



Uniden[®]



XTRAK
50 Series
UHF CB HANDHELD
TRANSCEIVER

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

OWNER'S MANUAL

Warning

WATERPROOF: IP67

Uniden's XTRAK 50 / XTRAK 50 PRO radio is designed to meet the water & dust ingress standard of IP67.

This Means:

Being defined as able to withstand water splashes from any direction.

The XTRAK 50 / XTRAK 50 PRO will only meet this rating if fully assembled and all knobs, covers and fittings are well maintained and correctly fitted. This means that the accessory cover is fully closed, and the battery pack and antenna are attached and securely fastened.

Note: Radio does not retain its IP67 rating when an accessory Earpiece or Speaker MIC is connected.

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.



NOTE

USER LICENSE INFORMATION

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

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Introduction

The XTRAK 50 / XTRAK 50 PRO is an IP67 waterproof, 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 XTRAK 50 features, please read this operating guide carefully before using the unit.

FEATURES

- UHF-CB 80 Channel Narrow Band Transceiver Radio¹
- 1W/5W Transmit Power
- Waterproof to IP67²
- 2W Speaker
- Duplex (Repeater) Mode
- 10 Different Call Tones
- VOX Function
- Roger Beep Function
- Accessory Jack
- Rechargeable Lithium-Ion Battery
- Low Battery Alert
- Battery Strength Indicator
- LED Torch /SOS
- Auto Battery Save

Channel (CH) Features

- Master Scan (for uninterrupted Transmit & Recieve)
- Channel Select
- Instant CH Programme/Recall
- Group Scan w/Priority CH Watch
- Open Scan
- Scan CH Memory
- Busy CH Lock-out Function
- 50 CTCSS (Continuous Tone Coded Squelch System) codes
- 104 DCS (Digital Coded Squelch) codes

Special Features

- Instant Replay (Receive Record & Playback)
- One-Touch Smart Key
- Voice Enhancer (EQL)
- 5 Voice Scramble Settings
- Bluetooth® App³ for Location Tracking, Settings Control & Software Upgrades
- Bluetooth® Audio³ to connect with optional BT earpiece

Control Features

- Negative OLED Display
- Display Dimmer control
- Signal Strength/ Power Meter
- Volume Control knob
- 5 Level Preset Squelch
- Key Beep on/off
- Keypad Lock

¹ Refer to page 35 - page 37 for channel information

² Radio meets waterproof (IP67) specifications only when battery, antenna and Accy jack cap are correctly fitted.

³ XTRAK 50 PRO only.

Note: Features and specifications are subject to continual improvement & change.

Included in your Package

Items	XTRAK 50 / 50 PRO	XTRAK 50 PRO DLX	XTRAK 50-2TP
XTRAK 50 UHF Radio	1	1	2
Lithium Battery (2700mAh)	1	1	2
Antenna	1	1	2
Belt Clip	1	1	2
Belt Clip (Swivel Type)	-	1	-
Drop-In Charger	1 (single)	1 (single)	1 (twin)
AC Adaptor	1	1	1
Cig-Lead Adaptor	1	-	-
Cig-Lead Charger (Kit)	-	1	1
Speaker Mic	1	1	2
Earpiece Mic	1	1	2
Mag. Mount Antenna	-	1	1
Hang-up Bracket & Clip	-	1	-
Hard Carry Case	-	-	1
Owner's Manual	1	1	1

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

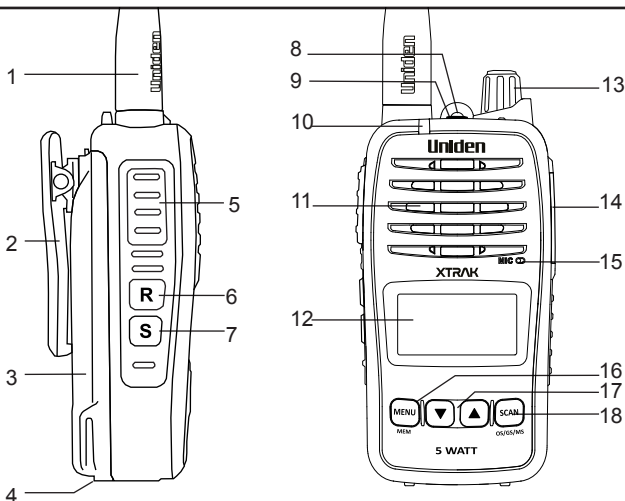
Optional Accessories


- Speaker Mic
- Earpiece Mic

Visit the XTRAK 50 / XTRAK 50 PRO page on the website for more information on the availability & range of optional accessories;

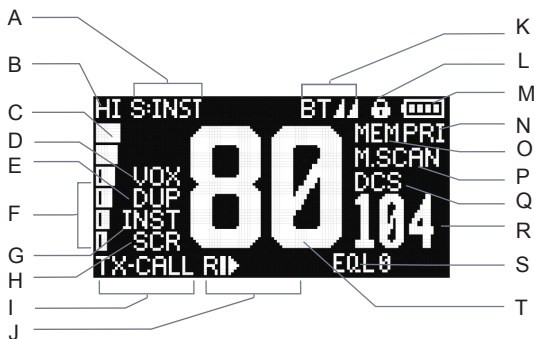
www.uniden.com.au

Controls and Indicators



- | | |
|---|---|
| <p>1 Antenna</p> <p>2 Belt Clip</p> <p>3 Battery</p> <p>4 Battery Release Latch</p> <p>5 [PTT] (Push to Talk) Key</p> <p>6 [R] Instant Replay Key</p> <p>7 [S] Programmable SMART key
Default function: Instant Channel
- Press to use current function
- Press & hold to change function</p> <p>8 Torch /S.O.S Strobe LED</p> <p>9  [TORCH /S.O.S]
Press to toggle:
Torch ON > S.O.S > Torch OFF</p> <p>[KEY LOCK]
Press & hold to lock / unlock</p> <p>10 Transmit (Red) /Receive (Green)
LED Indicator</p> <p>11 Speaker</p> | <p>12 OLED Display</p> <p>13 [ON/OFF VOL] Rotary Knob
- Power On/Off
- Volume Control</p> <p>14 Accessory Jack & Cover</p> <p>15 Microphone</p> <p>16 [MENU]
- Press to open Menu or select Menu option
- Press & hold in Menu mode to save and exit</p> <p>/ [MEM] Scan memory key
- Press & hold in standby mode</p> <p>17 [▲] Channel / Menu list UP
[▼] Channel / Menu list DOWN</p> <p>18 [SCAN] SCAN key
/ [OS/GS/MS] Scan mode
Open Scan / Group Scan / Master Scan</p> |
|---|---|

Controls and Indicators



A **S:INST** Smart Key Status

INST > **CALL** > **EQL** >
MON > **PAIR*** > **INST**...

B **HI / LO** TX Power Level

C Signal Strength Meter

D **VOX** Voice Activated Transmission is On

E **DUP** Channel is in Duplex mode

F Squelch Level Indicator

G **INST** CH is the Instant CH

H **SCR** Voice Scramble is On

I Transceiver status

TX - Transmitting

CALL - Sending Call Tone

VOX - Voice activation

RX - Receiving a Signal

MON - Monitor mode

J Replay status

REPLAY - Replay Rec. is ON

REPLAY - Replay Rec. is OFF

REPLAY - Playback is on

K Bluetooth status*

L **Key Lock** is On

M Battery Level Indicator

N **PRI** - Priority Watch for Group Scan is On

O **MEM** - CH is in Scan Memory

P Scan mode

O.S - Open Scan

G.S - Group Scan

M.S - Master Scan

SCAN - Flashes during scan

Q Sub Code Type

DCS / CTCSS

R Sub Code No.

S **EQL** status
 (appears during RX only)

T UHF CB Channel

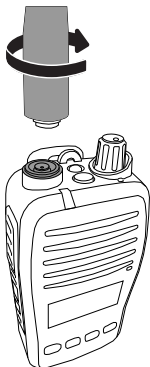
*XTRAK 50 PRO Only

Getting Started

Attaching the Antenna

The XTRAK 50 comes with a precision tuned 477MHz antenna for UHF-CB use.

Attach the antenna to the XTRAK 50. Be sure the antenna is firmly seated.

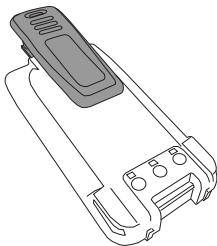


Attaching the Beltclip

The belt clip attaches to the battery pack and may be pre-installed for convenience on some model packages.

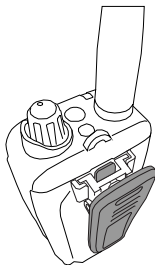
To attach the belt clip:

1. Slide the belt clip into the catch at the top of the battery until it snaps into place.



To remove the belt clip:

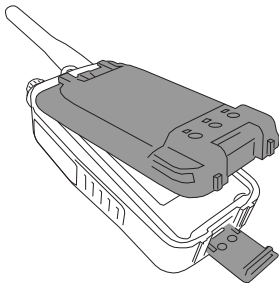
1. Pinch and hold the belt clip latch and then slide the belt clip up and out of the catch. (Belt clip can be removed from the battery even when installed in the radio.)



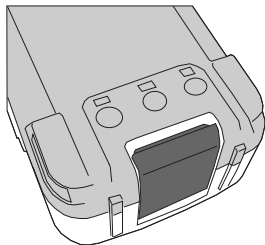
Getting Started

Attaching the Battery Pack

1. Install the battery pack into the back of the radio making sure the tabs at the top of the battery slide in first.



2. Press together the bottom of the battery pack and the radio, and then close the battery latch until it locks the battery in place.



Avoid exposing the Lithium Ion battery, attached or unattached to the radio, in direct sunshine, heated cars, or in areas with temperatures below -20°C (-4°F) or above $+60^{\circ}\text{C}$ ($+140^{\circ}\text{F}$).



CAUTION

Exposing the chemicals contained within the battery pack to temperatures above $+60^{\circ}\text{C}$ ($+140^{\circ}\text{F}$) 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 2.

Getting Started

Connect the Drop-in Charger with AC Adaptor

Plug one end of the AC adapter into a 240V AC wall outlet and the other end into the drop-in charger.

If you use the drop-in charger in a mobile vehicle with 12V DC power, use the optional cig-lead adaptor.

The charger's LED light only indicates when a radio or battery is installed & charging.

Charging the Battery Pack

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

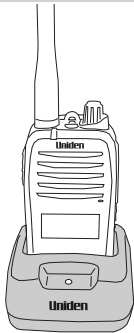
- Before operating the XTRAK 50, charge the Lithium Ion battery pack for 4 hours without interruption in the drop-in charger.



NOTE

For the initial battery charge, make sure the radio is off for optimum charging.

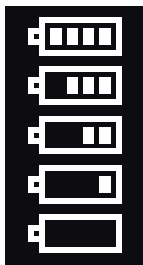
1. Place the XTRAK 50 in the drop-in charger.
 2. If the radio battery is charging, the LED illuminates red and stays red until fully charged, then it illuminates green.
- The charger won't overcharge the battery pack. When charging is completed, the charge LED changes colour from red to green.
 - You can monitor incoming calls while the XTRAK 50 is in the drop-in charger.
 - **Do not transmit when the XTRAK 50 is in the drop-in charger!**



Getting Started

Battery Level Display

- LEVEL 5 Battery 100% full
- LEVEL 4 Battery approx. 75% capacity
- LEVEL 3 Battery approx. 50% capacity
- LEVEL 2 Battery approx. 25% capacity
- LEVEL 1 Battery low



Recharge the battery at any time. From empty, the battery will take up to 4 hours to fully charge.

Battery life, based on below duty cycle with minimum settings (Dimmer low, Bluetooth off (*XTRAK 50 PRO only*), Replay off):

- up to 30 Hours at 1W and up to 20 Hours at 5W

Duty Cycle:	Transmit	5%
	Receive	5%
	Stand-by	90%

Automatic Battery Save

The Automatic Battery Save feature extends the battery life by switching to power save mode if it remains out of operation for 5 seconds. This feature automatically activates during standby mode (RX mode without a signal).

Accessory Jack (SPKR/MIC) Cover

Make sure the Accessory jack cover is firmly pushed in to maintain waterproof rating. Release the Accessory jack cover to plug in an optional Speaker MIC or Earpiece MIC.

Operation | MENU

- See the Controls and Indicators on page 6 of this operating guide for control knob and key operations.
- In addition to the key and control knob functions, many features are available in the Menu.

MENU Order List

01	TX Power	10	VOX
02	Squelch	11	BCL
03	CTCSS / DCS	12	Call Tone
04	Scramble	13	Roger Beep
05	Duplex	14	Key Beep
06	Priority Watch	15	Replay (RX Rec.)
07	Pri/Inst CH	16	Dimmer
08	GS Mem. Preset	17	Bluetooth App*
09	M.Scan Code	18	Bluetooth Audio*

* XTRAK 50 PRO only

Each MENU function is described in their respective operations.

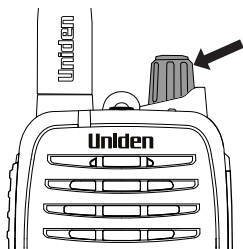
To use the MENU:

1. Press **[MENU]** and then press **[▲]** or **[▼]** to highlight a menu option.
2. Press **[MENU]** to select the option.
3. Press **[▲]** or **[▼]** to highlight a setting option.
4. Press & hold **[MENU]** to store the setting and exit menu mode.

Operation

Power On/Off

To turn the unit **ON**, rotate the **[ON/OFF VOL]** clockwise. After the start up screen displays, a channel number and battery level should appear on the display.



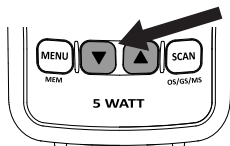
To turn the unit **OFF**, rotate the **[ON/OFF VOL]** knob counter-clockwise. The display will turn off.

Volume

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

Selecting a Channel

Press **[▲]** or **[▼]** to select the desired channel.



NOTE

For your reference a list of the available channels, corresponding frequencies and guidelines for their use and selection is printed on page 37. For Australia, Channels 05 and 35 are reserved for Emergency Calls.

Operation

Squelch

The squelch is used to eliminate the annoying background noise when there is no signal present on a channel. The squelch circuit does this by controlling when the radio's speaker turns on, based on the strength of received signals.



NOTE

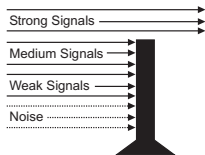
Make sure to first select a channel not in use before setting the squelch in your XTRAK radio.

The Auto Squelch feature has 0-5 preset squelch levels:
It requires no adjustment once set.

- 0 - Monitor mode (open squelch): Fully open to noise & signals.
- 1 - max sensitivity (min squelch): Weak (distant) signals can open the squelch.
- 3 - med sensitivity (med squelch): Medium and strong signals can open the squelch.
- 5 - min sensitivity (max/tight squelch): Strong/nearby signals can open the squelch.

To set the Squelch level:

1. Press **[MENU]**. Press **[▲]** or **[▼]** until **02 Squelch** is highlighted.
2. Press **[MENU]** to select.
3. Press **[▲]** or **[▼]** to select the desired squelch level.
4. Press & hold **[MENU]** to save the setting and exit menu mode.



NOTE

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, adjust the squelch level accordingly.

Operation

To Transmit and Receive

The XTRAK uses the UHF-CB Channels. For your reference a list of the available channels and corresponding frequencies is printed on page 35 - page 37.

The maximum RF transmit power of the XTRAK is 5 Watts.

To switch between 5 Watts (Hi) and 1 Watt (Lo) power:

1. Press **[MENU]**. **01 TX Power** is the first option.
2. Press **[MENU]** again. The setting displays at the current level.
3. Press **[▲]** or **[▼]** to select a power level setting.
4. Press & hold **[MENU]** to store the setting and exit menu mode.

To Transmit and Receive:

1. Before you transmit, listen for activity on the selected channel.
2. When the channel is clear, press and hold the **[PTT]** to transmit. While **[PTT]** is pressed the transmit/receive LED lights up red and the **TX** icon displays.

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.

3. When you have finished speaking, release the **[PTT]** and listen for a response. The transmit/received LED turns off and the **TX** icon disappears from the display.

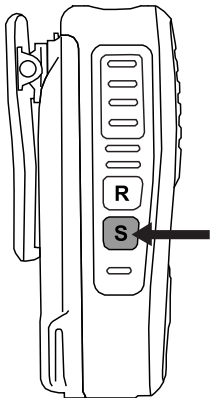
When a transmission is being received by your radio the transmit/receive LED lights up green and the **RX** icon and current EQL level icon displays.

Operation

SMART Key Operation

The SMART key **[S]**, can be programmed (set) to operate one of these one-touch functions.

- INST - Instant Channel recall (default)
- CALL - Call Tone transmit
- EQL - Equaliser level increment/cycle
- MON - Monitor mode on/off
- PAIR - Pair (*XTRAK 50 PRO only*)



1. Press & hold the **[S]** key to set the next function.
The icon for the function will display.
2. Press **[S]** to use the current function.

Instant Channel Function (Priority Channel)

The Instant Channel Function allows a one-touch toggle between a priority channel and the current channel.

To use Instant Channel:

By default the SMART **[S]** key is set to the Instant Channel function.

When the SMART key is set to INST;

1. Press **[S]** to go to the stored Instant channel.
 - The default channel is the emergency CH 05.
 - The Instant channel is always indicated by the **INST** icon.
2. Press **[S]** again to return to the previous channel.

Operation

To store a new channel as the Instant Channel:

1. Press **[MENU]**. Press **[▲]** or **[▼]** until **07 Pri/Inst CH** is highlighted.
2. Press **[MENU]** again. The setting displays at the current Instant CH.
3. Press **[▲]** or **[▼]** to select a desired channel to set.
4. Press & hold **[MENU]** to store the setting and exit menu mode.

Call Function

The Call function transmits a short “wake up” tone to notify other users of impending communication. You may select from 10 types of tones.

To use the Call function:

Before you use Call, make sure the channel is not in use.

When the SMART key is set to CALL;

1. Press **[S]** and the Call Tone will be transmitted.



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.

Selecting a Call Tone

Select from 10 calling tones to use with the Call Tone function.

To change the Call Tone pattern:

1. Press **[MENU]**. Press **[▲]** or **[▼]** until **12 Call Tone** is highlighted.
2. Press **[MENU]** again. The setting displays at the current tone pattern.
3. Press **[▲]** or **[▼]** to select a desired tone pattern.
4. Press & hold **[MENU]** to store the setting and exit menu mode.

Operation

EQL (Equaliser - Voice Enhance Setting)

Choose from 4 different receive audio level settings to provide a natural Voice Enhance for clarity and performance.

When the SMART key is programmed to **EQL**;

1. Press **[S]** to increment/cycle the setting between the 4 levels;

EQL 0: Normal - Standard or FLAT.

EQL 1: Bass - Enhanced low frequencies, sound quality becomes mild and easy to listen to, not causing fatigue.

EQL 2: Midrange - Enhanced midrange frequencies, sound quality becomes clear.

EQL 3: High - Enhanced the high frequencied, sound quality becomes sharp.



When a signal is received, except for when in Monitor mode, the current EQL level will display.

Monitor Mode

When the SMART key is programmed to **MON**;

1. Press **[S]** to turn Monitor mode On or Off.

Monitor mode is also entered when the SQL level is set to Sq0.

Pairing (*XTRAK 50 PRO Only*)

XTRAK 50 PRO only - See Bluetooth Audio page 32.

Operation

Using a Repeater Channel

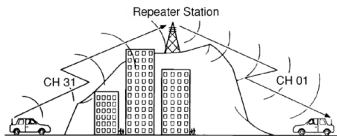
UHF-CB Repeaters are used to retransmit or relay your signal. Repeaters will extend the range of your radio and overcome the shielding effect caused by solid obstructions.

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.

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.35 - p.37.

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

Operation

To Operate in Duplex Mode (using a Repeater)

Only channels 01 - 08 and 41 - 48 are available for Duplex.

1. Press **[MENU]**. Press **[▲]** or **[▼]** until **05 Duplex** is highlighted.
2. Press **[MENU]** to select.
3. Press **[▲]** or **[▼]** to turn Duplex mode On or Off.
4. Press & hold **[MENU]** to save the setting and exit menu mode.

DUP icon appears beside the channel when Duplex setting is enabled for a duplex capable channel.



NOTE

- Search online for available UHF-CB repeaters in your area.
- Check local repeater availability using the XTRAK App (*XTRAK 50 PRO only*).

Operation

Scanning

The scan feature allows you to search for active channels automatically. You can only scan channels that are stored in the Scan memory.

The XTRAK 50 has two Scan modes (two groups of Scan memory);

- Open Scan (OS) mode,
- Group Scan (GS) mode.

Indicated by the **O.S** or **G.S** icon on the display. A channel is stored in the scan memory of the current scan mode when the **MEM** icon appears beside the channel number.



NOTE

By default the XTRAK is set to OS scan mode with all UHF-CB channels stored into the OS channel memory. The GS scan memory by default is empty - awaiting user customisation.

You can change or customize the channels stored in OS or GS scan memory by following the steps on *Add/Remove Channels from SCAN Memory* on page 22.

What is Open Scan (OS) Mode?

OS scans all memory (MEM) channels in the OS scan memory. If an active channel is found, scanning will pause on that channel while there is a signal.

What is Group Scan (GS) Mode?

Allows you to monitor the Instant Channel (as a Priority Channel) while scanning the GS memory (MEM) channels.

See *To store a new channel as the Instant Channel*, page 17 for how to set the Priority channel.



NOTE

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

Operation

Add/Remove Channels from SCAN memory

1. Select which Scanning Mode you wish to use.

Press & hold the **[OS/GS/MS]** key to change OS or GS Mode.

O.S or **G.S** icon appears on the display.

2. Press **[▲]** or **[▼]** to select the channel you want to store.

3. Press & hold **[MEM]** for 1.5 secs. to store.

MEM icon appears and a short tone beep is heard.

4. To remove the channels from Memory:

Press & hold **[MEM]** for 1.5 seconds once more.

Two short tone beeps are heard and the **MEM** icon disappears.

To Start Channel SCAN

1. Press **[SCAN]** and the radio will begin scanning the channels that are in the OS or GS memory - depending on which of these is currently active. **SCAN** icon flashes during scanning.

Scan Direction

SCAN will begin scanning for active channels in a sequential order.

You can change the scan direction (increasing or decreasing channel number) by pressing **[▲]** or **[▼]**.

Drop-out delay

When SCAN finds a busy channel it pauses scan to receive the signal. When the received signal stops, the radio waits for 3 seconds for the return of the signal, otherwise, the radio resumes scanning.

Recent Active Channels

SCAN remembers recent active channels and monitors these channels for activity while scanning through the scan memory. This means if recently active channels become active again during SCAN, the radio will pause on these channels first. This makes scanning for active channels more efficient (faster) the longer SCAN is operating.

Operation

Skipping an Active Channel

When paused on an active channel it is not possible to skip this channel as the recent active channel feature will cause scan to lock back onto that active channel. Wait for the active channel to become inactive and SCAN will resume. If you want to avoid an active channel completely, deactivate SCAN and remove the channel from the scan memory, then reactivate SCAN.

Priority Channel in GS Mode

In GS mode if SCAN is paused on an active channel that is not the Priority Channel, and the Priority Channel becomes active, the radio will switch to the Priority Channel for as long as there is a signal.

2. To deactivate SCAN, press **[SCAN]** or **[MENU]**.

If SCAN is deactivated while it is tuned to an active channel, the XTRAK will stay on that active channel.



If SCAN is deactivated while in-between active channels, the XTRAK will reinstate the last active channel.

If SCAN is deactivated when no active channel has been found, the XTRAK will reinstate the starting channel.

Priority Watch for Group Scan

To switch Priority Watch On/Off;

1. Press **[MENU]** and then press **[▲]** or **[▼]** until **06 Priority Watch** is highlighted.
2. Press **[MENU]** to select the option.
3. Press **[▲]** or **[▼]** to highlight On or Off.
4. Press & hold **[MENU]** to store the setting.

Operation

CTCSS / DCS

CTCSS (Continuous Tone Coded Squelch System)

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. And as there are 50 CTCSS codes available the chances of nearby users using the same code is unlikely.

DCS (Digital Coded Squelch)

DCS is a digital version of CTCSS. It provides 104 extra, digitally coded squelch codes that follow after the 50 CTCSS codes. Follow the steps for changing CTCSS code but select a DCS code as desired.

To use CTCSS or DCS:

1. Press **[MENU]** and then press **[▲]** or **[▼]** until **03 CTCSS / DCS** is highlighted.
2. Press **[MENU]** to select the option.
3. Press **[▲]** or **[▼]** to select a CTCSS or DCS code.
 - There are 50 CTCSS codes available.
 - There are 104 DCS codes available
 - To turn off CTCSS / DCS, select OFF.
4. Press & hold **[MENU]** to store the setting and exit menu mode.

CTCSS or **DCS** icon, and the code number appears when a code is selected for a channel.



NOTE

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

Operation

BCL (Busy Channel Lock-out)

This feature prevents accidental transmission on a busy channel. This is recommended on channels where CTCSS or DCS is being used. If you hear sound from the speaker, the BCL feature will prevent you from transmitting.

To activate BCL:

1. Press **[MENU]** and then press **[▲]** or **[▼]** until **11 BCL** is highlighted.
2. Press **[MENU]** to select the option.
3. Press **[▲]** or **[▼]** to select On or Off.
4. Press & hold **[MENU]** to store the setting and exit menu mode.

Scramble (Voice Scramble)

The scramble feature is a voice inversion function that provides additional privacy with your communication.

Five scramble frequencies are available to choose from;
3300 Hz, 2952 Hz, 3039 Hz, 3200 Hz, 3400 Hz.

Make sure other radios you are communicating with are using the same scramble frequency.

1. Press **[MENU]** and then press **[▲]** or **[▼]** until **04 Scramble** is highlighted.
2. Press **[MENU]** to select the option.
3. Press **[▲]** or **[▼]** to select a desired scramble frequency.
4. Press & hold **[MENU]** to store the setting and exit menu mode.

SCR icon displays when Scramble is enabled.



NOTE

Scramble cannot be enabled on channels 05 & 35 (emergency channels) and channel 11 (road channel).

Operation

VOX (Voice Activated Transmit)

VOX is Voice activated transmission, no pressing of the PTT key. For optimum performance, use VOX when the accessory earpiece is connected. When VOX is turned on (levels 1-5) the earpiece microphone is most sensitive at level 1, and least sensitive at level 5.

To use VOX:

1. Press **[MENU]** and then press **[▲]** or **[▼]** until **10 VOX** is highlighted.
2. Press **[MENU]** to select the option.
3. Press **[▲]** or **[▼]** to select a desired VOX level.
4. Press & hold **[MENU]** to store the setting and exit menu mode.

VOX icon appears on the display when a VOX setting is enabled.

VOX icon also appears in the Transceiver status when VOX initiates a transmission.

Roger Beep

Roger Beep automatically adds a sign-off tone to the end of transmissions.

1. Press **[MENU]** and then press **[▲]** or **[▼]** until **13 Roger Beep** is highlighted.
2. Press **[MENU]** to select the option.
3. Press **[▲]** or **[▼]** to select On or Off.
4. Press & hold **[MENU]** to store the setting and exit menu mode.

Key Beep

Key Beep is the tone that sounds after a key press.

1. Press **[MENU]** and then press **[▲]** or **[▼]** until **14 Key Beep** is highlighted.
2. Press **[MENU]** to select the option.
3. Press **[▲]** or **[▼]** to select On or Off.
4. Press & hold **[MENU]** to store the setting and exit menu mode.

Operation

Display Dimmer

To change the display dimmer level:

1. Press **[MENU]** and then press **[▲]** or **[▼]** until **16 Dimmer** is highlighted.
2. Press **[MENU]** to select the option.
3. Press **[▲]** or **[▼]** to select a desired level.
4. Press & hold **[MENU]** to store the setting and exit menu mode.




NOTE

Changing the dimmer level will affect the battery operating time (see *Battery Level Display*, page 11). For optimum battery operating time, set to low.

Key Lock

To prevent accidental entries, you can lock the keypad. Only **[PTT]** and **[ON/OFF VOL]** are accessible when Key Lock is activated.

Press & hold **[KEY LOCK]** until it beeps to activate or deactivate Key Lock.  icon appears at the top of the display when activated.

LED Torch / S.O.S

Press **[KEY LOCK]** to toggle the LED torch between these options;
Torch ON > S.O.S strobe > Torch OFF



NOTE

Torch and S.O.S are only available when XTRAK is powered on.

Instant REPLAY (Receiver Record & Playback)

The Instant Replay feature automatically records up to 4 minutes of received signals which can be instantly replayed (through the speaker) by pressing **[R]**.

When on, Instant Replay automatically records receive signals in the normal channel mode and SCAN mode.

Press **[R]** at anytime to;

1. Playback the most recent received signal or,
2. Playback the most recent recorded signal in the replay buffer (if Instant Replay automatic receive record was turned Off, see Turning Instant Replay On/Off below).

During playback the display shows **REPLAY** and the number of the currently playing recording. After the most recent received signal has been played back, a long confirmation tone sounds and the radio returns to the previous mode.

During playback older recordings can be accessed by pressing **[▲]** or **[▼]** to skip forward/back between recordings stored within the buffer. The record number indicates which discrete recording is currently being replayed.





NOTE

- Received signals shorter than 500ms are not recorded.
- Automatic recording of receive signal(s) is temporarily suspended during Instant Replay playback.
- Older recordings are automatically overwritten when new recordings are stored.
- Most received communications are short and the record buffer may contain several recordings.
- Instant Replay does not record when in monitor mode (Sq0 setting in normal channel mode).
- Transmissions (TX) are not recorded.

Operation | Special Features

Turning Instant Replay On/Off

Instant Replay is ON by default. The  icon displays to indicate Instant Replay automatic record is On.  icon displays when Instant Replay is Off.

1. Press **[MENU]** and then press **[▲]** or **[▼]** until **15 Replay (RX Rec.)** is highlighted.
2. Press **[MENU]** to select the option.
3. Press **[▲]** or **[▼]** to select On or Off.
4. Press & hold **[MENU]** to store the setting and exit menu mode.

MASTER SCAN (Uninterrupted Transmit & Receive)

Master Scan is a Transmit & Receive mode, using scan, that will allow continual communication across congested channels.

Use Master Scan with other radios that are also set up to the same Master Scan settings. Master Scan will not work on its own or if its settings are different from other radios using Master Scan.

The two settings all radios in your Master Scan network must share are;

- Scanning the same set of channels from Group Scan (GS) memory
- Using the same CTCSS/DCS code

For your convenience, by default;

- Channels 09-20 are stored into GS Memory and
- CTCSS 01 is set as the Master Scan subcode.

By scanning only group channels for the group subcode, radios in the network will be able to detect and receive group transmissions - continual communication without interruption.

When transmitting in this mode, the radio switches to an unused group channel if it detects another signal with no CTCSS/DCS code, or the wrong code, on the channel last used by the group. In this way, all group users will be able to have continual communication within their group.

Operation | Special Features

Setting up Master Scan Mode

First, Select a G.S Memory Preset to use as the Master Scan channel group.

P- No Change Master Scan with the current Group Scan (GS) memory.

P1: Master Scan with CH 09-20 loaded into GS memory.

P2: Master Scan with CH 21-30, 39, 40 loaded into GS memory.

P3: Master Scan with CH 49-60 loaded into GS memory.

P4: Master Scan with CH 61-70, 79, 80 in GS memory.

1. Press **[MENU]** and then press **[▲]** or **[▼]** until **08 GS Mem. Preset** is highlighted.
2. Press **[MENU]** to select.
3. Press **[▲]** or **[▼]** to change the setting to a Master Scan option.
4. Press and hold **[MENU]** to save & exit from the menu mode.



NOTE

The Presets (1-4) make it easier for all radios to select a common setting. If you choose to use MASTER SCAN with the current GS channel memory (P- No Change), you need to make sure all other radios in your network have the same channels stored in GS memory. To add/remove channels from G.S SCAN Memory, refer to page 22.



NOTE

RX only Channels (CH22, CH23, CH61, CH62 and CH63) and Emergency Channels (CH05, CH35) will not be included in Master Scan Mode even though stored into GS Memory. Also channels for which Duplex Setting is On will be skipped in Master Scan Mode.

Second, Select a Master Scan subcode

1. Press **[MENU]** and then press **[▲]** or **[▼]** until **09 M.Scan Code** is highlighted.
2. Press **[MENU]** to select.
3. Press **[▲]** or **[▼]** to select a CTCSS or DCS code.
4. Press and hold **[MENU]** to save & exit from the menu mode.

Operation | Special Features

Using Master Scan

Once Master Scan has been set up for your radio and other radios in your network, simply press **[SCAN]** to enable or disable M.SCAN. The **SCAN** icon flashes in this mode.

When SCAN is enabled for Master Scan, simply use the radio (Transmit and Receive) as you would normally. Using Master Scan should feel like using a normal single channel.

Bluetooth® APP (*XTRAK 50 PRO Only*)

Through the built-in Bluetooth feature the XTRAK 50 PRO works with the free XTRAK App, available on the Apple Store for iOS smartphones and the Play Store for Android smartphones. Search for the XTRAK App by Uniden. User instructions for the app are embedded in the app.

Installing XTRAK App on your smartphone and connecting your smartphone to your radio over bluetooth allows you to share your location, even without mobile phone service. In addition, it offers recording tracks and controlling the radio settings from the convenience of your smartphone.

The instructions below are only a brief introduction as all instructions are provided within the XTRAK App.

Turn the Bluetooth App setting On when you are ready to connect with a compatible smartphone running the XTRAK App.



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Operation | Special Features

Bluetooth APP (*XTRAK 50 PRO Only*) - Continued

1. Press **[MENU]**, then use **[▲]** or **[▼]** to highlight **17 Bluetooth App**.
2. Press **[MENU]** to select.
3. Press **[▲]** or **[▼]** to select On or Off.
4. Press and hold **[MENU]** to save & exit from the menu mode.

The 1st Bluetooth signal icon will flash indicating awaiting pairing/connection with a compatible smartphone running the XTRAK App, and will stay steady after pairing/connection.

Bluetooth AUDIO (*XTRAK 50 PRO Only*)

Use this setting to connect the XTRAK 50 PRO to compatible Bluetooth devices for audio output (compatible Bluetooth earpiece).

Before turning the Bluetooth Audio setting On, first set the **[S]** Smart key to PAIR - see *SMART Key Operation* page 16.

Enable Bluetooth Audio

1. Press **[MENU]**, then use **[▲]** or **[▼]** to highlight **18 Bluetooth Audio**.
2. Press **[MENU]** to select.
3. Press **[▲]** or **[▼]** to select On or Off.
4. Press and hold **[MENU]** to save & exit from the menu mode.

The 2nd Bluetooth signal icon will flash indicating awaiting pairing or connection, and will stay steady after pairing/connection.

Pair/Connect to a Compatible Bluetooth audio device.

1. On the compatible bluetooth audio device, initiate pairing.
2. Press **[S]** (SMART key must be set to PAIR).



NOTE

Compatible with Bluetooth 5.0 devices.

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	39	69.4
14	107.2	40	159.8
15	110.9	41	165.5
16	114.8	42	171.3
17	118.8	43	177.3
18	123.0	44	183.5
19	127.3	45	189.9
20	131.8	46	196.6
21	136.5	47	199.5
22	141.3	48	206.5
23	146.2	49	229.1
24	151.4	50	254.1
25	156.7		

DCS Codes and Frequencies

Code No.	DCS Code (Octal)	Code No.	DCS Code (Octal)	Code No.	DCS Code (Octal)
1	023	36	223	71	445
2	025	37	225	72	446
3	026	38	226	73	452
4	031	39	243	74	454
5	032	40	244	75	455
6	036	41	245	76	462
7	043	42	246	77	464
8	047	43	251	78	465
9	051	44	252	79	466
10	053	45	255	80	503
11	054	46	261	81	506
12	065	47	263	82	516
13	071	48	265	83	523
14	072	49	266	84	526
15	073	50	271	85	532
16	074	51	274	86	546
17	114	52	306	87	565
18	115	53	311	88	606
19	116	54	315	89	612
20	122	55	325	90	624
21	125	56	331	91	627
22	131	57	332	92	631
23	132	58	343	93	632
24	134	59	346	94	654
25	143	60	351	95	662
26	145	61	356	96	664
27	152	62	364	97	703
28	155	63	365	98	712
29	156	64	371	99	723
30	162	65	411	100	731
31	165	66	412	101	732
32	172	67	413	102	734
33	174	68	423	103	743
34	205	69	431	104	754
35	212	70	432		

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.

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.



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 XTRAK 50, XTRAK 50 PRO 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 XTRAK 50 Series, or XTRAK 50 PRO 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	3 Years
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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