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UBC 65XLT
10-Channel Portable Scanner



OPERATING GUIDE

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About Scanning

Scanning Options Scanning is easy and fun with the UBC 65XLT 10-Channel Portable Scanner.

Types of Broadcasts You will be able to monitor broadcasts such as:

- Police and fire department (including rescue and paramedics)
- 7 pre-programmed NOAA weather frequencies
- Business/industrial radio
- Motion picture and press relay
- Utility

No license is required to use a radio receiver, provided it is not capable of transmitting a signal. However, it should only be used for receiving those transmissions meant for general reception such as authorized bound broadcasts, message sent be Radio Amateurs and Citizens Band users, maritime, weather or navigation information.

Authorized users of radio, (i.e., Police, fire and Other emergence services, the armed forces, aeronautical and maritime interests) require radios to carry out their duties. They are protected by law from unauthorized people listening into their transmissions.

Eavesdropping, or listening to messages that are not intended for you is an offense as is disclosure of what you have heard, under section 5(b) of the Wireless Telegraphy Act 1949. However it is not illegal to own a scanner.

Unlike radio transmissions, frequencies do not broadcast continuously. The scanner automatically samples programmed frequencies at the rate of about 10 channels per second until it locates an active frequency. It remains on that frequency until the transmission stops for more than two seconds. The scanning cycle then resumes until another transmission is located. See page 9 for information on programming the scanner.

Where to Obtain More Information The Local Radio Club and other similar hobby clubs have publications, information on computer bulletin boards, and contests for the radio enthusiast. See the enclosed pamphlets for more information. Additional information is also available through your local library.

Unpacking

Carefully remove all units from the display box. If there is any visible damage, do not operate the equipment. Notify your dealer or shipping carrier immediately. Keep the box, packing materials, and all printed materials. Use the box and packing to transport the UBC 65XLT if needed.

The following parts should be included in this box:

- UBC 65XLT
- This Operating Guide (read carefully and save)
- Warranty information (located in the back of this Operating Guide)
- Flexible antenna (model AT-094)
- AC adapter/charger (model AD 100U) with 5 nickel-cadmium batteries

Optional Accessories

Vehicle Power Lead (Model PS 001)	Plugs into the vehicle cigarette lighter to power your UBC 65XLT.
Carrying Case (Model VC001)	Handsome, leather-like case conveniently holds the UBC 65XLT on your belt for portability and operation.

These optional accessories as well as frequency directories are available for your UBC 65XLT at your local Uniden dealer.

WARNING!



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

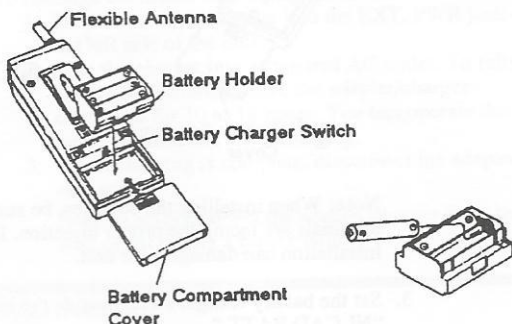
Installation

NOTE

The installation, possession, or use of this scanning radio in a motor vehicle may be prohibited, regulated, or require a permit in certain states, cities, and/or local jurisdiction. Your local law enforcement officials should be able to provide you with information regarding the laws in your community.

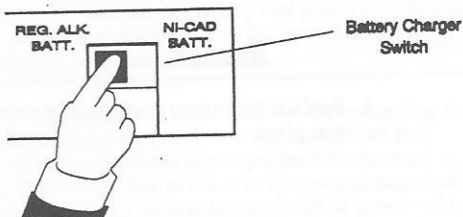
Battery Installation for Standard Alkaline Batteries

1. Remove the battery compartment cover on the back of the scanner. To open, press in the direction of the arrow and slide off the cover.
2. Pull out the battery holder and insert 5 AA-size alkaline batteries as shown.



Note: When installing the batteries, be sure the + and - terminals are facing the proper direction. Improper installation can damage your unit.

3. Set the battery charger switch inside the compartment to "REG. ALK. BATT."

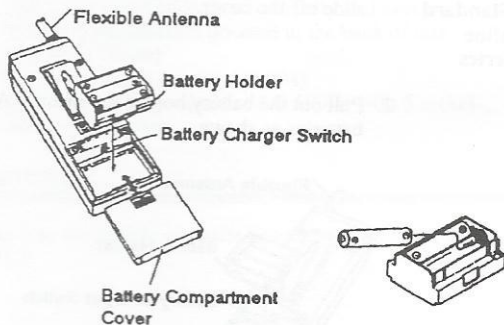


4. Replace the battery compartment cover by sliding it back into place.

Installation (cont.)

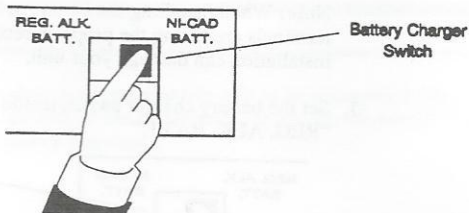
Battery Installation for the Rechargeable Batteries

1. Remove the battery compartment cover on the back of the scanner. To open, press in the direction of the arrow and slide off the cover.
2. Pull out the battery holder and insert the five 1.2V nickel-cadmium batteries (included with your unit) as shown.



Note: When installing the batteries, be sure the + and - terminals are facing the proper direction. Improper installation can damage your unit.

3. Set the battery charger switch inside the compartment to "NI-CAD BATT."



4. Replace the battery compartment cover by sliding it back into place.

IMPORTANT!

BATTERY CHARGER SWITCH

This switch *disables* battery recharging when placed in the REG. ALK. BATT. position. *Keep the switch in this position when using regular or alkaline batteries.*

In the NI-CAD BATT. position, this switch enables recharging of nickel-cadmium batteries. *Keep the switch in this position when using rechargeable batteries.*

Recharging the Batteries

In addition to the rechargeable batteries, your scanner kit also includes a battery charger. How to recharge the batteries is described below.

To recharge the nickel-cadmium batteries in the receiver:

1. Plug the external adapter into the EXT. PWR jack on the left side of the unit.
2. Plug the charger into a standard AC outlet. To fully charge the batteries, leave the adapter/charger connected for 10 to 18 hours. You can operate the unit while the batteries are recharging.
3. When charging is complete, disconnect the adapter/charger.

Note: Also disconnect the adapter/charger from the wall outlet during a power failure.

WARNING!

- **Do not attempt to recharge non-rechargeable batteries.** Before attempting to recharge batteries, open the battery compartment and check the type of batteries installed. Recharge only the nickel-cadmium rechargeable batteries designed for this unit. Any other type of rechargeable battery will not work properly.
 - **External power jack:** Use only the AD 100U AC adapter. Any other AC adapter or external power plug having over-voltage or reversed polarity can cause overheating or damage to the circuitry.
-

Battery Replacement/Recharging Information

When changing the standard batteries (or recharging the nickel-cadmium batteries), turn the scanner off and immediately replace (or recharge) the batteries with new ones to avoid memory loss to the unit. Memory storage holds the channel frequency information and will be preserved by the batteries for approximately 30 minutes during replacement.

Installation (cont.)

Low Battery Alert

Your scanner has a unique, power-saving, low battery alert feature to let you know when the batteries are weak and need to be replaced (or recharged).

Special circuitry inside the scanner detects a weak battery, and will emit a beeping tone when the batteries need replacing or recharging. The beep will continue every 15 to 30 seconds until the batteries are dead. When you hear the alert, be sure to replace (or recharge) the batteries immediately. **Warning:** *When the batteries are dead, all scanner memory will be lost.*

Flexible Antenna

Insert the connector end of the antenna into the receptacle on top of the unit and finger tighten.

An external antenna may be helpful in fringe areas. Always use 50 ohm cable for lead-in. For lengths greater than 50 feet, we recommend that you contact your local dealer for the proper cable.

Your scanner is equipped with a standard BNC connector. You may need an adapter (optional) or other type of mating plug for proper connection.

Belt Clip Attachment

The clip holds the scanner to your belt for hands-free movement and operation. Use a Phillips screwdriver to attach the belt clip to the scanner with the screws provided.

Notes

- If strong interference or electrical noise is received, relocate the scanner or its antenna away from the source of the noise.
- Do not use the scanner in high-moisture environments such as the kitchen or bathroom.
- Avoid placing the unit in direct sunlight or near heating elements or vents. Also, do not subject the unit to continuous sub-zero temperatures.



If the scanner is exposed to temperatures below 0°C or above 40°C, the liquid crystal display (LCD) may temporarily cease to function properly or can become permanently damaged.

Controls and Functions

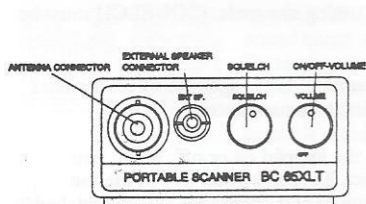


Figure 1

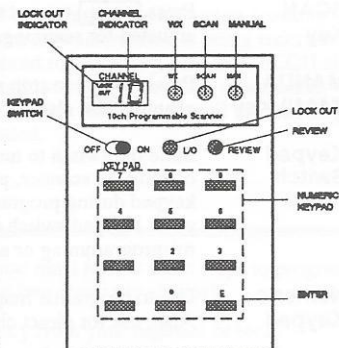


Figure 2

Top Panel Features (Figure 1)

ON/OFF-VOLUME

Turn clockwise to turn the scanner ON and increase the volume. Turn counterclockwise to decrease the volume or turn the scanner OFF.

SQUELCH

Adjust to eliminate the annoying "rushing" sound heard when no transmission is being received.

Antenna Connector

Attach the flexible antenna to this BNC connector to bring in reception.

EXT SP. Connector

Plug an external speaker into this jack for amplified sound.
Note: Do not use this jack to plug in an ear phone.

Front Panel Features (Figure 2)

CHANNEL Indicator

The liquid crystal display (LCD) shows the current channel or its frequency when reviewed.

Also displays *E* when a programming error is made.

LOCK OUT Indicator

Appears on the channel display when the current channel is locked out.

WX Indicator

(Not shown) Appears on the channel display when the scanner is in weather search mode. This feature is only useful in the USA.

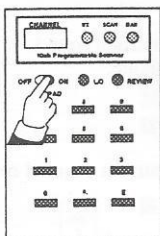
WX Key

Press **WX** to search for active NOAA weather frequencies. This feature is only useful in the USA.

Controls and Functions (cont.)

- SCAN Key** Press **SCAN** to start scanning channels. (SQUELCH must be adjusted for scanning.)
- MANUAL (MAN) Key** Press **MAN** to stop scanning. Press again to select the next channel. Use also for direct channel access.
- Keypad Switch** Slide the switch to turn the keypad on or off. When you operate the scanner, place Keypad switch ON to use the keypad during programming and operations. When finished, place Keypad switch OFF to disable the keypad and avoid any misprogramming or accidental entry.
- Numeric Keypad** Use to program a frequency into each channel for scanning. Also, use for direct channel access with the **MAN** key.
- ENTER (E) Key** Press **E** to store a frequency into any of the 10 channels.
- Lock Out (L/O) Key** Press **L/O** to prevent scanning of selected channels.
- REVIEW Key** Press **REVIEW** to review the frequency of the current channel.

Getting Started



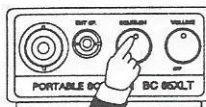
Slide the Keypad switch to the ON position. This unlocks the keypad and enables you to operate and program the scanner.

Turning On the Scanner/Adjusting Volume



Turn the On/Off-Volume switch clockwise to power on the scanner and to increase the volume. Turn counterclockwise to decrease the volume or to turn the scanner off.

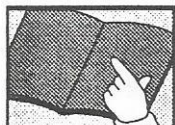
Reducing Background Noise



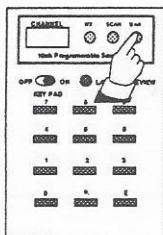
Use SQUELCH to eliminate the annoying “rushing” sound heard when no transmission is being received. To set the threshold for scanning, turn SQUELCH all the way right until the rushing sound is continuous. The turn SQUELCH to the left just until the “rushing” sound is eliminated.

Programming Frequencies

Before you can use your UBC 65XLT, you must follow these steps to program the channels. You may program only one frequency per channel.

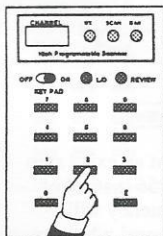


Select a frequency from your regional or local directory (purchased separately).



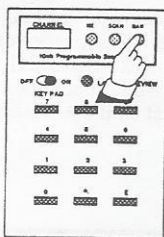
Example: Program 460.150 MHz into Channel 2.

Press **MAN** to stop scanning.

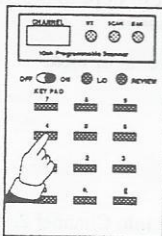


Press channel number **2** on the numeric keypad.

Programming Frequencies (cont.)



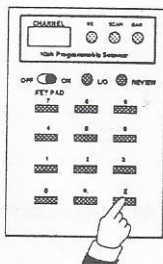
Press **MAN**.



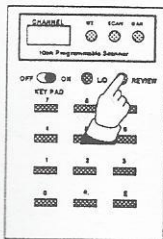
Input the frequency numbers, including the decimal point using the numeric keypad.



The decimal point (.) appears as a dash (-) on the channel display.



Press **E** to complete the entry.



Check your entry by pressing **REVIEW**.

If you enter a frequency that is not an exact step within the range (Example: 151.056 instead of 151.055), the nearest correct frequency will automatically be stored and displayed when you press **REVIEW**.

Programming Frequencies (cont.)

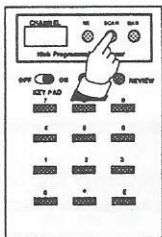
Repeat Steps 1 through 6 to program additional frequencies in the other channels. When finished, be sure to turn the Keypad switch OFF to avoid any accidental entries.

Note

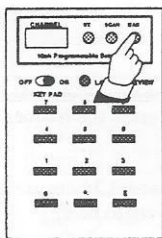
- An E will appear in the channel display if an error is made during programming or the frequency is not within the range.

Scanning

Follow these steps to scan the programmed channels on your scanner.



Press **SCAN** to start scanning.



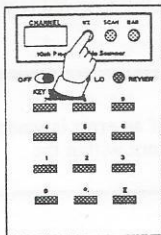
Press **MAN** to stop scanning.

Note

- If a channel does not contain a stored frequency, it will be skipped during scanning.

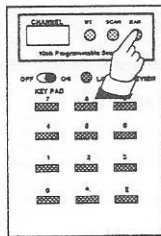
Using Weather Search

The UBC 65XLT allows you to search for your local NOAA weather frequency.



Press **WX** to find the active weather frequency in your area from 7 pre-programmed NOAA frequencies. This feature is only useful in the USA.

Press **SCAN** or **MAN** to exit weather search mode.

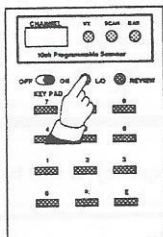


Note

- It isn't necessary to program a weather frequency into one of the 10 channels. Weather search is an additional function of the scanner.

Locking Out a Channel

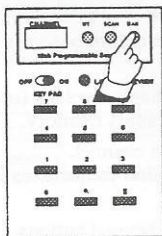
You can lock out a channel so it is not scanned. You do not erase the frequency from the channel when you lock it out.



Example: You want to lock out Channel 2 because it stops on transmissions you don't want to hear.

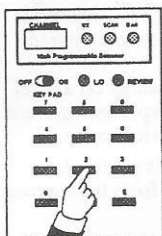
Press **LO** when it stops on Channel 2. The **LOCK OUT** indicator will appear to show that the channel is locked out.

Unlocking a Channel

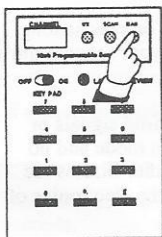


Example: Unlock Channel 2.

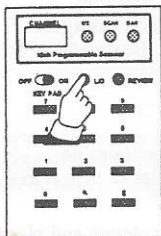
Press **MAN** to stop scanning.



Press channel number **2** on the numeric keypad.



Press **MAN**.



Press **LO**.

The LOCK OUT indicator will go out to show that the channel is now unlocked.

If you press **LO** again, the channel will be locked out.

Helpful Hints

- General Use**
- Turn the scanner off before disconnecting the power.
 - Write down the programmed frequencies before power is interrupted in case of memory loss.
 - Observe the low battery alert and immediately replace (or recharge) the batteries to avoid losing channel memory.
 - If memory is lost, simply reprogram each channel. Memory loss will be indicated by unfamiliar frequencies in each channel.
 - Always press firmly on the center of the keypad buttons.
 - Remember to press the **E** key after programming a frequency to confirm entry into that channel. Then press **REVIEW** to confirm that the correct number was entered.
- Location**
- Best reception occurs if you place the scanner on a level metal surface with the antenna pointing up. Placing the scanner near a window also enhances performance.
 - If strong interference or electrical noise is received, relocate the scanner or its antenna away from the source of the noise.
 - Do not use the scanner in high-moisture environments such as the kitchen or bathroom.
 - Avoid placing the unit in direct sunlight or near heating elements or vents. Take extra care with your scanner during the winter as well.
- Birdies**
- All radios are subject to receiving undesired signals or birdies. If your scanner stops during scan mode and no sound is heard, it may be receiving a birdie. Birdies are internally-generated signals inherent in the electronics of the receiver. Press **SCAN** to resume.
- Cleaning**
- Disconnect the power to the unit before cleaning.
 - Clean the outside of the scanner with a mild detergent. Do not use abrasive cleaners or solvents. Be careful not to scratch the LED window.
 - Do not use excessive amounts of water.
- Repairs**
- Do not attempt any repair. The scanner contains no serviceable parts. Contact your local dealer or take it to a qualified repair technician.
 - When shipping the scanner, remove the antenna and place it with the unit in the original packing material for safe shipment.

Troubleshooting

If your UBC 65XLT is not performing properly, try the steps listed below.

PROBLEM	SOLUTION
Unit does not turn on. There is no power.	<ul style="list-style-type: none">• Batteries are not properly installed. Check to be sure the + and – terminals are properly aligned.• Batteries are dead. Replace with new ones (or recharge).• Power is off. Turn the volume control on.
No reception or poor reception.	<ul style="list-style-type: none">• Antenna is not properly installed. Check the connector.• Environment is not suitable for scanner. Relocate unit and try again.• Frequencies are programmed incorrectly. Check and reprogram.• Batteries are weak or dead. Replace with new ones (or recharge).
<i>E</i> appears in display.	<ul style="list-style-type: none">• Programming error. Check frequency and try again.
Beep tone sounds every 15 to 30 seconds.	<ul style="list-style-type: none">• Battery power is low. Replace with new ones (or recharge).
Keypad does not work or cannot program.	<ul style="list-style-type: none">• Keypad switch is off. Check and turn on.

If you still do not get satisfactory results and wish to receive product information or return the unit for service, please contact your local dealer who will be able to help you.

Technical Specifications

Size	17.8 (h) × 65.5 (w) × 35 (d) cm	
Weight	10.5 oz.	
Power Requirements	5 AA batteries or +6V DC external power	
Audio Output (nominal)	260mW nominal	
Antenna	Flexible Impedance: 50 ohms	
Channels of Operation	Any 10 channels in any band combinations	
Scan Rate	10 channels per second	
Delay Time	3 seconds	
Frequency Coverage	<u>VHF-Lo</u>	66-88 MHz (in 5 kHz steps)
	<u>Government</u>	137-144 MHz (in 5 kHz steps)
	<u>Ham</u>	144-148 MHz (in 5 kHz steps)
	<u>VHF-Hi</u>	148-174 MHz (in 5 kHz steps)
	<u>Ham/Gov't</u>	406-450 MHz (in 12.5 kHz steps)
	<u>UHF-Lo 4</u>	450-470 MHz (in 12.5 kHz steps)
	<u>UHF-Hi ("T")</u>	470-512 MHz (in 12.5 kHz steps)
Sensitivity (nominal)	0.3 μ V 66-88 MHz 0.7 μ V 137-174 MHz, 406-512 MHz	
Selectivity	\pm 10 kHz, -6 dB \pm 17 kHz, -50 dB	
Current Drain	55mA (squelched) 130mA (full volume unsquelched)	

Features, specifications, and availability of optional accessories are subject to change without notice.

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