Uniden®

UH506SX-2NB
UHF CB Radio

For more exciting new products please visit our website:
Australia: www.uniden.com.au
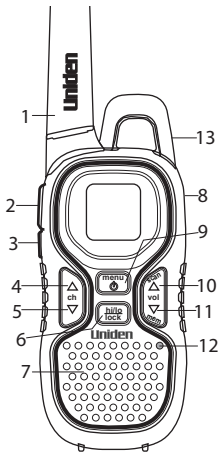**New Zealand: www.uniden.co.nz**

OWNER'S **MANUAL**

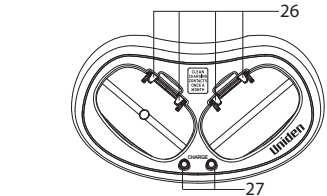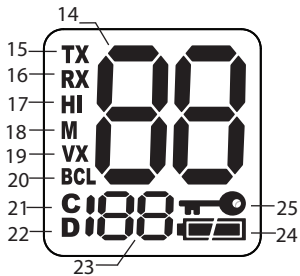# Controls & Indicators

Included in your Package
- UH506SX-2NB Radio (2)
- Owner's Manual
- Belt Clip (2)
- Charging Cradle with AC Adaptor
- NiMH Battery Pack (2)
- Carabiner Clip (2)

Optional Accessories
- Speaker MIC
- VOX Headset

1 Antenna
2 PTT (Push to Talk) Button
3 Call/Monitor Button
4 Channel Up Key
5 Channel Down Key
6 hi/lo lock Key
7 Speaker
8 Accessory Jack
9 Menu/Power Key
10 Volume Up/Scan Key
11 Volume Down/Memory Key
12 Microphone
13 Carabiner Loop

14 Channel Indicator
15 TX - Transmit
16 RX - Signal Receive
17 HI - Power Hi/Lo
18 M - Memory Channel
19 VX - Voice Activation Mode
20 BCL - Busy Channel Lockout
21 (CTCSS) - Continuous Tone Coded Squelch System
22 (DCS) - Digitally Coded Squelch
23 CTCSS/DCS Code
24 Battery Level
25 Keylock
26 Charging Contacts
27 Charge LED

Getting Started

NOTE

Uniden does not represent this product to be waterproof. Do not expose this product to Rain or Moisture.

Battery Installation

Your UH506SX-2NB unit uses the included NiMH battery pack for power. The unit can be powered with optional 3 AAA ALKALINE batteries*.
The TX power is always low for alkaline batteries.

NOTE

If you don't use the UH506SX-2NB for long periods, Uniden recommends removing the batteries.

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

To install the batteries:

1. Make sure your radio is off.
2. Release the battery cover clip, then remove the battery cover.
3. Insert NiMH battery pack according to the orientation on the battery pack.

OR

Insert 3 AAA ALKALINE batteries (not included) according to the polarity symbols inside the battery compartment.

4. Align the battery cover tabs with the UH506SX-2NB tab holes then replace the cover clip.
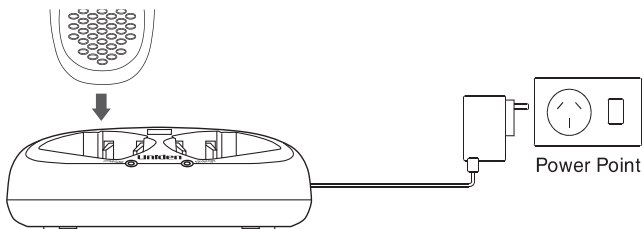

NOTE

Do not charge alkaline or non rechargeable batteries.

Getting Started

Installing the Charge Cradle

1. Plug the AC adaptor into the rear of the charge cradle and into the mains power.

Power Point

2. Place the UH506SX-2NB into the charge cradle.
   The charge light will come on to indicate the unit is charging.

3. Before operating the UH506SX-2NB, charge the battery pack for 16 hours.

⚠️ NOTE

Do not charge alkaline or non rechargeable batteries.

User License Information

⚠️ NOTE

The citizen band radio service is licenced in Australia by ACMA Radio-communications (Citizen Band Radio Stations) Class Licence and in New Zealand by MED General User Licence for Citizen Band Radio and operation is subject to conditions contained in those licences.

Getting Started

Belt Clip

To attach the belt clip:
Slide the belt clip until it snaps into place.

To remove the belt clip:
To remove the belt clip, slightly lift the belt clip locker and slide the belt clip at the same time until released.

Using the Carabiner Clip

Use the carabiner clip to conveniently secure the UH506SX-2NB to a belt or strap.

Low Battery Alert

If the battery level becomes low, the battery indicator icon on the display begins flashing. When the batteries in the unit are low, the unit will go into a battery low mode. The Transmit mode is disabled. Replace the alkaline batteries immediately or if you are using the NiMH battery pack, place the radio on the charge cradle to recharge. Full charge will take up to 16 Hrs.
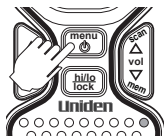
Back Light

The UH506SX-2NB has an automatic display back light which remains on for 10 seconds after a key press (all keys except PTT key). The back light will work even if the keypad is locked but will not work during low battery alert mode.

Operation

Power On/Off

1. Press and hold **menu**/⏻ to turn the radio on.
   A channel number will appear on the display.
2. Press and hold **menu**/⏻ to turn the radio off.

> ⚠ **NOTE**
> Power Off feature is not available in the Menu mode. Exit Menu mode to use Power Off feature.

Volume

The volume level can be adjusted from 0 (min volume) to 7 (maximum volume). Press **(vol)** ▲ or ▼ to increase or decrease the volume level. **U** and the current volume level will flash on the display.

Keypad Lock

To prevent accidental entries, you can lock the keypad. Press and hold **(hi/lo/lock)** for 1.5 secs until it beeps to activate Key Lock. The 🔑 appears.
To unlock the keypad, press and hold **(hi/lo/lock)** again for 1.5 Secs. The 🔑 disappears.

> ⚠ **NOTE**
> While in Keylock on mode, the UH506SX-2NB can still receive and transmit.

Operation

Selecting A Channel

Press **(ch)** ▲ or ▼ to select the desired channel. If you press and hold **(ch)** ▲ or ▼ the channel numbers will scroll rapidly.

<div>

⚠️ **NOTE**   Refer to channel guidelines on page 12. For Australia, Channels 05 and 35 are reserved for Emergency Calls.
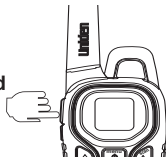
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To Transmit And Receive
The radio uses the UHF-CB Channels.
(Channels 22 and 23 are for telemetry and telecommand applications, channels 61,62 and 63 are for future use. TX is inhibited on these channels.)

The maximum RF transmit power of UH506SX-2NB is 0.7W.
1. Before you transmit, listen for activity on the selected channel.
2. When the channel is clear, press (PTT) to transmit at the selected hi/lo transmit power.

TX appears on the LCD during transmit.The unit cannot transmit continually for more than 3 minutes. If the user transmits continually for more than 3 minutes, the unit stops transmitting a signal. The TX icon and the Channel segment will blink and sound a tone.

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

3. When you have finished speaking, release **(PTT)** for a response then **TX** disappears on the LCD. **RX** appears while receiving a signal.

Transmit Power Select
To change your transmit power level press **hi/lo lock**. To revert to the previous power level, press the **hi/lo lock** again. When the TX Power setting is set to low, HI icon is not displayed on the LCD.When the TX Power setting is set to high, HI icon is displayed on the LCD. The RF transmit power of the UH506SX-2NB is selectable between 0.7/0.5 W.

Operation

Automatic Squelch Feature

The UH506SX-2NB is equipped with an Automatic Squelch System which shuts off weak transmissions and unwanted noise.

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 continuous listening. Press and hold **(CALL/MON)**.
  A double tone beep will be heard and the receiver circuit will stay open, letting in both the noise & weak signals.
- **RX** flashes.
- To return to normal receive mode press and hold **(CALL/MON)**.

Scanning

The UH506SX-2NB has two types of scanning; Open Scanning (OS) and Group Scanning (GS), OS Scan searches all the channels and frequencies in its memory continuously. GS Scan is similar to OS scan but has the added ability to monitor the priority channel every 1.5 seconds.

Scanning searchs for active channels programmed in the OS or GS memory.

To initiate scanning,
1. Assuming the unit is on CH01 when switched on.
2. Press and hold **vol ▲ (scan)** and scanning starts.

Open Scan (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.

⚠ **NOTE**	The factory has preprogrammed all the UHF-CB channels into the Open Scan channel memory. However, you can change or customise the channels by following the steps on programming Scan Channels on page 8.

To skip the active channel, press **(ch) ▲** or **▼**. Scanning resumes.
To deactivate SCAN, press **(PTT)** or press and hold **vol ▲ (scan)**.

Operation

Group Scan(GS) Mode
To change between OS and GS scan;
1. Press **(menu)** three times. **GS** setting flashes.
2. Press **(ch)** ▲ or ▼ or **(vol)** ▲ or ▼ to change the selection.
3. Press & hold **(menu)** to save and exit.
To initiate scanning,
1. When **vol ▲ scan** is pressed during Group Scan Mode, Group Scanning begins.
2. To deactivate GS scanning, press **(PTT)** or press and hold **vol ▲ (scan)**.

> ⚠ NOTE
>
> 1. If SCAN is deactivated while it is tuned to an active channel, the UH506SX-2NB will stay on that active channel. If none of the channels re-active, the radio will reinstate the Scan start channel.
> 2. If OS/GS Scanning is initiated when there are no channels programmed in OS/GS memory, an error tone will be heard and scanning will not start.

Priority Channel Watch During Group Scan
The feature monitors the Priority channel every 1.5 secs during GS.

1. Press **(menu)** four times. **Pr** setting flashes.
2. Press **(ch)** ▲ or ▼ or **(vol)** ▲ or ▼ to select the desired channel.
3. Press & hold **(menu)** to save and exit.

Programming Scan Channels
1. Select which Scanning Mode you wish to use on the channel OS or GS Mode.
2. Select the channel you want to store by pressing **(ch)** ▲ or ▼.
3. Press and hold **vol ▼(mem)** to store.
   M icon appears.
4. To remove the channel from Memory, Press and hold **vol ▼(mem)** to remove. **M** icon disappears.

Drop-Out Delay
While scanning, the radio stops at a busy channel and receives a signal. When the received signal is over, the unit will wait for 2 seconds for the return of the signal, otherwise, the radio resumes scanning.

Operation

To Operate In Duplex Mode (Repeaters)

The Duplex function enables you to access local repeater stations.

 NOTE You can only activate Duplex on CH01-CH08 and CH41-CH48.

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.

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

1. Press **(menu)** twice. 'dP' will flash on the screen.
2. Press **(ch)** ▲ or ▼ or **(vol)** ▲ or ▼ to change the selection. **r** appears for CH01-CH08 and **n** appears for CH41-CH48 when duplex is selected.
3. Press & hold **(menu)** to save and exit.

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

Operation with the aid of a Repeater

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.

1. Select desired channel.
2. Press **(menu)** once. **CTCSS** setting flashes.
3. Press **(ch)** ▲ or ▼ or **(vol)** ▲ or ▼ to change the selection.
4. Press & hold **(menu)** to save and exit.

Operation

DCS
(Digital Coded Squelch)
DCS is a digital extension of CTCSS. It provides 104 extra, digitally coded, squelch codes that follow after the 38 CTCSS codes. CTCSS 1-38, followed by DCS 1-104.

Follow the steps for changing CTCSS code but select DCS code as desired.

⚠️ **NOTE** Channels 05 and 35 are used for emergency channels. CTCSS and DCS will not operate on these two channels.

VOX
VOX is the automatic transmitting function by inputting voice into the VOX headset mic without pressing the PTT key. While headset microphone is not connected, VOX function is inactive even if VOX level setting is from 1 to 5. **VX** appears when VOX level setting is from 1 to 5.

1. Press **(menu)** seven times. **VX** setting flashes.
2. Press **(ch)** ▲ or ▼ or **(vol)** ▲ or ▼ to select the desired setting. The 6 VOX levels are from 1 (high sensitivity) to 5 (low sensitivity) and Off.
3. Press & hold **(menu)** to save and exit.

Busy Channel Lockout
This feature prevents accidental transmission on a busy channel. For example, BCL is used when CTCSS or DCS is selected to prevent transmission when the radio detects a transmission from another unit using the same CTCSS or DCS code.

1. Press **(menu)** five times. **BCL** setting flashes.
2. Press **(ch)** ▲ or ▼ or **(vol)** ▲ or ▼ to change the setting on or off.
3. Press & hold **(menu)** to save and exit.

Operation

Call Tone

Your UH506SX-2NB radio is equipped with 5 selectable call tones that will be transmitted when **CALL/MON** is pressed.

1. Press **(menu)** six times. **CL** setting flashes.
2. Press **(ch)** ▲ or ▼ or **(vol)** ▲ or ▼ to
   change the selection. The 5 call tones are CL 1 to CL 5.
   A sample of the call tone is sounded when selected.
3. Press & hold **(menu)** to save and exit.

> ⚠️
> **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.

Key Beep

Assures the user that the keypad has been properly pressed by emitting a beep tone. This tone can be switched on or off.

1. Press **(menu)** nine times. **bP** setting flashes.
2. Press **(ch)** ▲ or ▼ or **(vol)** ▲ or ▼ to change the setting on or off.
3. Press & hold **(menu)** to save and exit.

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.

1. Press **(menu)** eight times. **rb** setting flashes.
2. Press **(ch)** ▲ or ▼ or **(vol)** ▲ or ▼ to change the setting on or off.
3. Press & hold **(menu)** to save and exit.

UHF Channels 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/DCS 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, channels 61, 62 and 63 are for future use 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.

Warranty

UNIDEN UH506SX-2NB UHF-CB Radio

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 either Uniden Australia Pty Limited ABN 58 001 865 498 ("Uniden Aust") or Uniden New Zealand Limited ("Uniden NZ") as the case may be.

Terms of Warranty: Uniden Aust/NZ warrants to the original retail purchaser only that the UH506SX-2NB Radio ("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 and will expire one (1) year from the date of the original retail sale.

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 Aust or Uniden NZ;
(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.

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.

Warranty

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 at the addresses shown below. 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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