Uniden®

UBC125XLT
Scanner

OWNER'S **MANUAL**

UB374ZV_UBC125XLT_130329.indd 1 2013/03/29 10:34:48

PRECAUTIONS

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

EARPHONE WARNING!

Be sure to use only a monaural earphone with this scanner. You can also use an optional stereo headset. Use of an incorrect earphone or mono headset might be potentially hazardous to your hearing. The output of the phone jack is monaural, but you will hear it in both headphones of a stereo headset.

Set the volume to a comfortable audio level coming from the speaker before plugging in the monaural earphone or headset. Otherwise, you might experience some discomfort or possible hearing damage if the volume suddenly becomes too loud because of the volume control or squelch control setting. This might be particularly true of the type of earphone that is placed in the ear canal.

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.

Changes or modifications to this product not expressly approved by Uniden, or operation of this product in any way other than as detailed by this Operating Guide, could void your authority to operate this product.

UB374ZV_UBC125XLT_130329.indd 2 2013/03/29 10:34:50

CONTENTS

PRECAUTIONS 2

INTRODUCTION 6

FEATURE HIGHLIGHTS 6

FREQUENCY RANGE 10

BAND PLAN 1 ..... *10*

BAND PLAN 2 ..... *11*

INCLUDED WITH YOUR SCANNER 12

SCANNING BASICS 13

WHAT IS SCANNING? 13

WHAT IS SEARCHING? 13

UNDERSTANDING SCANNING 14

What is CTCSS/DCS? *14*

Conventional Scanning *15*

Simplex Operation *15*

Repeater Operation *16*

UNDERSTANDING BANKS 16

Channel Storage Banks *16*

Service Search Banks *16*

Custom Search Banks *17*

SETTING UP YOUR SCANNER 17

CONNECTING THE ANTENNA 18

Connecting an Optional Antenna *18*

CONNECTING AN EARPHONE/HEADPHONE 18

CONNECTING AN EXTENSION SPEAKER 18

ADJUSTING THE BELT CLIP 19

POWERING THE SCANNER 19

Installing Non-Rechargeable Batteries *20*

Installing Rechargeable Ni-MH Batteries *20*

Charging the Ni-MH Batteries *21*

ABOUT YOUR SCANNER 23

GETTING TO KNOW THE SCANNER 24

TURNING ON THE SCANNER 27

A LOOK AT THE DISPLAY 27

UB374ZV_UBC125XLT_130329.indd 3 2013/03/29 10:34:50

SETTING UP YOUR SCANNER **29**
Using the SCROLL CONTROL Knob ***29***
Adjusting the Volume ***30***
Adjusting the Squelch ***30***
Setting the Backlight ***30***
Adjusting the Contrast ***31***
Setting the Charging Timer ***32***
Using the Keypad Lock ***33***
Setting the Beep Tone ***33***
Resetting the Scanner ***33***
PC Programming ***34***
PROGRAMMING CHANNELS **34**
PROGRAMMING CHANNEL TEXT TAGS **36**
SETTING CTCSS/DCS FOR A CHANNEL **36**
SETTING CHANNEL MODULATION **37**
SETTING THE PRIORITY CHANNEL **38**
SETTING CHANNEL DELAY **39**
DELETING CHANNELS **40**
Clearing a Bank ***40***
SCANNING STORED CHANNELS **41**
Priority Scan Modes ***42***
MANUALLY SELECTING A CHANNEL **43**
Locking Out Channels ***43***
Unlocking Channels ***44***
Unlock all Channels in Banks Currently Enabled for Scan ***44***
SERVICE SEARCH MODE **45**
Service Search Receive/Hold Modes ***46***
Custom Search Mode ***46***
Custom Search Receive/Hold Modes ***48***
Quick Search Mode ***48***
Quick Search Receive/Hold Modes ***49***
Search Options ***50***
Programming Custom Search Ranges ***51***
Storing Found Search Frequencies ***52***
Locking Out Search Frequencies ***53***
Unlocking Search Frequencies ***53***
Unlocking all Search Frequencies ***54***
Setting Step Frequency ***54***
Setting Modulation ***55***

UB374ZV_UBC125XLT_130329.indd 4 2013/03/29 10:34:50

CLOSE CALL **55**
Using the Close Call Feature ***55***
Selecting Close Call Modes ***56***
Close Call Only Mode ***57***
Set Close Call Bands ***59***
Close Call Alert ***59***
Close Call Hits Bank ***60***
Close Call Delay ***60***
Close Call CTCSS/DCS Search ***61***
TECHNICAL SPECIFICATIONS **62**
REFERENCES **66**
CTCSS FREQUENCIES **66**
DCS CODES **67**
BIRDIES **67**
DECLARATION OF CONFORMITY **68**

INTRODUCTION

Thank you for purchasing a Uniden UBC125XLT Handheld Scanner. The scanner is versatile, compact, and easy to use. In addition to its standard scanning features, your scanner also includes Close Call™ RF capture technology designed to help you detect and identify strong local radio signals in your area. You can program up to 500 frequencies into the scanner's memory either manually or using optional computer software. The scanner lets you scan transmissions and is preprogrammed with service banks for your convenience. You can quickly search those frequencies most commonly used by police and other agencies, without tedious and complicated programming. Use your scanner to monitor:

- Emergency
- Freenet
- PMR
- Marine
- Aircraft
- CB radio
- HAM radio

FEATURE HIGHLIGHTS

10 Channel Storage Banks - You can store up to 50 frequencies into each bank for a total of 500 frequencies so you can more easily identify calls.

Close Call™ RF Capture Technology - you can set the scanner so it detects and provides information about nearby radio transmissions

UB374ZV_UBC125XLT_130329.indd 6 2013/03/29 10:34:50

Close Call Do-Not-Disturb - checks for Close Call activity in between channel reception so active channels are not interrupted.

Close Call Temporary Store - temporarily stores and scans the last 10 Close Call hits in the Close Call Hits bank.

PC Programming - you can download information into the scanner and upload to the scanner via your personal computer.

CTCSS and DCS Squelch Modes - rapid search for CTCSS/DCS tones/codes used during a transmission. You can identify up to 50 CTCSS tones and 104 DCS codes.

Direct Access - lets you directly access any channel.

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

Temporary Lockout - makes it easy to temporarily lock out any channel or frequency. The lockout is cleared when you turn power off, then back on so you don't have to remember to unlock the channels or frequencies later.

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

Text Tagging - you can name each channel, using up to 16 characters per name.

Service Banks - frequencies are preset in 7 separate Emergency, Freenet, PMR, Marine, Aircraft, CB radio and HAM radio banks to make it easy to locate specific types of calls and search any or all of these banks.

UB374ZV_UBC125XLT_130329.indd 7 2013/03/29 10:34:50

Priority Scan with Do Not Disturb - lets you program one channel in each bank (10 in all) and then have the scanner check each channel every 2 seconds while it scans the banks so you don't miss transmissions on those channels. Do-Not Disturb keeps the scanner from interrupting transmissions during receiving.

Priority Plus Scan - you can set the scanner so it scans only the priority channels.

Scan/Search Delay/Resume - controls whether the scanner pauses at the end of the transmission to wait for a reply. You can set the Delay time for each Channel, Close Call Search, Custom Search, and Service search. You can also set a negative delay where the scanner stops on transmissions for a set time then automatically resumes.

Custom Search - lets you program up to 10 Custom Search Ranges and search any or all of these ranges.

Quick Search - allows you to enter a frequency and start searching up or down from that frequency.

Turbo Search - increases the search speed from 100 to 300 steps per second automatically for bands with 5 kHz steps.

Search Lockouts - you can lock up to 200 search frequencies: 100 temporary frequencies and 100 permanent frequencies in Custom Search, Service Search, Close Call Search, or Quick Search Modes.

Frequency Step - Lets you select a frequency step (5, 6.25, 8.33, 10, 12.5 or 20 kHz) each band coverage band.

UB374ZV_UBC125XLT_130329.indd 8 2013/03/29 10:34:50

Modulation - Lets you select a modulation (AM or FM) each band coverage band.

Display Backlight - You can turn on/off the LCD backlight, set it operate on squelch only, keypress only, or both.

Signal Strength Meter - shows the signal strength for more powerful transmissions.

Flexible Antenna with BNC Connector - provides adequate reception in strong signal areas and is designed to help prevent antenna breakage. You can also connect an external antenna for better reception.

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

Three Power Options - let you power the scanner using the included two AA rechargeable or alkaline batteries or the supplied USB cable.

Built-In Charger - allows you to charge Ni-MH batteries in the scanner using a USB port on any computer and the supplied USB cable.

Key Confirmation Tones - You can turn on/off a tone that sounds when you perform an operation correctly or if you make an error.

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

Battery Save - works when there is no transmission for 1 minute in *Scan Hold* mode and any *Search Hold* mode (without Priority Scan and Close Call). This feature turns off RF power for 1 second and turns on it for 300ms to extend the battery life.

UB374ZV_UBC125XLT_130329.indd 9 2013/03/29 10:34:50

Battery Low Alert - the icon will blink in the display and a tone warns you every 15 seconds when the battery power gets low.

FREQUENCY RANGE

This table lists the frequency ranges, default step frequency, default modulation, and type of transmissions you can hear for each range.

BAND PLAN 1

FREQUENCY (MHz)		STEP (kHz)	MODE
LOWER	UPPER		
25.0000	27.9950	5.0	FM
28.0000	30.1950	5.0	FM
30.2000	49.9950	5.0	FM
50.0000	79.9950	5.0	FM
80.0000	82.9950	5.0	FM
83.0000	83.9950	5.0	FM
84.0000	88.0000	5.0	FM
108.0000	136.9916	8.33	AM
137.0000	137.9937	6.25	FM
138.0000	143.9937	6.25	FM
144.0000	145.9937	6.25	FM
146.0000	155.9937	6.25	FM
156.0000	157.4312	6.25	FM
157.4375	157.9937	6.25	FM
158.0000	160.5937	6.25	FM

UB374ZV_UBC125XLT_130329.indd 10 2013/03/29 10:34:50

FREQUENCY (MHz)		STEP (kHz)	MODE
LOWER	UPPER		
160.6000	162.0250	6.25	FM
162.0312	162.5937	6.25	FM
162.6000	174.0000	6.25	FM
225.0000	399.9875	12.5	AM
400.0000	439.9937	6.25	FM
440.0000	449.9937	6.25	FM
450.0000	465.9937	6.25	FM
466.0000	469.9937	6.25	FM
470.0000	512.0000	6.25	FM
806.0000	960.0000	12.5	FM

BAND PLAN 2

FREQUENCY (MHz)		STEP (kHz)	MODE
LOWER	UPPER		
25.0000	27.9950	5.0	AM
28.0000	30.1950	5.0	AM
30.2000	49.9950	5.0	FM
50.0000	79.9950	5.0	FM
80.0000	82.9950	5.0	FM
83.0000	84.0100	5.0	FM
84.0150	87.2950	20 with offset 15	FM
108.0000	136.9916	8.33	AM
137.0000	137.9950	5.0	FM

UB374ZV_UBC125XLT_130329.indd 11 2013/03/29 10:34:50

FREQUENCY (MHz)		STEP (kHz)	MODE
LOWER	UPPER		
138.0000	143.9950	5.0	FM
144.0000	145.9875	12.5	FM
146.0000	155.9900	10.0	FM
156.0000	157.4250	12.5	FM
157.4375	157.9875	12.5	FM
158.0000	160.5875	12.5	FM
160.6000	162.0250	12.5	FM
162.0300	162.5900	10.0	FM
162.6000	174.0000	10.0	FM
225.0000	399.9875	12.5	AM
400.0000	439.9937	6.25	FM
440.0000	449.9937	6.25	FM
450.0000	465.9900	10.0	FM
466.0000	469.9900	10.0	FM
470.0000	512.0000	6.25	FM
806.0000	960.0000	12.5	FM

INCLUDED WITH YOUR SCANNER

- UBC125XLT scanner with attached belt clip
- Antenna
- Rechargeable 2300mAh Ni-MH Batteries
- USB cable
- AC-USB adapter
- Wrist strap

UB374ZV_UBC125XLT_130329.indd 12 2013/03/29 10:34:50

SCANNING BASICS

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 UBC125XLT.

WHAT IS SCANNING?

Unlike standard AM or FM radio stations, most two-way communications do not transmit continuously. Your UBC125XLT 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 UBC125XLT 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 store it into one of the banks. If not, you can continue to search.

UB374ZV_UBC125XLT_130329.indd 13 2013/03/29 10:34:50

UNDERSTANDING SCANNING

What is CTCSS/DCS?

Your scanner can monitor systems using a Continuous Tone Coded Squelch System (CTCSS) and Digital Coded Squelch (DCS) system, which allows the squelch to open only when the tone you have programmed with a specific frequency is received along with a transmission.

CTCSS and DCS are sub-audible tone signaling systems sometimes referred to as PL or DPL (Motorola's trademarked terms for Private Line and Digital Private Line respectively). CTCSS and DCS are used only for FM signals and are usually associated with both amateur and commercial two-way frequencies. These systems make use of a special sub-audible tone that accompanies a transmitted signal.

CTCSS and DCS are used for many purposes. In many cases, CTCSS and DCS are used to restrict access to a commercial repeater, so that only those units which transmit the correct tone along with their signal can "talk" to the repeater.

CTCSS and DCS are also used in areas that receive interference where there are several stations with output frequencies close to each other. When this occurs, you might hear multiple communications on the same frequency. The stations might even interfere with each other to the point where it is impossible to clearly receive any of the stations. Your scanner can code each received frequency with a specific sub-audible CTCSS tone or DCS code. Then, when you receive multiple signals, you only hear the transmission with the CTCSS or DCS tone you programmed. If you do not receive the correct tone

UB374ZV_UBC125XLT_130329.indd 14 2013/03/29 10:34:50

with a signal, the scanner's squelch remains closed and you hear nothing.

Refer to the Reference section of this manual for tables showing the available CTCSS frequencies and DCS codes.

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 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
- 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

UB374ZV_UBC125XLT_130329.indd 15 2013/03/29 10:34:50

construction job sites, and with inexpensive consumer radios such as PMR radios. The range is typically 1-8 miles, 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 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 35-kilometer radius from the repeater location.

UNDERSTANDING BANKS

Channel Storage Banks

To make it easier to identify and select the channels you want to listen to, the 500 channels are divided into 10 channel storage banks containing 50 channels each. You could use each channel storage bank to group frequencies by department, location, area of interest, or any other way you prefer. You can listen to any or all of the banks by using the number keys to turn them on or off.

Service Search Banks

The scanner is preprogrammed with many of the frequencies allocated to Emergency, Freenet, PMR, Marine, Aircraft, CB radio and HAM radio services. There are 7 banks allocated for these

UB374ZV_UBC125XLT_130329.indd 16 2013/03/29 10:34:50

searches that can be used just like the channel storage banks to search these frequencies in *Service Search* mode.

Custom Search Banks

Custom Search Banks let you program and search 10 custom search ranges. During custom search, the scanner starts searching with the lowest frequency in the search range you select to the highest frequency in the range. You can search any or all of these ranges by turning each search bank on or off just like channel storage banks in *Search* mode.

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. You might also try changing the height or angle of the rubber antenna.

To improve the scanner's reception, use an optional external antenna designed for multiband coverage. (You can purchase this type of antenna at a local electronics store). If the optional antenna has no cable, use 50 ohm coaxial cable for lead-in. An adapter plug might be necessary for the optional antennas.

Use an optional mono earphone or stereo 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.

UB374ZV_UBC125XLT_130329.indd 17 2013/03/29 10:34:50

CONNECTING THE ANTENNA

1. Align the slots around the antenna's connector with the tabs on the scanner's BNC connector.
2. Slide the antenna's connector down over the scanner's connector.
3. 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 50 feet from the scanner, use RG-8 low-loss dielectric coaxial cable. If it is less than 50 feet, use RG-58. You can get a BNC adapter at local electronics stores.*

CONNECTING AN EARPHONE/HEADPHONE

For private listening, you can plug a 1/8-inch (3.5 mm) mini-plug earphone or stereo 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 1/8-inch (3.5-mm) mini-plug into your scanner's jack.

UB374ZV_UBC125XLT_130329.indd 18 2013/03/29 10:34:50

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.**

ADJUSTING THE BELT CLIP

The factory-attached belt clip makes it easier to carry the scanner. Use a Phillips screwdriver to adjust (loosen) the mounting screws or remove the belt clip completely.

POWERING THE SCANNER

You can power the scanner using alkaline (ALK) non-rechargeable batteries (not supplied) or the included Nickel Metal-Hydride (Ni-MH) rechargeable batteries. [Uniden provides a USB cable to charge the Ni-MH batteries on initial installation and to recharge them through your computer or through a power adapter that provides USB charge power.]

Inside the battery compartment is a switch to set the unit to either ALK or Ni-MH.

WARNING! **Non-rechargeable batteries can get hot or burst if you try to recharge them.**

CAUTIONS:

- When flashes in the display and the scanner beeps every 15 seconds, recharge or replace the batteries.
- Use only fresh batteries of the required size and recommended type.

UB374ZV_UBC125XLT_130329.indd 19 2013/03/29 10:34:50

- 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.
- Do not use and charge Ni-Cd batteries; this may cause a safety hazard and damage the scanner.

Installing Non-Rechargeable Batteries

1. Make sure the power is turned off.
2. Slide the battery compartment cover off.
3. Use a pointed object such as a ballpoint pen to set the battery selection switch inside the compartment to ***ALK***.
4. Insert the batteries as indicated by the polarity symbols (+ and -) marked inside the battery compartment.
5. Replace the battery compartment cover.

Installing Rechargeable Ni-MH Batteries

You can also use two Ni-MH rechargeable batteries to power your scanner. The Ni-MH batteries included with your unit are not fully charged; you must charge them completely after you install them into your scanner. See Charging the NiMH Batteries, page 21, for details.

1. Make sure the power is turned off.
2. Slide the battery compartment cover off.
3. Use a pointed object such as a ballpoint pen to set the battery selection switch inside the compartment to ***Ni-MH*** for Nickel Metal-Hydride batteries.

UB374ZV_UBC125XLT_130329.indd 20 2013/03/29 10:34:51

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

Note: *To prevent damage to Ni-MH batteries, never charge them in an area where the temperature is above 45°C or below 4°C.*

Charging the Ni-MH Batteries

The scanner has a built-in circuit that charges the included Ni-MH batteries when a USB cable connects it to a computer (NOT to a USB hub) or to an AC or DC adapter that provides USB charging power. Verify that the battery selection switch is set to ***Ni-MH*** and that only Ni-MH rechargeable batteries are inserted in the scanner before connecting it to your computer.

> ***CAUTION:*** **Never attempt to charge non-rechargeable batteries or install non-rechargeable batteries when the battery selection switch is set to Ni-MH. The USB cable will only charge the batteries if the scanner is turned off.**

1. Be sure the scanner is turned off. It will recharge only if it is turned off, even with the USB cable connecting it to a computer.
2. Connect the included USB cable to the scanner's USB port.
3. Connect the other end of the USB cable to the computer's USB port or to an AC or DC adapter that provides USB charging power.

NOTE: *If you connect to a computer's USB port, the PC will prompt you for the drivers for your scanner. USB drivers and optional programming software are available for download from http://www.butel.nl/ubc125xlt . These will also be available on the CD's with ARC125 Software.*

UB374ZV_UBC125XLT_130329.indd 21 2013/03/29 10:34:51

4. The scanner displays *Charging* while it charges the batteries and *Charge Complete* when the Ni-MH batteries are completely charged.

Different status messages may display depending on the battery type and scanner status:

LCD Message	Batt. Type	Meaning	Scanner Cond.
Charging	Ni-MH	Scanner is charging.	Off
No Battery	None	NO batteries in scanner.	Off
Charge Complete	Ni-MH	Unit is charged.	Off
Charge Off	Alk./Ni-MH	Scanner is not charging (Battery selection switch is set to Alk.)	Off
Battery Error	Ni-MH	Batteries cannot be charged (dead battery).	Off
Illegal Voltage	Ni-MH	USB external power is out of range.	Off

See also Setting the Charging Timer, page 32.

If the batteries are good, the scanner charges the batteries. and it operates normally. If the scanner cannot immediately determine if the batteries are good and can be charged, it checks them and displays the battery icon. If the scanner judges the batteries are good, the scanner starts charging and the battery icon disappears. If it cannot regard the batteries as good in 60 seconds, the scanner stops checking and the battery icon blinks.

UB374ZV_UBC125XLT_130329.indd 22 2013/03/29 10:34:51

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 search 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. For example, many amateur radio frequencies are located in the HAM service bank.

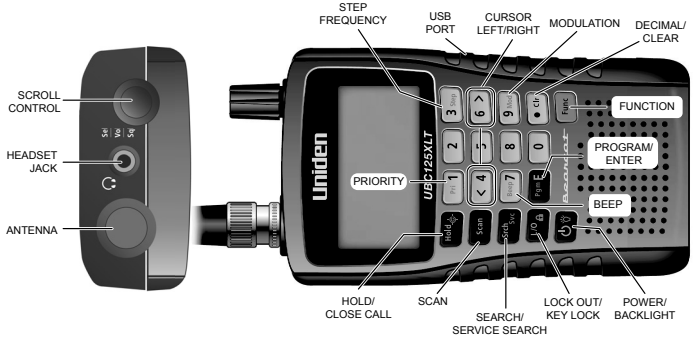
When you search and find a desired frequency, you can store it into a programmable memory location called a channel. Channels are grouped into channel storage banks. The scanner has 10 channel storage banks and each bank has 50 channels. You can scan the channel storage banks to see if there is activity on the frequencies stored there.

UB374ZV_UBC125XLT_130329.indd 23 2013/03/29 10:34:51

GETTING TO KNOW THE SCANNER

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

Your scanner's keys have various functions labeled on the key tops and below the keys. The keys operate in *Normal* mode and *Function* mode. Pressing ***Func*** puts the scanner into *Function* mode for 3 seconds and then returns to *Normal* mode. The scanner displays F . During that 3 seconds you can press other keys and operate that function. Pressing ***Func*** again before 3 seconds returns to *Normal* mode and the F icon disappears. In *Normal* mode the F icon is not displayed.



Key/ Icon	Press to...	Press *Func* and this key to...
1/PRI	Enter 1.	Enter the *Priority* menu.
3/Step	Enter 3.	Enter the *Step* menu.

UB374ZV_UBC125XLT_130329.indd 24 2013/03/29 10:34:51

Key/ Icon	Press to...	Press *Func* and this key to...
4/<	• Enter 4. • Scroll left in *Edit Tag* mode.	NA
6/>	• Enter 6. • Scroll right in *Edit Tag* mode.	NA
7/Beep	Enter 7.	Toggle the *Key-beep* setting.
9/Mod	Enter 9.	Toggle the *Modulation* setting.
. Clr	• Enter a decimal point. • Input a space in a text string.	NA
Func	• Enter *Function* mode for 3 seconds. • Return to *Normal* mode from *Function* mode.	NA
Hold/	• Hold on a current channel. • Release hold and resume scanning/searching. • Monitor an unprogrammed frequency after you have entered it. • Access a channel directly after you have entered it.	Enter the *Close Call* menu.
Scan	Enter or resume *Scan* mode.	NA
Srch/ Svc	Start Custom Search.	Start Service Search.

UB374ZV_UBC125XLT_130329.indd 25 2013/03/29 10:34:52

Key/ Icon	Press to...	Press *Func* and this key to...
L/O/	• Temporarily lock out a channel or search frequency (press once). • Permenantly lock out a channel or search frequency (press twice). • Unlock a locked out channel or search frequency. • Unlock all locked out settings of the enabled channel banks or search frequencies (press and hold).	Lock or unlock the keypad.
	• Turn scanner on and off (press and hold). • Turn backlight on and off.	Enter the *Display/Charge* menu.
Pgm/E	• Select input data or a menu item. • Access a channel through its channel number.	• Enter *Channel Programming* menu. • Quickly save frequencies in various modes.

Note: *Turn* ***SCROLL CONTROL*** *to scroll up and down through menu selections.*

UB374ZV_UBC125XLT_130329.indd 26 2013/03/29 10:34:52

TURNING ON THE SCANNER

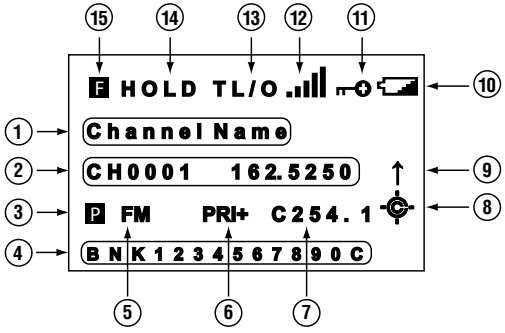
Note: *Make sure the scanner's antenna is connected before you turn it on.*

1. You can select the band plan (Band Plan 1 or 2) when you turn on the scanner. When you press and hold ⏻ for 1 second to turn on the scanner, also press and hold ***1*** for Band Plan 1 or ***2*** for Band Plan 2.
2. If the scanner is new or has been reset, the default mode is *Scan Hold* with all banks enabled and *Close Call Do-Not-Disturb* active. Otherwise, the scanner displays the last mode the scanner was in before it was powered down.

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.

Note: *Not all of these icons may appear at the same time.*



UB374ZV_UBC125XLT_130329.indd 27 2013/03/29 10:34:52

Item	Meaning
1	• Channel Name in *Scan/Scan Hold* mode. • Custom/Service Search Bank Name. • Quick Search in *Quick Search* mode. • Close Call Hits in *Scan/Scan Hold* mode. • Close Call in *Close Call Only* mode.
2	• Scan in *Scan* mode. • CC Search in *Close Call Only* mode. • Channel Number and Frequency. • Searching Frequency.
3	P identifies a Priority channel.
4	• BNK/SVC/SRC/BND shows banks/bands enabled for *Scan/Service Search/Custom Search/Close Call Only* mode. • C is for the Close Call Hits bank.
5	AM/FM shows channel/frequency modulation.
6	• **PRI** indicates Priority Scan. • PRI indicates Priority Do-Not-Disturb. • **PRI+** indicates Priority Plus Scan.
7	Shows any CTCSS/DCS tone/code received.
8	• indicates Close Call Priority. • indicates Close Call Do-Not-Disturb.
9	↑or ↓ indicates the scan/search direction.
10	indicates the batteries are low.
11	indicates the key lock is enabled.
12	indicates the signal strength.

UB374ZV_UBC125XLT_130329.indd 28 2013/03/29 10:34:52

Item	Meaning
13	• **TL/O** indicates temporary lock out. • **L/O** indicates permanent lock out.
14	• Hold on a channel. • Hold on a frequency.
15	Indicates *Function* mode.

SETTING UP YOUR SCANNER

When you turn on your scanner for the first time, you can set your screen display preferences as well as other elements such as squelch levels, volumes, brightness, etc.

Using the SCROLL CONTROL Knob

Turn the ***SCROLL CONTROL*** knob on top of the UBC125XLT to:

- Select channels
- Adjust volume
- Adjust squelch
- Set display settings
- Selects characters for text tagging
- Scroll up or down through menu options
- Change channels/frequencies in *Hold* mode
- Resume scanning

Press the ***SCROLL CONTROL*** knob to select a setting.

Note: *Pressing* ***SCROLL CONTROL*** *is the same as pressing* ***Pgm/E*** *on the keypad in Menu mode.*

UB374ZV_UBC125XLT_130329.indd 29 2013/03/29 10:34:53

Adjusting the Volume

1. Press ***SCROLL CONTROL***; The volume level indicator and battery voltage display.
2. Turn ***SCROLL CONTROL*** to adjust the volume level from 0 to 15.
3. Press ***SCROLL CONTROL*** to set the volume.
4. To exit *Volume Level* mode, press ***SCROLL CONTROL*** again or wait 10 seconds to return to the previous mode.

Adjusting the Squelch

1. Press ***Func***, then press ***SCROLL CONTROL***. The squelch level indicator and battery voltage appears.
2. Turn ***SCROLL CONTROL*** to change the squelch level from 0 to 15.
3. Turn ***SCROLL CONTROL*** until the audio mutes. If the scanner picks up unwanted partial signals or very weak transmissions, increase the Squelch setting to increase the signal level required to open squelch. To listen to a weak or distant station, decrease the Squelch setting.
4. Press ***SCROLL CONTROL*** to set the desired level and return to the previous mode.

Setting the Backlight

Press to turn on the backlight on and off.

1. Press ***Func*** and to view the *Display/Charge* menu.
2. From this menu, scroll to *Set Backlight* from the submenus. Press ***SCROLL CONTROL***.

UB374ZV_UBC125XLT_130329.indd 30 2013/03/29 10:34:53

3. Scroll to select one of the following settings:
   - Always Off - Backlight is always off.
   - Always On – Backlight is always on.
   - On with Squelch - Backlight is on while squelch is open and until delay expires.
   - On with Keypress - Backlight is on for 10 seconds after any key is pressed.
   - Keypress+Squelch – Both above-mentioned "Squelch" and "Keypress."
   - < Back - Return to previous menu.
4. Press ***Pgm/E*** (or press ***SCROLL CONTROL***) to save and return to the previous menu. (Default = Always Off)
5. Press **. *Clr*** to exit.

Notes: *If the backlight is set to Always On when* *is pressed, the backlight is turned off and the backlight setting is then set to Always Off.*

If the backlight is set to Always Off when *is pressed, the backlight is turned on and the backlight setting is then set to Always On.*

Adjusting the Contrast

This submenu of the *Display/Charge* menu controls the display's contrast (how light or dark it appears) for different viewing conditions. There are 15 contrast settings. You see the contrast change as you scroll through the settings.

UB374ZV_UBC125XLT_130329.indd 31 2013/03/29 10:34:53

1. To adjust the contrast, press ***Func*** then ; the *Display/ Charge* menu displays
2. Scroll to *Set Contrast* and press ***Pgm/E***.
3. Scroll to see the contrast settings.
4. When you have selected a setting, press ***Pgm/E*** to set it and return to the previous menu.
5. Press ***. Clr*** to exit.

Setting the Charging Timer

The *Charging Timer* menu is also a submenu of the *Display/ Charge* menu. It sets how long the scanner will charge the batteries when you plug the supplied USB cable into a USB port and connect it to your scanner.

WARNING: **The Charging Timer will reset to the set charging time every time you plug the USB cable into the scanner or charge the batteries while the USB cable is connected.**

1. To set the Charging Timer press ***Func*** then to view the *Display/Charge* menu.
2. Scroll to *Set ChargeTime* and press ***Pgm/E***.
3. Scroll to 1-14 (hours) (default = 14 hours) and press ***Pgm/E*** to save and return to the previous menu.

   Suggested maximum charging time for Ni-MH batteries:

1500mAh	9 hours
1800mAh	11 hours

UB374ZV_UBC125XLT_130329.indd 32 2013/03/29 10:34:53

2000mAh	12 hours
2100mAh	13 hours
2200mAh	13 hours
2300mAh	14 hours

Note: *The batteries will take longer to charge when the scanner is in use.*

4. Press ***. Clr*** to exit.

Using the Keypad Lock

Use the scanner's keypad lock to protect it from accidental program changes. When the keypad is locked, only ***Func***, ***Hold***, , , and ***SCROLL CONTROL*** (volume only) operate.

Press ***Func*** then ***L/O*** to toggle the keypad lock on and off. The scanner displays *Keypad Lock On* or *Keypad Lock Off*.

Setting the Beep Tone

Press ***Func*** then ***Beep/7*** (Default = ON) to toggle the keypress confirmation tone on or off.

Resetting the Scanner

WARNING: **Resetting the scanner clears all data and settings you have entered. You cannot restore user programmed data that has been deleted. You can, at a last step, restore only the original factory data.**

1. Press and hold the ***2***, ***9***, and ***Hold*** keys and turn on the scanner.
2. The scanner clears all data and returns to the initial setting except the band plan. *All Memory Clear* displays.

UB374ZV_UBC125XLT_130329.indd 33 2013/03/29 10:34:53

PC Programming

Connect your scanner to your PC through the USB cable to:

- Program channels into the scanner
- Set any setting

When you connect your scanner to your PC, a series of screens will appear to assist you.

USB drivers and optional programming software are available for download from http://www.butel.nl/ubc125xlt . These will also be available on the CD's with ARC125 Software.

PROGRAMMING CHANNELS

Now that you have configured your scanner, you are ready to start using your scanner's preprogrammed service banks, the custom search banks, the Close Call feature. You can also program your channel memories or re-program your 10 custom search bank memories.

Before the scanner can begin scanning, you must program a frequency into at least one channel.

1. To select a channel, press ***Hold*** then enter the channel number (1-500).
2. Press ***Pgm/E*** to enter the *Channel* menu. (You can also press ***Hold*** and scroll to the channel; press ***Func*** then ***Pgm/E***.)

   Note 1: *Turning* ***SCROLL CONTROL*** *in Function mode will allow you to select the first channel in each bank.*

UB374ZV_UBC125XLT_130329.indd 34 2013/03/29 10:34:54

Note 2: *You can quickly store frequencies in* Scan Hold *mode by entering the frequency and pressing* ***Pgm/E****.*

3. Scroll to highlight *Enter Frequency* and press ***Pgm/E***. You will see the channel number and currently programmed frequency. (To return to the previous screen, press ***. Clr***.)

4. Use number keys and ***. Clr*** for a decimal to enter the frequency. If you make a mistake, press ***. Clr*** to clear the display. Press ***Pgm/E*** to store the frequency and return to the *Channel* menu.

5. Press ***. Clr*** to return to the last screen.

The scanner automatically rounds the entered number to the nearest valid frequency. For example, if you enter 151.473 (MHz), your scanner accepts it as 151.475.

If you entered an invalid frequency, *Out of Band* appears and the scanner beeps three times. Press ***. Clr*** and enter a valid frequency. If you enter a frequency that has already been entered elsewhere, the scanner displays the channel number and *Frequency Exists – Confirm?* appears.

If you entered the frequency by mistake, press ***. Clr*** then enter the correct frequency. To enter the frequency anyway, press ***Pgm/E*** to accept.

The channel belong to same bank is displayed, then the smallest channel is displayed when two or more duplication channels exist.

UB374ZV_UBC125XLT_130329.indd 35 2013/03/29 10:34:54

PROGRAMMING CHANNEL TEXT TAGS

You can customize your channels by programming text tags (up to 16 characters in length) for easier channel frequency identification. The default tag is the bank number followed by the channel number in the bank.

1. To select a channel, press ***Hold*** and then enter the channel number.
2. Press ***Pgm/E*** to enter the *Channel* menu. (You can also press ***Hold*** and scroll to the channel; press ***Func*** then ***Pgm/E***.)
3. Scroll to select *Edit Tag* and press ***Pgm/E***.
4. Turn ***SCROLL CONTROL*** to choose the characters, pressing **>** or **<** to move the cursor to the right or left. If you make a mistake, press ***. CLR*** to clear the last character. Press ***. CLR*** twice to clear all characters. To cancel and exit, press ***L/O***.
5. Press ***Pgm/E*** to save the tag and return to the *Channel* menu.

SETTING CTCSS/DCS FOR A CHANNEL

You can store a CTCSS tone or DCS code, set the scanner to search for tones/codes, have the scanner open squelch on any tone/code, or have the squelch only open if no CTCSS/DCS is detected for any channel. (Default = Off)

1. To select a channel, press ***Hold*** and then enter the channel number.
2. Press ***Pgm/E*** to enter the *Channel* menu. (You can also press ***HOLD*** and scroll to the channel; press ***Func*** then ***Pgm/E***.)

UB374ZV_UBC125XLT_130329.indd 36 2013/03/29 10:34:54

3. Scroll to select *Set CTCSS/DCS* and press ***Pgm/E***.
4. Scroll to select one of the following options:
   - *Off* - the scanner ignores all tones and opens squelch on any signal
   - *CTCSS* - the scanner prompts the user for the appropriate tone. Squelch will open for this channel only if the tone matches.
   - *DCS* - the scanner prompts the user for the appropriate code. Squelch will open for this channel only if the code matches.
   - *CTCSS/DCS* Search - the scanner displays any tone/code being used, but opens squelch on any signal.
   - *No Tone* - indicates that the channel squelch will only open if no CTCSS/DCS is detected.
   - *<Back* - returns to *Channel* Menu.

   Note: *If you select Off, CTCSS/DCS Search, or No Tone, the scanner returns to the channel menu. If you selected CTCSS or DCS, you can then select the CTCSS tone or DCS code.*
5. Scroll to select, then press ***Pgm/E*** to save and return to the *Channel* menu.

SETTING CHANNEL MODULATION

1. To select a channel, press ***Hold*** and then enter the channel number.
2. Press ***Pgm/E*** to enter the *Channel* menu. (You can also press ***Hold*** and scroll to the channel; press ***Func*** then ***Pgm/E***.)

UB374ZV_UBC125XLT_130329.indd 37 2013/03/29 10:34:54

3. Scroll to select *Set Modulation* and press ***Pgm/E***.
4. Scroll to select modulation from the following options :
   - *AM* - the scanner uses AM modulation.
   - *FM* - the scanner uses FM modulation.
5. Press ***Pgm/E*** to save and return to the *Channel* menu.

Note: *If current frequency is air band, you can not select FM modulation.*

SETTING THE PRIORITY CHANNEL

The Priority feature lets you designate one stored channel in each bank as a Priority channel. When the Priority feature is turned on, the scanner checks that bank's priority channel for activity every 2 seconds as it scans the bank. This feature lets you scan through the channels and still not miss important or interesting calls on specific channels.

P displays to identify a Priority channel.

1. To select a channel, press ***Hold*** then enter the channel number.
2. Press ***Pgm/E*** to enter the *Channel* menu. (You can also press ***Hold*** and scroll to the channel; press ***Func*** then ***Pgm/E***.)
3. Scroll to *Set Priority* and press ***Pgm/E***.
4. Scroll to *Priority On* and press ***Pgm/E*** to save and return to the *Channel* Menu.

UB374ZV_UBC125XLT_130329.indd 38 2013/03/29 10:34:54

SETTING CHANNEL DELAY

This setting controls how many seconds the scanner waits after a transmission ends before resuming scanning. If you select a minus delay time, the scanner stops on the transmission for the setting time, then automatically resumes scanning. (Default = 2 seconds)

1. To select a channel, press ***Hold*** then enter the channel number.
2. Press ***Pgm/E*** to enter the *Channel* menu. (You can also press ***Hold*** and scroll to the channel; press ***Func*** then ***Pgm/E***.)
3. Scroll to *Set Delay* and press **Pgm/E**.
4. Turn ***SCROLL CONTROL*** to select the delay time from the following options:
   - -10 sec - resumes after 10 seconds.
   - -5 sec - resumes after 5 seconds.
   - 0 sec - resumes immediately.
   - 1 sec - waits 1 second for a reply then resumes.
   - 2 sec - waits 2 seconds for a reply then resumes.
   - 3 sec - waits 3 seconds for a reply then resumes.
   - 4 sec - waits 4 seconds for a reply then resumes.
   - 5 sec - waits 5 seconds for a reply then resumes.
5. Press ***Pgm/E*** to save and return to the *Channel* menu.

UB374ZV_UBC125XLT_130329.indd 39 2013/03/29 10:34:54

DELETING CHANNELS

You can delete all programming for a channel.

1. Press ***Hold*** then enter the channel number to delete.
2. Press ***Pgm/E*** to enter the *Channel* menu. (You can also press ***Hold*** and scroll to the channel; press ***Func*** then ***Pgm/E***.)
3. Scroll to select *Delete Channel* and press ***Pgm/E***.
4. At *Confirm Delete?*, press ***Pgm/E*** to delete the channel or ***.Clr*** to cancel and return to the *Channel* menu.

Clearing a Bank

You can delete all channels in a bank.

1. Press ***Hold*** to select any channel in the bank, then enter that channel number.
2. Press ***Pgm/E*** to enter the *Channel* menu. (You can also press ***Hold*** and scroll to the channel; press ***Func*** then ***Pgm/E***.)
3. Scroll to select *Clear Bank* and press ***Pgm/E***.
4. At *Confirm Clear?*, press ***Pgm/E*** to clear the bank or ***. Clr*** to cancel and return to the *Channel* menu.

UB374ZV_UBC125XLT_130329.indd 40 2013/03/29 10:34:54

SCANNING STORED CHANNELS

Press ***Scan*** to begin scanning channels.

The scanner scans through all unlocked channels in the enabled banks in channel order. When the scanner finds a transmission, it stops on it.

When the scanning of all normal banks ends, the scanner scans a channel storage bank that is named Close Call Hits (if enabled). This is a storage bank that automatically stores found frequencies with any *Close Call* mode. You will see *Close Call Hits* on the display. If the Close Call Hits bank is empty, the scanner does not scan this bank.

In *Scan* mode, the upper line displays the current channel bank number and the lower line displays and scrolls *SCAN* from right to left with the direction indicator (↑or ↓).

Enabled scan banks appear on the lowest line. Disabled scan bank numbers are not displayed. The currently scanned bank number flashes.

- You can turn scan banks on/off by pressing 1-9 or 0, but one scan bank must always be enabled. If you turn off all scan banks, the scanner will display *Nothing to Scan*. You can turn Close Call Hits bank on/off by pressing **. *Clr***.
- If you want to change the search direction or if it is a long transmission and you want to continue scanning, turn the ***SCROLL CONTROL*** or press ***Scan***.

When the scanner finds a transmission, it stops on it. When the transmission ends, the scanner resumes scanning according to the delay setting for each channel.

UB374ZV_UBC125XLT_130329.indd 41 2013/03/29 10:34:54

- To hold on a channel, press ***Hold***.
- To step through the channels, turn the ***SCROLL CONTROL*** in *Hold* mode. Press ***Hold*** to resume.

While monitoring a transmission, the upper line displays the current bank and bank channel number (or name if tagged) and the lower line displays the channel number in the scanner and frequency with the direction indicator (↑or ↓).

P appears in the display if it is a priority channel. The modulation, *Priority* mode icon (if Priority is enabled), and the Close Call icon (if CC Pri or CC-DND is enabled) also displays.

Any CTCSS/DCS received blinks in CTCSS/DCS search and appears solid if programmed.

Numbers at the bottom of the display show the selected scan banks. The currently scanned bank number flashes in *Receive* mode.

- To temporarily lock out a channel, press ***L/O***.
- To permanently lock out a channel, press ***L/O*** twice quickly.

See Locking Out Channels on page 43.

Priority Scan Modes

This scanner allows four different Priority modes. These modes also function in S*earch* and *Hold* modes (except *Close Call Only* mode). (Default = Off)

In *Scan* or *Search* mode, press ***Func*** then ***Pri/1*** to view the *Priority* menu.

Scroll to highlight one of the following option and then press ***Pgm/E*** to select it:

UB374ZV_UBC125XLT_130329.indd 42 2013/03/29 10:34:54

- *Priority Off* - does not check for priority channels.
- *Priority DND* - checks Priority channels every 2 seconds only when not receiving. If you set *Priority* mode to Priority DND, the scanner turns on the PRI icon during scanning or searching.
- *Priority Scan* - checks Priority channels every 2 seconds. If you set mode to *Priority Scan*, the scanner turns on the PRI icon during scanning or searching.
- *Priority Plus* - scans only Priority channels in enabled banks. If you set *Priority* mode to *Priority Plus*, the scanner turns on the PRI+ icon during scanning or searching.
- *Exit* - Return to previous mode.

Note: *If no Priority channels are enabled for scan, Priority Scan No Channel displays and Priority mode is set to Off.*

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 or if you want to monitor a specific channel.

1. To manually select a channel, press ***Hold*** and enter the channel number.
2. Press ***Hold*** again.

Locking Out Channels

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

While receiving a channel or while in *Scan Hold* mode, press ***L/O*** once to temporarily lock out the channel. *Temporary L/O*

UB374ZV_UBC125XLT_130329.indd 43 2013/03/29 10:34:54

and *TL/O* briefly appear in the display. Turning the scanner off clears the temporary lockout.

Press ***L/O*** twice quickly to permanently lock out the channel. *Locked Out* and *L/O* briefly appear in the display. Turning the scanner off will NOT clear the lockout.

If you lock out a channel in *Scan* mode, the scanner will resume scanning from the next channel.

To Lock Out a Specific Channel

1. Press ***Hold***.
2. Enter the channel number you want to lock out and press ***Hold*** again. (You can also press ***Hold*** and scroll to the channel.)
3. Press ***L/O*** once to temporarily lockout or press ***L/O*** twice quickly to permanently lock out the channel.

   Note: *You can still manually select locked-out channels. If you lock out all channels in the selected bank, the scanner displays All Locked! on the second line.*

Unlocking Channels

1. Press ***Hold***.
2. Enter the channel number you want to unlock and press ***Hold*** again. (You can also press ***Hold*** and scroll to the channel.)
3. Press ***L/O***. *L/O* (or *TL/O*) disappears.

Unlock all Channels in Banks Currently Enabled for Scan

1. Press ***Hold*** to stop scanning.

UB374ZV_UBC125XLT_130329.indd 44 2013/03/29 10:34:54

2. Press and hold ***L/O*** until *Confirm Unlock All Channels?* appears in the display.

3. Press ***Pgm/E*** to unlock all or ***. Clr*** to cancel.

SERVICE SEARCH MODE

If you do not have a reference to frequencies in your area, use a search to find a transmission. You can search for Emergency, Freenet, PMR, Marine, Aircraft, CB radio and HAM radio frequencies without knowing the specific frequencies used in your area. The scanner is preprogrammed with all the frequencies allocated to these services.

To start a Service Search, press ***Func*** then ***Srch/Svc.*** When the scanner finds a transmission, it stops on it. When the transmission ends, the scanner resumes searching according to the delay setting (see page 50).

During a Service Search, the upper line displays the current service name. The lower line displays the search frequency and the direction indicator (↑or ↓) with the modulation.

Enabled service banks appear on the lowest line. Disabled service bank numbers are not displayed. The currently searched bank number flashes. You can turn service banks on/off by using 1-7; however, one service bank must always be enabled. If you turn off all service banks, the scanner will display *Nothing to Srch*.

If you want to change the search direction or if it is a long transmission and you want to continue searching, turn the ***SCROLL CONTROL*** or press ***Func*** then ***Srch/Svc***.

UB374ZV_UBC125XLT_130329.indd 45 2013/03/29 10:34:54

Service Search Receive/Hold Modes

To hold on a frequency, press ***Hold***. To step through the frequencies, turn ***SCROLL CONTROL*** while in *Hold* mode. Press ***Hold*** to resume.

While monitoring a transmission, the upper line displays the current service bank name and the lower line displays the channel number (if defined) and current frequency with the direction indicator (↑or ↓).

The modulation, *Priority* mode icon (if Priority is enabled), any CTCSS/DCS received (if enabled), and the Close Call icon (if CC Pri or CC-DND is enabled) will also appear in the display.

Numbers at the bottom of the display show the enabled service search banks. The currently searched bank number flashes in *Receive* mode.

To store a frequency, press ***Pgm/E***. (see Storing Found Search Frequencies on page 52.)

To temporarily lock out a frequency, press ***L/O***.

To permanently lock out a frequency, press ***L/O*** twice quickly.

See also Search Options on page 50 for Delay, CTCSS/DCS settings, and locking out/reviewing/unlocking frequencies.

Custom Search Mode

Custom Search mode lets you program and search 10 custom search ranges. You can search any of these ranges simultaneously and reprogram each custom search range. During custom search, the scanner searches starting with the lowest frequency in the search range you select to the highest frequency in the range.

UB374ZV_UBC125XLT_130329.indd 46 2013/03/29 10:34:54

This feature lets you search through the preset frequency ranges. (See also Programming Custom Search Ranges, page 51). The preset frequency ranges are:

Bank No.	Frequency (MHz)
1	25.0000 - 27.9999
2	28.0000 - 30.1999
3	30.2000 - 49.9999
4	50.0000 - 88.0000
5	108.0000 - 136.9999
6	137.0000 - 143.9999
7	144.0000 - 174.0000
8	225.0000 - 399.9999
9	400.0000 - 512.0000
10	806.0000 - 960.0000

To start a Custom Search, press ***Srch/Svc***. When the scanner finds a transmission, it stops on it. When the transmission ends, the scanner resumes searching according to the delay setting.

While searching, the upper line displays the current search bank name. The lower line displays the search frequency and the direction indicator (↑or ↓) with the modulation.

Enabled search banks appear on the lowest line. Disabled search bank numbers are not displayed. The currently searched bank number flashes.

- You can turn search banks on/off by using 1-9 or 0. One search bank must always be enabled. If you turn off all search banks, the scanner will display *Nothing to Srch*.

UB374ZV_UBC125XLT_130329.indd 47 2013/03/29 10:34:54

- If you want to change the search direction or if it is a long transmission and you want to continue searching, turn ***SCROLL CONTROL*** or press ***Srch/Svc***.

Custom Search Receive/Hold Modes

To hold on a frequency, press ***Hold***. To step through the frequencies, turn ***SCROLL CONTROL*** in *Hold* mode. Press ***Hold*** to resume searching.

While monitoring a transmission, the upper line displays the current search bank name and the lower line displays the current frequency with the direction indicator (↑or ↓)

The modulation, *Priority* mode icon (if priority is enabled), any CTCSS/DCS received (if enabled), and the Close Call icon (if CC Pri or CC-DND is enabled) will also appear in the display.

Numbers at the bottom of the display show the enabled search banks. The currently searched bank number flashes in *Receive* mode.

- To store a frequency, press ***Pgm/E***; see Storing Found Search Frequencies on page 52.
- To temporarily lock out a frequency, press ***L/O***.
- To permanently lock out a frequency, press ***L/O*** twice quickly.

See also Search Options on page 50 for Delay, CTCSS/DCS settings, and locking out/reviewing/unlocking frequencies.

Quick Search Mode

Quick Search mode allows you to enter a frequency and start searching up or down from that frequency from any *Hold* mode (except *Close Call Only*).

UB374ZV_UBC125XLT_130329.indd 48 2013/03/29 10:34:55

To start a Quick Search in *Scan* or *Search* mode, press ***Hold*** to hold on any channel or frequency. Enter the new frequency (include a decimal point so you don't go to a channel) and press ***Hold*** again to set the frequency.

At Quick Search, press ***Hold*** to start searching.

To start a Quick Search at the current frequency during Close Call Search, turn ***SCROLL CONTROL*** in *Hold* mode and press ***Hold*** to start searching.

When the scanner finds a transmission, it stops on it. When the transmission ends, the scanner resumes searching according to the delay setting.

While searching in *Quick Search* mode, the upper line displays *Quick Search* and the lower line displays the searching frequency and the direction indicator (↑or ↓) with the modulation.

If you want to change the search direction or if it is a long transmission and you want to continue searching, turn ***SCROLL CONTROL*** or press ***Srch/Svc***.

Quick Search Receive/Hold Modes

To hold on a frequency press ***Hold***. To step through the frequencies, turn ***SCROLL CONTROL*** in *Hold* mode. Press *Hold* to resume.

While monitoring a transmission, the upper line displays *Quick Search* and the lower line displays the current frequency and the direction indicator (↑or ↓).

UB374ZV_UBC125XLT_130329.indd 49 2013/03/29 10:34:55

The modulation, *Priority* mode icon (if Priority is enabled), any CTCSS/DCS received (if enabled), and the Close Call icon (if CC Pri or CC-DND is enabled) will also appear in the display.

- To store a frequency, press ***Pgm/E***. See Storing Found Search Frequencies, page 52.
- To temporarily lock out a frequency, press ***L/O***.
- To permanently lock out a frequency, press ***L/O*** twice quickly.
- To exit Quick Search, press *Scan*.

See also Search Options on page 50 for Delay, CTCSS/DCS settings, and locking out/reviewing/unlocking frequencies.

Search Options

Search Delay

This setting controls how many seconds the scanner waits after a transmission ends before resuming searching. If you select a minus delay time, the scanner stops on the transmission for the setting time and then automatically resumes scanning. (Default = 2 seconds). This setting affects both Search and Close Call.

1. Press ***Func*** then ***Pgm/E*** in *Service*, *Custom*, or *Quick Search*/*Search Hold* mode to view the *Search* menu.
2. Scroll to *Set Delay* and press ***Pgm/E***.
3. Turn ***SCROLL CONTROL*** to select the delay time from the following options:
   - -10 sec - resumes after 10 seconds.
   - -5 sec - resumes after 5 seconds.
   - 0 sec - resumes immediately.

UB374ZV_UBC125XLT_130329.indd 50 2013/03/29 10:34:55

- 1 sec - waits 1 second for a reply then resumes.
- 2 sec - waits 2 seconds for a reply then resumes.
- 3 sec - waits 3 seconds for a reply then resumes.
- 4 sec - waits 4 seconds for a reply then resumes.
- 5 sec - waits 5 seconds for a reply then resumes.

4. Press ***Pgm/E*** to save and return to previous menu.

CTCSS/DCS Search

This setting controls whether the scanner will search for a subaudible tone when it stops on a transmission during a Search. (Default = On). This setting affects both Search and Close Call.

1. Press ***Func*** then ***Pgm/E*** in any *Service*, *Custom*, or *Quick Search/Search Hold* mode to view the *Search* menu.
2. Turn ***SCROLL CONTROL*** to *CTCSS/DCS Search* and press ***Pgm/E***.
3. Turn ***SCROLL CONTROL*** to select one of the following settings:
   - Search Off
   - Search On
4. Press ***Pgm/E*** to save and return to previous menu.

Programming Custom Search Ranges

You can define each search range used during a Custom Search.

1. Press ***Func*** then ***Pgm/E*** in *Custom Search* mode to view the *Search* menu.
2. Turn ***SCROLL CONTROL*** to *Program Limits* and press ***Pgm/E***.

UB374ZV_UBC125XLT_130329.indd 51 2013/03/29 10:34:55

3. Turn ***SCROLL CONTROL*** to *Search Bank 1-10* and press ***Pgm/E***. You will see the previously programmed lower frequency. At *Lower*, press ***Pgm/E*** and use the keypad to enter the lower limit frequency then press ***Pgm/E***.

4. Scroll to *Upper* and press ***Pgm/E***. You will see the previously programmed upper frequency. Use the keypad to enter the upper limit frequency then press ***Pgm/E***.

5. Press . ***Clr*** to return to the *Select Bank* menu. Repeat for each custom search bank you want to reprogram then press ***Srch/Svc*** to start searching.

Storing Found Search Frequencies

You can store found frequencies into the channel storage banks in any *Search* mode, any *Close Call* mode.

- To store a frequency, press ***Pgm/E***.
- To store a frequency in the Close Call Hits bank to a Channel Storage Bank in *Scan* mode, press ***Func*** then ***Pgm/E***.

Save Frequency displays and the scanner shows the first empty channel location. To select another location, turn ***SCROLL CONTROL*** to select another channel then press ***Pgm/E*** to store the frequency or ***. Clr*** to exit and return.

The scanner saves the frequency to the channel location and brings you to the channel menu for the channel so you can customize the channel options.

Scroll to to any channel options desired to edit. See Programming Channels, page 34.

UB374ZV_UBC125XLT_130329.indd 52 2013/03/29 10:34:55

Locking Out Search Frequencies

You can lock up to 200 search frequencies: 100 temporary frequencies and 100 permanent frequencies.

While receiving a frequency in any *Search* or *Search Hold* mode, press ***L/O*** once to temporarily lock out the frequency. *Temporary L/O* and *TL/O* briefly appears in the display. When the scanner is turned off, the temporary lockout is cleared.

Press ***L/O*** twice quickly to permanently lock out the frequency. *Locked Out* and *L/O* briefly appear in the display. When the scanner is turned off, the lockout is not cleared.

If you lock out a frequency in *Search* mode, the scanner will resume searching from the next frequency.

Notes: *Any frequency locked out in one Search mode will also be locked out in all Service, Custom, Quick, and Close Call Search modes. You can still manually select locked-out frequencies. However, if you lock out all frequencies in the selected search bank, the scanner displays All Locked! on the second line.*

Unlocking Search Frequencies

1. Press ***Func*** then ***Pgm/E*** in any *Search* or *Search Hold* mode to view the *Search* menu.
2. Scroll to *Review Lockouts* and press ***Pgm/E***.
3. Scroll to *Review Freq L/O* and press ***Pgm/E***.
4. Scroll to view the locked out frequencies. *L/O* will indicate a permanent lockout and *TL/O* will indicate a temporary lockout. Press the ***L/O*** button to unlock any selected frequency.

UB374ZV_UBC125XLT_130329.indd 53 2013/03/29 10:34:55

Unlocking all Search Frequencies

1. Press ***Func*** then ***Pgm/E*** in any *Search* or *Search Hold* mode to view the *Search* menu.
2. Scroll to *Review Lockouts* and press ***Pgm/E***.
3. Scroll to *Unlock All* and press ***Pgm/E***. Then *Confirm Unlock All Frequencies?* appears.
4. Press ***Pgm/E*** to confirm or ***.Clr*** to cancel.

Also, you can unlock all search/Close Call frequencies, press and hold ***L/O*** in any *Search Hold* mode until the scanner prompts *Confirm Unlock All Frequencies?*.

Press ***Pgm/E*** to confirm or ***.Clr*** to cancel.

Setting Step Frequency

You can change the steps of each band. Selected step affects both search and Close Call.

For air band, selected step also affects air service search.

1. Press ***Func*** then ***3/Step*** to step frequency menu while holding the frequency.
2. The scanner displays the current steps.
3. Turn ***SCROLL CONTROL*** to select steps from Default, 5kHz, 6.25kHz, 10kHz and 12.5kHz. (for air band, 8.33kHz or 12.5kHz) (for 84.015 - 88 MHz band, 20kHz step is added)
4. Press ***Pgm/E*** to select and then return previous mode.

Also, you can set Step Frequency by Search Menu.

Note: *If the scanner is turned off, step frequency is set to initial setting.*

UB374ZV_UBC125XLT_130329.indd 54 2013/03/29 10:34:55

Setting Modulation

You can change the modulations of each band. Selected modulation affects both search and Close Call.

For CB band and HAM band, selected modulation also affects CB band and HAM band service search.

For Air band, the modulation is AM only.

1. Press ***Func*** then ***9/Mod*** to change the modulation while holding the frequency.
2. The scanner displays the modulation for 1 seconds.
3. Then return previous mode.

Also, you can set Modulation by Search Menu.

Note: *If the scanner is turned off, modulation is set to initial setting except CB band and HAM band.*

CLOSE CALL

Using the Close Call Feature

Unlike searching, which requires the scanner to tune to a frequency to check for a transmission, Close Call RF capture directly detects the presence of a strong, nearby signal and tunes to that frequency.

Close Call RF capture works great for finding frequencies at venues such as malls and sporting events. You can set the scanner so Close Call detection works "in the background" while you are scanning other frequencies, turn off normal scanning while Close Call is working, or turn off the Close Call feature and use the scanner normally. You can set the scanner so it alerts you when the Close Call feature detects a frequency. and you

UB374ZV_UBC125XLT_130329.indd 55 2013/03/29 10:34:55

can also set the frequency bands where you want the scanner to look for transmissions.

The scanner also automatically stores the last 10 hits received into a temporary bank called "Close Call Hits" in any *Close Call* mode. The hits go away when you cycle power. You can also store these temporary frequencies into channel storage banks.

Close Call capture works well for locating the source of strong local transmissions such as mobile and handheld two-way radios in areas with no other strong transmission sources. However, if you are in an area with many transmission sources (such as pager radio transmitters, multi-use radio towers, traffic control devices, etc.), Close Call RF capture might not find the transmission you are searching for, or it might find a transmission other than the one you are searching for.

Close Call works better with some types of transmissions than others. It might not correctly display frequency information for transmitters using a highly directive antenna (such as an amateur radio beam antenna), if there are many transmitters operating at the same time in the same area, or if the transmitter is a broadcast television station.

Selecting Close Call Modes

1. In *Scan* or *Search* mode press ***Func*** then ***Hold*** to enter the *Close Call* Menu.
2. Scroll to *Close Call Mode* and press ***Pgm/E***.
3. Turn ***SCROLL CONTROL*** and select from the following modes:
   - Close Call Off - turns off Close Call.

UB374ZV_UBC125XLT_130329.indd 56 2013/03/29 10:34:55

- Close Call DND - only checks for Close Call hits between transmissions avoiding breaks in current transmiss
- Close Call Pri (Priority) - checks for Close Call hits every 2 seconds, even during transmissions.
- Close Call Only - performs continuous Close Call checks until you exit by pressing ***Scan*** or ***Srch/Svc***.
- < Back - returns to previous menu.

4. Press ***Pgm/E*** to select and return to the *Close Call* menu.

If Close Call DND or Close Call Pri is selected, the Close Call icon will display in *Scan* and *Search* modes.

Close Call Only Mode

In *Close Call Only* mode, the first line displays *Close Call*, *CC Search* scrolls from the right to the left on the second line, and the Close Call icon blinks in the display.

Enabled search bands appear on the lowest line. Disabled search bands are not displayed. The currently searched bank number flashes.

- To turn Close Call bands on or off, use the number keys (1-6) on the keypad.

One search band must always be enabled. If you turn off all search bands, the scanner will display *All Band Off*!

- To hold on a specific band, press ***Hold***. Turn ***SCROLL CONTROL*** and select the band to monitor.

When the scanner finds a frequency, *CC Found!* appears in the display. The scanner will also beep or flash the display (if enabled) in the *Close Call Alert* option in the *Close Call* menu.

UB374ZV_UBC125XLT_130329.indd 57 2013/03/29 10:34:55

- Press any key (other than ***Hold***) to view the displayed frequency.

While monitoring a Close Call transmission, the scanner displays *Close Call* on first line and the monitoring frequency on the second line.

The modulation and any CTCSS/DCS received (if enabled) will also appear on the display.

Numbers at the bottom of the display show the enabled Close Call bands. The currently searched band number flashes.

When the transmission ends, the scanner resumes searching according to the delay setting.

To hold on a frequency, press ***Hold***.

To start a Quick Search at the current frequency, turn the ***SCROLL CONTROL*** in *Hold* mode and press ***Hold*** to start searching.

To cancel the hit, turn the Scroll Control.

To temporarily lock out a frequency, press ***L/O***.

To permanently lock out a frequency, press ***L/O*** twice quickly.

To store a frequency, press ***Pgm/E***. See Storing Found Search Frequencies on page 52.

To exit *Close Call Only* mode, press ***Scan***.

The following paragraphs describe Delay, CTCSS/DCS, Alert Settings, Setting Close Call Bands, and reviewing/unlocking frequencies.

UB374ZV_UBC125XLT_130329.indd 58 2013/03/29 10:34:55

Set Close Call Bands

This setting allows you to select the bands searched for all *Close Call* modes.

1. Press ***Func*** then ***Hold*** to view the *Close Call* menu.
2. Scroll to *Close Call Bands* and press ***Pgm/E***.
3. Scroll to each band you want to enable/disable and press ***Pgm/E***.
4. Scroll to select *C-Call Band On or Off* and press ***Pgm/E***.
   - 25-88 VHF-Low-VHF Low Band (25 - 88 MHz)
   - 108-137 Air - Air Band (108 - 137 MHz)
   - 137-174 VHF-High - VHF High Band (137 - 174 MHz)
   - 225-320 MIL-Air - Military Aircraft Band (225 - 320 MHz)
   - 320-512 UHF - UHF Band (320 - 512 MHz)
   - 806-960 800MHz - 800 MHz Band (806 - 960 MHz)
   - Back - returns to previous menu.
5. Press ***.Clr*** (or scroll to *Back* and press ***Pgm/E)*** to return to the *Close Call* menu.

Close Call Alert

This setting controls the Alert Beep and Alert Light settings used during Close Call operation. (Default = On for both)

1. Press ***Func*** then ***Hold*** to view the *Close Call* menu.
2. Scroll to *Close Call Alert* and press ***Pgm/E***. Select from the following options:
   - Alert Beep - Controls whether the scanner sounds an alert beep when Close Call detects a signal.

UB374ZV_UBC125XLT_130329.indd 59 2013/03/29 10:34:55

- Alert Light - Controls whether the scanner flashes the display backlight when Close Call detects a signal.
- Back - returns to previous menu.

3. Scroll to any option you want to enable/disable and press ***Pgm/E***.
4. Scroll to *On* or *Off* and press ***Pgm/E***
5. Press ***.Clr*** (or scroll to *Back* and press ***Pgm/E***) to return to the *Close Call* menu.

Close Call Hits Bank

The scanner saves the last 10 Close Call hits into the Close Call temporary store bank named "Close Call Hits."

This setting turns the bank on or off during *Scan* mode. (Default = Off)

1. Press ***Func*** then ***Hold*** to view the *Close Call* menu.
2. Scroll to *Scan Hits* and press ***Pgm/E***.
3. Scroll to *Scan Hits On or Off* and press ***Pgm/E*** to save and return to the *Close Call* menu. (Default = Off)

You can also store these temporary frequencies into channel storage banks when you receive them in *Scan* mode and scroll to them in *Scan Hold* mode.

See also Storing Found Search Frequencies on page 52.

Close Call Delay

This setting controls how long the scanner stays on the frequency after a transmission ends before resuming Close Call operation. If you select a minus delay time, the scanner stops

UB374ZV_UBC125XLT_130329.indd 60 2013/03/29 10:34:55

on the transmission for the preset time and then automatically resumes scanning. (Default = 2 seconds). This setting affects both Search and Close Call.

1. Press ***Func*** then ***Hold*** to view the *Close Call* menu.
2. Scroll to *Set Delay* and press ***Pgm/E***.
3. Scroll to select the delay time from following options:
   - -10 sec - resumes after 10 seconds.
   - -5 sec - resumes after 5 seconds.
   - 0 sec - resumes immediately.
   - 1 sec - waits 1 second for a reply then resumes.
   - 2 sec - waits 2 seconds for a reply then resumes.
   - 3 sec - waits 3 seconds for a reply then resumes.
   - 4 sec - waits 4 seconds for a reply then resumes.
   - 5 sec - waits 5 seconds for a reply then resumes.
4. Press ***Pgm/E*** to save and return to the *Close Call* menu.

Close Call CTCSS/DCS Search

This setting controls whether the scanner will search for a subaudible tone when it stops on a transmission during Close Call operation. (Default = On). This setting affects both Search and Close Call.

1. Press ***Func*** then ***Hold*** to view the *Close Call* menu.
2. Scroll to *CTCSS/DCS Search* and press ***Pgm/E***.
3. Scroll to select one of the following options:
   - Search Off
   - Search On
4. Press ***Pgm/E*** to save and return to the *Close Call* menu.

UB374ZV_UBC125XLT_130329.indd 61 2013/03/29 10:34:55

TECHNICAL SPECIFICATIONS

Size: 67mm(W) x 32.7mm(D) x 115mm(H)

Weight: 175g (without antenna and battery)

Operating Temperature:	– 20° C to + 60°C
Close Call	– 10° C to + 50°C
Power Requirements:	2 AA Rechargeable Ni-MH Batteries (2.4V DC)
	2 AA Alkaline Batteries (3.0V DC)
	Connect to AC adapter or
	PC with USB cable (5.0V DC 500mA)
LCD Display:	64 X 128 Full Dot Matrix LCD with orange-color backlight.
Internal Speaker:	24ohm, 32mm diameter, Dynamic Type, 0.8W Max.

Scan Banks: 10 banks

Scan Channels: 500 Channels (50 Channels/Bank)

Service Searches: 7 Bands

- Emergency
- Freenet
- PMR
- Marine
- Aircraft
- CB radio
- HAM radio

UB374ZV_UBC125XLT_130329.indd 62 2013/03/29 10:34:55

Custom Searches: 10 Bands

Search Band: 25 searchable bands

Scan Rate: 80 channels/second

Search Rate: 90 steps/second
270 steps/second
(5kHz step)

Scan Delay: 2 seconds (default)

Audio Output Power: Internal Speaker - 360mW nominal (24ohm)

Headphone (L-ch) 4mW nominal (32ohm)

Antenna: 50 ohms (Impedance)

Sensitivity (12dB SINAD) Nominal

VHF Low Band		
(AM)	25.005 MHz	0.4 uV
(FM)	54.050 MHz	0.2 uV
(FM)	86.275 MHz	0.2 uV
Aircraft Band		
(AM)	118.800 MHz	0.4 uV
(AM)	127.175 MHz	0.4 uV
(AM)	135.500 MHz	0.4 uV
VHF High 1 Band		
(FM)	138.150 MHz	0.2 uV
(FM)	161.9875 MHz	0.2 uV

UB374ZV_UBC125XLT_130329.indd 63 2013/03/29 10:34:55

(FM)	173.225 MHz	0.2 uV
VHF High 2 Band		
(AM)	225.050 MHz	0.4 uV
(AM)	272.950 MHz	0.4 uV
(AM)	315.050 MHz	0.4 uV
UHF Band		
(AM)	325.050 MHz	0.4 uV
(FM)	406.875 MHz	0.3 uV
(FM)	511.9125 MHz	0.3 uV
Public Service Band		
(FM)	806.000 MHz	0.3uV
(FM)	857.150 MHz	0.3uV
(FM)	954.9125 MHz	0.3uV

Close Call Sensitivity (No Modulation, Nominal)

VHF Low Band		
(FM)	54.050 MHz	320 uV
Aircraft Band		
(AM)	127.175 MHz	130 uV
VHF High 1 Band		
(FM)	161.9875 MHz	100 uV
VHF High 2 Band		
(AM)	272.950 MHz	140 uV
UHF Band		

UB374ZV_UBC125XLT_130329.indd 64 2013/03/29 10:34:55

(FM)	406.875 MHz	180 uV
(FM)	857.150 MHz	280uV

Signal Noise Ratio (nominal)

VHF Low Band		
(AM)	25.0050 MHz	46dB
(FM)	54.050 MHz	42dB
Aircraft Band		
(AM)	127.175 MHz	47dB
VHF High 1 Band		
(FM)	161.9875 MHz	42dB
VHF High 2 Band		
(AM)	272.950 MHz	46dB
UHF Band		
(AM)	325.050 MHz	48dB
(FM)	406.875 MHz	41dB
(FM)	857.150 MHz	42dB

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

UB374ZV_UBC125XLT_130329.indd 65 2013/03/29 10:34:55

REFERENCES

CTCSS FREQUENCIES

67.0	69.3	71.9	74.4	77.0	79.7
82.5	85.4	88.5	91.5	94.8	97.4
100.0	103.5	107.2	110.9	114.8	118.8
123.0	127.3	131.8	136.5	141.3	146.2
151.4	156.7	159.8	162.2	165.5	167.9
171.3	173.8	177.3	179.9	183.5	186.2
189.9	192.8	196.6	199.5	203.5	206.5
210.7	218.1	225.7	229.1	233.6	241.8
250.3	254.1				

UB374ZV_UBC125XLT_130329.indd 66 2013/03/29 10:34:55

DCS CODES

023	025	026	031	032	036	043	047
051	053	054	065	071	072	073	074
114	115	116	122	125	131	132	134
143	145	152	155	156	162	165	172
174	205	212	223	225	226	243	244
245	246	251	252	255	261	263	265
266	271	274	306	311	315	325	331
332	343	346	351	356	364	365	371
411	412	413	423	431	432	445	446
452	454	455	462	464	465	466	503
506	516	523	526	532	546	565	606
612	624	627	631	632	654	662	664
703	712	723	731	732	734	743	754

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. Birdies are especially present at the 16MHz multiple (ex. 32 MHz, 480 MHz) - (Internal CPU clock).

You can skip the birdies to lock out the frequency.

UB374ZV_UBC125XLT_130329.indd 67 2013/03/29 10:34:55

DECLARATION OF CONFORMITY

We: Uniden Corporation

2-12-7 Hatchobori

Chuo-Ku, Tokyo 104-8512

Japan

declare, under our sole responsibility, that this equipment:

Uniden Bearcat model UBC125XLT is in compliance with the essential requirements and other relevant provisions of the Council Directive1999/5/EC.

The product is in conformity with the following European Standards and/or normative documents:

Radio:	EN 300-220-1, EN 300-220-2
EMC :	EN 301 489-1, EN 301 489-3
Electrical Safety :	EN 60950-1:2006/A11:2009 + A12:2011

CE

UB374ZV_UBC125XLT_130329.indd 68 2013/03/29 10:34:55

UB374ZV_UBC125XLT_130329.indd 69 2013/03/29 10:34:55

UB374ZV_UBC125XLT_130329.indd 70 2013/03/29 10:34:55

UB374ZV_UBC125XLT_130329.indd 71 2013/03/29 10:34:55

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