

BEARCAT BC 855XLT

50 CHANNEL SCANNING RADIO
OPERATING GUIDE



uniden®
Uniden America Corporation

TABLE OF CONTENTS

INTRODUCTION	1
General Description	1
WARNING!	1
Unpacking	1
Memory Back-up	2
Antenna	2
Optional External Antenna	2
Optional External Speaker	2
Power	2
SCANNING OVERVIEW	3
CONTROLS AND FUNCTIONS	4
On/Off/Volume	4
Squelch	4
Display	4
Numeric Keys	4
Function Keys	5
OPERATION	6
Programming the Scanner	7
Multiple Entries	8
Scan	9
Search	10
Manual Step-Search	12
Manual Channel Selection	12
Lockout	13
Delay	14
Priority	15
Weather	16
Speed	16
Error Message	16
HELPFUL HINTS	17
Troubleshooting	18
TECHNICAL SPECIFICATIONS	19
FREQUENCY ALLOCATIONS	20

INTRODUCTION

General Description

Scanning is easy and fun with the BC 855XL.T. Advanced electronics provide programmable operation and dependability. You may scan in three different ways: 1) Programmable scan for known frequencies, 2) Search scan for unknown signals between two frequency limits in the same band, and 3) Manual step-search to scan one frequency at a time. The keyboard has been designed for comfort and operating efficiency. It is divided into two sections: 1) ten Numeric Keys, the Period  key, and the Enter  key (used to program frequencies directly into the 50 Channels); and 2) ten Function Keys. Volume and squelch levels are controlled by smooth acting knob adjustments. An 8-digit, back-lighted LCD provides frequency, Bank, Channel, Lockout, Delay, Priority, and Weather search information. A unique capacitor type memory back-up eliminates the need for batteries. The case is constructed of high impact plastic.

Please read this Guide thoroughly before operating the Scanner. Fill out the Registration Card on the last page of the Guide, cut it out, and mail it immediately.

WARNING!

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

Unpacking

Carefully remove all units from the display box. If there is any visible damage, DO NOT attempt to operate the equipment. Notify your dealer or shipping carrier immediately.

Keep the display box and packing materials, as well as all printed material. The carton serves as an excellent method to transport the BC 855XL.T to other locations.

The following parts are included in this carton:

- BC 855XL.T
- Telescoping Antenna
- Operating Guide
- AC Adapter-model AD-140UP
- Betty Bearcat Frequency Directories Order Form

Memory Back-up

The BC 855XLT is equipped with a unique capacitor type memory back-up. The capacitor back-up will provide more than 3 days of memory retention in the event of a power interruption. When memory loss has occurred, all Channels are reset to 000.000. The system is completely automatic and requires no maintenance.

Antenna

For most monitoring, we recommend the telescoping antenna provided with the BC 855XLT. For weak signal reception or electrically noisy locations, an external antenna may be helpful.

Optional External Antenna

An external antenna may be helpful in fringe areas. Always use 50 – 70 ohm coaxial cable for lead-in. For lengths in excess of 50 feet, we recommend RG8AU low-loss foam dielectric coax. Your Scanner is equipped with a standard BNC type antenna connector.

Optional External Speaker

Although the internal speaker of the Scanner will provide ample volume in a normal room, some applications may require an external speaker. Plug the external speaker into the jack at the rear of the Scanner; this will disable the internal speaker. The external speaker impedance should be 8 ohms.

Power

The AC Adapter (included with the Scanner) powers the BC 855XLT by converting the standard 120 VAC into 12 VDC. Do not plug the Scanner into an outlet controlled by a wall switch because a prolonged period without power will cause a loss of memory.

SCANNING OVERVIEW

Scanning allows you to listen in to the excitement and drama in and around your community as it develops. You can learn how your public safety agencies serve your community through co-ordination of vital services, and how they stay alert to important events.

Depending on the particular radio, you can monitor Police and Fire Department broadcasts (including Rescue and Paramedics), NOAA Weather, Business/Industrial radio, Motion Picture and Press Relay, Utilities broadcasts, Land Transportation frequencies such as Trucking firms, Buses, Taxis, Tow Trucks, and Railroads, and the Aviation, Marine, and Amateur (Ham Radio) bands.

A scanner radio makes this all possible without the need for a separate radio for each frequency band. The scanner automatically samples programmed frequencies at the rate of about 15 Channels per second until it locates an active frequency. It will remain on that frequency until the conversation ends (transmission stops for more than two seconds). The scanning cycle will resume until another transmission is located.

To operate properly the Scanner must have specific frequencies programmed into "Channels". Each Channel will then contain one of the frequencies that can be scanned automatically. The Channels are grouped into "Banks". The BC 855XL.T has 50 Channels grouped into five Banks, as follows:

Channels 1 - 10	Bank 1
Channels 11 - 20	Bank 2
Channels 21 - 30	Bank 3
Channels 31 - 40	Bank 4
Channels 41 - 50	Bank 5

Any frequency in the range of the Scanner can be programmed into any Channel. You may want to group similar functions together. For example, you may want to put all the police frequencies you listen to in Bank 1, Aircraft in Bank 2, etc. However, to reduce scan time, program the frequencies in order; that is, from the lowest to the highest, or from the highest to the lowest.

Once the Channels have been programmed, you must select the Bank or Banks you are interested in and include them in the scanning sequence. You can program a frequency into a Channel by either of two methods:

Enter the frequency directly from the keyboard.

Search within a defined range of frequencies until you hear a communication you want to monitor. You can then enter that frequency into a Channel.

The various functions of the BC 855XL.T are covered in the Operation section of this Guide.

CONTROLS AND FUNCTIONS

On/Off/Volume

Turns the Scanner power On or Off, and also varies the audio output level.

Squelch

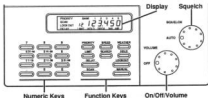
Eliminates the annoying "rushing" sound that is present between transmissions when no signal is being sent. Proper setting of this control keeps the radio "quiet" and allows scanning until a signal is received. The BC 855XLT also has an automatic squelch setting marked "AUTO." Turn the Squelch control to "AUTO" for a preset level that allows the clear signals to be received.

Display

Your BC 855XLT has an 8-digit back-lighted Liquid Crystal Display that indicates the Bank, Channel and frequency being monitored. One or more of the following may also be displayed, depending upon the Mode of operation and the frequency range: PRIORITY, SCAN, LOCK OUT, DELAY, LIMIT, HOLD, SRCH (Search), WX (NOAA Weather), and AIR (Aircraft frequencies). All the functions of the Display are discussed in detail in the Operation section.

Numeric Keys

Numeric keys **0** through **9** and keys **-** and **E** are used to program the frequencies into your Scanner. The Banks and Channels are also identified in the markings above the keys.



Function Keys

- PRIORITY** Used to set one Channel per Bank as a Priority Channel. These Channels are sampled once every two to three seconds regardless of other operational settings. Priority sampling order is based on the Bank number, beginning with Channel 1 in Bank 1.
- SPEED** Press to select high (15 Channels per second) or low (5 Channels per second) scan speed.
- WEATHER** Used to search the NOAA weather frequencies until locating the one actively broadcasting in your area.
- STEP** Used to enter two separate frequencies as upper and lower search limits within a Channel. When the Scanner is stopped in the Search Mode, this key is used to "step" through frequencies, decreasing the frequency by a specific amount each time the key is pressed. In the Manual Mode this key is used to "step" through the Channels manually, decreasing the Channel number by one each time the key is pressed.
- SEARCH** Press to start the Search operation.
- STOP** Press to stop Search. When the Scanner is stopped in the Search Mode, this key is used to "step" through frequencies, increasing the frequency by a specific amount each time the key is pressed. In the Manual Mode this key is used to "step" through the Channels manually, increasing the Channel number by one each time the key is pressed.
- DELAY** Press to add a 2-second delay to a Channel to allow for a reply transmission before resuming Search or Scan. Press again to remove the delay. Delay is retained in memory.
- LOCKOUT** Press to Lock out a selected Channel during scanning. Press again to include the Channel in scanning. Lockout is retained in memory. Press and Hold the **LOCKOUT** key until you hear 2 Beeps. This will remove Lock out from all Channels.
- SCAN** Press to start scanning all memory Channels that are not Locked out.
- MANUAL** Press to stop Scan or Search. This key is also used to "step" the Scanner individually through each Channel. This key is also used to access any Channel directly.

OPERATION

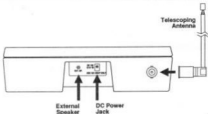
NOTE: Frequencies must be programmed into at least some of the Channels before the BC 855XL7 will scan.

1. Plug the antenna into the antenna jack located on the back of the Scanner and rotate to the upright position. Extend the antenna.
2. Plug the AC adapter cord into the DC Power jack on the radio, then into a standard 120 VAC wall outlet.
3. Turn the unit ON by rotating the ON/OFF/VOLUME control clockwise.
4. Press **[SQUELCH]** and adjust the SQUELCH control clockwise until you hear background noise; then turn it back counterclockwise until the noise just disappears.



NOTE: Placing the Squelch control in "AUTO" for a preset squelch level allows clear signals to be received.

If you know the exact frequencies you wish to scan, proceed with Programming the Scanner. If you do not know the frequencies of the agencies (i.e., police, fire, weather, etc.) you wish to scan, check with your dealer. Uniden also makes available frequencies in its **Betty Bearcat Frequency Directories**. See the order forms in the product carton. Active frequencies can also be found using the Search Mode.



Programming the Scanner

Programming the BC 855XLT is straightforward and easy. The following examples indicate typical operation of your Scanner.

Example 1. To program 460.050 MHz into Channel 1:

1. Press **MANUAL** **1** **MANUAL** to access Channel 1.
2. Press **4** **6** **0** **.** **0** **5** **0** to enter the frequency. (Although the final zero to the right of the decimal would be added automatically by the BC 855XLT, it is good practice to enter all frequency digits. This will help reduce errors.)

NOTE: If you make a mistake entering the frequency, press **MANUAL** twice to return to Step 2.

3. Press **⏏** to store the frequency in Channel 1.



Example 2. To program 465.2125 MHz into the next Channel (Ch 2):

1. Press **MANUAL** to advance to Channel 2. (Each time **MANUAL** is pressed, the Channel advances one number.)
2. Press **4** **6** **5** **.** **2** **1** **2** **5** to enter the frequency. (The final 5 must be entered, but will not display. The BC 855XLT automatically tunes to the 500 Hz value.)

NOTE: If you make a mistake entering the frequency, press **MANUAL** twice to return to Step 2.

3. Press **⏏** to store the frequency in Channel 2.



4. Repeat steps 1 through 3 until you have programmed all desired Channels. Be sure to press **⏏** when entering frequencies in the low band (29 – 54 MHz). For all other frequencies you may omit the decimal point - the BC 855XLT has been designed to enter this automatically.

Multiple Entries - If you attempt to program a frequency that is already stored in one Channel into a second Channel, the Display will indicate the stored Channel number. Press **[F]** to store the frequency in the new Channel as well. You can store the same frequency in as many Channels as you wish.

Example 3. To Program 460.550 into Channels 3 and 11.

1. Press **[MANUAL]** **[3]** **[MANUAL]** to access Channel 3.
2. Press **[4]** **[6]** **[0]** **[.]** **[5]** **[5]** **[0]** to enter the frequency.
3. Press **[F]** to store the frequency in Channel 3.

The Display indicates the frequency is stored in Channel 3.



4. Press **[1]** **[1]** **[MANUAL]** to access Channel 11.
5. Press **[4]** **[6]** **[0]** **[.]** **[5]** **[5]** **[0]** to enter the frequency.
6. Press **[F]** to store the frequency in Channel 11.

The Display indicates the frequency is already stored in Channel 3.



7. Press **[F]** again to store the frequency in Channel 11.



Scan

Once you have programmed frequencies into the Channels, you can scan all the programmed frequencies by pressing **SCAN**. The Display will indicate the BC 855XLT is in Scan Mode.



As the unit scans, the Channel numbers will vary indicating each Channel as it is scanned. The Banks being scanned are indicated at the top of the Display.

Selecting and Deselecting Banks - Normally, all Banks are displayed during scanning. However, the BC 855XLT will scan only those Banks that have frequencies stored in the appropriate Channels. You can tell which Banks are being scanned - they will blink. The other Bank numbers will remain steady. You can Deselect any Bank by pressing the corresponding Numeric key during Scan. The Bank number will no longer be displayed.

For example: To Deselect Bank 3, press **3** during scanning. The Display indicates that Bank 3 is no longer being scanned.



To Select a Bank that is not being scanned, press the corresponding Numeric key while in the Scan Mode. Example: to Select Bank 3, press **3** during scanning. The Display will indicate that Bank 3 is one of the Banks being scanned.



Search

You can use the Search function to locate signals between two frequency limits in the same band: 29 – 54 MHz, 108 – 136.975 MHz, 137 – 174 MHz, 406 – 512 MHz, or 806 – 956 MHz (except the Cellular bands). The Frequency Allocation listings in the back of the Guide will give you an indication of what you might expect to find in the various frequency ranges. Once a frequency has been located, it can be stored directly into a Channel. Or, you may want to record on paper the frequencies you locate for later storing.

To Search, enter the search limits in any sequence, ensuring they are in the same band as shown above. The following examples indicate locating and storing frequencies in Search Mode.

Example 4. To search between 152.150 MHz and 155.575 MHz on Channel 12:

1. Press **MANUAL** **1** **2** **MANUAL** to access Channel 12.
2. Press **1** **5** **2** **.** **1** **5** **0** to enter the first frequency limit.

NOTE: If you make a mistake entering the frequency, Press **MANUAL** twice to return to Step 2.

3. Press **LIST** to store the first frequency limit.

The display indicates a frequency limit has been entered.



4. Press **1** **5** **5** **.** **5** **7** **5** to enter the second frequency limit.
5. Press **LIST** to store the second frequency limit.



6. Press **SEARCH** to Search.

The display indicates the radio is in the Search Mode.



When an active frequency is found, the Search stops and the frequency is displayed. To remain on that frequency after the signal stops, Press

HOLD or **LMF**.

Example 5. To store a frequency located in Search:

1. Press **HOLD** to stop Search.

The display indicates that Search is on Hold.



2. Press **12** to store the frequency in Channel 12. If you want to check to see that it was stored, Press **12** again.

The display indicates that 154.250 is stored in Channel 12.



3. To resume searching within the same limits, Press **SEARCH**.
OR:

To exit the Search Mode, Press **SCAN** or **MANUAL**.

NOTE: Once you have programmed a Search Range, the frequency limits stay in memory until you enter a new set of frequencies, regardless of which Channel you Search.

Manual Step-Search

While in Search Mode you can manually step through the frequencies in the Search Range one at a time. This feature is useful for tuning in a contact more clearly, or for stepping to a new frequency within the search limits.

To Step-Search while in search mode:

Press **[F10]** or **[F11]** to stop the Search.

Press **[F10]** repeatedly to Step upward to the desired higher frequency.

OR:

Press **[F11]** repeatedly to Step downward to the desired lower frequency.

NOTE: If you hold either **[F10]** or **[F11]** down for more than 2 seconds, the Scanner will Step through the frequencies automatically.

The Step size varies with the frequency band:

Band	Step Size
VHF	5 kHz
Aircraft	25 kHz
UHF	12.5 kHz
800 MHz	12.5 kHz

Manual Channel Selection

You can select a specific Channel to monitor or store a frequency in one of two ways:

Press **[F10/F11]**, **[F10]** or **[F11]** repeatedly until the desired channel number appears.

OR:

Press the Numeric Key corresponding to the desired Channel number, then Press **[F10/F11]**.

NOTE: If you hold either **[F10/F11]**, **[F10]** or **[F11]** down for more than 2 seconds, the Scanner will Step through the Channels automatically.

Lockout

You may wish to Lock out certain frequencies to skip over them when scanning. To lock out a Channel first select that Channel manually, then Press **[LOCKOUT]**

Example 8. To Lock out the frequency on Channel 12:

1. Press **[SCAN]** **[1]** **[2]** **[SCAN]** to access Channel 12.
2. Press **[LOCKOUT]** to Lock out the Channel.

The display indicates that the Channel is Locked out.



Now when you press **[SCAN]** Channel 12 will be excluded from the scanning cycle.

To remove Lock out:

3. Press **[SCAN]** **[1]** **[2]** **[SCAN]** to access Channel 12.
4. Press **[LOCKOUT]** to remove Lock out from the Channel.

The display indicates that Lock out has been removed from the Channel.



NOTE: If no frequency has been programmed into a Channel, that Channel is automatically Locked out. Lock out works on all Channels unless Priority is set (see section on Priority.) When Priority is set, the Scanner will scan Channel 1.

NOTE: If all Channels are locked out, the Scanner will not Scan, and will only function in Manual Mode. You can resume scanning by removing Lockout from one channel.

NOTE: To remove Lockout from all Channels, Press and Hold **[LOCKOUT]** until you hear 2 Beeps.

Delay

When the Scanner stops on a transmission during Scan or Search, it will normally continue when the transmission ends. You can program a two-second Delay on a selected Channel during Scan or Search. This could be useful if both sides of the conversation are transmitted on the same frequency, or when the transmission has frequent gaps.

You program the two-second Delay into a Channel by first selecting that Channel manually, then pressing **DELAY**.

Example 7. To add Delay to Channel 3:

1. Press **MANUAL** **3** **MANUAL** to access Channel 3.
2. Press **DELAY** to add a 2-second Delay.

The display indicates that Delay has been programmed into Channel 3.



You can also add Delay to a Channel during Scan by Pressing **DELAY** when the Scanner has stopped on a transmission.

To add Delay during Search, Press **DELAY** at any time during Search, including when it is in Hold. The two-second Delay will be added anytime the Scanner stops on a frequency.

To remove Delay from a Channel during Search, Press **DELAY** anytime. To remove Delay from a Channel during Scan, Press **DELAY** when the Scanner stops on that Channel. You can also remove Delay by selecting the Channel manually and Press **DELAY**.

To remove the Delay from Channel 3:

3. Press **MANUAL** **3** **MANUAL** to access Channel 3.
4. Press **DELAY** to remove the Delay from the Channel.

The display indicates that the Delay has been removed.



Priority

Many times you want to be alerted to one or more transmissions on particular frequencies while listening to or scanning other Channels. For example, you may want to hear certain Police or Fire calls whenever they occur while you are scanning for Aircraft transmissions. The Priority feature samples frequencies that have been entered into Priority Channels once every two to three seconds.

When a signal is detected on a priority Channel, the Scanner will automatically switch to that Channel and stay there until the transmission stops. The Scanner will then return to the previous Channel.

One Channel in each Bank is a Priority Channel:

Bank 1	Channel 1
Bank 2	Channel 11
Bank 3	Channel 21
Bank 4	Channel 31
Bank 5	Channel 41

The lowest Priority Channel takes precedence over higher ones. For example:

Priority is set, and both Channels 1 and 11 receive signals at the same time. The Scanner will switch to Channel 1 and remain there until all transmission stops. The Scanner will then switch to Channel 11 unless that transmission has stopped also. If so the Scanner will return to normal Scanning or the previous Channel being used.

To set Priority press **PRIORITY** at any time.

The display indicates that Priority is set.



To remove Priority press **PRIORITY** at any time.

The display indicates that Priority is no longer set.



NOTE: When Priority is set, the Scanner will scan at least Channel 1, even when Channels are Locked out.

NOTE: Priority is automatically removed when you turn the Scanner OFF.

Weather

The WX (Weather) function searches for all continuously-broadcasting NOAA weather frequencies until locating the one actively broadcasting in your area.

To search for local weather, press **WEATHER** in any Mode.

The Scanner will immediately switch to the Weather Mode, and the Display indicates that the Weather function is in use.



To resume scanning, press **SCAN**, **SEARCH** or **MANUAL**.

The Display indicates that the Weather function is no longer in use.



Speed

The BC 855XLT has a Fast/Slow Scan Speed adjustment. Whenever the unit is first turned On, the Scan Speed will automatically be Fast. Press **SPEED** in either Scan or Search Mode to select the Slow Scan or Slow Search Speed. Press **SPEED** again to switch back to Fast Scan or Fast Search Speed.

Error Message

If you try to store a frequency that is not in the range of the BC 855XLT, the Display indicates that an error has occurred. The Display also indicates an error when you enter a Channel number greater than 50.



The Error message clears automatically when you reenter the correct frequency and press **EQ**, or enter the correct Channel number and press **ENTER**. The Error message also clears whenever you press **SCAN**, **SEARCH**, **MANUAL** or **WEATHER**.

HELPFUL HINTS

Your Scanner is a versatile instrument. The following operating hints will help you use all of its features.

1. When operating the keyboard, press firmly in the center of the button with the tip of your finger.
2. Always remember to press **ENT** to enter a programmed frequency into a Channel.
3. Group similar frequencies together in adjacent Channels. For example: all Public Safety together, all Utilities together, etc.
4. Put the frequencies you listen to most frequently on the lowest Channels.
5. Priority is set only on the lowest Channel in each Bank (1, 11, 21, 31, 41). Priority Channels are scanned in numeric order (1 before 11, 11 before 21, etc.)
6. Make sure the Scanner is turned off before disconnecting the AC adapter from the outlet. You may wish to record your programmed frequencies on paper before disconnecting the AC adapter, since memory will be lost in approximately 3 days.
7. When memory is lost, simply reprogram the proper frequencies. Memory loss will be indicated by all Channels indicating 000.000.
8. In case of strong interfering noise or signals, move the unit to a different location, and under extreme conditions, reduce the length or change the angle of the antenna.
9. All radios are subject to receiving undesired signals. If the BC 855XLT stops during Search or Scan Mode and no sound is heard, simply press **SCAN** or **STOP** one or more times to resume.

NOTE: Environmental sources of interference such as power line noise, a television set or other electrical appliances may generate signals that create the same effect. Moving the Scanner may eliminate such interference.

Troubleshooting

If your BC 855ALT is not performing up to your expectations, please try the simple checks listed below.

TROUBLE	CHECK
Scanner is not working properly.	Check power cord and wall switch. Check volume and Squelch controls. Make sure programmed frequencies are correct.
Signal is weak or distorted	Check antenna connection. Check proper frequencies. Make sure frequency is active.
Improper Reception.	Check proper frequencies Reposition Scanner. Check antenna connection.
Scan won't stop	Check Squelch adjustment. Check proper frequencies. Check antenna connection. Check lockout.
Incomplete reception.	Your Scanner is in a fringe signal area. Find the least obstructed area in your home. Check Squelch adjustment.
Weather Search won't work.	Check Squelch adjustment. Check if Priority is on. No active station within range.
Priority won't work.	Check squelch adjustment. Improper frequency in Channel 1.

If you still cannot get satisfactory results and you wish to receive information on the product or to send back a unit for repair or service, please call or write the Uniden Customer Service Center at:

UNIDEN CUSTOMER SERVICE CENTER
8900 WESTPOINT DRIVE, P.O. BOX 501366
INDIANAPOLIS, IN 46250
(317) 842-2483, 9:00 A.M. to 5:00 P.M. EST
Monday through Friday

TECHNICAL SPECIFICATIONS

Frequency Coverage:	29 - 29.7 MHz	10 Meter Amateur Band
	29.7 - 50 MHz	Low Band
	50 - 54 MHz	6 Meter Amateur Band
	Above bands in 5 kHz steps	
	108 - 136.975 MHz	AM Aircraft
	in 25 kHz steps	
	137 - 144 MHz	Military Land Mobile Band
	144 - 148 MHz	2 Meter Amateur Band
	148 - 174 MHz	High Band
	Above bands in 5 kHz steps	
	408 - 420 MHz	Federal Gov't Band
	420 - 450 MHz	70 cm Amateur Band
Channel Capacity:	450 - 470 MHz	UHF Band
	470 - 512 MHz	"T" Band
	Above bands in 12.5 kHz steps	
	808 - 958 MHz	General Purpose and Public Safety Band (except Cellular bands)
	Above in 12.5 kHz steps	
	50	
	High/Low	
	Keyboard-programmable limits within any one continuous frequency band	
	2 seconds (programmable)	
	Channels 1, 11, 21, 31, 41 sampled every 2-3 sec.	
RF Sensitivity:	0.3 microvolts 29 - 54 & 137 - 174 MHz	
	0.3 microvolts 408 - 512 MHz	
	1.0 microvolt 808 - 958 MHz	
	($\pm$ 3 kHz deviation 12 dB SINAD)	
	0.8 microvolts 108 - 136.975 MHz	
IF Selectivity:	(80% MOD 12 dB SINAD)	
	-50 dB @ $\pm$ 15 kHz	
Audio Output:	350 mW, 8 ohms, 10% THD	
Size:	9" W x 6-1/2" D x 2-3/4" H	
Weight:	1 lb. 8 oz.	
Power:	AC Adapter-model AD-140UP	
Antenna:	Telescoping antenna (supplied)	
	Connection provided for ext. antenna (50 - 70 ohms)	
Rear Apron Connections:	AC Adapter Connector	
	Antenna BNC Connector	
	External Speaker Jack	
Front Panel Controls:	Volume (On/Off),	
	Squelch (Auto Squelch)	

SPECIFICATIONS ARE TYPICAL AND SUBJECT TO CHANGE WITHOUT NOTICE

FREQUENCY ALLOCATIONS

Block allocations and even some discrete frequencies covered by your Scanner are shown below. These are not necessarily active in your area. Because of the short-range nature of VHF and UHF FM communications, frequencies allocated to services in one geographical location will not be heard more than 25-50 miles away. (An exception to this is "skip" when signals bounce back to earth from the ionosphere). For this reason a separate frequency directory must be compiled for each local monitoring area. Most standard frequency separations and classifications are regulated in the United States by the FCC. Block allocations and even some discrete frequencies covered by your Scanner are shown below. These frequencies are not necessarily active in your area. Union publishes listings of active frequencies.

The **Betty Bearcat Frequency Directories** list tens of thousands of verified frequencies for police, fire, emergency, aircraft, railroad, and many other services. When you turn to your local area you will find new active frequencies full of exciting action. There are directories available for each region of the country. See the enclosed order form.

Abbreviations

The following is a list of abbreviations used to identify the organizations in the frequency allocation tables.

Aero	Airplane	L. Govt.	Local Government
Ag. & For.	Department of Agriculture and Forestry	Land Tv.	Land Transportation
Auto. Emer.	Automobile Emergency	MAHS	Military Aircraft Radio Service
BCA	Broadcast Remote	Mfg.	Manufacturers
Bur. Nat.	Bureau of Reclamation	mil.	Military
Bus.	Business Radio	Mo. Tel.	Mobile Telephone
C&P	Civil Air Patrol	Mo. P.	Motor Police
F.A.A.	Federal Aviation Administration	Nat. Ph.	National Parks
F.D.	Fire Department	NWRA	National Oceanic and Atmospheric Administration
For. Prod.	Forest Products	P.D.	Police
For. Cons.	Forestry/Conservation	Page	Radio Paging
GMRS	General Mobile Radio Service	Par.	Paradise
Govt.	Federal Government	R.C.	Red Cross
GMRS	General Mobile Radio Service	R.R.	Railroad
Hwy.	Highway Maintenance	Sp. Emer.	Special Emergency
I.A.	Indian Affairs	Sp. Ind.	Special Industrial
Ind.	Industrial	St. P.D.	State Police
		Util.	Utilities

456-475 MHz Band

456.000-475.000	Govt.
475.000-480.000	Unaltd.
480.000-482.000	BC, R.
482.000-484.750	Govt.
484.750-487.750	For. Prod., For.
487.750-491.000	Spec. Ind.
491.000-492.000	Trans. Master Carrier
492.000-492.000	Auto Club
492.000-492.000	BC, R., Master Carrier
492.000-492.000	L. Spec. P.D., P.D.
492.000-494.000	News, Tel. & Page
494.000-495.000	BC, R.
495.000-498.000	P.D., P.D., Ind.
498.000-499.000	News, Tel., Page
499.000-499.000	P.D., P.D.
499.000-499.750	Bus.
499.750-500.000	Trans.
500.000-502.750	(GMR)
502.750-502.875	Bus.
502.875-503.175	Medical
503.175-504.000	Bus.
504.000-507.000	P.D., P.D.
507.000-507.750	(GMR)
507.750-507.800	Pub. Safety

In some large metropolitan areas, 1 or 2 channels of the "TV Band" (475 to 512 MHz) are used for communication purposes. Each TV Channel utilizes 6 MHz.

475-476 MHz	Channel 14
476-482 MHz	Channel 15
482-488 MHz	Channel 16
488-494 MHz	Channel 17
494-500 MHz	Channel 18
500-506 MHz	Channel 19
506-512 MHz	Channel 20

Where these frequencies are assigned for communication purposes, a fee of a TV station, the 6 MHz segment is allocated as shown here for channel 14 (475-476 MHz).

475-476 MHz	General Public
476-478 MHz	Public Safety
478-480 MHz	Reserve Pool B
480-482 MHz	Unaltd.
482-484 MHz	P.D., Spec. Ind.
484-486 MHz	Reserve pool B
486-488 MHz	Bus.
488-490 MHz	Trans.
490-492 MHz	R.S., Master Carrier
492-494 MHz	For. Prod.
494-496 MHz	General Public
496-498 MHz	Public Safety
498-500 MHz	Reserve Pool A
500-502 MHz	Unaltd.
502-504 MHz	Spec. Ind.
504-506 MHz	Reserve Pool B
506-508 MHz	Bus.
508-510 MHz	Trans.
510-512 MHz	R.S., Master Carrier
512-514 MHz	For. Prod.

The same allocation pattern is repeated for each of the TV channels 14 through 20. For example, if channel 17 is assigned for communications in your area, "Trans" would be 490.000 to 492.000 MHz. Note that in the example, we added 2 TV channel (12 MHz) to the channel 14 frequency.

600-601 MHz Band

600-615-600.000	General Systems
601-615-600.000	Public Safety
600.000-601.000	Reserved
601-615-600.000	General Systems
600.015-600.000	Public Safety
600.000-600.000	Reserved
600-615-600.000	Private
601-615-600.000	General Purpose
600-615-600.000	Private
600-615-600.000	General Purpose

ONE YEAR LIMITED WARRANTY

WARRANTOR: UNIDEN AMERICA CORPORATION ("UNIDEN")

ELEMENTS OF WARRANTY: UNIDEN warrants, for one year, UNIDEN Scanners (hereinafter referred to as the Product) to be free from defects in materials and craftsmanship with only the limitations or exclusions set out below.

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

STATEMENT OF REMEDY: In the event that the product does not conform to this warranty at any time while this warranty is in effect, warrantor will repair the defect and return it to you without charge for parts, service, or any other cost (except shipping and handling) incurred by warrantor or its authorized service centers in connection with the performance of this warranty. THE ONE YEAR LIMITED WARRANTY SET FORTH ABOVE IS THE SOLE AND ENTIRE WARRANTY PERTAINING TO THE PRODUCT AND IS IN LIEU OF AND EXCLUDES ALL OTHER WARRANTIES OF ANY NATURE WHATSOEVER, WHETHER EXPRESS, IMPLIED OR ARISING BY OPERATION OF LAW, INCLUDING, BUT NOT LIMITED TO ANY IMPLIED WARRANTIES OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE. THIS WARRANTY DOES NOT COVER OR PROVIDE FOR THE REIMBURSEMENT OR PAYMENT OF INCIDENTAL OR CONSEQUENTIAL DAMAGES. Some states do not allow this exclusion or limitation of incidental or consequential damages so the above limitation or exclusion may not apply to you.

LEGAL REMEDIES: This warranty gives you specific legal rights, and you may also have other rights which vary from state to state. This warranty is void outside of the United States of America.

Uniden Customer Service Center: If, after following the instructions in this operating guide in the Troubleshooting, Range, and Radio Interference sections, you are certain that the Product is defective, pack the Product carefully (preferably in its original packaging) and include a note describing the defect that has caused you to return it. The Product (with evidence of original purchase) should be shipped or delivered (by UPS or insured parcel post, freight prepaid), to warrantor at:

Uniden America Corporation
Customer Service Center
9900 Westpoint Drive, P.O. Box 501368
Indianapolis, IN 46250
(317) 842-2483
8 A.M. TO 5 P.M. EST, Monday through Friday

PAT. UNDER ONE OR MORE OF THE FOLLOWING U.S. PATENT NUMBERS:

3,873,804	3,883,408	3,962,261	3,962,844	3,974,452
3,987,400	3,996,321	3,996,322	4,000,468	4,027,251
4,057,760	4,092,594	4,100,497	4,114,103	4,123,716
4,157,505	4,179,662	4,219,821	4,270,217	4,368,304
4,068,688	4,455,676	4,461,036	4,521,915	4,627,100

RE 31,523

OTHER U.S. AND FOREIGN PATENTS PENDING

uniden®

Bearcat

©1990 Uniden America Corporation. All rights reserved.

UBUD012162A(KP)

Printed in the Philippines