹
- 10 Call Tones
- Open Scan
- KID-Z Function (CTCSS and Scramble enabled)
- Busy Channel Lockout Function
- Automatic Squelch Feature
- VOX Function
- Key Beep
- Roger Beep
- Keypad Lock
- Voice Announcement
- Accessory Jack for Earpiece Mic or Speaker Mic
- Scramble Frequencies
- Low Battery Alert
- Power Saving
- Battery strength Indicator

¹ Refer to page 21-22 for channel information

Included in your Package

Items	UH45 Max	UH45CG Max	UH45-2 Max	UH45-3 Max	UH45-4 Max	UH45-5 Max
UH45Max UHF Radio	1	1	2	3	4	5
Type-C Cable	1	1	2	3	4	5
Lanyard	1	1	2	3	4	5
Beltclip	1	1	2	3	4	5
Owners Manual	1	1	1	1	1	1



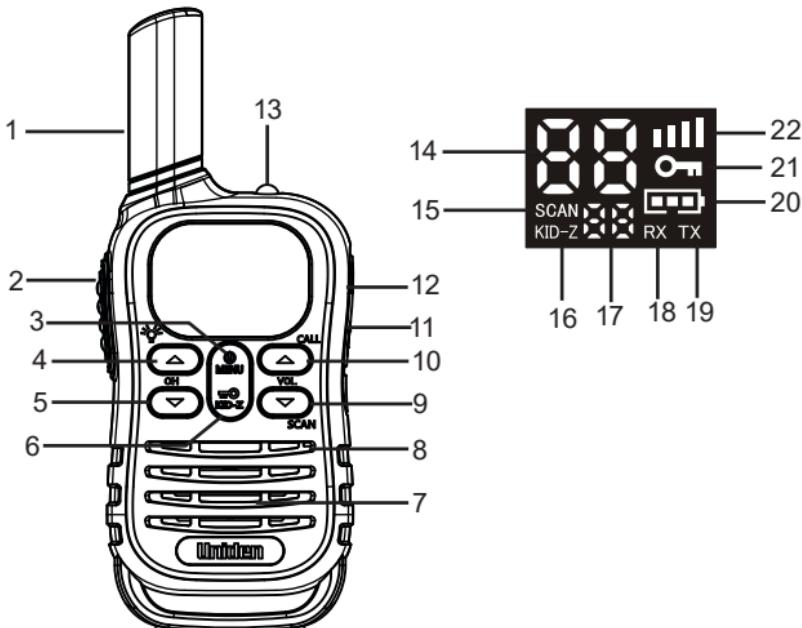
If any of these items are missing from the box, contact your place of purchase, immediately.

Optional Accessories

- Speaker Mic
- Earpiece Mic

Visit the UH45Max page on the website for more information on the availability & range of optional accessories; www.uniden.com.au

Controls and Indicators



1. Antenna
2. PTT
3. Menu/Power On, OFF
4. Channel Up/Torch
5. Channel down/Fastforward
6. KiD-Z/Keypad Lock
7. Speaker
8. Microphone
9. Volume Down/SCAN
10. Volume Up/CALL
11. Type C charging slot
12. Earpiece slot
13. Torch bulb

14. Channel indicator
15. SCAN indicator
16. KiD-Z indicator
17. CTCSS indicator
18. Receive indicator
19. Transmit indicator
20. Battery Level indicator
21. Keypad lock
22. Volume indicator

Getting Started

Battery Installation

Your UH45Max series radio uses 3 AAA batteries for power. Use only good quality batteries for maximum life and range.

Please note that batteries are not provided with the package.



BATTERY WARNING

To prevent the batteries from running down, remove them from the radio if the UH45 Max series will not be used for long periods.



NOTE The unit can also be powered with optional 3 AAA rechargeable batteries (NiMH) recommended.



To avoid damage to the unit, do not mix the old and new batteries.

1. Make sure your radio is switched off
2. Remove the battery cover.
3. Insert 3 AAA batteries according to the polarity symbols inside the battery compartment.
4. Replace the battery cover.



WATER WARNING

Uniden does not represent this product to be waterproof. Do not expose this product to rain or moisture.

Getting Started

Charging Rechargeable Battery



NOTE

Do not charge alkaline or non rechargeable batteries.

Plug one end of the USB Type - C cable into the UH45 Max radio and the other end to the AC adaptor (not included). Plug the AC adaptor into the wall outlet.

Before operating the radio, charge the rechargeable batteries for 6-7 hours without interruption.

Do not transmit when the radio is charging.

Low Battery Alert

If the battery level becomes low, the radio will give a low battery beep sound when key beep is enabled or will announce to recharge the batteries when the Voice announcement is activated. Replace the Alkaline batteries or recharge the Ni-MH rechargeable batteries immediately to continue using the radio.

Power Save

Your UH45Max series has a unique feature of screen sleep which dramatically extend the life of the batteries. If there is no activity within 5 seconds, your radio will switch to the power saving mode by turn off the screen. The radio still able to receive transmissions in this mode.

Operation

Power On/OFF

Press and hold  to turn the Radio ON.
The channel number will appear on the display.
Press and hold  to turn the radio OFF.



Volume

The volume level can be adjust from  (min) volume to  (max) volume. Press the volume up (Δ) and down (∇) keys to increase or decrease the level.



KID - ZONE

Press **KID-Z** key for to enable/disable the kid-zone. This feature is enabled by default having a CTCSS 10 and the scramble Freq 2 (2952Hz), thus providing an extra security while using the radio.



Operations

Keypad Lock

To prevent accidental entries, you can lock the keypad by long press the **KID-Z** button for 3 seconds until it beeps to activate the Key lock.

The  icon will appear on the LCD.

To unlock the keypad, press and hold KID-Z key again for 3 seconds.

The  icon will disappear.

Torch Light

Press and hold  key to turn ON/OFF the torch light, provided that the radio is powered on. When the radio is powered off, simply press the  key to turn on/off the torch.

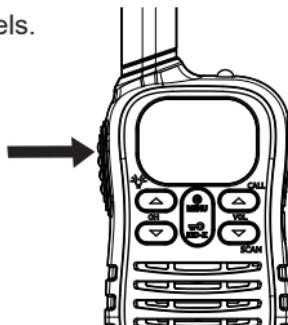


Selecting a Channel

Channels can be selected by pressing the Channel up and down key. The default channel is CH - 80 when the radio is first powered on.

To Transmit and Receive

The UH45 Max series uses the UHF-CB channels. Please refer to page 20 for UHF channel usage (CH 22 and 23 are used for telemetry and telecommand application). Transmission is inhibited on these channels.



The Transmit power of the UH45Max series is 500mW which will provide a range of up to 3+km.

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

Operation

When the channel is clear, press and hold **PTT** to transmit. **TX** icon will appear on the LCD during transmission.

When you have finished with conversation, release the PTT button. TX icon will disappear from the LCD screen.

Hold the radio with microphone approximately 5cm in front of your mouth with the antenna at approximately 45° angle away from your head. Speak in a clear, normal conversational voice.



For maximum range and extended life of the batteries, avoid touching the antenna with your hand when transmitting.

Automatic Squelch Feature

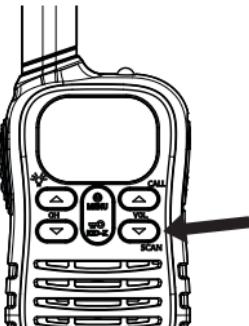
The UH45Max series is equipped with an automatic squelch system which mutes the audio in the presence of a weak transmission and unwanted noise.

Scanning

The UH45Max series offer Open Scan function in the radio. The scan function scans all channels and stops on an active channel.

To initiate the scan function:

1. Long Press the Volume Down (▼) button to start the scan function in sequential order. **SCAN** icon will be enabled on the LCD.
2. You can change the scan direction (increasing or decreasing channel number) by pressing [▲] or [▼].



Operation

3. When SCAN finds a busy channel it pauses scan to receive the signal. When the received signal stops, the radio waits for 3 seconds to respond back, otherwise, the radio resumes scanning.
4. Scan function can be disabled by Long press the volume down (▼) button again. **SCAN** icon will be disabled from the LCD.

 **NOTE**

1. To skip a busy channel, press Channel up (▲) or Channel down (▼), the scan will resume.
2. When PTT is pressed during scanning process, the radio will jump back to the starting channel and exit the scan mode.
3. To avoid any restriction on receiving communication during Scan mode, disable the KiD-Z before using it.

Continuous Tone Coded Squelch System (CTCSS)

The CTCSS squelch codes allows a group to talk to each other without hearing other users on the same channel. The group needs to use the same code. As there are 38 CTCSS codes available in UH45Max series, the chances of nearby users using the same code is unlikely.



With KID-Z enabled having a default CTCSS 10 code activated, you cant change the code.

When KID-Z is disabled, Following steps are used to enable the CTCSS code.

1. Select the desired Channel.
2. Press **MENU** button once. "OF" will start Flashing.
3. Press (▲) or (▼) of either CH or VOL to select the desired code.
4. Press **PTT** to save and exit or Press Menu again to move on to the next menu item.

Operation

To disable the CTCSS codes, following steps are performed:

1. Press the **MENU** again, CTCSS code will start flashing.
2. Press **(▲)** or **(▼)** of either CH or VOL to select the “**OF**” option in the code list.
3. Press **PTT** to save and exit or Press Menu again to move on to the next menu item.



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

DUPLEX MODE (Repeaters)

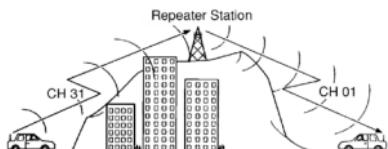
UHF-CB Repeaters are used to retransmit or relay your signal. Repeaters will extend the range of your radio and overcome the shielding effect caused by solid obstructions.

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



Operation

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.

For example:

1. CH01 is on Duplex Mode - will receive on CH01 but Transmit on CH31
2. CH41 is on Duplex Mode - will receive on CH41 but Transmit on CH71,
etc... Refer to UHF-CB Channel & Frequencies table on p.21 - p.22.



Contact your retailer for a list of repeaters available in your area.

To Operate in Duplex Mode (using a Repeater)

The duplex mode can only be activated from CH01-CH08 and CH41-CH48.

Following steps are used to activate the duplex mode.

1. Select the desired channel for the duplex function.
2. Press **MENU** button twice. “**dP**” will start flashing.
3. Press (**▲**) or (**▼**) of either CH or VOL to enable the duplex mode. If the channel range is from CH01-CH08, the duplex mode will be shown as “**r1-r8**” whereas for CH41-CH48, the duplex mode will be shown as “**n1-n8**”.
4. Press **PTT** to exit the menu mode.

Operation

To disable the duplex mode,

1. Press the Menu button twice again. “**dP**” will start flashing.
2. Press (▲) or (▼) of either CH or VOL to disable the duplex mode. The channel number will appear again instead of duplex code.
3. Press **PTT** to save and exit or Press Menu again to move on to the next menu item.

Busy Channel Lockout (BCL)

This feature prevents accidental transmission on a busy channel.

This is recommended on channels where CTCSS is being used. If you hear sound from the speaker, the BCL feature will prevent you from transmitting.

To enable the feature:

1. Press MENU button three times. “**bc**” icon will start flashing.
2. Press (▲) or (▼) of either CH or VOL to enable the feature from “**OF**” to “**on**”.
3. Press **PTT** to save and exit or Press Menu again to move on to the next menu item.

Operation

Call Tone Function

The Call function transmits a short “wake up” tone to notify other users of impending communication. The UH45Max series offer 10 selectable call tones that will be transmitted when Volume Up (▲) button is long pressed.

To select different call tone:

1. Press **MENU** button 4 times. “**CL**” will start flashing.
2. Press (▲) or (▼) of either CH or VOL to select the desired tone.
3. Press **PTT** to save and exit or Press Menu again to move on to the next menu item.



NOTE

Selecting “OF” as a call tone option will disable the call tone feature from the radio.



NOTE

Current regulations require calling tones to be restricted to one transmission per minute. If a second transmission is attempted within one minute then an error tone will sound.

VOX (Built-in Voice Activated Circuit)

UHF 45Max series are equipped with this special feature. VOX is Voice activated transmission, where you can transmit without pressing the PTT key.

For optimum performance, use VOX when the accessory earpiece is connected.

To enable this feature:

1. Press **MENU** button five times. “**Vo**” will start flashing on the LCD.

Operation

2. Press (▲) or (▼) of either CH or VOL to enable the feature from “**OF**” to “**on**”.
3. Press **PTT** to save and exit or Press Menu again to move on to the next menu item.

Roger Beep

Roger Beep is a beep sound that is sent to notify the end of transmission. when enabled, the radio generates a beep sound at both sender and receiver side thus notifying the end of transmission.

To activate:

1. Press **MENU** button six times.”**rb**” will start flashing on the LCD.
2. Press (▲) or (▼) of either CH or VOL to enable the feature from “**OF**” to “**on**”.
3. Press **PTT** to save and exit or Press Menu again to move on to the next menu item.

Key Beep

This feature assure the user that the keypad has been properly pressed by emitting a beep tone.

To activate:

1. Press **MENU** button seven times.”**bP**” will start flashing on the LCD.
2. Press (▲) or (▼) of either CH or VOL to enable the feature from “**OF**” to “**on**”.
3. Press **PTT** to save and exit or Press Menu again to move on to the next menu item.

Operation

Voice Announcements

The UH45Max series offer a unique feature which allows the user to listen every option they choose to operate the radio.

To activate this feature:

1. Press **MENU** button eight times."An" will start flashing on the LCD.
2. Press (**▲**) or (**▼**) of either CH or VOL to enable the feature from "**OF**" to "**on**".
3. Press **PTT** to save and exit or Press Menu again to move on to the next menu item.

Scramble Function

The scramble feature is a voice inversion function that provides additional privacy to your communication by scrambling the transmitting frequencies which can be unscrambled successfully by tuning to the same scramble frequency at the receiver end to which it was set on the transmitting end.

The UH45 Max series offer 5 different scramble frequencies to choose from;

Scramble 1 (3300Hz), Scramble 2 (2952Hz), Scramble 3 (3039Hz), Scramble 4 (3200Hz), Scramble 5 (3400Hz).



NOTE

With KID-Z enabled, the Scramble 2 is selected by default which cant be changed or turned OFF.



NOTE

Scramble cannot be enabled on emergency channels 05 & 35.

Operation

To activate this feature:

1. Press **MENU** button nine times. "Sr" will start flashing on the LCD.
2. Press (**▲**) or (**▼**) of either CH or VOL to select the desired scramble Frequency.
3. Press **MENU** key again to directly exit from the menu.

Factory Reset Procedure

Following Steps are performed to factory reset the radio.

1. Power Off the Radio
2. Press PTT and Volume Up (**▲**) together and Power On the radio.

The Firmware version date will appear on the screen indicating that the radio has been reset.

CTCSS Codes and Frequencies

Code No.	Frequency (Hz)	Code No.	Frequency (Hz)
"oF"	OFF	26	162.2
1	67.0	27	167.9
2	71.9	28	173.8
3	74.4	29	179.9
4	77.0	30	186.2
5	79.7	31	192.8
6	82.5	32	203.5
7	85.4	33	210.7
8	88.5	34	218.1
9	91.5	35	225.7
10	94.8	36	233.6
11	97.4	37	241.8
12	100.0	38	250.3
13	103.5		
14	107.2		
15	110.9		
16	114.8		
17	118.8		
18	123.0		
19	127.3		
20	131.8		
21	136.5		
22	141.3		
23	146.2		
24	151.4		
25	156.7		

UHF-CB Channel Guidelines

Always listen on a channel (or observe the receive signal level meter) to ensure it is not already being used before transmitting.

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

Please follow these guidelines for channel use in Australia:

- Channels 05 and 35 are Emergency Channels.
- Channel 11 is a Calling Channel.
- Channels 22 and 23 are for telemetry and telecommand applications and TX is inhibited on these channels.

General communication is accepted on all other channels with these guidelines:

- Channel 40 - road channel (Australia).
- Channels 01-08 (and 31-38), and Channels 41-48 (and 71-78) are repeater channels.



NOTE

Important information - 80 Channel UHF-CB channel expansion

To provide all users additional channel capacity within the UHF-CB Band. The ACMA will change the majority of the current wideband 40 channel use to narrowband channel use. This allows for additional channels to be added, up to 80 Channels.

This simply means that the new narrowband radio you have purchased will have more channels than older radios. Please refer to the guidelines above and the channel chart for further channel information.

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



NOTE

Interference / Poor Audio

When a new narrowband radio receives a signal from an older wideband radio the speech may sound loud.

Narrowband radios operating on CH41 - CH80 may encounter interference from a nearby wideband radios transmitting on high power on an adjacent channel (frequency).

When an older wideband radio receives a signal from a new narrowband radio the speech may sound quiet - the wideband radio user simply adjusts their radio volume for best performance.

The above situations are not a fault of the radio but a symptom of mixed wideband and narrowband radios in current use. It is expected that as older wideband radios are phased out this issue will be eliminated.

UHF-CB Channels and Frequencies

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 (RX only)
3	476.475	477.225 (CH33)	23	476.975 (RX only)
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

UHF-CB Channels and Frequencies

CH No.	Simplex Mode Transmit / Receive Frequency (MHz)	Duplex Mode Transmit Frequency (MHz)	CH No.	Simplex Mode Transmit / Receive Frequency (MHz)
41	476.4375	477.1875 (CH 71)	61	476.9375 (RX only)
42	476.4625	477.2125 (CH 72)	62	476.9625 (RX only)
43	476.4875	477.2375 (CH 73)	63	476.9875 (RX only)
44	476.5125	477.2625 (CH 74)	64	477.0125
45	476.5375	477.2875 (CH 75)	65	477.0375
46	476.5625	477.3125 (CH 76)	66	477.0625
47	476.5875	477.3375 (CH 77)	67	477.0875
48	476.6125	477.3625 (CH 78)	68	477.1125
49	476.6375		69	477.1375
50	476.6625		70	477.1625
51	476.6875		71	477.1875
52	476.7125		72	477.2125
53	476.7375		73	477.2375
54	476.7625		74	477.2625
55	476.7875		75	477.2875
56	476.8125		76	477.3125
57	476.8375		77	477.3375
58	476.8625		78	477.3625
59	476.8875		79	477.3875
60	476.9125		80	477.4125

Warranty

UNIDEN UH45Max Series UHF CB Transceiver

IMPORTANT: Satisfactory evidence of the original purchase is required for warranty service

Please refer to our Uniden website for any details or warranty durations offered in addition to those contained below.

Warrantor: The warrantor is Uniden Australia Pty Limited ABN 58 001 865 498 ("Uniden").

Terms of Warranty: Uniden Aust warrants to the original retail purchaser only that the UH45Max Series ("the Product"), will be free from defects in materials and craftsmanship for the duration of the warranty period, subject to the limitations and exclusions set out below.

Warranty period: This warranty to the original retail purchaser is only valid in the original country of purchase for a Product first purchased either in Australia or New Zealand.

Product	1 Year
Battery Pack & Accessories	1 Year

If a warranty claim is made, this warranty will not apply if the Product is found by Uniden to be:

- (A) Damaged or not maintained in a reasonable manner or as recommended in the relevant Uniden Owner's Manual;
- (B) Modified, altered or used as part of any conversion kits, subassemblies or any configurations not sold by Uniden;
- (C) Improperly installed contrary to instructions contained in the relevant Owner's Manual
- (D) Repaired by someone other than an authorized Uniden Repair Agent in relation to a defect or malfunction covered by this warranty; or
- (E) Used in conjunction with any equipment, parts or a system not manufactured by Uniden.

Parts Covered: This warranty covers the Product and included accessories.

Warranty

User-generated Data: This warranty does not cover any claimed loss of or damage to user-generated data (including but without limitation phone numbers, addresses and images) that may be stored on your Product.

Statement of Remedy: If the Product is found not to conform to this warranty as stated above, the Warrantor, at its discretion, will either repair the defect or replace the Product without any charge for parts or service. This warranty does not include any reimbursement or payment of any consequential damages claimed to arise from a Product's failure to comply with the warranty.

Our goods come with guarantees that cannot be excluded under the Australian Consumer Law. You are entitled to a replacement or refund for a major failure and for compensation for any other reasonably foreseeable loss or damage. You are also entitled to have the goods repaired or replaced if the goods fail to be of acceptable quality and the failure does not amount to a major failure.

This warranty is in addition to and sits alongside your rights under either the COMPETITION AND CONSUMER ACT 2010 (Australia) or the CONSUMER GUARANTEES ACT (New Zealand) as the case may be, none of which can be excluded.

Procedure for obtaining warranty service: Depending on the country in which the Product was first purchased, if you believe that your Product does not conform with this warranty, you should deliver the Product, together with satisfactory evidence of your original purchase (such as a legible copy of the sales docket) to Uniden. Please refer to the Uniden website for address details. You should contact Uniden regarding any compensation that may be payable for your expenses incurred in making a warranty claim. Prior to delivery, we recommend that you make a backup copy of any phone numbers, images or other data stored on your Product, in case it is lost or damaged during warranty service.

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THANK YOU FOR BUYING A UNIDEN PRODUCT.

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