

# uniden®

## Bearcat®

### UBC100<sub>XLT</sub>

100 CHANNEL  
PROGRAMMABLE  
HAND HELD  
SCANNER

- 100 CHANNELS
- 9 BAND COVERAGE
- CRYSTAL FREE
- AUTOMATIC SEARCH
- PRIORITY CHANNEL
- SELECTIVE SCAN DELAY
- DISPLAY LIGHT
- AUTOMATIC LOCKOUT
- TRACK TUNING
- DIRECT CHANNEL ACCESS



OPERATING GUIDE

# Introduction

Welcome to the exciting world of hand held radio scanners. State-of-the-Art engineering and microelectronics provide programmable operation and dependability while minimizing size and power consumption. The keyboard allows you to program any VHF or UHF frequency on all 100 channels; and to control Scan, Lockout, Priority, Delay, Hold, Weather Search and Channel Bank selection as well as the programmable search functions. There is also a keyboard lock function to prevent accidental reprogramming of the unit. An LCD display provides frequency and operation information. There is a built-in light for night time use. The detachable NiCad battery pack provides hours of monitoring and recharges overnight. The case is designed to withstand the tough requirements of the hand held environment, and is built of high impact ABS plastic. There is also a leather case (included) to further protect this scanner. Please read this guide thoroughly before attempting to operate the unit.

## Warning

Uniden does **not** represent this unit to be **waterproofed**. To reduce the risk of fire, electrical shock or damage, do not expose this unit to rain or moisture.

**Note:** The use of a scanner in a vehicle may be regulated or prohibited in some countries. Check with your local authorities before operating a mobile scanner.

## Unpacking

Carefully remove all items from the shipping carton. If there is any visible damage or any item appears to be missing, notify your dealer immediately.

The following items are included with your UBC 100XLT:

- \* Bearcat Scanner
- \* AC Adaptor/Charger
- \* Flexible Antenna
- \* Carrying Case
- \* Earphone
- \* Operating Guide

Please keep the shipping carton, and packing materials. This carton serves as an excellent method to transport the scanner.

## CAUTION

When your unit has not been used for a longer period of time, it can fail to operate at first power up. Please try to reset the power switch again and see that it operates perfectly!

## Helpful Hints

The UBC 100XLT is a high quality electronic radio receiver. The following hints should help you understand and enjoy your unit.

1. Make sure the unit is turned off before removing the battery pack. You may want to record the programmed frequencies before doing this in case memory is lost.
2. If memory is lost, simply reprogram each channel. Memory loss will be indicated by unfamiliar frequencies in each channel.
3. If strong interference or electrical noise is received, you may need to relocate your scanner. A higher elevation such as the second floor may provide better reception. An external antenna may also be required.
4. Whenever the keypad is used it is important to press firmly on the center of each key.
5. Do not use the scanner in high moisture environment such as the kitchen or the bathroom.
6. Clean the outside of the cabinet with a mild detergent. Do not use abrasive cleansers or solvents. Be careful not to rub LCD window area.
7. There are no user serviceable parts inside with the exception of the battery pack. Do not attempt any repairs except replacing batteries.

## Battery Maintenance

NiCad batteries can develop a condition known as "memory". This condition can limit the amount of battery power available. To avoid this condition, the following battery maintenance steps should be practiced:

1. Every 2 - 3 months the scanner should be left on to drain all battery power. Be sure to write down the programmed frequencies for reprogramming when the batteries are charged.
2. Recharge the batteries for 14-16 hours to insure a full charge.
3. Do not leave the charger plugged in for long periods of time. Do not recharge the unit unless it needs it.

# Trouble Shooting

If your UBC 100XLT is not performing up to your expectations, try the steps listed below. If you cannot get satisfactory results you may need to send your unit in for service:

## 1. Scanner is not working properly.

- A. Check the power connections.
- B. Check the volume and squelch.
- C. Make sure programming is correct.

## 2. Signal is weak or distorted.

- A. Check antenna connection.
- B. Check proper frequencies.
- C. Make sure frequency is active.

## 3. Improper reception.

- A. Check proper frequencies.
- B. Reposition radio.
- C. Check antenna connection.

## 4. Scan won't stop.

- A. Check squelch adjustment.
- B. Check proper frequencies.
- C. Check antenna connection.
- D. Check lockout.

## 5. Incomplete reception.

- A. Fringe area of reception.
- B. Check squelch adjustment.

## 6. Keypad won't work.

- A. Check keypad lock switch.

## 7. Priority won't work.

- A. Check squelch adjustment.
- B. Improper frequency in Channel 1.

# Optional Accessories

The following accessories are available for your UBC 100XLT at your local dealer.  
**PS-001 Vehicle Power Cord** - This power cord is designed for use with the UBC 100XLT in a vehicle. This heavy duty cord comes complete with a cigarette lighter connector and fuse.

**BP-205 Extra Battery Pack** - For heavy use get an extra battery pack for your UBC 100XLT. Then, one can be charging while the other is in use.



# Specifications

<b>Band Coverage:</b>	9 Bands + Weather
<b>Frequency Range:</b>	66-88 MHz 118-136 MHz 136-144 MHz 144-148 MHz 148-174 MHz 406-420 MHz 420-450 MHz 450-470 MHz 470-512 MHz
<b>Channels:</b>	100 Channels (10-10 channel banks)
<b>Scan Speed:</b>	15 channels per second (scanning) 25 frequencies per second (search mode)
<b>Display:</b>	Illuminated Liquid Crystal
<b>Power Requirement:</b>	13.8V DC (internal battery, AC Adaptor or vehicle adaptor)
<b>Sensitivity:</b> (nominal) (12 dB SINAD)	0.3 $\mu$ V 66-88 MHz 0.6 $\mu$ V 118-136 MHz 0.4V 136-174 MHz 0.3 $\mu$ V 406-512 MHz
<b>Selectivity:</b>	-55dB @ $\pm$ 25 KHz
<b>Audio Output:</b>	500 milliwatts maximum
<b>Antenna:</b>	flexible antenna included
<b>Connectors:</b>	antenna, earphone, DC power
<b>Size:</b>	2 3/4"W x 7 1/2"H x 1 1/4"D
<b>Weight:</b>	1 lb., 4 oz.

Specifications are typical and subject to change without notice.

# Installation

## Rechargeable Batteries

The UBC 100XLT comes with a rechargeable NiCad battery pack. When fully charged this power supply will provide up to 5 hours of dependable use. To install the battery pack, simply slide it on to the bottom of the scanner.

When the batteries become low, simply plug the AC Adaptor/Charger into the jack on the rear of the battery pack and charge overnight. It is important to periodically allow the batteries to discharge completely to maintain full operating capability. See the Battery Maintenance section of this guide.

**WARNING:** Turn the ON/OFF, Volume switch OFF before attaching or detaching the battery pack.

To remove the battery pack from the unit, simply slide it to the left.

**WARNING:** Do not allow the terminals of the battery pack to be shorted. Fire or serious injury may result. Do not place the battery pack in your pocket where keys or other metal objects, etc., may short out the battery terminals.

## Flexible Antenna Installation

The UBC 100XLT includes a flexible antenna for hand held use. Put the antenna onto the BNC connector on the top of the scanner and turn the antenna connector clockwise 1/4 turn to lock it on. Under normal conditions this antenna should provide excellent reception. However, factors such as location within your home, and proximity to electrical appliances may determine reception quality. For weak signal reception or electrically noisy locations, an external antenna may be helpful. A mating plug (optional) may be required to connect an external antenna.

## AC Adaptor

The UBC 100XLT can be powered by the AC Adaptor included with the scanner which converts standard household current to 13.8V DC. Plug the small connector of the AC Adaptor into the jack in the back of the radio marked DC 13.8V. Plug the other end into any standard 220 V AC household outlet.

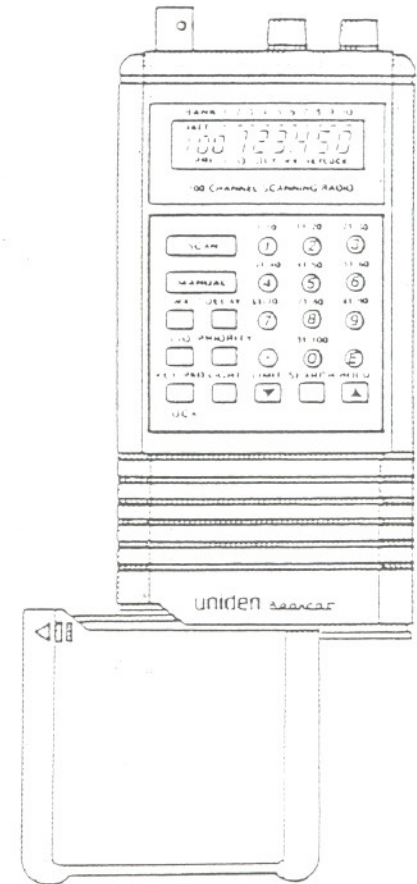
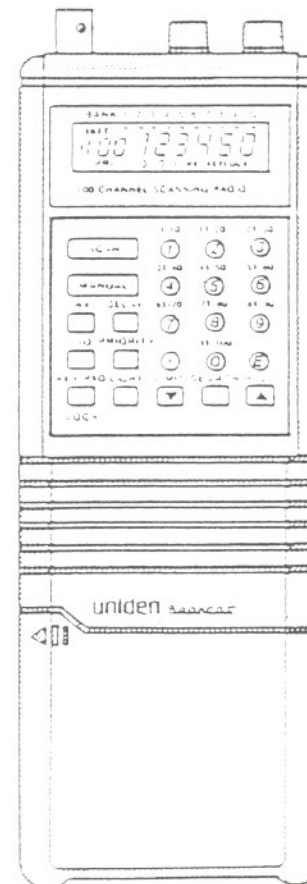
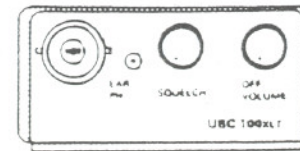
**Note:** Please be sure to use only model 818F4124 AC Adaptor/charger, or the model PS-001 Cigarette lighter adaptor (optional), as higher voltage, or reverse polarity may damage your unit.

## Memory Backup

Frequencies maintained in the UBC 100XLT memory are protected from loss by a built-in capacitor which protects the memory for up to 30 minutes when you are replacing the batteries.

# Controls and Functions

1. **On/Off, Volume** - Turns the unit on, or off, and controls the audio output level.
2. **Squelch** - Eliminates the annoying "rushing" sound that is present between transmissions when no signal is being received. Proper adjustment of this control keeps the receiver quiet and allows scanning until a signal is received.
3. **Scan** - Press to start scanning all frequencies programmed into memory that are not locked out.
4. **Manual** - Press to stop scanning. Press again to manually step to the next channel. Press and hold to rapidly step through the channels. Press the channel number and then the manual key to go directly to a specific channel.
5. **Priority** - The priority key samples the first channel of each selected bank every two seconds regardless of other operational settings. Priority function will be retained in memory.
6. **Hold** - Press to stop and hold the search function on the current frequency. Press again to manually step up to the next frequency. Press and hold to rapidly step up through the search frequencies.
7. **LCD Display** - The LCD display shows the channel number and frequency, the selected bank(s), lockout, delay, priority, weather, keypad lock, and low battery indications.
8. **Weather Search** - The weather key searches weather frequencies until it locks on the one that is active in your area.
9. **Delay** - The delay key provides a 2 second delay on any channel to receive a reply transmission on the same frequency before resuming search or scan. Delay is retained in memory.
10. **Limit** - Enter the low and high limits of the search range. Press to manually step the search frequency down. Press and hold to rapidly step the search frequency down.
11. **Search** - Press to search for new active frequencies within preset ranges of any band.
12. **Lockout** - Press to lockout the reception of frequencies on selected channels during scanning. Lockout is retained in. Press again to deselect lockout. **Note:** Channel 1 cannot be locked out if priority has been selected. All other priority channels may be locked out.
13. **Numeric Keypad** - ("0-9" and ".") Used to program all frequencies into memory and for direct channel access. During the scan mode these keys are utilized to select or deselect any of the 10 memory banks.
14. **Enter** - The "E" key is used to enter frequencies into the scanning memory.
15. **Keypad Lock** - This unique feature is used to lock the keypad to prevent accidental entries. To lock the keypad, press once. To unlock, press again.
16. **Light** - Press to turn the display light on for 15 seconds. Pressing this button again while the light is on will turn it off.
17. **Earphone** - The earphone jack allows you to use an earphone for privacy or in case of a high noise environment.



Slide to the left to remove battery pack.



# Operation

The UBC 100XLT has 100 memory channels, each of which can be programmed to store one frequency. The channels are divided into 10-10 channel banks, useful for storing similar frequencies in order to maintain faster scanning cycles. When scan is pressed, each of the programmed frequencies within a selected bank will be sampled for a transmission (locked channels will be skipped) at the rate of about 15 channels per second. If an active frequency is found the unit will stop and monitor that frequency until there is no longer any activity. A two second delay can be added to each channel and will allow the unit to monitor the frequency for a return or continued transmission. If, after two seconds, the frequency remains inactive, the scanning cycle will resume.

When the unit is first turned on, each channel will contain "000.000". When new frequencies are programmed, the old will be erased. If an invalid frequency is entered, "Error" will be displayed and the old frequency will return.

To operate the scanner make sure that the batteries are charged or power is correctly connected to the unit. Turn the volume control on and adjust the desired level. Adjust the squelch by turning the knob fully clockwise until a rushing sound is heard. Turn the knob back until the receiver is silent. After the channels have been programmed, operation is simple. Press the scan key to scan all the channels. While the receiver is scanning channels, pressing one of the number keys will turn a bank of 10 channels on or off. The black lines at the top of the LCD display show you which banks are selected. If a bank is already selected, (shown by a black line under the bank number) pressing the corresponding button will deselect that bank. Press the manual key to stop scanning. Repeatedly pressing the manual key will step through the channels in order.

## LCD Display

The UBC 100XLT has a backlit display which shows the current channel and frequency as well as other operational modes. When the unit is scanning, the channel number will rapidly advance while the frequency display will go blank. When the scanner is stopped the current channel and frequency will again be displayed.

When frequencies are programmed the display will show the digits as they are entered. The display will also show "PRI" when the priority mode is on, "L/O" whenever a channel appears that has been locked out, and "DLY" whenever a channel has been programmed for delay. Across the top of the display, a series of dashes under the numbers 1-10 will be present. These are the bank indicator numbers. These are selected or deselected during the scan sequence by the use of the numeric pad.



# Programming

To program a frequency into a channel, press the digits of that frequency including the decimal point and then, press the enter key. If an invalid frequency is entered, the display will show "Error". To change a frequency enter the new one and the old one will be erased.

## **To program 162.550 into channel 2:**

Press 2 MAN

Press 1 6 2 . 5 5 0 E

## **To program 471.2375 into channel 7:**

Press 7 MAN

Press 4 7 1 . 2 3 7 5 E

**Multiple Entries** — When you press the "E" key to enter the same frequency in a different channel the LCD will show the channel number of the current frequency "Ch 45". If you want to repeat that frequency in the new channel press the "E" key again. That frequency will now be programmed in both channels. You can repeat a frequency as many times as desired.

# Features

The following is a brief description of the operational features of the UBC 100XLT.

**Manual Channel Selection** - To manually select a channel press the manual key repeatedly until the desired channel number appears in the display. If you have deselected any of the banks it will be impossible to access any of those channels manually until you have selected the particular bank in which your channel exists. Press and hold the manual key to rapidly step through the channels.

or

Press the channel number you wish to access, then press the manual key. The scanner will automatically advance to the desired channel regardless of the bank status.

**Lockout** - Select the channel to be skipped. Press the lockout key. The lockout indicator will appear in the display whenever that channel also appears. To take lockout off press the lockout key on that channel.

**Note:** If priority is selected, channel 1 will not be able to be locked out. All other priority channels may be locked out.

**Priority** - When it is important to keep track of the activity on one frequency while listening to others, the priority function should be used. Program the important frequency into the first channel of any bank. Press the priority key to activate the priority function. Every 2 seconds the unit will check the first channel of all selected banks for activity (the priority indicator will appear in the display). If a transmission is found the unit will monitor that channel. If no signal is found, the unit will return to the previous channel and function. Press the priority key again to turn off the priority function.

**Search** - Use the search mode to look for new active frequencies within the bands of your scanner.

Enter the lower limit frequency on the keypad and press the limit key;

Enter the higher limit frequency and press the limit key again;

These two frequencies set the range that the unit will search. Press the search key to start searching. If an active frequency is found the scanner will stop to monitor the signal. Press the hold key to hold the search on this frequency. Press the hold key again to step up to the next frequency or press the limit key to step down to the previous frequency. If you press and hold down either the Hold or Limit keys, you will rapidly step through the search frequencies. (Step up with the Hold key, and step down with the Limit key.) When the signal stops or if you press the search key, the unit will continue searching. Press the manual key to leave the search mode.

## Low Battery Indicator

The UBC 100XLT has a low battery indicator to let you know when your battery needs to be recharged. When the BATT indicator on the LCD display starts to blink, it means that the battery pack needs to be charged. After the low battery indicator has been blinking for about ten minutes, the scanner will shut itself off to prevent the batteries from becoming completely discharged. See the section of this manual on Battery Maintenance for more information.

# Warranty

**Warrantor:** Uniden Australia Pty. Ltd. ("UNIDEN").

**Elements of Warranty:** Uniden warrants, for the duration of this warranty, U B C 100 XLT (hereinafter referred to as the Product) to be free from defects in materials and craftsmanship with only the limitations or exclusions set out below.

**Warranty Duration:** This warranty shall terminate and be of no further effect one (1) year after the date of the original purchase of the Product or the time the Product is (A) damaged or not maintained as reasonable or necessary, (B) modified, (C) improperly installed, (D) repaired by someone other than warrantor for a defect or malfunction covered by this warranty, (E) used in a manner or purpose for which the Product was not intended, or (F) sold by the original purchaser.

**Statement of Remedy:** In the event that the Product does not conform to this warranty at any time while this warranty is in effect, warrantor will repair the defect and return it to you without charge for parts, service, or any other cost incurred by warrantor or its representatives in connection with the performance of this warranty. THIS WARRANTY DOES NOT COVER OR PROVIDE FOR THE REIMBURSEMENT OF PAYMENT OF INCIDENTAL OR CONSEQUENTIAL DAMAGES. Some states do not allow this exclusion or limitation of incidental or consequential damages, so the above limitation or exclusion may not apply to you.

**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, to Warrantor at Uniden Australia Pty. Ltd. 345 Princes Highway, Rockdale, N.S.W. 2216 with evidence of original purchase.

**Legal Remedies:** This warranty gives you specific legal rights, and you may also have other rights which vary from state to state.

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