

Uniden[®]

**UBC92XLT
SCANNER**

**200 Channels
2 Pre-Programmed Service Banks
with 2 band plan**

OWNER'S MANUAL

Before you use this scanner, please read and observe the following.

EARPHONE WARNING!

Use only a genuine Uniden earphone. An incorrect earphone may be hazardous to your hearing. Turn down volume before connecting the earphone and then adjust volume to suit.

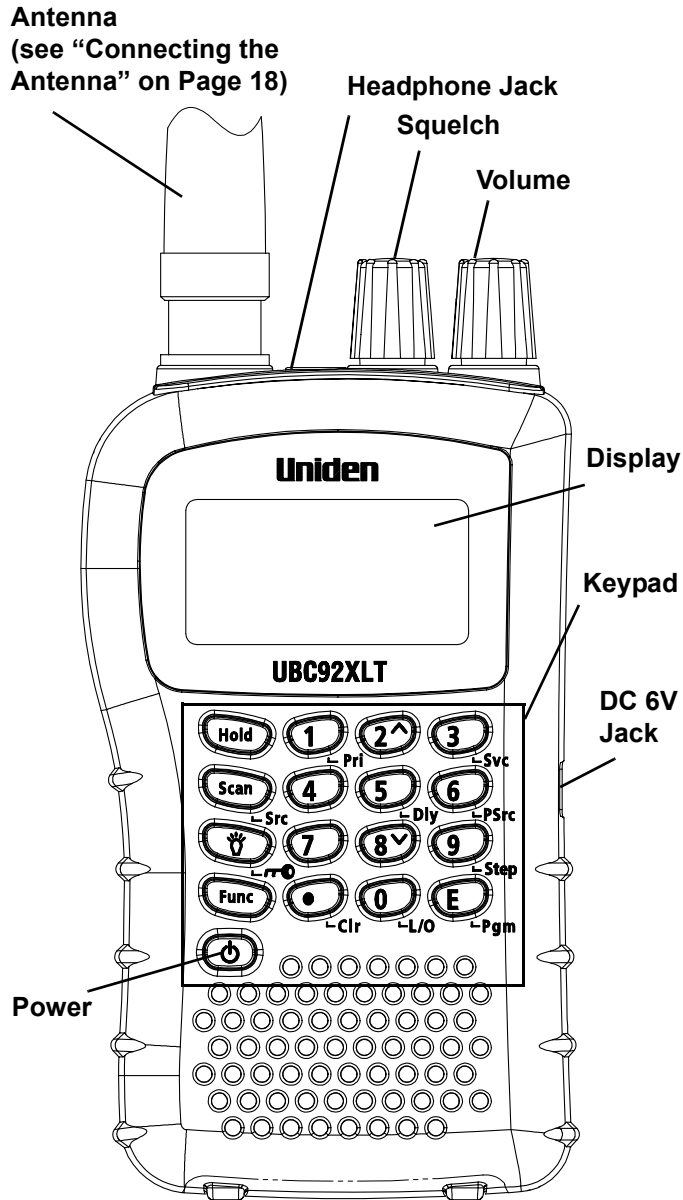
WARNING!

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

Trademarks used throughout this manual are the property of their respective holders.

Precautions

UBC92XLT Controls and Display



UBC92XLT Controls and Display

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Contents

Introduction

Thank you for purchasing a Uniden UBC92XLT Handheld Scanner. The scanner is versatile, compact, and easy to use.

You can program up to 200 frequencies into the scanner's memory. The scanner lets you scan transmissions and is preprogrammed with service banks and search banks for your convenience. You can quickly search those frequencies most commonly used by police, in the marine band, Air band and FM CB without tedious and complicated programming.

Use your scanner to monitor:

- FM CB
- Police
- Air band
- 2M Amateur band
- Marine band
- 70 cm Amateur band
- Public Services in the UHF band

Introduction

This table lists the frequency ranges, default frequency step, default mode (AM or FM), and type of transmissions you can hear for each range.

BAND PLAN 1

Frequency Range (MHz)	Mode	Step (kHz)	Transmission
25.0000 - 29.9950	FM	5	CB BAND
30.0000 - 79.9875	FM	12.5	VHF LOW BAND
80.0000 - 82.9900	FM	10	VHF LOW BAND
83.0000 - 87.2625	FM	12.5	VHF LOW BAND
108.0000 - 136.9875 108.0000 - 136.9916	AM	12.5 / 8.33 Selectable	AIRCRAFT
138.0000 - 157.9875	FM	12.5	2M AMATEUR BAND
158.0000 - 160.5900	FM	10	VHF HIGH BAND
160.6000 - 162.5875	FM	12.5	VHF HIGH BAND
162.6000 - 173.9900	FM	10	VHF HIGH BAND
406.0000 - 439.99375	FM	6.25	Federal Gov.Land MOBILE
440.0000 - 465.9900	FM	10	70cm AMATEUR BAND
466.0000 - 469.9900	FM	10	UHF STANDARD BAND
470.0000 - 512.0000	FM	6.25	UHF "T" BAND
806.0000 - 960.0000	FM	12.5	PUBLIC SERVICE BAND

Introduction

BAND PLAN 2

RANGE (MHz)	MODE	STEP (kHz)	Program/ Subject
25.0000 - 84.0100	FM	5	CB BAND
84.0150 - 87.2550	FM	20	VHF LOW BAND
108.0000 - 136.9875 108.0000 - 136.9916	AM	12.5 / 8.33 Selectable	AIRCRAFT
137.0000 - 143.9950	FM	5	MILITARY LAND MOBILE
144.0000 - 145.9875	FM	12.5	2M AMATEUR BAND
146.0000 - 155.9900	FM	10	VHF HIGH BAND
156.0000 - 162.0250	FM	12.5	VHF MARINE BAND
162.0300 - 173.9900	FM	10	VHF HIGH BAND
406.0000 - 439.99375	FM	6.25	UHF LOW BAND
440.0000 - 449.99375	FM	6.25	70cm AMATEUR BAND
450.0000 - 469.9900	FM	10	UHF STANDARD BAND
470.0000 - 512.0000	FM	6.25	UHF "T" BAND
806.0000 - 960.0000	FM	12.5	PUBLIC SERVICE BAND

To switch the band plan between 1 and 2;

1. Make sure the power is turned off
2. While holding down 0, turn on the scanner.

Note: Please reset the scanner (see page 43) after band plan was changed.

Introduction

Feature Highlights

Chain Search - lets you enter personal search bands in 10 locations and search all locations in a chain of frequency bands.

Triple-Conversion Circuitry - virtually eliminates any interference from IF (intermediate frequency) images, so you hear only the selected frequency.

Channel-Storage Banks - the scanner has 10 banks. You can store up to 20 frequencies into each bank (for a total of 200 frequencies), so you can more easily identify calls.

Two-Second Scan Delay - delays scanning for about 2 seconds before moving to another channel, so you can hear more replies that are made on the same channel.

Lock-Out Function - lets you set your scanner to skip over specified channels or frequencies when scanning or searching.

Priority Channels - lets you program one channel in each bank (10 in all) and then have the scanner check that channel every 2 seconds while it scans the bank, so you do not miss transmissions on those channels.

Two Service Banks - frequencies are preset in separate Aircraft and FM CB to make it easy to locate specific types of calls.

Key Lock - lets you lock the scanner's keys to help prevent accidental changes to the scanner's programming.

Direct Access - lets you directly access any channel.

Display Backlight - makes the scanner easy to read in low-light situations.

Flexible Antenna with BNC Connector - provides adequate reception in strong signal areas and is designed to help prevent antenna breakage.

Feature Highlights

Or, you can connect an external antenna for better reception.

Memory Backup - keeps the frequencies stored in memory for an extended time if the scanner loses power.

Two Power Options - let you power the scanner using internal batteries or external AC power using the included AC adapter.

Key Confirmation Tones - the scanner sounds a tone when you perform an operation correctly, and an error tone if you make an error.

Battery Low Alert - warns you when battery power gets low.

About This Manual

The screen displays used in this manual are representations of what might appear when you use your scanner. Since what you see depends on the frequencies for your area and the settings you select, you might notice some differences between what is in this manual and what appears on your scanner.

To get the most from this manual, review the contents to become familiar with the basic functions available. If you are new to scanning, be sure to read "Understanding Scanning" on Page 11 for a quick background on the technology behind the hobby. The first thing you'll need to do is install batteries in the scanner. Then you need to connect the included antenna to the scanner. See "Using Internal Batteries" on Page 15 and "Connecting the Antenna" on Page 18 if you need any help doing this.

Feature Highlights

Understanding Scanning

This section provides you with background on how scanning works. You don't really need to know all of this to use your scanner, but some background knowledge will help you get the most from your UBC92XLT.

What is Scanning?

Unlike standard AM or FM radio stations, most two-way communications do not transmit continuously. Your UBC92XLT scans programmed channels until it finds an active frequency, then stops on that frequency and remains on that channel as long as the transmission continues. When the transmission ends, the scanning cycle resumes until the scanner receives another transmission.

What is Searching?

The UBC92XLT can search for active frequencies. This is different from scanning because you are searching for frequencies that have not been programmed into the scanner. When you select frequency bands to search, the scanner searches for any active frequency within the lower and upper limits you specify. When the scanner finds an active frequency, it stops on that frequency as long as the transmission lasts. If you think the frequency is interesting, you can program it into one of the banks. If not, you can continue to search.

Conventional Scanning

Conventional scanning is a relatively simple concept. Each group of users in a conventional system is assigned a single frequency (for simplex systems) or two frequencies (for repeater systems). Any time one of them transmits, their transmission always goes out on the same frequency. Up until the late 1980's

Understanding Scanning

this was the primary way that radio systems operated.

Even today, there are many 2-way radio users who operate using a conventional system:

- Aircraft
- Amateur radio
- PMR users
- Broadcast AM/FM/TV stations
- Many business radio users

When you want to store a conventional system, all you need to know is the frequencies they operate on. When you are scanning a conventional system, the scanner stops very briefly on each channel to see if there is activity. If there isn't, the scanner quickly moves to the next channel. If there is, then the scanner pauses on the transmission until it is over.

Simplex Operation

Simplex systems use a single frequency for both transmit and receive. Most radios using this type of operation are limited to line-of-sight operation. This type of radio is frequently used at construction job sites, and with inexpensive consumer radios such as PMR radios. The range is typically 1.5-12 km, depending upon the terrain and many other factors.

Repeater Operation

Repeater systems use two frequencies: one transmits from the radio to a central repeater; the other transmits from the repeater to other radios in the system. With a repeater-based system, the repeater is located on top of a tall building or on a radio tower that provides great visibility to the area of operation. When a user transmits (on an input frequency), the signal is picked up by the repeater and retransmitted (on an output frequency). The user's radios always

Understanding Scanning



listen for activity on the output frequency and transmit on the input frequency. Since the repeater is located very high, there is a very large line of sight. Typical repeater systems provide coverage out to about a 40 km radius from the repeater location.

Where To Obtain More Information

By itself, this manual really only provides part of what you need to know to have fun scanning – how to program and use the scanner.

Information On The Internet

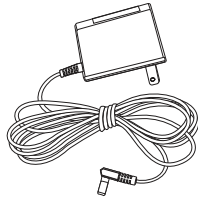
The Internet is a great source for current frequencies and information about scanning.

Many web sites have lists of frequencies for your area. You can use a search engine to find and use them.

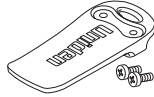
Make a list of the agencies you want to listen to, then look up the frequencies and systems used by those agencies.

Understanding Scanning

Included With Your Scanner



AC Adapter



Belt Clip



Scanner
with
Antenna



Owners Manual



2 Ni-MH
AA Rechargeable
Batteries

Note: If any of these items are missing or damaged, contact your place of purchase.

Included With Your Scanner

Setting Up Your Scanner

These guidelines will help you install and use your new scanner:

- If your scanner receives interference or electrical noise, move the scanner or its antenna away from the source.
- To improve the scanner's reception, use an optional external antenna designed for multi-band coverage. (You can purchase this type of antenna at a local electronics store). If the optional antenna has no cable, use 50-70 ohm coaxial cable for lead-in. A mating plug might be necessary for the optional antennas.
- Use an optional mono earphone or mono headset with proper impedance for private listening. Read the precautions on the inside front cover of this Owners Manual.
- Do not use the scanner in high-moisture environments such as the kitchen or bathroom.
- Avoid placing the scanner in direct sunlight or near heating elements or vents.

Using Internal Batteries

You can power your scanner using supplied rechargeable AA batteries.

Using Rechargeable Batteries

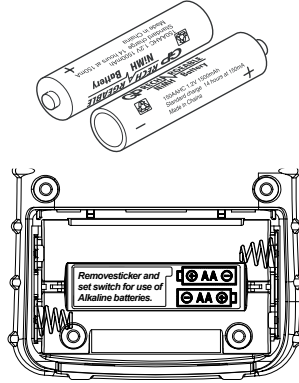
Before you use Ni-MH or Ni-Cd batteries, you must charge them.

The scanner has a built-in circuit that lets you recharge Ni-MH or Ni-Cd batteries while they are in the scanner. To charge the batteries;

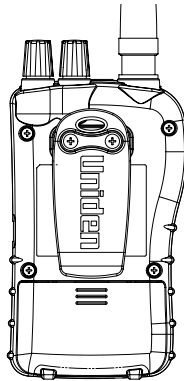
1. Make sure the power is turned off.
2. Slide the battery compartment cover.

Setting Up Your Scanner

3. Install two batteries in the compartment as indicated by the polarity symbols (+ and -) marked inside.



4. Replace the cover.



5. Connect the supplied AC adapter to the scanner's DC 6V to charge the batteries. (See "Using AC Power" on page 18.)

Using Non-rechargeable Batteries

You can also use two alkaline batteries to power your scanner. Before you use alkaline batteries, you must remove the sticker in the compartment and move the switch to **REG. ALK. BATT** position.

Setting Up Your Scanner

Cautions:

- Use only fresh batteries of the required size and recommended type.
- Always remove old or weak batteries. Batteries can leak chemicals that destroy electronic circuits.
- Do not mix old and new batteries, different types of batteries (standard, alkaline, or rechargeable), or rechargeable batteries of different capacities.

WARNING!

Do not connect either adapter to the scanner if non-rechargeable batteries (such as alkaline batteries) are installed in the scanner and **REG. ALK. BATT./ NI-MH BATT.** is set to **NI-MH BATT** (this is the default setting with the sticker) or if you are unsure of the switch's position. Non-rechargeable batteries will get hot and can even burst if you try to recharge them.

Before you use Ni-MH or Ni-Cd batteries for the first time, charge them for 16 hours to bring them to a full charge. Discharged batteries take about 16 hours to fully recharge.

Notes:

- Ni-MH batteries last longer and deliver more power if you occasionally let them fully discharge. To do this, simply use the scanner until it beeps every 15 seconds and **BATT** flashes.
- To prevent damage to Ni-MH batteries, never charge them in an area where the temperature is above 113°F (45°C) or below 40°F (4°C).

Setting Up Your Scanner

- If you connect an external power source to the scanner with **REG. ALK. BATT./NI-MH BATT.** set to **REG. ALK. BATT.**, the scanner does NOT charge the batteries. Make sure that you use the correct batteries and set **REG. ALK. BATT./NI-MH BATT.** to the correct position when you connect an external power source.

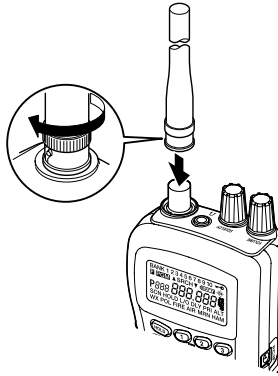
Using AC Power

You can power the scanner using the supplied 6V, 500 mA AC adapter.

To use the scanner on AC power, plug the AC adapter into DC 6V on the side of the scanner then plug the other end into a standard AC outlet.

If rechargeable batteries are installed without removing the sticker, or, after removing, **REG. ALK. BATT./NI-MH BATT.** is set to **NI-MH BATT.**, the adapter powers the scanner and recharges the installed batteries at the same time.

Connecting the Antenna



To attach the supplied flexible antenna to the connector on the top of your scanner, align the slots around the antenna's connector with the tabs on the scanner's BNC connector. Then slide the antenna's

Setting Up Your Scanner

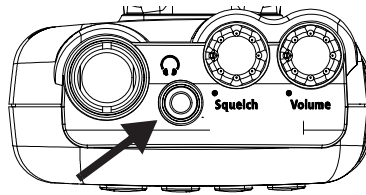
connector down over the scanner's connector and rotate the antenna connector's outer ring clockwise until it locks into place.

Connecting an Optional Antenna

The scanner's BNC connector makes it easy to connect a variety of optional antennas, including an external mobile antenna or outdoor base station antenna.

Note: Always use 50-ohm, RG-58, or RG-8, coaxial cable to connect an outdoor antenna. If the antenna is over 15 metres from the scanner, use RG-8 low-loss dielectric coaxial cable. You can get a BNC adapter at your local electronics store.

Connecting an Earphone/Headphone



For private listening, you can plug a 3.5mm mini-plug earphone or mono headphones (not supplied) into the headphone jack on top of your scanner. This automatically disconnects the internal speaker.

Connecting an Extension Speaker

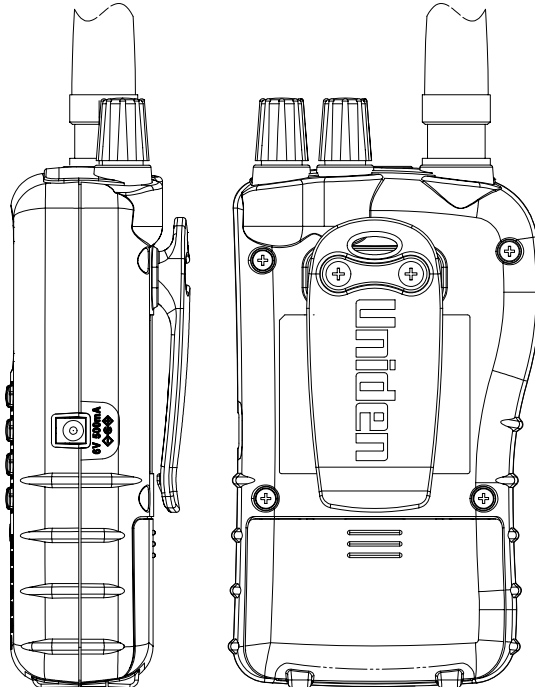
In a noisy area, an optional extension speaker, positioned in the right place, might provide more comfortable listening. Plug the speaker cable's 3.5mm mini-plug into your scanner's jack.

Setting Up Your Scanner

WARNING!

If you connect an external speaker to the scanner's headphone jack, never connect the audio output line to a power supply and ground. This might damage the scanner.

Attaching the Belt Clip



To make your scanner easier to carry when you are on the go, use the supplied belt clip. Use a Phillips screwdriver and the supplied screws to attach the clip to the scanner.

Setting Up Your Scanner

About Your Scanner

We use a few simple terms in this manual to explain the features of the scanner. Familiarize yourself with these terms and the scanner's features, and you can put the scanner to work for you right away. Simply determine the type of communications you want to receive, then set the scanner to scan those communications.

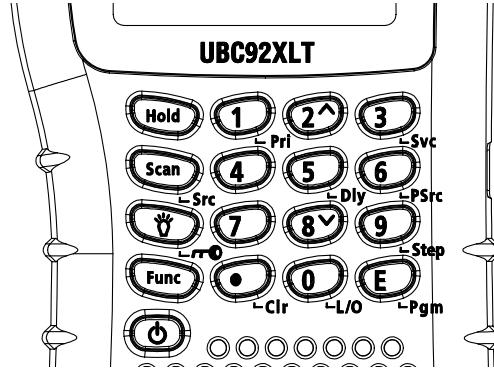
A frequency, expressed in kHz or MHz, is the tuning location of a station. To find active frequencies, you use the search function or refer to a frequency reference.

Besides searching within a selected frequency range, you can also search your scanner's service banks. Service banks are preset groups of frequencies categorized by the type of services that use those frequencies.

When you search and find a desired frequency, you can store it into a programmable memory location called a channel. Channels are grouped into channel-storage banks. The scanner has 10 channel-storage banks and each bank has 20 channels. You can scan the channel-storage banks to see if there is activity on the frequencies stored there.

About Your Scanner

A Look At The Keypad








Your scanner's keys have various functions labeled on the key tops and below the keys.

To select the function labeled on a key, simply press the key. To select the function labeled below a key, first press **Func** then release it. **F** appears on the display. Then press the next key in the function key sequence while **F** appears. **F** appears or disappears as you press **Func**.

If your scanner's keys seem confusing at first, the following information should help you understand each key's function.

Key Name	Description
Hold	Hold – Holds the scan or the frequency search. Press and hold Hold to increment channels continuously.
Scan/Src	Scan – Scans the stored channels. Func + Src – Starts chain search or resumes searching.

About Your Scanner

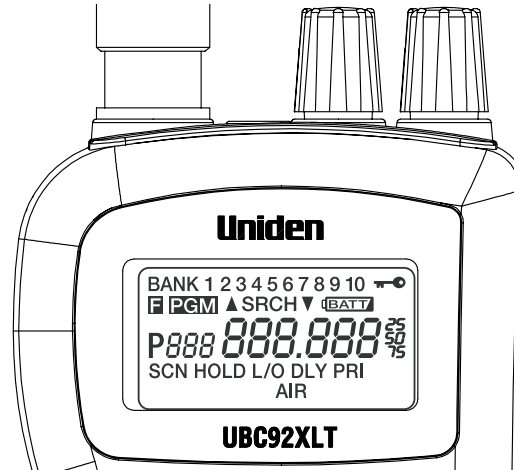
Key Name	Description
 / 	<p> – Turns the display backlight on or off.</p> <p>Func +  – Locks and unlocks the keypad.</p>
Func	Lets you use various functions by pressing this key in combination with other keys.
	Press and hold for more than 2 seconds to turn the scanner on or off.
1/Pri	<p>1 – Enters a 1.</p> <p>Func + Pri – Sets and turns the priority function on or off.</p>
2/∧	<p>2 – Enters a 2.</p> <p>Func + ∧ – Selects the search direction.</p>
3/Svc	<p>3 – Enters a 3.</p> <p>Func + Svc – Sets and turns the service search function on.</p>
4	4 – Enters a 4.
5/Dly	<p>5 – Enters a 5.</p> <p>Func + Dly – Sets and turns the delay function on or off.</p>
6/PSrc	<p>6 – Enters a 6.</p> <p>Func + PSrc – Sets and turns program band select mode on or off.</p>

About Your Scanner

Key Name	Description
7	7 – Enters a 7.
8/√	8 – Enters an 8. Func + √ – Selects the search direction.
9/Step	Enters a 9. Func + Step – Change Step to 12.5kHz or 8.33 kHz in Air band.
•/Clr	• – Enters a decimal point. Clr – Clears a frequency you entered by mistake.
0/L/O	0 – Enters a 0. Func + L/O – Lets you lock out a selected channel or skip a specified frequency.
E/Pgm	E – Enters frequencies into channels. Func + Pgm – lets you program the frequency.


About Your Scanner


A Look At The Display



The display has indicators that show the scanner's current operating status. The display information helps you understand how your scanner operates.

BANK - appears with numbers (1-10).


 - appears when you lock the keypad.

 - appears only when the function mode is on.

PGM - appears while you store a frequency into a channel.

SRCH - appears during search mode.

▼ or ▲ - appears during search mode.

 - alerts you when the battery power gets low.

P - appears when you select a priority channel.

SCN - appears when you scan channels.

HOLD - appears during scan hold mode and search hold mode.

About Your Scanner

L/O - appears when you manually select a channel you locked out or a skip frequency.

DLY - appears when you select a delay.

PRI - appears when the priority feature is turned on.

AIR and Cb - appears along with an indicator that shows the current service bank during a service search.

Understanding Banks

Service Banks

The scanner is preprogrammed with all the frequencies allocated to the aircraft and FM CB.

Channel-Storage Banks

To make it easier to identify and select the channels you want to listen to, the 200 channels are divided into 10 channel-storage banks. Each bank has 20 channels. Use each channel-storage bank to group frequencies, such as those for the railroad, police department, or aircraft.


For example, the police department might use eight frequencies in your town while the railroad uses an additional four. You could program the eight police frequencies starting with Channel 1 (the first channel in bank 1), and program the railroad frequencies starting with Channel 21 (the first channel in bank 2).

About Your Scanner

Operation

Turning On The Scanner and Setting Squelch

Note: Make sure the scanner's antenna is connected before you turn it on.

1. Turn **Squelch** fully counterclockwise.
2. Press and hold  for about 2 seconds to turn the scanner on, then turn **Volume** clockwise until you hear a hissing sound.
3. If the scanner is scanning, press **Hold** to stop scanning, then turn **Squelch** clockwise until the hissing stops.

Storing Known Frequencies Into Channels

1. Press **Hold**. Then enter the channel number where you want to store a frequency, then press **Func** and **Pgm**. The channel number appears.
2. Use the number keys and **•/Clr** to enter the frequency (including the decimal point) you want to store.
3. Press **E** to store the frequency into the channel.

Notes:

- If you entered an invalid frequency in Step 2, **ERROR** appears and the scanner beeps three times. Enter a valid frequency.
- The scanner automatically rounds the entered number to the nearest valid frequency. For example, if you enter 28.473 (MHz), your scanner accepts it as 28.475.
- When you enter a frequency into a channel, the scanner automatically turns on the delay function and **DLY** appears. When delay is turned on, the scanner automatically pauses scanning

Operation

2 seconds after the end of a transmission before scanning proceeds to the next channel. To turn the function off or on, press **Func + Dly**.

- If you enter a frequency that has already been entered elsewhere, the scanner sounds an error tone and displays the channel that was duplicated. If you entered the frequency by mistake, press **•/Clr** then enter the correct frequency. To enter the frequency anyway, press **E** to accept.
4. To program the next channel in sequence, press **E/Pgm** then repeat Steps 2 and 3.

Searching For and Temporarily Storing Active Frequencies

If you do not have a reference to frequencies in your area, use a search to find a transmission.

Note: When the scanner starts searching, it automatically turns on the delay function. To turn delay on or off, press **Func + Dly**.

Service Search

You can search for aircraft and FM CB transmissions without knowing the specific frequencies used in your area. The scanner is preprogrammed with all the frequencies allocated to these services. To use this feature, press **Func + Svc**. **SRCH** appears and the scanner searches starting with the aircraft service bank. To select a different service bank, repeatedly press **Func + Svc**. Service mode appears on the display.

When the scanner stops on a transmission, press **Hold** to stop searching and listen to the transmission. **Hold** appears. In this mode, you can

Operation

press **Func** + **^** or **Func** + **v** to step through the frequencies.

To release the hold and continue searching, press **Hold**. Or, if you did not press **Hold**, simply press **Func** + **^** or **Func** + **v** to continue searching.

Storing Frequencies into Channels During Service Search

You can store frequencies you found during service search or service search hold mode into channels.

1. Press **Func** and **Pgm** during service search or service search hold mode. The frequency and the lowest blank channel alternately appear.
2. Press **E/Pgm** to store the frequency into the blank channel. If you want to select another channel, press **Func** + **^** or **Func** + **v** before you press **E/Pgm**. You can also use the 0-9 key to select the bank.

If you entered a frequency that has already been entered elsewhere, the scanner sounds an error tone and displays the channel that was duplicated. If you entered the frequency by mistake, press **•/Clr** then enter the correct frequency. To enter the frequency anyway, press **E** to accept.

Scanning the Stored Channels

To begin scanning channels, press **Scan**. The scanner scans through all non-locked channels in the activated banks. (See "Locking Out Channels" on Page 39 and "Turning Channel-Storage Banks On and Off" on Page 38). When the scanner finds a transmission, it stops on it. When the transmission ends, the scanner resumes scanning.

Operation

Notes:

- If you have not stored frequencies into any channels, the scanner does not scan.
- If the scanner picks up unwanted partial, or very weak transmissions, turn **Squelch** clockwise to decrease the scanner's sensitivity to these signals. To listen to a weak or distant station, turn **Squelch** counterclockwise.
- To ensure proper scanning, adjust **Squelch** until the audio mutes.

Manually Selecting a Channel

You can continuously monitor a single channel without scanning. This is useful if you hear an emergency broadcast on a channel and do not want to miss any details - even though there might be periods of silence - or if you want to monitor a specific channel.

To manually select a channel, press **Hold**, enter the channel number then press **Hold** again.

Or, during scanning, if the radio stops at a channel you want to listen to, press **Hold** once. (Repeatedly pressing **Hold** at this time causes the scanner to step through the channels.) Press **Scan** to resume automatic scanning.

Operation

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Special Features

Chain Search

This feature lets you search through preset frequency ranges. You can also change each range to a range you set. There are three modes within this feature: chain search mode, chain search hold mode, and program band select mode.

The preset frequency ranges are:

BAND PLAN 1

Bank No.	Frequency (MHz)	Step (kHz)
1	25.0000 - 29.9950	5
2	30.0000 - 79.9875	12.5
3	80.0000 - 87.2625	10, 12.5
4	108.0000 - 136.9875	12.5/8.33
	108.0000 - 136.9916	Selectable
5	138.0000 - 157.9875	12.5
6	158.0000 - 173.9900	10, 12.5
7	406.0000 - 439.99375	6.25
8	440.0000 - 469.9900	10
9	470.0000 - 512.0000	6.25
10	806.0000 - 960.0000	12.5

Special Features

BAND PLAN 2

Bank No.	Frequency (MHz)	Step (kHz)
1	25.0000 - 84.0100	5
2	84.0150 - 87.2550	20
3	108.0000 - 136.9875	12.5/8.33
	108.0000 - 136.9916	Selectable
4	137.0000 - 143.9950	5
5	144.0000 - 145.9875	12.5
6	146.0000 - 173.9900	10, 12.5
7	406.0000 - 449.99375	6.25
8	450.0000 - 469.9900	10
9	470.0000 - 512.0000	6.25
10	806.0000 - 960.0000	12.5

See page 8 for how to switch the band between 1 and 2.

Chain Search Mode

Press **Func** + **Src** to start chain search mode. **SRCH**, the enabled search bank number, and **▼** or **▲** (indicating the search direction) appear. The search bank number being searched flashes.

Press **0-9** to enable or disable the search bank number being searched in this mode. Enabled bank numbers appear. (Disabled bank numbers disappear).

At least one search bank must be enabled. (The scanner sounds an error tone if you try to disable all the search banks). The search bank and the frequency where chain search starts depends on

Special Features

how the scanner was set before you selected chain search mode.

Chain Search Hold Mode

To start chain search hold mode, press **Hold** in chain search mode. The scanner stops searching and **Hold** appears. In this mode, pressing **Func** + **∨** changes the search direction downward and pressing **Func** + **∧** changes the search direction upward. **∇** or **▲** appears according to the current search direction.

Storing Frequencies Found During Chain Search into Channel Memory

You can store frequencies you find in chain search mode or chain search hold mode.

1. Press **Func** + **Pgm** in chain search mode or chain search hold mode. The lowest blank channel and bank appear.
2. Press **E/Pgm** to store the frequency into the blank channel. To select another channel, press **Func** + **∧** or **Func** + **∨** before you press **E/Pgm**. You can also press 0-9 to select the bank.

If you try to save a frequency that is already stored, the scanner sounds an error tone and displays the channel that was duplicated. If you entered the frequency by mistake, press **•/Clr**. To enter the frequency anyway, press **E** to accept.

The scanner sets itself to program mode after you store a frequency.

Setting the Search Range

You can use this mode to define the search range used during a chain search in each search bank. To

Special Features

set the scanner to program band select mode, press **Func** and **PSrc**. **SRCH** appears. Then select a search bank.

When you select the search bank, the lower limit and upper limit frequency assigned in the search bank alternate on the display.

To select another search bank, press **Func + PSrc** or **Func + ^** to increase the search bank number or **Func + v** to decrease it. Hold down **Func + ^** or **Func + v** for about 1 second to quickly move through the search bank numbers.

After choosing the search bank, follow these steps to set the lower limit and upper limit frequency.

1. Enter the lower limit frequency by using the 0-9 and **•/Clr** keys.
2. Press **E** to select the lower limit frequency.
3. Enter the upper limit frequency by using the 0-9 and **•/Clr** keys.
4. Press **E** to select the upper limit frequency.

Direct Entry Search

You can use direct entry search to search up or down from the currently displayed frequency.

1. If the scanner is scanning or searching, press **Hold**.
2. Enter the frequency you want to start from by using the number keys. (Press **•/Clr** to enter a decimal point).
3. Press **Func + ^** or **Func + v**. The scanner searches, starting from the frequency you entered in Step 2.

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If you enter a frequency that is out of range, the scanner sounds an error tone and **ERROR** appears.

Press **Func** + ∇ to change the search direction downward or **Func** + \wedge to change the search direction upward. Frequencies appear during the search.

Notes:

- You can set the delay function on or off during the search or while the search stops.
- You can skip a frequency when the search stops. After the search skip frequency is set, the scanner starts direct search again.

Direct Entry Search Hold Mode

To stop searching during direct entry search, press **Hold**. **Hold** appears. In this mode, pressing **Func** + ∇ changes the search direction downward and pressing **Func** + \wedge changes the search direction upward. ∇ or \blacktriangle appears depending on the search direction.

Press **Func** + ∇ to decrease the frequency by one step or **Func** + \wedge to increase it by one step. Hold down \wedge or ∇ for about 1 second to quickly increase or decrease the frequency.

To resume direct search, press **Func** + **Src** or **Hold**. ∇ or \blacktriangle appears on the display, showing the search direction.

Storing Frequencies Found During Direct Entry Search into Channel Memory

Follow these steps to store frequencies received during direct entry search mode or direct entry search hold mode.

1. Press **Func** + **Pgm** in direct entry search mode or direct entry search hold mode. The frequency

Special Features

and lowest blank channel alternate on the display.

2. Press **E/Pgm** to store the frequency into the blank channel. To select another channel, repeatedly press **Func** + **^** or **Func** + **v** to select the blank channel you want, then press **E**. You can also use the 0-9 keys to select the bank.

If you enter a frequency that has already been entered elsewhere, the scanner sounds an error tone and displays the channel that was duplicated. If you entered the frequency by mistake, press **•/Clr**. To enter the frequency anyway, press **E/Pgm** to accept.

The scanner moves to program mode after you stored the frequency.

Search Skip Memory

You can skip up to 50 specified frequencies during a search. This lets you avoid unwanted frequencies or those already stored in a channel.

Note: Search skip frequencies are shared by service search, direct entry search, chain search. If skip frequencies are sent in certain mode, the frequencies are also skipped in other search modes.

To skip a frequency, press **Func** and **L/O** when the scanner stops on the frequency during a search or a search hold. The scanner stores the frequency in memory and automatically resumes the search if it is not in hold.

Follow these steps to clear a single frequency from skip memory so the scanner stops on it during a search.

1. Press **Hold** to stop the search.

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2. Press **Func** + **^** or **Func** + **v** to select the frequency. **L/O** appears.
3. Press **Func** + **L/O**. **L/O** disappears.

To clear all the skip frequencies at once while searching or search hold, press **Func** then press and hold **L/O** until the scanner beeps.

Notes:

- If you selected all frequencies to be skipped within the search range, the scanner beeps 3 times and does not search.
- If you select more than 50 frequencies to skip, each new frequency replaces a frequency previously stored, beginning with the first stored frequency.
- Press **Func** + **^** or **Func** + **v** to select a skipped frequency while **Hold** appears. **L/O** appears when you select a skipped frequency.

Delay

Sometimes a user might pause before replying to a transmission. To avoid missing a reply on a specific channel, you can program a 2-second delay into any channel or frequency. The scanner continues to monitor the channel frequency for an additional 2 seconds after the transmission stops before resuming scanning or searching. The scanner automatically sets a delay when you store frequencies into channels or when you search frequencies. When the delay feature is on, **DLY** appears. If it is off, follow one of these steps to program a delay depending on how the scanner is operating.

- If the scanner is scanning and stops on an active channel where you want to store a delay, quickly

Special Features

press **Func + Dly** before it continues scanning again. **DLY** appears.

- If the desired channel is not selected, manually select the channel, then press **Func + Dly**. **DLY** appears.
- If the scanner is searching, press **Func + Dly** while the scanner is searching. **DLY** appears and the scanner automatically adds a 2-second delay to every frequency it stops on in that band.

To turn off the 2-second delay, press **Func + Dly** while the scanner is monitoring a channel, scanning, or searching. **DLY** disappears.

Turning Channel-Storage Banks On and Off

You can turn each channel-storage bank on and off. When you turn off a bank, the scanner does not scan any of the 20 channels in that bank.

While scanning, press the number key that corresponds to the bank you want to turn on or off. Numbers appear at the top of the display, showing the currently selected banks.

The scanner scans all the channels within the displayed banks that are not locked out (see "Locking Out Channels" on Page 39). The bank number flashes when the scanner scans a channel that belongs to the bank.

Notes:

- You can manually select any channel within a bank, even if that bank is turned off.
- You cannot turn off all banks. One bank must always be active.

Special Features

Locking Out Channels

You can increase the scanning speed by locking out channels that have a continuous transmission.

To lock out a channel, manually select the channel, then press **Func + L/O**. L/O appears.

Note: You can still manually select locked-out channels.

To remove the lockout from a channel, manually select the channel, then press **Func + L/O**. L/O disappears.

To unlock all channels in the banks that are turned on, press **Hold** to stop scanning, then press **Func** and press and hold **L/O** until the scanner beeps twice.

Priority

The priority feature lets you scan through the channels and still not miss important or interesting calls on specific channels. You can program one stored channel in each bank as a priority channel (10 for the banks).

If the priority feature is turned on, as the scanner scans the bank, it checks that bank's priority channel for activity every 2 seconds.

The scanner automatically designates each bank's first channel as its priority channel.

Follow these steps to select a different channel in a bank as the priority channel.

1. Manually select the channel you want to select as the priority channel.




Special Features





2. Press **Func + Pgm**, then press **Func + Pri**. **P** appears to the left of the selected channel number.
3. Repeat Steps 1 and 2 for the channel in each bank you want to program as a priority channel.

To turn on the priority feature, press **Func + Pri** during scanning. **PRI** appears. Then the scanner checks the designated priority channel every 2 seconds in each bank.

To turn off the priority feature, press **Func + Pri**. **PRI** disappears.



Using Keylock

Use the scanner's keylock to protect it from accidental program changes. When the scanner's keys are locked, the only controls that operate are **Scan**, **Func**, **Hold**, , , and .

To turn on keylock, press **Func + **.  appears. To turn off keylock, press **Func + **.  disappears.

Note: Using keylock does not prevent the scanner from scanning channels.

Using the Display Backlight

To turn on the display light for easy viewing at night, press . The display lights for 15 seconds. To turn off the light sooner, press  again.

Special Features

Troubleshooting

If your UBC92XLT is not performing properly, try the following steps.

Problem	Possible Cause	Suggestion
The scanner doesn't work.	The scanner might not be receiving any power.	Check the batteries or make sure the AC adapter is connected to an AC outlet and the scanner.
		If there is a wall switch that controls power to the AC outlet where you connected the AC adapter, make sure it is on.
Improper reception.	The scanner's antenna might need to be adjusted.	Check the antenna connection or move or reposition the antenna.
		Move the scanner.
		You might be in a remote area that could require an optional multi-band antenna. Check with your dealer or local electronics store.
Scan won't stop.	The squelch might need to be adjusted.	Adjust the squelch threshold. See "Turning On The Scanner and Setting Squelch" on Page 27.

Troubleshooting

Scan won't stop <i>(continued)</i>	The antenna might need to be adjusted.	Check the antenna connection.
	One or more channels might be locked out.	Make sure the channels you want to scan are not locked out.
	The channel's frequency might not be stored in memory.	Make sure the channel's frequency is stored in the scanner's memory.
	The channel might not be active.	Wait for a transmission on the channel.
Scan won't start.	You must press Scan to scan.	Press Scan .
	The squelch might need to be adjusted.	Adjust the squelch threshold. See "Turning On The Scanner and Setting Squelch" on Page 27.
	One or more channels might be locked out.	Make sure the channels you want to scan are not locked out.
	The antenna might need to be adjusted.	Check the antenna connection.

Troubleshooting

Resetting the Scanner

If the scanner's display locks up or stops operating properly, you might need to reset the scanner.

Caution: This procedure clears all the information (except the band plan data) you have stored in the scanner. Before you reset the scanner, try turning it off and on to see if it begins working properly. Reset the scanner only when you are sure it is not working properly.

1. Turn off the scanner.
2. While holding down **2**, **9**, and **Hold**, turn on the scanner. It takes about 3 seconds to initialize and **CLEAR** appears.

Troubleshooting

Care and Maintenance

Keep the scanner dry. If it gets wet, wipe it dry immediately. Use and store the scanner only in normal temperature environments. Handle the scanner carefully: do not drop it. Keep the scanner away from dust and dirt, and wipe it with a damp cloth occasionally to keep it looking new.

General Use

- Turn the scanner off before disconnecting the power.
- Always write down the programmed frequencies in the event of memory loss.
- If memory is lost, simply reprogram each channel. The display shows 000.000 in all channels when there has been a memory loss.
- Always press each button firmly until you hear the entry tone for that key entry.

Location

- 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.
- If the scanner receives strong interference or electrical noise, move it or its antenna away from the source of the noise. If possible, a higher elevation might provide better reception.
- Also try changing the height or angle of the antenna.

Cleaning

- Disconnect the power to the unit before cleaning.

Care and Maintenance

-
-
- Clean the outside of the scanner with a mild detergent.
 - To prevent scratches, do not use abrasive cleaners or solvents. Be careful not to rub the LCD window.
 - Do not use excessive amounts of water.

Repairs

Do not attempt any repair. The scanner contains no user serviceable parts.

Birdies

All radios can receive “birdies” (undesired signals). If your scanner stops during Scan mode and no sound is heard, it might be receiving a birdie. Birdies are internally generated signals inherent in the electronics of the receiver.

Press **L/O** to lock out the channel, then press **Scan** to resume scanning.

Care and Maintenance

Specifications

Channels: 200

Banks: 10 (20 channels each)

Frequency Range (in MHz):

See page 7 and 8

Sensitivity (12 dB SINAD)

25.005 MHz (FM) 0.3 μ V

54.050 MHz (FM) 0.3 μ V

86.275 MHz (FM) 0.3 μ V

118.800 MHz (AM)..... 0.5 μ V

127.175 MHz (AM)..... 0.5 μ V

135.500 MHz (AM) 0.5 μ V

138.150 MHz (FM)..... 0.3 μ V

162.400 MHz (FM) 0.3 μ V

173.220 MHz (FM) 0.3 μ V

406.875 MHz (FM)..... 0.4 μ V

453.250 MHz (FM) 0.4 μ V

511.9125 MHz (FM) 0.4 μ V

806.000 MHz (FM)..... 0.6 μ V

857.200 MHz (FM)..... 0.6 μ V

954.9125 MHz (FM) 0.6 μ V

Operating Temperature:

Normal -20°C to +60°C

Scan Rate: 50 channels per second (max)

Search Rate

Normal 60 steps per second (max)

Hyper 180 steps per second (max)

Priority Sampling 2 seconds

Scan Delay: 2 seconds

IF Rejection (at 162.4 MHz) 90 dB

IF Frequencies

1st IF (25-173.99 MHz)..... 380.6050-380.7000 MHz

1st IF (406-512 MHz) 380.60625-380.7000 MHz

1st IF (806-956 MHz) 380.7000-380.7875 MHz

Specifications

2nd IF 21.3 MHz
3rd IF 450 kHz
Audio Output 490 mW maximum
Built-in Speaker 32 mm dia, 8 ohm
Dynamic Type

Current Drain

Squelched 110 mA
Full Output 310 mA

Power Requirements:

2 AA Alkaline Batteries (3V DC),
or 2 AA Rechargeable Ni-MH Batteries (2.4V DC),
or AC Adapter (6 VDC 500mAh)

Antenna: 50 ohms (Impedance)

External Jacks: Antenna Jack BNC Type
Ext. Speaker Jack 3.5 mm

DC Power Jack 4.4 mm

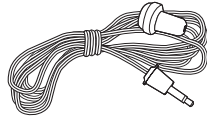
Size: 68mm (W) x 31.5mm (D) x 115mm (H)

Weight: 165 g

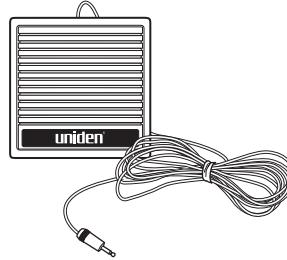
Features, specifications, and availability of optional accessories are all subject to change without notice.

Specifications

Optional Accessories



Earphone



External Speaker

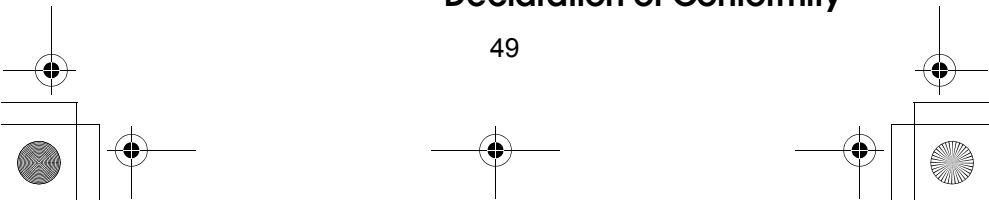
Optional Accessories

We:
Uniden Corporation
2-12-7 Hatchobori
Chuo-Ku, Tokyo 104-8512
Japan

declare, under our sole responsibility, that this equipment "Uniden Bearcat model UBC92XLT" is in compliance with the essential requirements and other relevant provisions of the EMC, R&TTE and LVD Council Directives of the EU.

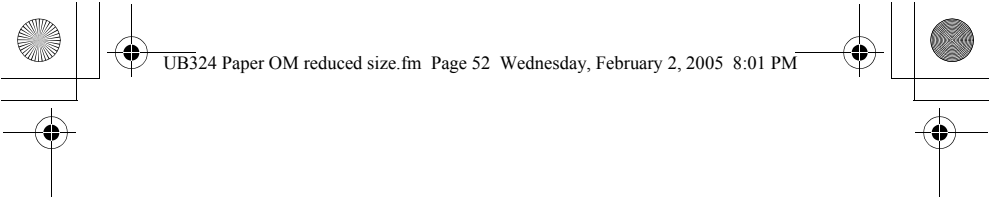


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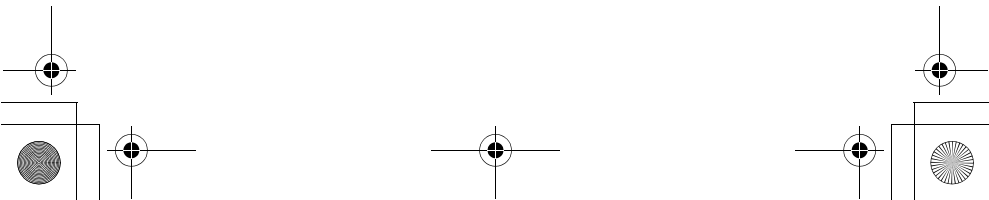
COVERED UNDER ONE OR MORE OF THE FOLLOWING U.S. PATENTS:				
4,398,304	4,409,688	4,455,679	4,461,036	4,521,915
4,597,104	4,627,100	4,841,302	4,888,815	4,932,074
4,947,456	5,014,348	5,199,109	5,408,692	5,428,826
5,438,688	5,448,256	5,465,402	5,471,660	5,483,684
5,548,296	5,530,296	5,571,071	5,574,995	5,577,076
5,598,430	5,600,223	5,642,424	5,710,992	5,859,875
5,896,422	5,991,346	5,991,603	6,012,158	6,025,758
6,034,573	6,064,270	6,266,521		



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