

# Uniden®

## ***BCD260DN*** ***Owner's Manual***



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Flower Mound, Texas USA

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## **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.

### **WATERPROOF 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.

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Questions? Problems? Get help on the web at [www.uniden.com](http://www.uniden.com).

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# **IMPORTANT INFORMATION**

## **THE FCC WANTS YOU TO KNOW**

**IMPORTANT!** This scanning radio has been manufactured so that it will not tune to the radio frequencies assigned by the FCC for cellular telephone usage. The Electronic Communications Privacy Act of 1986, as amended, makes it a federal crime to intentionally intercept cellular or cordless telephone transmissions or to market this radio when altered to receive them. The installation, possession, or use of this scanning radio in a motor vehicle may be prohibited, regulated, or require a permit in certain states, cities, and/or local jurisdictions. Your local law enforcement officials should be able to provide you with information regarding the laws in your community.

## **MODIFICATION NOTICE**

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 Owner's Manual, could void your authority to operate this product.

## **PART 15 INFORMATION**

This scanner has been tested and found to comply with the limits for a scanning receiver, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This scanner generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications.

There is no guarantee that interference will not occur in a particular installation. If this scanner does cause harmful interference to radio or television reception, which can be determined by turning the scanner on and off, you are encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the scanner and the receiver.

This device complies with Part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) this device may not cause harmful interference, and (2) This device must accept any interference received, including interference that may cause undesired operation.

## **SCANNING LEGALLY**

Your scanner covers frequencies used by many different groups, including police and fire departments, ambulance services, government agencies, private companies, amateur radio services, military operations, paging services, and wireline (telephone and telegraph) service providers. It is legal to

listen to almost every transmission your scanner can receive. However, there are some transmissions that you should never intentionally listen to.

These include:

- Telephone conversations (cellular, cordless, or other private means of telephone signal transmission)
- Pager transmissions
- Any scrambled or encrypted transmissions

According to the Electronic Communications Privacy Act (ECPA), you are subject to fines and possible imprisonment for intentionally listening to, using, or divulging the contents of such a conversation unless you have the consent of a party to the conversation (unless such activity is otherwise illegal). This scanner has been designed to prevent the reception of cellular telephone transmissions and the decoding of scrambled transmissions. This is done to comply with the legal requirement that scanners be manufactured so they are not easy to modify to pick up these transmissions. Do not open your scanner's case to make any modifications that could allow it to pick up transmissions that are illegal to monitor. Modifying or tampering with your scanner's internal components or using it in a way other than as described in this manual could invalidate your warranty and void your FCC authorization to operate it. In some areas, mobile and/or portable use of this scanner is unlawful or requires a permit. Check the laws in your area. It is also illegal in many areas (and a bad idea everywhere) to interfere with the duties of public safety officials by traveling to the scene of an incident without authorization.

## **ISED COMPLIANCE**

In Canada, obtaining a license is required before purchasing and operating this scanner.

As per the Radio Standards Specification for Digital Scanner Receivers, RSS-135, Issue 2, clause 2.1, "Licensing Requirements," reproduced herein: "The equipment covered by this standard is subject to licensing pursuant to subsection 4(1) of the Radiocommunication Act."

This device complies with Industry Canada RSS standard(s). Operation is subject to the following two conditions: (1) this device may not cause interference, and (2) this device must accept any interference, including interference that may cause undesired operation of the device.

## **INFORMATION IMPORTANTE**

### **LA FCC VEUT QUE VOUS SACHIEZ**

IMPORTANT! Cette radio à balayage a été fabriquée de telle sorte qu'elle ne se règle pas sur les fréquences radio attribuées par la FCC pour l'utilisation des téléphones cellulaires. La loi sur la confidentialité des communications électroniques de 1986, telle que modifiée, fait de l'interception intentionnelle des transmissions téléphoniques cellulaires ou sans fil ou de la commercialisation de cette radio lorsqu'elle est modifiée pour les recevoir un crime fédéral. L'installation, la possession ou l'utilisation de cette radio à balayage dans un véhicule à moteur peut être interdite, réglementée ou nécessiter un permis dans certains États, villes et/ou juridictions locales. Les responsables locaux de l'application de la loi devraient pouvoir vous fournir des informations sur les lois en vigueur dans votre communauté.

### **AVIS DE MODIFICATION**

Les changements ou les modifications apportés à cet appareil qui n'ont pas été expressément approuvés par Uniden, ou l'utilisation de cet appareil d'une manière autre que celle décrite dans ce Guide de l'utilisateur, peuvent annuler votre droit d'utiliser cet appareil.

### **INFORMATION RELATIVE À L'ARTICLE 15**

Ce scanneur a été testé et déclaré conforme aux limites imposées à un récepteur de balayage, conformément à la partie 15 des règles de la FCC. Ces limites sont conçues pour fournir une protection raisonnable contre les interférences nuisibles dans une installation résidentielle. Ce scanner génère, utilise et peut émettre de l'énergie de fréquence radio et, s'il n'est pas installé et utilisé conformément aux instructions, peut causer des interférences nuisibles aux communications radio. Il n'y a aucune garantie que des interférences ne se produiront pas dans une installation particulière. Si ce scanner provoque des interférences nuisibles à la réception de la radio ou de la télévision, ce qui peut être déterminé en allumant et en éteignant le scanner, nous vous encourageons à essayer de corriger ces interférences par l'une ou plusieurs des mesures suivantes:

- Réorientez ou déplacez l'antenne de réception.
- Éloignez l'appareil du composant qui reçoit les interférences.

Cet appareil est conforme à l'article 15 des règlements de la FCC. Son fonctionnement est soumis aux deux conditions suivantes : (1) cet appareil ne doit pas causer d'interférences nuisibles, et (2) cet appareil doit accepter toute interférence reçue, y compris les interférences pouvant causer un fonctionnement indésirable.

## **UTILISER UN SCANNEUR DE MANIÈRE LÉGALE**

Votre scanner couvre les fréquences utilisées par de nombreux groupes différents, notamment les services de police et d'incendie, les services d'ambulance, les agences gouvernementales, les entreprises privées, les services de radio amateurs, les opérations militaires, les services de téléavertisseurs et les fournisseurs de services filaires (téléphone et télégraphe). Il est légal d'écouter presque toutes les transmissions que votre scanner peut recevoir. Cependant, il existe certaines transmissions que vous ne devez jamais écouter intentionnellement. Il s'agit notamment de :

- Conversations téléphoniques (cellulaires, sans fil ou autres moyens privés de transmission de signaux téléphoniques)
- Transmissions de téléavertisseurs
- Toutes transmissions brouillées ou cryptées

Selon la loi sur la confidentialité des communications électroniques (Electronic Communications Privacy Act, ECPA), vous êtes passible d'amendes et éventuellement d'une peine de prison si vous écoutez, utilisez ou divulguez intentionnellement le contenu d'une telle conversation, à moins que vous n'ayez le consentement d'une partie à la conversation (à moins que cette activité ne soit autrement illégale). Ce scanner a été conçu pour empêcher la réception de transmissions téléphoniques cellulaires et le décodage de transmissions brouillées. Ceci est fait pour se conformer à l'exigence légale selon laquelle les scanners doivent être fabriqués de manière à ne pas être faciles à modifier pour capter ces transmissions. N'ouvrez pas le boîtier de votre scanner pour y apporter des modifications qui pourraient lui permettre de capter des transmissions dont la surveillance est illégale. La modification ou l'altération des composants internes de votre scanner ou son utilisation d'une manière autre que celle décrite dans ce manuel peut invalider votre garantie et annuler votre autorisation FCC de l'utiliser. Dans certaines régions, l'utilisation mobile et/ou portable de ce scanner est illégale ou nécessite un permis. Vérifiez les lois en vigueur dans votre région. Il est également illégal dans de nombreuses régions (et c'est une mauvaise idée partout) d'interférer avec les fonctions des responsables de la sécurité publique en se rendant sur les lieux d'un incident sans autorisation.

## **CONFORMITÉ ISED**

Au Canada, il est nécessaire d'obtenir une licence avant d'acheter et d'utiliser ce scanner. Cet appareil est conforme aux normes RSS d'Industrie Canada. Selon le Cahier des charges sur les normes radioélectriques pour les récepteurs de balayage numérique, CNR-135, version 2, clause 2.1, "Exigences en matière de licence", reproduite ici : "L'équipement couvert par cette norme est soumis à l'obtention d'une licence conformément au

paragraphe 4(1) de la Loi sur la radiocommunication.” Cet appareil est conforme à la ou aux normes RSS d’Industrie Canada. Son fonctionnement est soumis aux deux conditions suivantes : (1) ce dispositif ne doit pas causer d’interférences, et (2) ce dispositif doit accepter toute interférence, y compris les interférences qui peuvent causer un fonctionnement indésirable du dispositif.

## **OBTENIR LE GUIDE D’UTILISATION BCD260DN EN FRANÇAIS**

Une version française de ce guide d’utilisation est disponible sur le site Web d’Uniden au :

[www.uniden.com](http://www.uniden.com).

1. Sur le site d’Uniden, sélectionnez “ Support”, puis “ Owner’s Manuals.”
2. Au menu déroulant de sélection des produits, choisissez “Scanners”.
3. Sélectionnez le modèle et cliquez sur le drapeau canadien.
4. La version française du guide d’utilisation de ce modèle.

# UNIDEN BCD260DN

## DIGITAL SCANNER

### FEATURES

**Backlight LCD and Keypads** - makes it easy to use the scanner at night.

**3 Search Keys** - you can assign 3 of the number keys to start a search range, Weather Scan, Tone-Out search, Service search, or view the 'Band Scope' mode.

**10 Channel Storage Banks** - You can store up to 100 frequencies into each bank for a total of 1,000 frequencies so you can more easily identify calls.

**10 Custom Searches** - lets you program up to 10 custom search ranges.

**26 Service Searches** - frequencies are preset in separate marine, railroad, air, CB radio, racing, FM broadcast, public safety, military air, FRS/ GMRS, media, and amateur radio searches to make it easy to find specific transmissions.

**Adjustable Scan/Search Delay/Resume** – set a delay up to 30 seconds or a forced resume up to 10 seconds. (per channel or search).

**Attenuator** - you can set the scanner's attenuator to reduce the input strength of strong signals by about 20 dB per channel, or search band.

**Automatic Channel Setup** - accepts frequencies on any valid channel step, even if it does not fall within the band plan's default steps.

**Band Scope Mode** – Band Scope mode is a special type of search mode where the scanner searches a frequency range and displays the signal level in real time.

**Broadcast Screen** - allows the scanner to ignore hits on known broadcast frequencies including pager frequencies in search mode.

**Configurable Band Defaults** - allows you to set the step (Auto, 5, 6.25, 7.5, 8.33, 10, 12.5, 15, 20, 25, 50 or 100 kHz) and modulation (AM, FM, NFM, WFM, or FMB) for 30 different bands.

**CTCSS/DCS/Digital Code Decode** - decodes and displays Continuous Tone Code Squelch System tones being transmitted and plays Digital Coded Squelch, DMR Color Code, NXDN Area and NXDN RAN code being received.

**CTCSS/DCS/Digital Code Search** - lets you search for CTCSS, DCS, DMR Color Code, NXDN Area or NXDN RAN Code when it finds an active frequency in search modes.

**Custom Alerts** - you can program your scanner to alert when you receive a Channel or a Tone-Out hit. For each alert in the scanner, you can select from 9 different tone patterns, 15 volume settings, 7 colors, and 2 blink patterns.

**DIN-E and ISO Vehicle Mountable** - Using the optional DIN-E sleeve or a standard ISO technique, the scanner can be easily mounted in most vehicles.

**DMR and NXDN Support** - allows you to receive transmissions with these decoding protocols.

**Duplicate Frequency Alert** - alerts you if you try to enter a duplicate name or frequency already stored in the scanner.

**Individual Channel Volume Offset** – allows you to adjust the volume offset for each channel.

**Intermediate Frequency Exchange** – changes the IF used for a selected channel/frequency to help avoid image and other mixer-product interference.

**LCD Backlight Display** - makes the LCD easy to see in dim light using three light levels.

**Multicolor LED Alert Backlight** - LCD Alert backlight LED can be custom set to 1 of 7 colors: Blue, Red, Magenta, Green, Cyan, Yellow, and White (default).

**Orange Wire Vehicle Connection** - a special wire lets you connect to the dimmer circuit of your vehicle so the vehicle's dimmer also dims the scanner's lighting.

**PC Program** - you can transfer data to and from your scanner and your personal computer and control the scanner using a computer through BCDX60DN SS program software (available through the product page on [www.uniden.com/products](http://www.uniden.com/products)).

**Priority/Priority Plus Scan** – priority channels let you keep track of activity on your most important channels while monitoring other channels for transmissions and you can scan just the priority channels. Priority Plus only monitors Priority channels.

**Quick Search** - lets you search from the currently-tuned frequency or channel or enter a frequency and start searching. Turn the Scroll knob to change search direction.

**Record Out** - You can connect an output jack to a VOX controlled recorder or PC sound input to record the received audio.

**SAME Weather Alert/Priority** - (with programmable FIPS codes) Lets your scanner alert you when a SAME weather alert is transmitted on a NOAA weather channel. The scanner also displays the alert type.



**Search Lockouts** - you can lock out up to 400 frequencies (200 temporary, 200 permanent) in search.

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

**Temporary Lockout** - automatically unlocks temporarily locked out channels/systems/searches/locations when you cycle power.





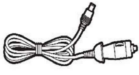

**Text Tagging** - you can name each channel, custom search range, Tone-Out, Service list, and SAME group, using up to 16 characters per name.

**Tone-Out Standby/Tone Search** - lets you set the scanner to alert you if a two-tone sequential page is transmitted. You can set up to 10 settings (transmit frequency), tone frequencies) then select one for standby monitoring. The scanner will also search and display unknown tones.

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

## INCLUDED WITH YOUR SCANNER

Included in the box are:

		
BCD260DN Scanner	Telescoping Antenna	AC Adapter
		
Three-Wire Harness	Vehicle Accessory Power Cord	Mounting Bracket and Hardware
Printed Materials: <ul style="list-style-type: none"> <li>• Owner's Manual (EN, FR)</li> <li>• FREQ form</li> <li>• APP form</li> </ul>	Not Shown: USB cable	

## 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 BCD260DN.



## WHAT IS SCANNING?

Unlike standard AM or FM radio stations, most two-way communications do not transmit continuously. Your BCD260DN 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 SCANNING?

The BCD260DN 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 for 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.

### Understanding Scanning

#### *What is CTCSS/DCS?*

Your scanner can monitor systems using a Continuous Tone Coded Squelch System (CTCSS) and a Digital Coded Squelch (DCS) system, which allow 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.

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

Refer to Appendix A 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
- FRS/GMRS users
- Many business radio users

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

### **Simplex Operation**

Simplex systems use a single frequency for both transmit and receive. Most radios using this type of operation are limited to line-of-sight operation. This type of radio is frequently used at construction job sites, and with inexpensive consumer radios such as GMRS/FRS 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 radio always listens 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 25-mile 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 1,000 channels are divided into 10 channel storage banks containing 100 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 pressing the number keys to turn a channel bank on and off.

### Service Search Banks

This scanner is preprogrammed with many of the frequencies allocated to Airband, CB radio, FRS/GMRS/MURS, Ham radio, Marine, Media, Military Air, Public Safety, Racing, and Railroad. There are 10 banks allocated for these searches that can be used just like the channel storage banks to search these frequencies in Service Search mode.

### Custom Search Banks

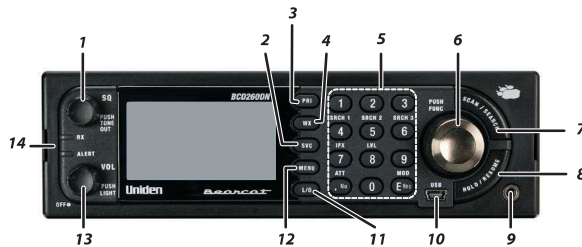
Custom Search Banks let you program and search 10 custom search ranges. During a custom search, the scanner starts searching with the lowest frequency in the search range you select to the highest frequency in the range. You can search any or all of these ranges by turning each search bank on or off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

## WHERE TO LEARN MORE

By itself, this manual only provides part of what you need to know to have fun scanning – how to program and use the scanner. The website, <http://www.radioreference.com>, is the Internet’s premier source for user-supported radio system information. This web site is not affiliated with Uniden Corporation. For more information about Uniden and our other products, visit <http://www.uniden.com>.

## KEYPAD AND KNOB CONTROLS

### BCD260DN FRONT PANEL




Each of the keys and the knobs on the BCD260DN produce different results depending upon how you activate them. You can, for example, rotate a knob as well as press it. Some keys provide one operation when briefly pressed while pressing and holding a key or knob gives a different result. Many

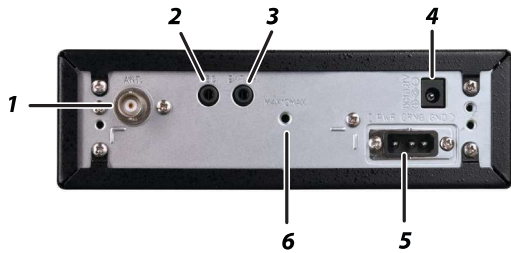
controls and keys behave differently depending on the mode your radio is in when you use them.

Number	Key/Knob	Function
1	<b>SQ</b> <b>(SQUELCH)</b>	Turn knob to access and adjust Squelch. Press knob to go to Tone-Out mode.
2	<b>SVC</b> <b>(SERVICE)</b>	The <i>Select Service</i> menu displays. Select a service and press <b>E Yes</b> . That service displays.
3	<b>PRI</b> <b>(PRIORITY)</b>	Turns Priority mode on and off.
4	<b>WX</b> <b>(WEATHER)</b>	Press to turn WX Priority mode on and off.
5	<b>Keypad</b>	<p>In addition to entering numbers, the 4 and 6 keys are also used to move the cursor left and right.</p> <p>Press the <b>FUNC</b> knob and then press one of these numbers to access the corresponding feature:</p> <ul style="list-style-type: none"> <li>• 1, 2, or 3 (SRCH 1, 2, or 3)</li> <li>• 4 (IFX - IF Exchange)</li> <li>• 5 (LVL - Volume Offset Level)</li> <li>• 7 (ATT - Attenuation)</li> <li>• 9 (MOD - Modulation)</li> <li>• <b>. No</b> - Used to enter a decimal point, delete values, errors, and warning messages. It is also used to select "No."</li> <li>• <b>E Yes</b> - Used to select, accept, and/or save a alphanumeric value entry as well as selecting "Yes."</li> </ul>

Number	Key/Knob	Function
6	<b>Scroll</b> or <b>FUNC</b>	<p>This knob has 2 main actions - turn to scroll, or press to activate Function mode or save an entry/selection. In this manual, the knob is referred to as either the Scroll knob (if it is rotated) or <b>FUNC</b> knob (if it is pressed).</p> <p>Turn the Scroll knob:</p> <ul style="list-style-type: none"> <li>• To change scan/search direction and to continue scanning/searching in Scan/Search modes.</li> <li>• To manually scroll through channels or frequencies in Scan/Search Hold modes.</li> <li>• To scroll to a menu item in Menu mode.</li> <li>• To select Tone-Outs in Tone-Out Standby mode.</li> <li>• To select characters when editing text.</li> </ul> <p>Press the <b>FUNC</b> knob:</p> <ul style="list-style-type: none"> <li>• To activate <b>FUNCTION</b> mode.</li> <li>• Press and hold to lock <b>FUNCTION</b> mode. Press again to release.</li> <li>• To save a menu item, alphanumeric/special character when entering text, a bank (Scan/Scan Hold mode), or a channel/frequency.</li> </ul>
7	<b>SCAN/SEARCH</b>	<ul style="list-style-type: none"> <li>• Press to start/pause scanning or searching in Scan mode.</li> <li>• Activate <b>FUNCTION</b> mode (press the <b>FUNC</b> knob) then <b>SCAN/SEARCH</b> to start a quick search.</li> </ul>
8	<b>HOLD/RESUME</b>	<p>Press to hold on a channel or frequency in any mode.</p> <p>Press again to release the hold.</p>
9	<b>HEADPHONE Jack</b>	<p>3.5mm <math>\emptyset</math> (Stereo Type)</p> <p><i>NOTE: Audio does not play in stereo.</i></p>
10	<b>USB Port</b>	<p>5-pin mini USB B Type</p>
11	<b>L/O (Lock-Out)</b>	<ul style="list-style-type: none"> <li>• Press to lock out the current channel being monitored.</li> <li>• Toggle to select: Temporary &gt; Permanent &gt; Unlock &gt; Temporary.</li> </ul>

Number	Key/Knob	Function
12	MENU	<p>Press:</p> <ul style="list-style-type: none"> <li>To enter Menu mode.</li> <li>To return to previous menu.</li> </ul> <p>Press the <b>FUNC</b> knob then <b>Menu</b>:</p> <ul style="list-style-type: none"> <li>To go to the Edit menu for the current system in Scan mode.</li> <li>To go to the <i>Search for...</i> menu in Search mode.</li> <li>To go to the <i>WX Operation</i> menu in any Weather mode.</li> <li>To go to the <i>Tone-Out for...</i> menu in Tone-Out Standby/Search mode.</li> </ul>
13	VOL	<ul style="list-style-type: none"> <li>Turn knob to power on the radio.</li> <li>After turning on the radio, turn the <b>VOL</b> knob clockwise/counterclockwise to increase/decrease the volume. The volume level displays in the upper-right corner of the screen.</li> </ul> <div style="text-align: center;">  </div> <ul style="list-style-type: none"> <li>Press the knob to change the backlight level.</li> </ul>
14	LEDs	<ul style="list-style-type: none"> <li><b>RX</b> - Blue when transmission signals received.</li> <li><b>ALERT</b> - Red when alerts received.</li> </ul>

### BCD260DN REAR PANEL



Item	Description
1	Antenna Jack (50ohm BNC type)
2	Record (REC) Output Jack (3.5mm Ø Stereo* type)
3	External Speaker Jack (3.5mm Ø Monaural type)
4	DC 13.8 Volts Power Jack (5.5mm Ø Center Positive)
5	DC13.8V External Power Jack with dim control terminal for installation on vehicle
6	Accessory Screw Hole - Maximum Depth = 10mm

\* Audio output is monaural, not stereo.

## BCD260DN BASIC SETUP

### SETTING UP YOUR SCANNER

These guidelines will help you install and set up your new scanner:

The scanner can be placed on a convenient surface in your home as a base station, and connected to a standard outlet that supplies 120VAC, 60Hz.

You must use either the supplied antenna or an electrically correct outdoor antenna, properly and safely mounted at your chosen site.

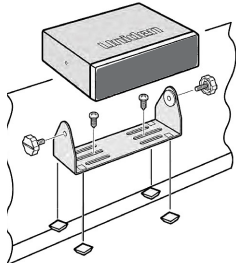
The scanner is also designed to accommodate either DIN-E and ISO-DIN automotive mounting configurations using a DIN-E sleeve and keys.

The unit can also be placed above, beneath, or in the dash of your vehicle using the supplied bracket and mounting hardware.

- If your scanner receives interference or electrical noise, move the scanner or its antenna away from the source.
- To improve the scanner's reception, use an optional external antenna designed for multi-band coverage. (You can purchase this type of antenna at a local electronics store). If the optional antenna has no cable, use 50Ω coaxial cable for lead-in. A BNC mating plug might be necessary for the optional antennas.
- Use an optional stereo earphone or stereo headset with proper impedance (32 Ω) for private listening. Read the precautions at General Precautions.
- 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.

## Base Station

This is the simplest approach to let you get started quickly. Decide on a location that is convenient to a nearby wall outlet, has desk space to let you complete your programming worksheets, will safely allow the indoor antenna to be extended, or near a window to use an outdoor antenna.



*NOTE: Graphics in this section are for illustration purposes only and may not reflect your specific scanner.*

To secure the radio to a surface, by means of the mounting bracket, follow the steps below:

1. Attach the four protective mounting feet to the mounting bracket when you casually use the scanner on a flat surface. Should you desire to permanently mount the scanner, remove the feet and use wood screws through the bracket as described in Steps 2 and 3.
2. Use the bracket as a template to mark positions for the two mounting screws.
3. At the marked positions, drill holes slightly smaller than the screws.
4. Align the bracket with the threaded holes on the sides of the radio case so the bracket is beneath the radio. Secure the bracket using the two threaded knobs. Never overtighten the knobs.

Once the radio is positioned, connect it to a source of AC power using the supplied 13.8V, 750 mA AC adapter. Insert the barrel of the AC adapter to the jack on the rear, upper right side of the radio marked "DC13.8V." Insert the connector of the supplied indoor telescoping antenna to the BNC Antenna Connector and apply moderate pressure to secure it.

## SETTING UP AN AUDIO OR COMPUTER RECORDING

It is best if you plan ahead when you initiate the basic setup of the scanner if you include the components to record incoming reception. You need an audio recording device which can be controlled by a Voice Operated module (VOX) either externally or from within the unit and the correct connecting cable. The REC (record) jack on the rear cabinet provides a constant-level



audio output which is not affected by the setting of the volume control. Use a mono or stereo cable that ends in a 3.5mm plug for the scanner. The recorder might have its own requirements as to the proper plug. Check the recorder's instructions to be sure. Connect the cable to an external or internal VOX control so that the recorder operates when audio is present.

You can also connect the cable to the appropriate input jack on your PC so that with controlling software, you can record to your hard disk.

In order for the function to operate, you must set the channel to record. You must also set the system's record option to either All Channel, which will record all channels regardless of any channel's setting, or Marked Channel which only lets recording occur if you have selected record for that channel. Which you choose will depend on various factors.

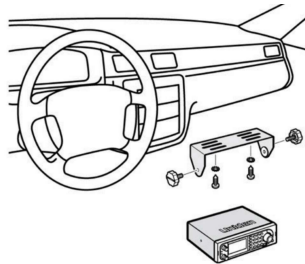
## VEHICLE INSTALLATION

You can mount your scanner in your vehicle, using either the supplied bracket or the optional DIN-E sleeve.

### Mounting Using the Bracket

With the bracket removed from the radio, use the holes in the bracket as a template to initially mark the location you plan to use in your vehicle. Be absolutely certain of what might be behind the mounting surface before making any holes, be it above, or below, or in front of your dash, armrest console, or other location. If you drill carelessly, expensive damage can result. If in doubt, consult your vehicle dealer's service department or a qualified professional installer.

**Important: AVOID AIRBAG DEPLOYMENT ZONES.** Ignoring this installation concern may result in bodily harm and the inability of the airbag to perform properly.



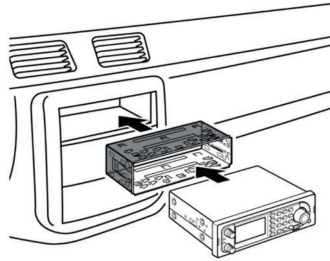
1. Using appropriate screws or other hardware, secure the bracket.
2. Insert the scanner and insert the bracket knobs to lock the scanner in position.

3. Attach the Cigarette Lighter Power Cord to the rear of the scanner and plug the adapter end into a dash mounted 12V DC socket.
4. Attach a suitable mounted mobile antenna to the antenna jack on the back of the scanner.

### **Mounting Using the DIN-E Sleeve (Optional, Part No. DIN-0001)**

If you are unsure about how to install your scanner in your vehicle using the optional DIN-E sleeve, consult your automobile manufacturer, dealer, or a qualified installer. Before installing, confirm that your scanner fits in the desired mounting area and you have all the necessary materials to complete the task. Your scanner requires a 2 x 7-1/8 x 5-5/16 inch (50 x 180 x 135 mm) mounting area. Allow an additional 2-3/8 inch (60mm) space behind the unit for connectors and wires.

1. Remove the bracket if it is attached.
2. Remove the four Philips screws from four small tabs on the rear of the case that secure the outer metal case and pull off the case (toward the rear) with care.
3. Install the DIN sleeve into the opening in your dashboard, lip facing out.
4. Push out the top and bottom tabs to hold the sleeve firmly in place.
5. Before inserting the scanner in the sleeve, attach the cable from the previously mounted antenna. Attach the DC Power leads. RED goes to a positive (+) connection on your fuse block while BLACK connects to the vehicle's chassis ground (-).
6. Connect the ORANGE lead to one side of the headlamp switch so that when you activate the headlights, the scanner's LCD display changes intensity. Be sure all the connections are routed away from any potentially pinching or slicing sheet metal.
7. Slowly slide the scanner into the sleeve until it locks in place.
8. To remove the unit, fully insert the removal keys into each slot on the left and right edges of the front panel. Carefully slide the radio from the sleeve.

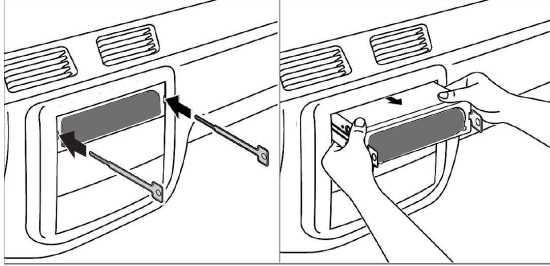


### Removing the Scanner from the DIN-E Sleeve

If you plan to connect other devices or wires to the radio at a later time, you should plan to remove the scanner from the DIN-E sleeve. This is easily done using the provided Removal Keys that come with the optional DIN-E sleeve.

Refer to the illustration that follows, showing the Removal Keys.

Fully insert both Removal Keys into the slots on the left and the right edges of the radio's dress panel. You cannot remove the radio with only one key. Press in fully, and do not twist the keys. The radio will unlock from the sleeve, making withdrawal from the sleeve possible. Store the keys in a safe place for future use.



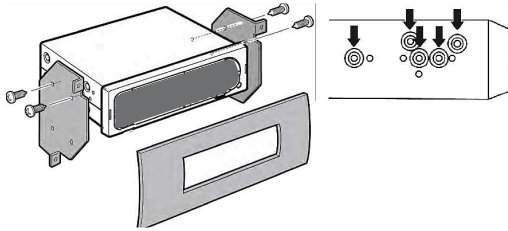
### Mounting Using ISO Technique

Some vehicles can take advantage of another approach to mounting a radio in a vehicle, called the ISO technique. However, this technique requires a very detailed and thorough knowledge of the technique. Therefore, we strongly suggest that if you have any doubt about your experience and abilities, please consult with a professional installer who is familiar with the ISO approach to radio installation.

To begin the process, it is first necessary to remove the scanner's outer metal sleeve from the inner chassis. Unthread the four screws in the rear of the unit. Slide the cover toward the rear and off. Once the sleeve is removed, you will see threaded, metric machine screw holes on either side of the chassis cabinet. Uniden does not supply these screws. Their diameter, length, and screw type should be chosen by a qualified installer based on the internal vehicle bracket which will be used in securing the scanner chassis.

Once the original radio is removed from the vehicle dash and the fit of the scanner is correct, be sure to connect all the power, audio, antenna, and any other cables or wires, to the scanner before the scanner is secured.

The following illustration is a typical example of the ISO technique and the general side mounting screw holes often encountered. It does not actually represent the Uniden scanner nor your vehicle's mounting bracket. Only a professional installer will be able to determine the best and correct approach.



### Removing the Display Sticker

Before you use the scanner for the first time, remove the protective plastic film over the display.

### 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, BNC terminated 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. Cable loss increases with higher frequency.*

### Connecting an Earphone/Headphone

For private listening, you can plug a 1/8-inch (3.5 mm) mini-plug earphone or headphones (not supplied) into the headphone jack on the front of your scanner. This automatically disconnects the internal speaker. See the Earphone Warning on page 2 for important information about using an earphone/headphone.

#### **WARNING!**

***Never connect anything other than the recommended amplified extension speaker to the scanner's headphone jack. Damage to the scanner might occur.***

### Connecting an Extension Speaker

In a noisy area, an optional amplified 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 back panel Ext. Sp. Jack.

#### **WARNING!**

***Never connect any part of the headphone jack to the antenna jack or connect the radio to an installation where the antenna and audio connection are grounded. This might also damage the scanner.***

## Turn on the Scanner

Rotate the **VOL** knob clockwise until it clicks. The scanner is now powered up and in Volume mode. The volume level displays.

Continue rotating the **VOL** knob clockwise until the volume level is in the 6 - 8 range. The *Uniden Welcome* screen displays.

*NOTE: If the scanner has been used previously, it will return to whatever mode it was in when it was turned off. If the scanner is new or has been reset, the radio displays Scan Mode Nothing to Scan because it has not yet been programmed with frequencies to scan. If you want to search for something right away, set up Volume and Squelch settings; next, press the **SVC** key and select a pre-programmed service.*

## CONFIGURE SCANNER

After you turn on the scanner for the first time, configure it to your personal liking by setting the volume level, adjusting the squelch level, and going to MENU/Settings (page 79) to personalize the unit. Configuring the scanner involves the following:

- Set volume level.
- Set squelch level.
- Set backlight.
- Set RX LED.
- Adjust key beep.
- Set Upside-Down.
- Adjust contrast.
- Adjust band default values.

### Set Volume Level

1. Turn the **VOL** knob to display the volume level indicator in the upper right of the screen.



2. Turn the **VOL** knob to adjust the volume (levels 00 - 29).
3. The volume adjust display times out after 3 seconds.

### Set Squelch Level

1. Turn the **SQ** knob to display the squelch level in the upper right corner of the screen.



2. Turn the **SQ** knob counter-clockwise all the way and then clockwise until the noise stops (00 - 19 levels). Turn the **SQ** knob one level more.
3. The squelch adjust display times out after 3 seconds.

### Set Backlight

Adjust the backlight intensity for the screen and for the keypad through the menus or by pushing the **VOL** knob.

*NOTE: Set the dimmer to AUTO if you are going to hard-wire your scanner inside your vehicle.*

1. From **MENU/Settings**, scroll to *Set Backlight* and press **E Yes**. The *Set Backlight* screen displays two options: *Set Dimmer* and *Set Color*.

Scroll to *Set Dimmer* and press **E Yes**. *Set Dimmer* lets you determine whether the dimmer is set automatically or manually.

If the scanner will be mounted in an automobile, select *AUTO*, choose between + *Polarity* (the orange wire gets 12V when you turn on the headlights) or – *Polarity* (the orange wire is switched to chassis ground when you turn on the headlights), and press **E Yes**. The *Set Backlight* menu displays again.

If the scanner is for home use and will NOT be mounted in an automobile, select *MANUAL*, choose between *High*, *Middle*, *Low*, and *Off*, and press **E Yes**. The *Set Backlight* menu displays again.

2. From the *Set Backlight* menu, scroll to *Set Color* and press **E Yes**. The *Set Color* screen displays the following list of color options:
  - Cyan
  - Yellow
  - White
  - Blue
  - Red
  - Magenta
  - Green

*NOTE: The screen background changes color to the color selected as you scroll through the color options.*

3. After selecting a color, press **E Yes**. The *Set Backlight* menu displays again.
4. Press **MENU** to return to the *Settings* menu.

#### **Set RX LED**

This menu allows the Alert LED to turn on when an alert is received.

1. From **MENU/Settings**, scroll to *Set RX LED* and press **E Yes**. The *Set RX LED* menu displays two options: *On and Off*.
2. Select either *On* or *Off* and press **E Yes**. The system returns to the *Settings* menu.

#### **Adjust Key Beep**

This setting turns key beep on and off and adjusts its volume level.

1. From **MENU/Settings**, select *Adjust Key Beep* and press **E Yes**.
2. Select a key beep volume level (1 - 15), *Auto* (the scanner sets the alert beep to the master volume level), or *Off* (no sound is made).

*NOTE: When you scroll through the volume level options, the scanner beeps at that level.*

3. Press **E Yes** to set the desired beep level and return to the *Settings* menu.

#### **Set Upside-Down**

This option switches the screen display upside-down. Turn this setting on or off according to your scanner mounting position and viewing needs.

1. From **MENU/Settings**, select *Set Upside-Down* and press **E Yes**.
2. Select *On* (image is upside-down) or *Off* (image is normal orientation) and press **E Yes**.
3. The scanner returns to the *Settings* menu.

#### **Adjust Contrast**

This setting controls the display's contrast.

1. From **MENU/Settings**, scroll to *Adjust Contrast* and press **E Yes**.
2. Fifteen contrast levels display. The screen displays the contrast level as you scroll through the options. Select a contrast level and press **E Yes** to save it and return to the *Setting* menu.

## Change Band Defaults

This setting allows you to change the “Auto” (default) values to whatever you feel “Auto” should be for each band (vs. the radio defaults). Since all of the step and modulation settings default to “Auto,” this allows you to skip those settings when programming.

*NOTE: These settings do not affect service searches.*

1. From **MENU/Settings/Band Defaults**, scroll to the band you wish to edit and press **E Yes**. The *Set Modulation* menu for that band displays.
2. Scroll to one of the following and press **E Yes** to select it:
  - AM
  - NFM
  - FM
  - WFM
  - FMB
3. The *Set Step* menu displays. Scroll to one of the following options and press **E Yes** to save and exit.

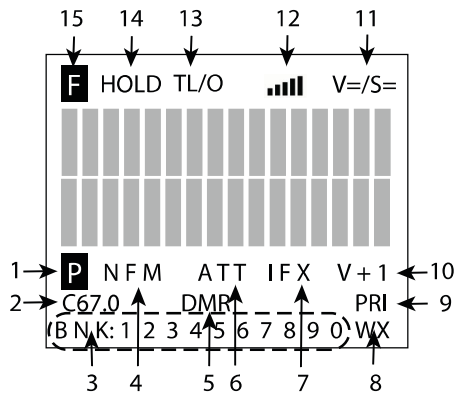
5	6.25	7.5	8.33	10	12.5
kHz	kHz	kHz	kHz	kHz	kHz
15	20	25	50	100	
kHz	kHz	kHz	kHz	kHz	

4. The *Band Default* screen displays again. Repeat these steps to edit other bands. When finished editing bands and the *Band Default* screen displays again, press **MENU** to return to the *Settings* menu.

## A LOOK AT THE DISPLAY

This next graphic shows the various screen elements and where they appear. Not all elements display on every screen.

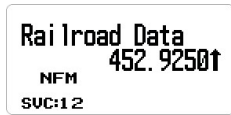




The following 3 screens are examples of different types of screens, showing how elements from the first graphic are displayed.



Scan Screen Example





Service Search Screen Example



Quick Search Screen Example

Item		Meaning
1	<b>P</b>	Priority channel
2		CTCSS/DCS/Color Code data (C67.0/DCS023/CC1, etc.)
3	<b>BNK</b>	Bank number (1 - 9, 0)
4		Modulation Type (AM, NFM, FM, WFM, or FMB)

Item		Meaning
5		<ul style="list-style-type: none"> <li>• <b>CAP.</b> Capacity Plus/Linked Capacity Plus site's voice and data in MotoTRBO system.</li> <li>• <b>CON.</b> Connect Plus site's voice and data in MotoTRBO system.</li> <li>• <b>DT3.</b> Trunked DMR site's voice and data in ETSI Standard Tier 3 system.</li> <li>• <b>DMR.</b> One frequency DMR site's voice and data/Simplex DMR voice.</li> <li>• <b>IDS.</b> IDAS in NXDN system.</li> <li>• <b>ND4.</b> NXDN 4800 Direct Frequency</li> <li>• <b>ND9.</b> NXDN 9600 Direct Frequency</li> <li>• <b>NX4.</b> NXDN 4800 NEXEDGE</li> <li>• <b>NX9.</b> NXDN 9600 NEXEDGE</li> <li>• <b>NXD.</b> Unknown NXDN system</li> <li>• <b>XPT.</b> Hytera XPT site's voice and data in MotoTRBO system.</li> <li>• <b>P25/DAT.</b> APCO Project 25 is not supported, so the scanner skips P25 signals when searching or scanning.</li> </ul> <p><i>NOTE: These display in the same place as the DMR icon in the illustration and also in conventional/search mode.</i></p>
6		<p><b>ATT</b> icon displays when attenuator is on.</p> <p><b>G-ATT</b> icon displays when global attenuator is on.</p>
7	<b>IFX</b>	Indicates current frequency is set to IFX (IF Exchange).
8	<b>WX</b>	Indicates Weather Alert Priority Scan mode is on.
9	<b>PRI</b>	<p><b>PRI</b> indicates Priority Scan mode; it blinks while the Priority Plus scan is active.</p> <p><b>PRJ</b> indicates Priority Do-Not-Disturb (DND).</p>
10		V-3/V-2/V-1/V+1/V+2/V+3. Displays when Volume Offset is on.
11	<b>V=</b> <b>S=</b>	Volume or Squelch level display.
12		This bar displays the received signal strength (0 - 5).
13		<p><b>L/O</b> indicates a channel or frequency is permanently locked out.</p> <p><b>TL/O</b> indicates a channel or frequency is temporarily locked out.</p>

Item		Meaning
14	<b>HOLD</b>	Hold on a channel. Press again to release hold and continue scanning.
15		Displays when the <b>FUNC</b> knob is pressed, indicating that the Function mode is activated (Function mode times out in three seconds). Press and hold the <b>FUNC</b> knob longer than three seconds to enter Function Hold mode; the icon blinks and Function Hold mode does not time out after three seconds.

## MENUS

Procedures in this manual refer to the BCD260DN's menus for programming channels, frequencies, banks, and other operations.

Press **MENU** to display the main menu list:

- Program Channel
- Search Options
- Search for . . .
- Priority Scan
- WX Operation
- Tone-Out for . . .
- Settings

Appendix B on page 72 details each menu and its subsequent submenu structure.

### USING MENUS

After pressing **MENU**, the main menu displays.



Turn the Scroll knob clockwise to scroll through the items in order. Turn the Scroll knob counter-clockwise to scroll through the items in reverse order (backwards).

### ENTERING/SELECTING DATA

For screens that require input (entering a name, changing a frequency, etc), follow these conventions:

To enter a character, turn the Scroll knob until the character you want displays. Characters display in the following order: all capitals, all lower case, numbers, specials, blank. Press **E Yes** to select it.

- To move the cursor to the left, press **4**.
- To move the cursor to the right, press **6**.
- To clear a character, press **. No**.
- To clear all characters, press **. No** twice.
- To save and exit when finished, press **E Yes**.

There are 2 ways to select the item you've chosen:

- Press **E Yes**.
- Press the **FUNC** knob

*NOTE: This manual uses "Press **E Yes**" but either method will take you to the appropriate menu level.*

### **Valid Frequency Ranges**

When you program channels into a bank, you assign frequencies to that channel. The supported band frequency range is from 25.000 to 1300.000 MHz, with two ranges not supported: 513.0000 – 758.000 and 823.9900 – 849.0100.

The scanner automatically rounds the entered number to the nearest supported step. For example, if you enter 151.473 MHz, the scanner rounds it to 151.475.

## **BCD260DN OPERATION SETUP**

You must program at least one frequency into a channel before you can begin scanning. To customize your scanner, you should also:

- Set up and program channels into banks.
- Set up search (frequency) ranges.
- Set up search characteristics such as service list names, delay times, etc.
- Set up custom searches.
- Set up quick searches.
- Set up weather features.

When you have configured your scanner, you can start using your scanner's preprogrammed service banks, the custom search banks, or the Weather Scan/Alert feature.

## PROGRAM CHANNELS

*NOTE: See SEARCH MODE (page 38) if you want to continuously search all or specific ranges of frequencies or preprogrammed service frequencies instead of scanning programmed channels.*

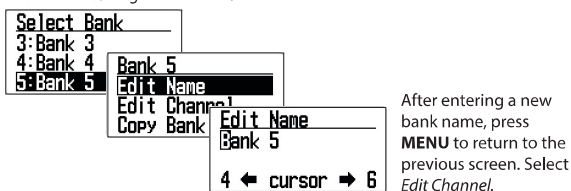
Before scanning for transmissions, you need to set up channel banks and program frequencies into those channels. You can save 100 channels into each of the 10 channel banks (1000 channels total). If desired, group similar channels into one bank to make listening easier, and name the channels/set attributes for each channel.

After programming channels into banks, press **SCAN/SEARCH** to scan those entries. The scanner starts scanning at Bank 1 and continues through Bank 10 (displays as BANK 0) before repeating the scanning process. Flashing numbers at the bottom of the screen indicate which bank is currently being scanned. If there are banks you do not want to scan, press that bank's number to turn it off. Press that number again to turn it back on and make it available for scanning.

### Editing Banks and Channels

1. From **MENU/Program Channel/Select Bank**, you can select a bank and rename it.

From **MENU/Program Channel/Select Bank** -



2. **Select Bank.** You can select from 1 (Bank 1) through 9 and 0 (Bank 9 and Bank 10).

The first number (1, 2, etc) is the Bank number (Bank 1, Bank 2, etc) that matches the number on the bottom of the screen when scanning begins.

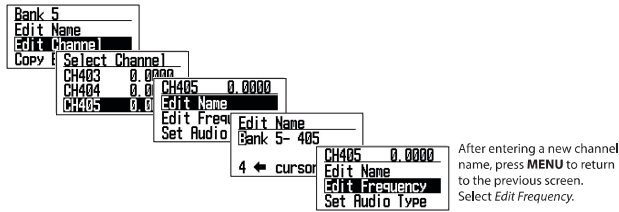
**CAUTION: Frequencies must be registered in these banks before scanning can start. Nothing to Scan displays if you try to scan an empty bank.**

3. **Edit Name.** After you select a bank and press **E Yes** to set it, that bank's action list displays. If you do NOT want to change the Bank's name, the bank name will default to Bank 1, Bank 2, etc, If you DO want to change

the bank's name, select *Edit Name*. Refer to page 31 for text entry procedures.

*NOTE: The bank name appears at the top of the screen while scanning. For example, if you put the frequencies for Public Safety in 1:Bank 1 and renamed it to 1:Public Safety, you can see what services are scanning in BNK:1.*

After you have selected a bank and renamed it if desired, you can select a channel in that bank and edit it.



**4. Edit Channel.** The *Select Channel* screen displays. Select a channel to edit. That channel's 13 editable settings display:

- **Edit Name.** You can set a name for the channel and change it as needed. If you do not edit the channel name, it will default to "BANK 1-001, etc."

*NOTE: When a frequency is received and scanning stops, the name of that channel displays on the screen.*

- **Edit Frequency.** Enter a frequency within the frequency range supported by this radio. Decimal numbers may be rounded depending on the frequency; it does not affect performance.

*NOTE: The scanner automatically rounds the entered number to the nearest supported frequency. For example, if you enter 151.473 MHz, the scanner rounds it to 151.475. See page 32 for valid frequency details.*

*NOTE: Check websites for frequencies that can be received in your area. Uniden recommends visiting [www.radioreference.com](http://www.radioreference.com), which has a lot of information about scanner radios and frequencies. You can also use a scanner shop that offers a service (for a fee) that programs frequencies for your location into your scanner.*

- **Set Audio Type.** Select one of the three following audio types: All, Digital Only, and Analog Only.

**ALL:** The radio will automatically detect the signal and receive it in the appropriate mode. Select **ALL** if you don't know what mode is being used for that frequency.

**IMPORTANT:** *In this mode for any signal, the radio outputs audio and stays on that frequency for as long as the received signal lasts. Even for a digital signal that cannot be demodulated or a control signal that does not contain sound, the radio recognizes it as analog signal so that, after receiving it, the radio stays on that channel until the signal disappears. If you know that digital communication is used on this signal, it is highly recommended that you set Audio Type to Digital Only.*

**Digital Only:** The radio will scan assuming only digital signals are coming. Digital communications that cannot be demodulated and data signals (such as control signals) are ignored; scanning resumes after data channel signals are received.

Select *Digital Only* and the following options display in the *Code Option* menu: Search, Set Color Code (0 - 15), Set NEXEDGE RAN (0 - 63), and Set IDAS Area (0, 1).

**Caution:** *It may appear that the Squelch setting is not effective in Digital Only mode as there is no apparent change when adjusting the Squelch level. However, during scanning, the Squelch setting value is indeed used to determine the presence or absence of a signal.*

*If you start scanning with the squelch set to open, it would require checking each time as to whether or not there is a digital signal that can temporarily pause and demodulate even on channels without a signal.*

*This would slow down the scanning process. Therefore, before starting scanning in Digital Only mode, always ensure that the squelch is not set to open.*

*It is recommended to either set the squelch value to the level used when receiving analog signals or pre-set the squelch level to around 2 or 3 before starting the scan.*

Digital code search and filtering by Color Code, RAN code, and IDAS Area are possible.

**Analog Only:** The radio will scan assuming only analog signals are coming.

- Since the digital signal is not demodulated, it becomes data sound.
- Squelch is enabled. Check the Squelch level.
- CTCSS/DCS included in the received signal can be searched and filtered.

Select *Analog Only* and the following options display in *Set CTCSS/DCS* menu: *Search*, *CTCSS*, and *Set Lockout*.

- **Set Modulation.** When you select *AUTO*, the radio will use the default mode for that selected frequency.  
If you want to intentionally change the mode and bandwidth, you can change it manually.

Press the **FUNC** knob + **9 MOD** during Scan Hold mode to override modulation.

- **Set Delay Time.** Scroll to the desired delay time and press **E Yes** to save and exit.
  - 0, 1, 2, 5, 10, 30 seconds. Sets the time to stay on that frequency after transmission ends. Doing this lets you wait for a delayed reply to that transmission. If set to 0, the scan will start as soon as the transmission ends; if there is a reply after 1 second, you may miss it. Increasing this time will slow down the overall scan time.
  - -2, -5, -10, -30 seconds. If set to a negative value on that frequency, the radio stays on that frequency for the set amount of time after receiving a signal. For example, if you select -2 seconds, you will only hear the first 2 seconds of a 10 second transmission.
- **Set Attenuator** Add attenuation per individual frequency. Attenuation can also be set globally.

If a strong signal source exists near the desired frequency, it may interfere with reception of the desired frequency. Turning ATT ON weakens the received signal but may improve communication clarity. Under normal circumstances, use it with OFF.

- Press the **FUNC** knob + **7 ATT** to override this setting during Scan/ Hold mode.
- Press and hold the **FUNC** knob + **7 ATT** to toggle global attenuator.
- **Set Priority.** Select *On* to set this channel as a Priority Channel or *Off* to deselect it. See the Priority Scan section beginning on page 49 for more details.
- **Set Alert.** You can program your scanner to alert you when a channel is received. For each alert in the scanner, you can select from 9 different tone patterns, 15 volume settings, 7 colors, and 2 color patterns.
  - Set Alert Tone. Choose from 9 alert sounds (1 - 9) or Off. The radio sounds each tone as it is selected. After selecting the tone, *Set Level*



displays. Select a volume level (Auto, 1 - 15). *Set Alert* displays again.

- Select *Set Alert Light*. The radio's Alert Light (LCD Backlight) turns on/blinks according to this setting when this frequency is received. If the backlight setting is:

- \* Off - the LCD Alert backlight turns on in the selected color for 5 seconds.
- \* On - the LCD Alert backlight will be overwritten with the specified color for 5 seconds.
- \* Slow Blink. The LCD Alert backlight blinks slowly up to three times.
- \* Fast Blink. The LCD Alert backlight blinks up to 5 times in short intervals.

*NOTE: The LCD backlight color preset for normal use will be overridden by the color set here; please select a color different from the backlight color you normally use.*

- **Set Record.** Selecting *On* enables the scanner to output audio signals to an external audio recording device. *Off* prevents audio signal output.
- **Set Lockout.** Setting a frequency to Lockout will skip that frequency when scanning.
  - Unlocked: Unlocks a locked out frequency. Invalid if selected for an already unlocked frequency.
  - Temporary L/O. Locks out a frequency if it is unlocked (see Unlock above) or power cycles to the radio. TL/O frequencies are not retained in memory.
  - Lockout (L/O): Locked out until it is unlocked (see Unlock above). L/O status is saved to memory when power cycles.
- **Adjust Volume Offset.** Fine-tune the audio level for each receiving frequency. The audio level may differ depending on the communication received. You can manually flatten the receiving audio level difference for each frequency. Volume offset values are: -2, -1, 0, +1, +2, and +3.

Press the **FUNC** knob + **5 LVL** during Scan Hold mode to override Volume Offset.

- **Set Digital Waiting.** Set the amount of time for the scanner to determine if a transmission is digital or analog. During this time, the scanner evaluates the signal and, if it detects a digital signal, it immediately opens squelch. If a digital signal is NOT detected before the delay expires, the scanner opens squelch at the end of the delay. This prevents "false decode" problems (digital noise at the beginning of transmissions). The default setting is 400 ms. This setting only affects channels with an Audio

Type set to *ALL*.

*NOTE: For analog transmissions, if the Audio Type is set to ALL, the first part of the transmission will be lost for the wait time set here.*

- **Clear Channel.** Clear a specific channel. The cleared channel becomes an empty channel (0.0000 MHz), and is locked out and excluded from scanning.
5. **Copy Bank.** You can copy the contents of a bank that has already been created and paste it into another bank.
- Scroll to the bank you want to copy and select it.
  - Next, select *Copy Bank* from the *Select Bank* menu.
  - Select the bank you want to paste the bank information into and press **E Yes** to overwrite it.

*NOTE: The Bank name is not copied; please rename it after copying.*

6. **Clear Bank.** Erases the contents of the bank and returns it to factory default settings.

## SEARCH MODE

Setting up search ranges lets you search for pre-programmed frequencies.

There are three types of searches:

- **Service Search.** Search for pre-programmed service frequencies (police, fire, civil air, etc).
- **Custom Search.** Set lower- and upper-frequency limits and other search criteria.
- **Quick Search.** Start searching at the displayed frequency or at a specific entered frequency

### Service Search

If you do not have a reference for frequencies in your area, use an internet search to find transmissions. You can search for Airband, CB radio, FRS/GMRS/MURS, Ham radio, Marine, Media, Military Air, Public Safety, Racing, and Railroad frequencies without knowing the specific frequencies in your area. The scanner's service lists are preprogrammed at the factory with all the frequencies allocated to those services.

SVC List	Name	SVC Bank 1	SVC Bank 2	SVC Bank 3	SVC Bank 4	SVC Bank 5	SVC Bank 6	SVC Bank 7
1	Public Safety	Pub. Safety LOW	Pub. Safety HI	Pub. Safety UHF	Pub Safety 800			
2	Media	Media						

SVC List	Name	SVC Bank 1	SVC Bank 2	SVC Bank 3	SVC Bank 4	SVC Bank 5	SVC Bank 6	SVC Bank 7
3	Ham Radio	Ham Radio 10m	Ham Radio 6m	Ham Radio 2m	Ham Radio 1.25m	Ham Radio 70cm	Ham Radio 33cm	Ham Radio 23cm
4	Marine	Marine USA						
5	Railroad	Railroad STD	Railroad SPLT	Railroad Data				
6	Air Band	Airband 8.33K						
7	CB Radio	CB Radio AM						
8	FRS/ GMRS/ MURS	FRS/ GMRS/ MURS						
9	Racing	Racing						
10	FM Broadcast	FM Broadcast						
11	Military Air	Military Air						
12	Custom 1							
13	Custom 2							
14	Custom 3							

There are three ways to start a Service Search:

- Press **SVC** to display a list of services. Select the service you want and press **E Yes**.
- Press **MENU/Search for .../Service Search** to display a list of services. Select the service you want and press **E Yes**.
- Assign a specific service to a **SRCH** key in advance; press the **FUNC** knob and then the **SRCH 2** key to start. (See page 48.)

*NOTE: Factory preset **SRCH 2** is preset to Public Safety. Press the **FUNC** knob and then **SRCH 2** to start searching Public Safety channels.*

The Public Safety channels themselves are divided into four bands by frequency band and assigned to SVC Banks 1, 2, 3, and 4. **SVC: 1 2 3 4** displays on the bottom line of the screen.

- **SVC:1** = Pub. Safety LOW

- SVC:2 = Pub. Safety HI
- SVC:3 = Pub. Safety UHF
- SVC:4 = Pub. Safety 800

*NOTE: Disabled or empty service bank numbers are not displayed. The currently searched bank number flashes. You can turn service banks on/off by using the 1-9/0 keys; however, one service bank must be enabled. An error tone sounds if you try to disable the last remaining bank number.*

*NOTE: You can change the names and combinations of service lists; however, the frequencies registered for each service cannot be edited. Also, modulation for each service cannot be overridden by pressing **FUNC + 9 MOD** key.*

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 41).

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

### **Service Search Receive/Hold Modes**

To hold on a frequency, press **HOLD**. To step through the frequencies, turn the Scroll knob while in Hold mode. Press **HOLD** again to resume scanning.

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

Any CTCSS/DCS received (if enabled) also appears in the display. To store a frequency, press **E Yes**. To temporarily lock out a frequency, press **L/O**. To permanently lock out a frequency, press **L/O** twice quickly. See also Edit Custom Search Options on page 43 for Delay, CTCSS/DCS settings, and locking out/reviewing/unlocking frequencies.

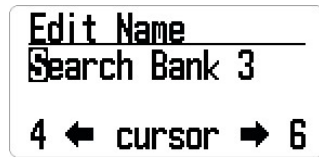
### **Set Service Lists**

1. Go to **MENU/Search For.../Set Service List** (see page 74). A preset list of 11 services displays (Public Safety, Media, Ham radio, etc) plus 3 custom lists (blank).
2. Scroll to the service list you want to edit, and press **E Yes** to select that service list.
3. Two menu options display: *Edit Name* and *Select Service*.

#### **Edit Name**

Select this menu option to change the service list's name.

1. Select *Edit Name*. The *Edit Name* screen displays.



2. Edit the name. Refer to page 31 for text entry options. Press **E Yes** when complete.

3. The new Bank name displays at the top of the screen while searching.

#### **Select Service**

Select up to 10 services to be included from a list of the available services for the service selected in *Set Service List* previously and assign them to a bank.

1. Scroll to the bank you want to change or add. Press **E Yes** to display the bank's service list.
2. Select the service to assign to that bank from the service list and press **E Yes**. You can also select (*BLANK*) when not assigning service to the bank. Bank numbers with blank assignment are not displayed.
3. Press **MENU** twice to return to the *Service List* menu.

#### **Edit Service**

You can configure the following settings for each service:

- Set Delay Time
- Set Attenuator
- Set Record
- Digital Waiting

*NOTE: Unlike Scan mode, these settings are per service, not per frequency.*

#### **Set Delay Time**

For: 0, 1, 2, 5, 10, 30 seconds:

Sets the time to stay on that frequency after the transmission ends.

*NOTE: You can wait for a delayed reply to that transmission. If set to 0, scanning starts as soon as transmission ends; if there is a reply after 1 second, you may miss it. Increasing this time will slow down the overall scan.*

For: -2, -5, and -10 seconds:

If negative values are set for a frequency, the scanner stays on that frequency for the set amount of time after receiving a signal. For example, if you set this value to -2 seconds, you will only hear the first 2 seconds of a 10-second transmission.

Scroll to the desired delay time and press **E Yes** to save and exit.

### **Set Attenuator**

Add an attenuator per frequency.

If a strong signal source exists near the desired frequency, it may interfere with reception of the desired frequency. Turning on ATT weakens the received signal; but it may also improve communication clarity. Normally, use it with OFF.

NOTE: Press the **FUNC** knob + **7 ATT** to set attenuator for individual frequencies. Press and hold **the FUNC** knob + **7 ATT** to set global attenuator.

### **Set Record**

This setting allows a live audio output from the Record Out Jack (REC) to an audio recording device.

On — the scanner outputs the audio signal.

Off — the scanner does not output any audio signals.

### **Set Digital Waiting**

This setting gives the scanner time to determine if a transmission is digital or analog. During this time, the scanner evaluates the signal and, if it detects a digital signal, it immediately opens squelch. If a digital signal is not detected before the delay expires, the scanner opens squelch at the end of this delay. This prevents “false decode” problems (digital noise at the beginning of transmissions). The default setting is 400 ms. This setting only affects channels with an Audio Type set to ALL.

*NOTE: Any analog transmissions on channels with Audio Type set to ALL will lose the first part of the transmission, up to the wait time set here.*

### **Custom Search**

Setting up a custom search allows you to edit the 10 custom search ranges. Default custom search range names display as Custom 1, Custom 2, etc. Custom 1 refers to SRCH Bank 1 (SRC:1), Custom 2 to SRCH Bank 2 (SRC:2), etc. These Search bank numbers match the number displayed at the bottom of the screen when starting Custom Searches.

The default search frequency ranges are:

- Custom 1 (SRC:1) 25.0000MHz to 27.9999MHz
- Custom 2 (SRC:2) 28.0000MHz to 29.6999MHz
- Custom 3 (SRC:3) 29.7000MHz to 49.9999MHz
- Custom 4 (SRC:4) 50.0000MHz to 53.9999MHz
- Custom 5 (SRC:5) 137.0000MHz to 143.9999MHz
- Custom 6 (SRC:6) 144.0000MHz to 147.9999MHz
- Custom 7 (SRC:7) 406.0000MHz to 419.9999MHz
- Custom 8 (SRC:8) 420.0000MHz to 449.9999MHz

- Custom 9 (SRC:9) 450.0000MHz to 469.9999MHz
- Custom 10 (SRC:10) 806.0000MHz to 960.0000MHz

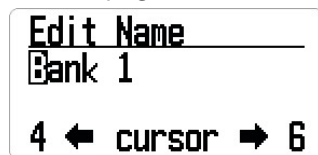
### **Edit Custom Search Options**

1. Select **MENU/Search for.../Edit Custom**. A list of the 10 search banks displays.
2. Scroll to the search bank you want to edit and press **E Yes**. A list of options to edit displays:
  - Edit Name
  - Edit Srch Limit
  - Set Step
  - Set Delay Time
  - Set Modulation
  - Set Attenuator
  - Set Record
  - Digital Waiting

### **Edit Name**

*NOTE: If you do not want to change the bank name, skip this option. The bank name displays the default Custom 1, Custom 2, etc.*

1. Select *Edit Name* from the list of available editing options. The *Edit Name* screen displays with the name of the Search Bank displayed and the first character highlighted. Refer to page 31 for text entry options.

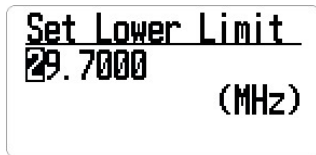


2. Press **E Yes** when you have finished editing to save the entry, exit, and return to the previous menu. The new name displays on the top of the screen while searching.

### **Edit SRCH (Search) Limit**

This search option lets you set the lower and upper frequencies to be searched. Be careful to enter the frequency correctly per the information on page 31.

1. Select *Edit Srch Limit* from the list of available editing options. The *Set Lower Limit* screen displays the lower limit frequency with the first number highlighted.



2. Enter the new lower frequency on the keypad. The entered numbers display as you press them.
  - To move the cursor to the right one character, turn the Scroll knob clockwise.
  - To move the cursor to the left one character, turn the Scroll knob counter-clockwise.
  - To clear a character, press **. No**.
  - To clear all characters, press **. No** twice.
3. Press **E Yes** when you have finished editing to save the entry, exit, and display the *Set Upper Limit* screen.
4. Enter the new upper frequency on the keypad. The entered numbers display as you press them.
5. Press **E Yes** when you have finished editing to save the entry, exit, and return to the previous menu.

### Set Step

1. Select *Set Step* from the list of available editing options and press **E Yes** to select it. The *Set Step* screen displays a list of steps in KHz to select.

Auto	5 KHz	6.25 KHz	7.5 KHz
8.33 KHz	10 KHz	12.5 KHz	15 KHz
20 KHz	25 KHz	50 KHz	100 KHz

2. Scroll to the step you want to set. Press **E Yes** when you have finished editing to save the entry, exit, and display the previous menu.

### Set Delay Time

For: 0, 1, 2, 5, 10, 30 seconds:

Sets the time to stay on that frequency after the transmission ends.

*NOTE: You can wait for a delayed reply to that transmission. If set to 0, the search starts as soon as transmission ends; if there is a reply after 1 second, you may miss it. Increasing this time will slow down the overall search but allow time for a reply to be heard.*

For: -2, -5, -10, -30 seconds:



If negative values are set for a frequency, the scanner stays on that frequency for the set amount of time after receiving a signal. For example, if you set this value to -2 seconds, you will only hear the first 2 seconds of a 10-second transmission.

Scroll to the desired delay time and press **E Yes** to save and exit.

### **Set Modulation**

When you select *AUTO*, the radio uses the default mode for that frequency. If you want to specifically change the mode and bandwidth, you can change it manually. Modulation options are:

- Auto
- AM
- NFM
- FM
- WFM
- FMB

*NOTE: Press the **FUNC** knob + **9 MOD** in Search mode to override modulation.*

### **Set Attenuator**

Press the **FUNC** knob + **7 ATT** to turn on attenuation for an individual search bank.

If a strong signal source exists near the desired frequency or at the image frequency, it may interfere with the desired frequency's reception. Turning on ATT weakens the received signal but may improve communication clarity. Normally, use it with OFF.

Press and hold the **FUNC** knob + **7 ATT** to toggle global attenuators.

*NOTE: During a search, press the **FUNC** knob + **7 ATT** to override this setting.*

### **Set Record**

This setting allows a live audio output from the Record Out Jack (REC) to an audio recording device.

On — the scanner outputs audio signals.

Off — the scanner does not output any audio signals.

### **Set Digital Waiting**

This setting gives the scanner time to determine if a transmission is digital or analog. During this time, the scanner evaluates the signal and, if it detects a digital signal, it immediately opens squelch. If a digital signal is not detected

before the delay expires, the scanner opens squelch at the end of this delay. This prevents “false decode” problems (digital noise at the beginning of transmissions). The default setting is 400 ms. This setting only affects channels with an Audio Type set to ALL.

*NOTE: Any analog transmissions on channels with Audio Type set to ALL will lose the first part of the transmission, up to the wait time set here.*

### **Quick Search**

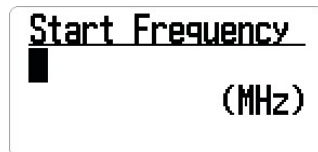
Set a starting frequency to begin a search. There are two methods to start a Quick Search:

#### **Method 1:**

1. Press **HOLD** while the radio is scanning or searching to stop it on a specific frequency.
2. Press **the FUNC knob + SCAN/SEARCH** to begin scanning from that frequency. Turn the Scroll knob to change search directions.

#### **Method 2:**

1. Select **MENU/Search for.../Quick Search**. The *Start Frequency* screen displays.



2. Enter the beginning search frequency and press **E Yes** to set it. The radio begins scanning.

When you enter a frequency to start a quick search, the scanner automatically rounds the entered number up to the nearest valid frequency. For example, if you enter 151.473 MHz, the scanner starts searching at 151.475 MHz.

However, if you enter an invalid frequency, *Out of Band* displays and the scanner beeps three times. Press any key to go back to the previous screen and enter a valid frequency. See page 32.

*NOTE: Use the Scroll knob to move the cursor to edit the frequency one number at a time or press . **No** twice to delete the entire frequency and enter a valid one. You can also turn the Scroll knob to change the search direction.*

### **Set Quick Search**

Select *Set Quick Search* from **MENU/Search For...** to establish search parameters (delay time, attenuation, digital recording access, and digital waiting). These settings are per service, not per frequency.

### **Set Delay Time**

For: 0, 1, 2, 5, 10, 30 seconds:

Select the time to stay on that frequency after the transmission ends. Press **E Yes** to save and exit.

*NOTE: You can wait for a delayed reply to that transmission. If set to 0, the search starts as soon as transmission ends; if there is a reply after 1 second, you may miss it. Increasing this time will slow down the overall search.*

For: -2, -5, -10, -30 seconds:

If negative values are set for a frequency, the scanner stays on that frequency for the set amount of time after receiving a signal. For example, if you set this value to -2 seconds, you will only hear the first 2 seconds of a 10-second transmission.

Scroll to the desired delay time and press **E Yes** to save and exit.

### **Set Attenuator**

Push the **FUNC** knob + **7 ATT** to add attenuation to Quick Search.

If a strong signal source exists near the desired frequency or at the image frequency, it may interfere with reception of the desired frequency. Turning on attenuation weakens the received signal but may improve communication clarity. Normally, use it with OFF.

Push the **FUNC** knob + **7 ATT again** to toggle the attenuator ON/OFF; push and hold the **FUNC** knob + **7 ATT** to toggle global attenuation.

### **Set Record**

This setting allows a live audio output from the Record Out Jack (REC) to an audio recording device.

- On — the scanner outputs audio signals.
- Off — the scanner does not output any audio signals.

### **Set Digital Waiting**

This setting gives the scanner time to determine if a transmission is digital or analog. During this time, the scanner evaluates the signal and, if it detects a digital signal, it immediately opens squelch. If a digital signal is not detected before the delay expires, the scanner opens squelch at the end of this delay. This prevents “false decode” problems (digital noise at the beginning of transmissions). The default setting is 400 ms. This setting only affects channels with an Audio Type set to All.

*NOTE: Any analog transmissions on channels with Audio Type set to ALL will lose the first part of the transmission, up to the wait time set here.*

## Set SRCH 1 - 3 Keys

The scanner has three **SRCH** keys to which you can assign special search ranges. The search keys are set to number keys **1**, **2**, and **3**. This allows you to start a custom search, weather channel scan, tone-out search, or band scope service search without having to go into the menus.

1. To program a Search key, press **MENU**.
2. Scroll to *Search for...* and press **E Yes**.
3. Scroll to *Set SR1-3 Keys* and press **E Yes**.
4. At *Select SR Key*, select a SRCH key (**SRCH 1**, **SRCH 2**, or **SRCH 3**) and press **E Yes**.
5. The *Select Item* screen displays the SR key's programmable options:
  - (Not Assign)
  - Custom Search
  - Weather Channels
  - Tone-Out
  - Band Scope
  - Public Safety
  - Media
  - Ham Radio
  - Marine
  - Railroad
  - Airband
  - CB Radio
  - FRS/GMRS/MURS
  - Racing
  - FM Broadcast
  - Military Air
  - Custom 1 - 3
6. Select an option for the **SRCH** key and press **E Yes**.
7. Repeat for any other **SRCH** keys you want to program.

Default settings are:

- **SRCH 1**: Custom 1
- **SRCH 2**: Public Safety Search
- **SRCH 3**: Band Scope Mode

*NOTE: If you want to leave a **SRCH** key blank (unassigned), select Not Assign. An error tone sounds if you select a **SRCH** key that has nothing assigned.*

## **PRIORITY SCAN**

*NOTE: Set up channels first to be Priority channels in order to use Priority Scan. See page 36 to set a channel as a Priority channel. Priority Scan works in both Scan and Scan Hold mode.*

Based on the priority check interval setting (see page 50), the BCD260DN interrupts scanning banks to check priority channels for activity. The more priority channels, the longer the interruption. The scanner cannot scan over 100 priority channels at the same time. The bank(s) containing priority channels need to be enabled and unlocked or the scanner displays *Priority Scan No Channel* and an error tone will sound. Press any key to return to scan mode.



Hold on a channel or frequency. Then, from **MENU**, select *PRIORITY SCAN*.



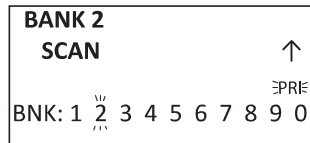
### **Set Priority**

Select one of the following Priority Scan modes:

- Off: The Priority feature is off.
- On: The scanner checks priority channels every 2 seconds. The PRI icon displays.



- Plus On: The scanner only scans priority channels in enabled banks. The PRI icon blinks.



- DND: The scanner inhibits priority checking when receiving.



During Scan, press the **PRI** key to change modes in the following order:

DND → ON → Plus → OFF →DND →

### Set Interval

Set how often the scanner checks priority channels.

1. From **MENU/Priority Scan**, select *Set Interval* and press **E Yes**.
2. Enter the number of seconds (1 - 10) and press **E Yes** to save.

### MaxCHs/PRI-SCN

Sets the maximum number of priority channels that can be scanned during a single priority scan interrupt. If there are more priority channels than the value set here, the channels are divided into groups and each group is scanned in turn. For example, if the maximum of channels to scan is 20 and there are 100 priority channels, the scanner checks those 100 channels in groups of 20 and takes 5 intervals to complete the priority scan.

1. From **MENU/Priority Scan**, select *MaxCHs/PRI-Scan* and press **E Yes**.
2. Enter the number of channels to be checked (1 - 100) and press **E Yes** to save and exit.

## WEATHER (WX) OPERATION

Your scanner allows you to search for a local NOAA weather broadcast and set it to alert when a SAME weather alert is broadcast on a NOAA weather channel. You can also program FIPS codes into the scanner and use weather alert priority to check the weather channel every 5 seconds for a weather alert signal.

1. To edit Weather Options, begin by pressing **MENU**. Scroll to *WX Operation* and press **E Yes**. The following options display:

Weather Scan	Weather Alert	Program SAME
Set Delay Time	Set Attenuator	Set Record
WX Alt Priority		

2. Scroll through the options and press **E Yes** to select one.
3. Press **SCAN/SEARCH** to return to scanning when editing is complete.

## WEATHER SCAN

The scanner starts scanning the preprogrammed weather frequencies and stops on the first good signal. If the signal is lost, the scanner resumes searching for another weather transmission.

*NOTE: You can also turn on weather scan by pressing the **WX** key for 3 seconds in Scan or Search modes.*

1. From **MENU/WX Operation/Weather Scan**, press **E Yes**. The scanner begins scanning the WX channels, stopping when there are transmissions.
2. Press **SCAN/SEARCH** to exit.

In Weather Scan mode, if you want to:

- Search for another weather channel, turn the Scroll knob.
- Start Weather Alert, press the **WX** key. The *Weather Alert* screen displays; scroll to *Alert Only*, *SAME 1-5*, or *All FIPS* and press **E Yes**.
- Return to Weather Scan from Weather Alert, press the **WX** key. The *WX Operation* screen displays. Select *Weather Scan*.
- Turn Intermediate Frequency Exchange on or off, press the **FUNC** knob and then **4 IFX**.
- Turn the attenuation on or off, press the **FUNC** knob then **7 ATT**. You can also use **MENU/WX Operation/Set Attenuator**.
- Save a frequency, press **E Yes**. See page 32.
- Go to the *Weather Operation* menu in any weather mode; press the **FUNC** knob then **MENU**.

## WEATHER ALERT

This setting turns on weather alerts and determines which types of signals will trigger that alert. It mutes the scanner and only scans the weather channel

*NOTE: You can also turn on Weather Alert in Weather Scan mode by pressing the **WX** key. Scroll to *Alert Only*, *Same 1-5*, or *All FIP*, then press **E Yes**.*

1. From **MENU/WX Operation**, scroll to *Weather Alert* and press **E Yes**.

2. Scroll to 1 of 7 options and press **E Yes**.

*Alert Only* - The scanner immediately sounds a weather alert siren when it detects the 1050 Hz weather alert tone, then opens squelch and remains on that weather channel.

*SAME 1-5* - The scanner sounds a weather alert siren for the programmed county, then opens squelch and remains on that weather channel.

*All FIPS* - The scanner sounds a weather alert siren for any programmed county, then opens squelch and remains on that weather channel.

## **PROGRAM SAME GROUPS**

SAME (Specific Area Messaging System) is a system developed by the National Weather Service (NWS) to reduce the number of alerts received by consumers by allowing them to hear alerts only for the county(ies) they are interested in. Each alert contains information about the type and severity of the alert, as well as the specific geographic locations affected by the alert. In addition, certain special regions and wildcard settings can be assigned. Your scanner can receive all SAME alert signals broadcast within about a 50-mile radius of where you use it.

To receive SAME alerts and broadcasts about weather occurring only in particular counties within that area, you can program up to 5 groups of 8 FIPS codes (40 codes) into the scanner's memory. This lets you avoid hearing an alert that applies to an area within a 50-mile radius but not necessarily to your county or parish.

For the purpose of broadcasting weather information, the NWS has divided the United States into regions by state and county (or parish, where applicable) then assigned a 6-digit FIPS code to identify each county or parish. For example, the code for Tarrant County, Texas, is 048439. The first digit in a FIPS code identifies the county subdivision, the next two digits identify the state, and the last three digits identify the county or parish. Most FIPS codes begin with 0, which means the code represents an entire county. The NWS, however, plans to eventually subdivide some large counties. When that happens, each subdivision will be assigned a digit from 1-9, resulting in codes such as 148439, 248439, and so on.

To get the FIPS code for the location where you installed your scanner, call the NWS toll free at 1-888-697-7263 and follow the instructions you hear.

FIPS codes are in the format nSSCCC:

**n**: A special subcounty designator. For an entire county, use 0.

**SS**: The state code.

**CCC**: The county code.

1. Scroll to **MENU/WX Operation/Program SAME** and press **E Yes**.



2. At *Select SAME*, scroll to a SAME group (1-5) and press **E Yes**.
3. Select *Edit Name* to change the default SAME name from SAME X to another name. Press **E Yes**.
4. Select *Edit County* and press **E Yes**. Code number selections display.
5. Select a code number (No. 1 - No. 8) and press **E Yes**.
6. At *Edit FIPS Code*, enter the FIPS code and press **E Yes** to save and exit.
7. Scroll to the next code number and repeat.
8. Press **MENU** twice to return to the *Select Same* screen and select a different SAME group.
9. Press **MENU** to save and exit.

## SET DELAY TIME

Sets the number of seconds the scanner should wait after a transmission stops before moving on to the next channel during weather scan. A negative delay will force a resume after that number of seconds. The default setting is 2 seconds.

1. Scroll to **MENU/WX Operation/Set Delay Time** and press **E Yes**.
2. Scroll to the desired delay time (-10, -5, -2, 0, 1, 2, 5, 10, or 30 secs.), then press **E Yes** to save and exit.

## SET ATTENUATOR

Sets the attenuator (20 dB) for weather operation. The default setting is Off.

1. Scroll to **MENU/WX Operation/Set Attenuator** and press **E Yes**.
2. Select *On* or *Off* and press **E Yes** to save and exit.

*NOTE: You can also toggle attenuation for weather scan by pressing the **FUNC** knob then **7 ATT**.*

3. Press **MENU** to return to the previous menu.

## SET RECORD

This setting allows a live audio output from the Record Out Jack (REC) to an audio recording device.

1. From **MENU/WX Operation**, scroll to *Set Record* and press **E Yes**. The *Set Record* screen displays.
2. Select *On* to allow the scanner to output audio to a connected recording device or *Off* to not allow audio output.

## WX ALERT (ALT) PRIORITY

Turning on weather alert priority allows the scanner to check weather channels every 5 seconds for a 1050 Hz weather alert signal and still scan or search. If you receive an alert, you will hear a loud warbling sound and then the weather channel audio. *WX* displays when Weather Alert Priority is on.

### **WARNING! Alert notifications are broadcast at full volume.**

1. Scroll to *WX Alt Priority* and press **E Yes**. *On* and *Off* display.
2. Select *On* or *Off* and press **E Yes** to save and exit to the *WX Operation* screen.

*NOTE: Press the WX key to toggle WX Alert Priority in Search and Scan modes.*

## TONE-OUT FOR...

This feature allows the scanner to monitor up to 10 different channels for paging tones:

- Two-tone sequential
- Single tone
- Group tone

*NOTE: Use Tone-Out Standby mode if you know and use programmed tones. Use Tone-Out Search Mode if you do not know and use programmed tones.*

1. Go to **MENU/Tone-Out for...** and press **E Yes**. The *Tone-Out for...* screen displays 2 options:

Select *Tone-Out Standby* if you know and use programmed tones. The active *Tone-Out Search* screen displays.

Select *Tone-Out Setup* if you don't know the tones.

2. Scroll to *Tone-Out Setup*, and press **E Yes**. The *Select Tone-Out* screen displays 10 Tone-Out options.
3. Scroll to *Tone-Out X* and press **E Yes**. Six settings for the specified Tone-Out display:
  - Edit Name
  - Set Frequency
  - Set Tone
  - Set Delay Time
  - Set Alert
  - Set Record

4. Scroll to *Edit Name* and press **E Yes**. Enter the tone-out name and press **E Yes**.
5. Scroll to *Set Frequency* and press **E Yes**. The *Set Frequency* menu displays 3 options: *Edit Frequency*, *Set Modulation*, and *Set Attenuator*.
6. At *Edit Frequency*, press **E Yes**. Enter the frequency to monitor for Tone-Out and press **E Yes** to save and exit.
7. Scroll to *Set Modulation* and press **E Yes**.
8. Select *Auto*, *NFM*, or *FM* and press **E Yes** to save and exit.
9. Scroll to *Set Attenuator* and press **E Yes**.
10. Scroll to *On* or *Off* and press **E Yes** to save and exit.
11. Press **MENU** to return to *Tone-Out X* options.
12. Scroll to *Set Tone* and press **E Yes**.

*NOTES: For two-tone pages, enter the tones (in Hz) for Tone A and Tone B.*

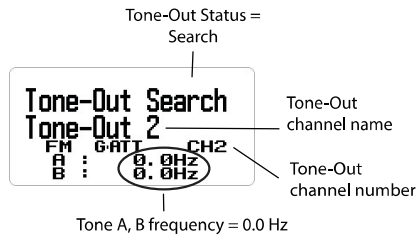
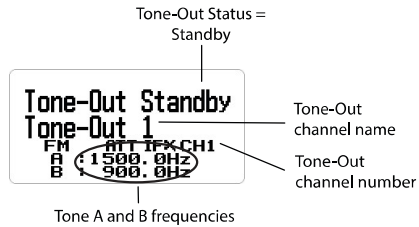
*For one-tone pages using short tones between 1.25 and 3.75 seconds, enter tone for tone A and 0 for B.*

*For long-tone pages, such as group pages of more than 3.75 seconds, enter 0 for A and the tone for B.*

To search for tones, leave the tones for A and B at 0.

1. From *Set Tone*, scroll to *Edit Tone A* and press **E Yes**.
2. Enter the tone and press **E Yes** to save and exit.
3. Scroll to *Edit Tone B* and press **E Yes**.
4. Enter the tone and press **E Yes** to save.
5. Press **MENU** to return to *Tone-Out x* options.
6. Scroll to *Set Delay Time* and press **E Yes**.
7. Scroll to one of the following settings and press **E Yes** to save and exit.
  - *0* - the scanner resumes standby as soon as the carrier drops after a page.
  - *1, 2, 5, 10, 30* (seconds) - the scanner resumes standby mode after the carrier drops and the selected time expires.
  - *Infinite* - you must press **HOLD** after a page to resume standby mode.
8. Scroll to *Set Alert* and press **E Yes**.
9. Scroll to *Set Alert Tone* and press **E Yes**.
10. At *Set Alert Tone*, scroll through the options (*Off* or *Alert 1 - 9*) and press **E Yes** once you have selected one. The scanner sounds each tone as you scroll through them. *Set Level* displays.

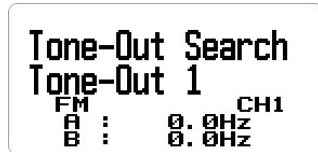
11. At *Set Alert Level*, scroll to *Level 1 - Level 15* to hear volume levels or *Auto* (the scanner sets the alert beep to the master volume level) and press **E Yes**. *Set Alert* displays again.
12. Scroll to *Set Alert Light* and press **E Yes**. The *Set Pattern* menu displays.
13. Scroll to *Off, On, Slow Blink, or Fast Blink* and press **E Yes**. If a pattern is selected (not *Off*), the *Set Color* screen displays.
14. Select a screen color (the screen changes to the color selected) and press **E Yes**. The *Set Alert* screen displays again.
15. Press **MENU** twice and then repeat these steps to program more tones.



## USING TONE-OUT STANDBY/SEARCH

(See Setting Up Tone-Out first, page 54.)

1. Press **MENU**. Scroll to *Tone-Out for...* and press **E Yes**.
2. Scroll to *Tone-Out Standby* and press **E Yes**. The *Tone Out* screen displays.



**NOTE:** You can also assign Tone-Out to 1 of 3 Search (**SRCH**) keys.

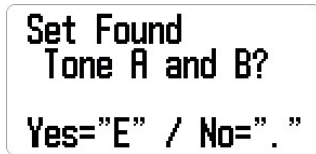
3. The Tone-Out name, channel number (1-10), and tone settings display. Any transmission received on that frequency will not be heard but you will still see signal strength bars.

All Tone-Outs (channels) that have the same frequency (and modulation/attenuation) as the one you select will also (and only) be monitored so you can monitor up to 10 Tone-Out channels for one frequency. In this case, the scanner displays each Tone-Out channel for two seconds. It does not scan them; Tone-Out monitors the frequency for all Tone-Out channels with the same frequency. Regardless of the current display, the scanner will alert on any received Tone-Out that matches a stored setting (channel) for the frequency.

If you press **HOLD** while in Standby/Search mode, the scanner temporarily exits Tone-Out mode and you will be able to hear any transmissions on that frequency. No alerts sound, even if a Tone-Out matches one you have programmed in Hold mode. Press **HOLD** again to return to Standby/Search mode.

### IN TONE-OUT STANDBY MODE

- To select another Tone-Out, turn the Scroll knob.
- To save found tones in Tone-Out Search mode, press **E Yes at Set Found Tone A and B?**
- To turn Intermediate Frequency Exchange on or off, push the **FUNC** knob, then press **4 IFX**.
- To turn attenuation on or off, push the **FUNC** knob, then press **7 ATT**.
- To toggle modulation, push the **FUNC** knob, then press **9 MOD**.



Set Found  
Tone A and B?  
Yes="E" / No="."

### BAND SCOPE MODE

Band Scope mode searches a frequency range and displays the signal level in real time. The screen displays the frequency increasing in value from left to right, and a signal strength meter displays for signals. You can set the center frequency and frequency range span. In Hold mode, you can monitor the displayed frequency.

The scanner rapidly sweeps between the endpoints of the selected frequency range and updates each bar segment with the relative signal strength in each pass. Use the band scope in normal mode (the bars are all updated with the

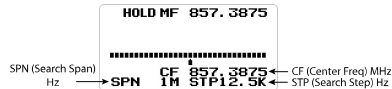
most recent signal strength) or Max Hold mode (the bars update only if there is a stronger signal than one previously stored for the current position).

This feature allows you to get a “picture” of spectrum activity across the selected range, identify intermittently active frequencies, check antenna performance, check coax quality, and identify interference.

## USING BAND SCOPE MODE

To start Band Scope mode, press **HOLD** on any channel or frequency and then press the **FUNC** knob + **3 SRCH 3**. This frequency becomes the center frequency. Band Scope mode is assigned to this Search Key (**3 SRCH**) by default.

Press **.** **No** to access the Search Span (**SPN**), Center Frequency (**CF**) and Search Step (**STP**) fields in order. Press **L/O** to exit.

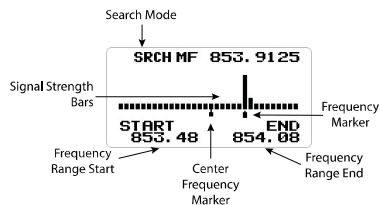


*NOTE: Band Scope mode can only be activated via the **SRCH 3** key.*

Band Scope has the following three modes:

- Search (SRCH)
- Max Hold Search Mode (MAX)
- HOLD (Hold)

### Search Mode (SRCH)



“SRCH” displays and the scanner searches and displays the frequency range signals in real time. The frequency range is shown in bars determined by the center frequency and span. While searching, the center frequency marker (which shows the current frequency) blinks. The scanner starts from the lowest frequency of the frequency range and searches to the highest frequency of that range. If the scanner finds a transmission, it displays the most current signal level in the bar for each frequency in the range.

The center frequency marker flashes during Searching and Max Hold Searching.

When you move the marker with the Scroll knob, the frequency of the signal strength bar displays above the marker.

When you turn the Scroll knob, the marker usually moves according to the preset step (STP). (See page 61 to change the search step.)

If the sweep range is set wide, a single bar will contain multiple frequency ranges. This is why the marker moves slowly even when you turn the Scroll knob. If you want to pinpoint the frequency, set the span range narrower. (See page 61 to change the span range.)

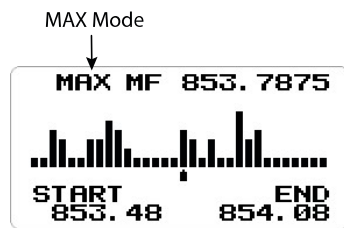
*NOTE: If you want to listen to the signal at the marker position, see page 59.*

*NOTE: When scanning a band with a wide occupied frequency such as FM broadcast, multiple bars appear due to the separation.*

Press the **FUNC** knob then **L/O** to move the marker back to the center frequency position. Doing this clears the history and restarts scanning from the beginning.

### Max Hold Search Mode (MAX)

If you want to switch to MAX Hold Search mode, press the **FUNC** knob + **SCAN/SEARCH** to toggle between SRCH mode and MAX Hold Search mode.



“Max” shows in the display and will freeze the signal strength bars at their strongest signals.

To toggle between Search mode and Max Hold Search mode, press the **FUNC** knob + **SCAN/SEARCH**.

## HOLD Mode (HOLD)



“HOLD” displays and allows you to hold the sweep then scroll to and listen to that frequency. You can use the Scroll knob to move the frequency marker to other locations, including the center frequency, and listen to that frequency.

To toggle between Hold mode and Search/Max Hold Search mode, press **HOLD**.

Center frequency marker stops flashing in Hold mode.

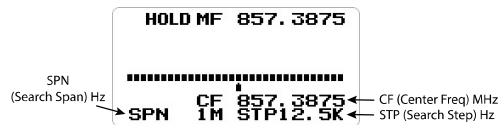
*NOTE: If the sweep range is set wide, a single signal bar will contain multiple frequency ranges. This is why the marker moves slowly even when you turn the Scroll knob.*

If you want to pinpoint the frequency, set the span range narrower. (See page 61.)

*NOTE: With MAX hold, the signal bar remains visible even with short duration signals. Therefore, even if you move the marker to that frequency, you may not be able to receive the signal because this is past information.*

To return the marker to the center frequency position while in HOLD mode, press the **FUNC** knob then **L/O**. Press **HOLD** to return to Search mode.

## Change Center Frequency



## Enter a Specific Frequency

1. To change the center frequency, press **.** **No** until **CF** is blinking then press **E Yes**. The *Edit Center Freq* menu displays.
2. Use the keypad to enter the new center frequency. Press **E Yes** to save and exit.

*NOTE: Setup mode automatically times out if there is no input for 10 seconds.*



### **Set Current Frequency Marker Position to Center Frequency**

1. Press **.** **No** until *CF* blinks.
2. To set the frequency at the frequency marker position as the center frequency, press **E Yes**. The *Edit Center Freq* menu displays.
3. Use the keypad to enter the center frequency; press **L/O** to exit if there are no additional settings.

### **Change the Search Span Range**

1. To change the search span, press **.** **No** until *SPN* is blinking.
2. Turn the Scroll knob to select 0.2 - 500 MHz; press **L/O** to exit. Set a span of 100, *CF* is at 50.

### **Change the Search Step**

1. To change the search step, press **.** **No** until *STP* is blinking.
2. Turn the Scroll knob to change the search step options on the screen. Stop at the desired search step.
3. Press **L/O** to exit.

### **Change Modulation**

1. Press the **FUNC** knob + **9 MOD** to access the modulation options. Keep pressing **9 MOD** quickly to cycle through the options. Normally, use the default **AUTO**.



*NOTE: When set to AUTO, a default modulation is automatically selected for each frequency.*

2. When you see the step setting you want, stop pressing **9 MOD**.

### **Change Attenuation**

1. Press the **FUNC** knob + **7 ATT** to toggle the attenuator on or off. Keep pressing **7 ATT** quickly to cycle through *On* and *Off*.



*NOTE: Press and hold 7 ATT to set global attenuation status. ATT blinks when global attenuation is set.*



2. When you see the setting you want, stop pressing **7 ATT**.

*NOTE: Press the **FUNC** knob to check the current modulation mode and attenuator settings.*

## SETTINGS

### SET BACKLIGHT

There are 5 different ways to use the backlight and 3 light intensities.

1. From **MENU/Settings**, select *Set Backlight* and press **E Yes**. The *Set Backlight* menu displays.
2. Scroll to *Set Dimmer* and press **E Yes** to select it. The *Set Dimmer* screen displays.
3. Select *Auto* (to set positive or negative polarity) or *Manual* (to set backlight intensity to *High, Middle, Low, or Off*). Press **E Yes** to select it, and then press **MENU** to return to the *Settings* menu.

See page 26 for detailed procedures.

### SET RX LED

Set RX LED to *On* for the BLUE LED to turn on when receiving a signal.

See page 27 for detailed procedures.

### ADJUST KEY BEEP

This setting turns key beep on and off and adjusts its volume level.

1. From **MENU/Settings**, scroll to *Adjust Key Beep* and press **E Yes**. The *Adjust Key Beep* screen displays.
2. Key beep options are *Auto* (the scanner sets the alert beep to the master volume level), *Level 1 - Level 15* (the scanner sounds the level as you scroll through the levels), and *Off*. Scroll to a selection and press **E Yes** to select it and return to the *Settings* menu.

See page 27 for detailed procedures.

## SET UPSIDE-DOWN

This setting controls the display orientation. When *On* is selected, the BCD260DN inverts the display's text and graphics. This allows the unit to be installed in an unconventional manner with the screen displaying normally.

See page 27 for detailed procedures.

## ADJUST CONTRAST

This setting controls the display's contrast.

See page 27 for detailed procedures.

## BAND DEFAULTS

This setting allows you to change the "Auto" (default) values to whatever you feel "Auto" should be for each band (vs. the radio defaults). Since all of the step and modulation settings default to "Auto," this allows you to skip those settings when programming.

*NOTE: These settings do not affect service searches.*

See page 28 for detailed procedures.

## FACTORY RESET

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

1. From **MENU/Settings**, scroll to *Factory Reset* and press **E Yes**. *Cancel* and *OK* display.
2. Select *OK* to reset the scanner to factory settings or *Cancel* to return to the *Settings* menu. Press **E Yes**.
3. If you reset the scanner to factory settings, the power will turn off after the data is erased and restored to factory settings.

*NOTE: To save the settings, Uniden recommends using the BCDX60DN SS program to back them up before resetting. Refer to [www.uniden.com](http://www.uniden.com) for BC\_VUP software.*

## FIRMWARE VERSION

This menu allows you view the firmware version, the serial number, and the checksum. Uniden recommends that you download and install the latest firmware upgrade for the scanner if you don't already have it.

1. From **MENU/Settings**, scroll to *Firmware Version* and press **E Yes**.
2. The firmware version, serial number, and checksum display.
3. Press **MENU** to return to the *Settings* menu.

## OTHER OPERATIONS

### VIEWING THE DIGITAL DECODER ERROR RATE

1. To view the digital decoder error rate, push the **FUNC** knob + **VOL** knob.

*NOTE: A smaller ERR: number means fewer errors. This mode never times out.*

2. Press the **FUNC** knob + **VOL** knob to exit this mode.

### UPDATE FIRMWARE USING PC

From time to time, Uniden will release firmware updates to improve existing functionality, add new features, or address issues found in its operation. Updating the firmware takes just a few minutes and is easily accomplished using Sentinel software.

BC\_VUP software is available for download through the BCD260DN's product page at [www.uniden.com](http://www.uniden.com), Customer Support. BC\_VUP connects to the internet and checks for the current firmware version to download.

After downloading the BC\_VUP software to your PC, simply connect your scanner to your PC using the supplied USB cable. Then, in BC\_VUP, select Model/Version and follow the on-screen prompts.

## HOW DO I . . . ?

How Do I . . . ?	Set Up	Do This
Assign channels		Go to: <b>MENU/Program Channel</b> . Select the bank you want to use for the custom service and name it. Select <i>Edit Channel</i> . The next menu selections let you assign a frequency to a channel in the selected bank and adjust that channel's settings. See page 72 for details.
Start scanning		Press <b>SCAN/SEARCH</b> .
Pause and restart scanning		Press <b>HOLD</b> to pause scanning. Press <b>HOLD</b> again to resume scanning.

How Do I . . . ?	Set Up	Do This
Scan a different bank than the current bank.	Be in Scan mode.	Press <b>0 - 9</b> to turn off the banks you do NOT want to scan. The scanner will scan the active banks.
Scan Weather Channels		Press <b>MENU/WX Operation/Weather Scan</b> .
Create a Quick Search	Be in Scan mode or Tone-Out mode.	Press the <b>FUNC</b> knob and <b>SCAN/SEARCH</b> key. The scanner begins scanning all frequencies.
Create a Custom Search		Go to <b>MENU/Search For.../Edit Custom</b> . Select a custom Search (1 - 10) and enter the lower and upper limits.
Search Service Channels		Go to: <b>MENU/Search For.../Service Search</b> . Scroll through the service types and select one to search. These service frequencies are preloaded into the BCD260DN.
Create a Custom Service Search	Search the internet for specific service frequencies you want.	Go to: <b>MENU/Program Channel</b> . Select a bank to program your specific search frequencies into. Edit the name to something that is appropriate to the service frequencies you are entering. Next, select <i>Edit Channel</i> . Scroll to an empty channel and enter the service search frequency there.
Set a channel as a Priority Channel	Hold on a channel/frequency.	Go to <b>MENU/Priority Scan/Set Priority</b> .

# APPENDIX A

## BAND DEFAULTS

Frequency Range	Step (kHz)	Mode	Band	Frequency Range	Step (kHz)	Mode	Band
25.000-26.9600	5	AM	Petroleum	174.0000-215.9500	50	WFM	VHF TV
26.9650-27.4050	5	AM	CB Class D Channel	216.0000-224.9800	20	NFM	1.25 Meter Ham
27.4100-27.9950	5	AM	Business/Forest	225.0000-379.9750	25	AM	UHF Air
28.000-29.6800	20	NFM	10 Meter Ham	380.0000-399.9875	12.5	NFM	Military
29.7000-49.9900	10	NFM	VHF Low	400.0000-405.9875	12.5	NFM	Miscellaneous
50.000-53.9800	20	NFM	6 Meter Ham	406.0000-419.9875	12.5	NFM	Federal
54.0000-71.9500	50	WFM	VHF TV	420.0000-449.9875	12.5	NFM	70 cm Ham
72.0000-75.9950	5	FM	Astronomy	450.0000-469.9875	6.25	NFM	UHF Standard
76.0000-87.9500	50	WFM	VHF TV	470.0000-512.0000	12.5	NFM	UHF TV
88.0000-107.9000	100	FMB	FM Broadcast	758.0000-775.99375	6.25	NFM	Public Service
108.0000-136.9916	8.33	AM	Commercial Air	793.0000-805.99375	6.25	NFM	Public Service
137.000-143.9875	12.5	NFM	Military Land Mobile	806.0000-823.9875	12.5	NFM	Public Service
144.0000-147.9950	5	NFM	2 Meter Ham	849.0125-868.9875	12.5	NFM	Public Service
148.0000-150.7875	12.5	NFM	Military Land Mobile	894.0125-960.0000	12.5	NFM	Public Service
150.8000-161.9950	5	NFM	VHF High	1240.0000-1300.0000	12.5	NFM	23 cm Amateur Band
162.0000-173.9875	12.5	NFM	Federal				

Frequency Range	Step (kHz)	Mode	Band	Frequency Range	Step (kHz)	Mode	Band
<p><i>NOTE: When you select AUTO for a channel or mode's modulation or step, these values are used UNLESS you have edited the Band Defaults. Although television bands are listed, the scanner does not decode digital TV audio.</i></p>							

## WEATHER CHANNELS

Channel	Frequency	Channel	Frequency
1	162.5500	5	162.4500
2	162.4000	6	162.5000
3	162.4750	7	162.5250
4	162.4250		

## SAME EVENT CODES

Standard	Event Code	Warning	Watch	Advisory	Description
ADR	Administrative Message			○	Admin Message
AVA	Avalanche Watch		○		Avalanche
AVW	Avalanche Warning	○			Avalanche
BHW	Biological Hazard Warning	○			Biological
BWW	Boil Water Warning	○			Boil Water
BZW	Blizzard Warning	○			Blizzard
CAE	Child Abduction Emergency			○	Child Emergency
CDW	Civil Danger Warning	○			Civil Danger
CEM	Civil Emergency Message	○			Civil EMG
CFA	Coastal Flood Watch		○		Coastal Flood
CFW	Coastal Flood Warning	○			Coastal Flood
CHW	Chemical Hazard Warning	○			Chemical
CWW	Contaminated Water Warning	○			Contam. Water
DBA	Dam Watch		○		Dam Break
DBW	Dam Break Warning	○			Dam Break

Standard	Event Code	Warning	Watch	Advisory	Description
DEW	Contagious Disease Warning			○	Contagious
DMO	Practice/Demo			○	System Demo
DSW	Dust Storm Warning	○			Dust Storm
EAN	Emergency Action Notification	○			EMG Notify
EAT	Emergency Action Termination			○	EMG Terminate
EQW	Earthquake Warning	○			Earthquake
EVA	Evacuation Watch		○		Evacuate Note
EVI	Immediate Evacuation	○			Evacuate Note
EWV	Extreme Wind Warning	○			Extreme Wind
FCW	Food Contamination Warning	○			Food
FFA	Flash Flood Watch		○		Flash Flood
FFS	Flash Flood Statement			○	Flash Flood
FFW	Flash Flood Warning	○			Flash Flood
FLA	Flood Watch		○		Flood
FLS	Flood Statement			○	Flood
FLW	Flood Warning	○			Flood
FRW	Fire Warning	○			Fire
FSW	Flash Freeze Warning	○			Flash Freeze
FZW	Freeze Warning	○			Freeze
HLS	Hurricane Statement			○	Hurricane
HMW	Hazardous Material Warning	○			Hazardous
HUA	Hurricane Watch		○		Hurricane
HUW	Hurricane Warning	○			Hurricane
HWA	High Wind Watch		○		High Wind
HWW	High Wind Warning	○			High Wind
IBW	Iceberg Warning	○			Iceberg
IFW	Industrial Fire Warning	○			Industrial Fire



Standard	Event Code	Warning	Watch	Advisory	Description
LAE	Local Area Emergency			○	Local EMG
LEW	Law Enforcement Warning	○			Law Enforce.
LSW	Land Slide Warning	○			Land Slide
NAT	National Audible Test			○	National Audible
NIC	National Information Center			○	National Info
NMN	Network Notification Message			○	Network Message
NPT	National Periodic Test			○	Nation Period
NST	National Silent Test			○	Nation Silent
NUW	Nuclear Power Plant Warning	○			Nuclear Plant
POS	Power Outage Advisory			○	Power Outage
RHW	Radiological Hazard Warning	○			Radiological
RMT	Required Monthly Test			○	Monthly
RWT	Required Weekly Test			○	Weekly
SMW	Special Marine Warning	○			Special Marine
SPS	Special Weather Statement			○	Special WX
SPW	Shelter In-Place Warning	○			Shelter
SSA	Storm Surge Watch		○		Storm Surge
SSW	Storm Surge Warning	○			Storm Surge
SVA	Severe Thunderstorm Watch		○		Thunderstorm
SVR	Severe Thunderstorm Warning	○			Thunderstorm
SVS	Severe Weather Statement			○	Severe WX

Standard	Event Code	Warning	Watch	Advisory	Description
TOA	Tornado Watch		O		Tornado
TOE	911 Telephone Outage Emergency			O	911 Phone Outage
TOR	Tornado Warning	O			Tornado
TRA	Tropical Storm Watch		O		Tropical Storm
TRW	Tropical Storm Warning	O			Tropical Storm
TSA	Tsunami Watch		O		Tsunami
TSW	Tsunami Warning	O			Tsunami
TXB	Transmitter Backup On			O	TX Backup On
TXF	Transmitter Carrier Off			O	TX Carrier Off
TXO	Transmitter Carrier On			O	TX Carrier On
TXP	Transmitter Primary On			O	TX Primary On
VOW	Volcano Warning	O			Volcano
WFA	Wild Fire Watch		O		Wild Fire
WFW	Wild Fire Warning	O			Wild Fire
WSA	Winter Storm Watch		O		Winter Storm
WSW	Winter Storm Warning	O			Winter Storm
**A	Unrecognized Watch		O		Unrecognized
**E	Unrecognized Emergency			O	Unrecognized
**S	Unrecognized Statement			O	Unrecognized
**W	Unrecognized Warning	O			Unrecognized

Continuous Tone Coded Squelch System (CTCSS) and Digital Coded Squelch (DCS) are two methods used to prevent interference by other radio communications. Your scanner can receive transmissions that use these codes.

CTCSS and DCS systems all use some form of coded squelch. Coded squelch involves the transmission of a special code signal along with the audio

of a radio transmission. A receiver with coded squelch only activates when the received signal has the correct code. This lets many users share a single frequency, and decreases interference caused by distant transmitters on the same channel. In all major metropolitan areas of the United States, every available radio channel is assigned to more than one user.

## CTCSS TONES

The scanner can detect the following 50 CTCSS tones.

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

## DCS CODES

The scanner can detect the following 112 hexadecimal DCS codes.

006	007	015	017	021	023	025	026
031	032	036	043	047	050	051	053
054	065	071	072	073	074	114	115
116	122	125	131	132	134	141	143
145	152	155	156	162	165	172	174
205	212	214	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

## APPENDIX B - MENU STRUCTURE

### PROGRAM CHANNEL MENU

The *Program Channel* menu series allows you to set up channel banks, assign frequencies to channels, and set channel characteristics.

From MENU/Program Channel/Select Bank					
Select Bank (Bank 1 - Bank 10)	Edit Name	Text entry screen			
	Edit Channel, then Select Channel	Edit Name	Text entry screen		
		Edit Frequency	Frequency entry screen		
		Set Audio Type	All		
			Digital Only	Search Set Color Code Set NEXEDGE RAN Set IDAS Area	
			Analog Only	Search CTCSS DCS Set Lockout	
Set Modulation	Auto AM NFM FM WFM FMB				

From MENU/Program Channel>Select Bank				
Edit Channel, then Select Channel (Cont.)	Set Delay Time	-10, -5, -2, 0, 1, 2, 5, 10, 30 seconds		
	Set Attenuator	On, Off		
	Set Priority	On, Off		
	Set Alert	Set Alert Tone: Off Alert 1 - 9	Set Alert Level: Auto Level 1 - 15	
		Set Alert Light: Off On Slow Blink Fast Blink	<i>NOTE: If On is selected, the Set Color menu displays. See page 10 for a complete list of color options.</i>	
	Set Record	On Off		
	Set Lockout	Unlocked Temporary L/O Lockout		
	Volume Offset	-3, -2, -1, 0, 1, 2, 3		
	Digital Waiting	In ms: 1, 100, 200 - 1000		
	Clear Channel	Confirm		
Copy Bank	Confirm Copy Bank			
Clear Bank	Confirm Clear Bank			

## SEARCH OPTIONS MENU

Search Options let you set up 3 searchable options:

- Freq Lockouts
- Broadcast Screen
- Tone/Code Search

From MENU/Search Options			
Freq Lockouts	Unlock All Rvw Search L/O		
Broadcast Screen	Set All Band On	On	
	Set All Band Off	Off	
	Set Each Band	Pager FM UHF TV VHF TV NOAH WX Band 1 - 10	
	Program Band	Band 1 - 10	Set Upper Limit Set Lower Limit
Tone/Code Search	Off CTCSS Color/Ran/Area		

## SEARCH FOR... MENU

This menu lets you establish characteristics for different searches.

- Service Search
- Set Service List
- Edit Service
- Custom Search
- Edit Custom
- Quick Search
- Set Quick Search
- Set SR1-3 Keys

From MENU/Search For. . .			
Service Search	Public Safety Media Ham Radio Railroad Air Band CB Radio FRM/GMRD/MURS Racing FM Broadcast Military Air Custom 1 - 3		
Set Service List	Public Safety Media Ham Radio Railroad Air Band CB Radio FRM/GMRD/MURS Racing FM Broadcast Military Air Custom 1 - 3	<i>NOTE: Each option allows you to edit the name and to select an option/bank from that service category.</i>	
Edit Service	Delay Time Attenuator Record Digital Waiting		
Custom Search	Searches established custom searches		
Edit Custom	Select a custom list and select characteristics to edit/ set.		

From MENU/Search For. . .			
Quick Search	Enter Start Frequency Enter End Frequency		
Set Quick Search	Set Delay Time Set Attenuator Digital Waiting		
Set SR1 - 3 Keys	Select an SR key	Set characteristic to edit/set. Not Assign Custom Search Weather Channel Tone Out Band Scope Public Safety Ham Radio : Custom 1 - 3	

## PRIORITY SCAN MENU

Priority Scan checks the priority channels every 2 seconds during normal scanning. The scanner can scan up to 100 priority channels. If there are more than 100 priority channels, only the first 100 will be scanned. If there are no priority channels or all priority channels are locked out, *Priority Scan No Channel* displays.

From MENU/Priority Scan			
Set Priority	Off On Plus On DND (Do Not Disturb)		
Set Interval	1 - 10 seconds		
MaxCHs/Pri-Scan	1 - 100 channels		



## WX OPERATION MENU

See page 49 for details about weather operation.

WX Operation establishes weather scanning settings.

- Weather Scan
- Weather Alert
- Program SAME
- Set Delay Time
- Set Attenuator
- Set Record
- WX Alt Priority

From MENU/WX Operation			
Weather Scan	(A WX scan begins)		
Weather Alert	Alert Only Same 1 - 5 All FIPS		
Program SAME	Alert Only		
	SAME 1 - 5	Edit Name	
		Edit County	Select Code No. 1 - 8 Edit FIPS Code
Set Delay Time	-10 -5 -2 0 1 2 5 10		
Set Record	On Off		
Set Attenuator	On Off		
WX Alt Priority	On Off		

## TONE-OUT FOR... MENU

See page 56 for details about Tone-Out operations.

Tone-Out refers to an emergency signal indicating that the emergency requires more personnel than are on duty. This menu sets parameters for the actual physical tone-out tone.

- Tone-out Standby
- Tone-Out Setup

From MENU/Tone Out For. . .				
Tone-Out Standby	Go to Tone-Out mode			
Tone-Out Setup	Tone-Out 1- 10	Edit Name		
		Set Frequency	Edit Frequency Edit Modulation Set Attenuator	
		Set Tone	Edit Tone A	
			Edit Tone B	
		Set Delay Time	0, 1, 2, 5, 10, 30 sec Infinity	
		Set Alert	Set Alert Tone	Tone: Off, Alert 1 - 9 Level: Auto, 1 - 15
			Set Alert Light	Off On (See page 79 for a list of color options.) Slow Bink Fast Blink
		Set Record	On Off	

## SETTINGS MENU

The Settings menu establishes certain physical items regarding the scanner:

- Set Backlight
- Set RX LED
- Adjust Key Beep
- Set Upside-down
- Adjusting Contrast
- Band Defaults
- Factory Reset
- Firmware Version

From MENU/Settings		
Set Backlight	Set Dimmer	Auto (If Auto selected, <i>Set Polarity</i> menu displays to set positive or negative polarity.) Manual - (If Manual selected, <i>Select Dimmer</i> menu displays to set the dimmer brightness level to High, Middle, Low, or Off.)
	Set Color	Select one of the following colors for the screen backlight: <ul style="list-style-type: none"> <li>• Cyan</li> <li>• Yellow</li> <li>• White</li> <li>• Blue</li> <li>• Red</li> <li>• Magenta</li> <li>• Green</li> </ul>
Set RX LED	On Off	• If ON is selected, the RX LED light turns blue when transmissions are received.
Adjust Key Beep	Auto Level 1 - 15 Off	
Set Upside-down	On Off	

From MENU/Settings		
Adjust Contrast	Contrast 1 - 15	
Band Defaults	Select a band from list of bands and their defaults. Next, set modulation: AM NFM FM VFM FMB	Set Step
Factory Reset	Cancel OK	
Firmware Version	Displays firmware version, SN, and CHECKSUM.	

# TECHNICAL SPECIFICATIONS

Band Coverage: 31 Bands

Certified in accordance with FCC Rules and Regulations Part 15 Sub-part C  
as of date of manufacture

Antenna Impedance: 50  $\Omega$

Power Requirements: DC 11.0V ~ 16.6V (Ext. DC Power Jack or DC Power  
Jack)

Size (without antenna, knob, brackets, and other projections):

7.24 in (W) x 5.94 in (D) x 2.2 in (H) (without antenna, knob, brackets,  
and other projections)

184 mm (W) x 151 mm (D) x 56 mm (H) (without antenna, knob,  
brackets, and other projections)

Weight: 3.2 lbs. (1.5 kg.) (Without antenna and brackets)

Operating Temperature: Nominal: - 4° F (- 20° C) to + 140° F (+ 60° C)

Storage Temperature: - 22° F (- 30° C) to + 158° F (+ 70° C )

LCD Display: 64 x 128 Full Dot Matrix LCD

LED Indications: RX LED: Blue

Alert LED: Red

Internal Speaker: 8  $\Omega$ , 5 W Max. 77mm  $\emptyset$

Weather Channels: 7 Channels

External Jacks: Antenna Jack: BNC Type

Headphone Jack: 3.5mm  $\emptyset$  (Stereo Type\*)

Ext. SP Jack: 3.5mm  $\emptyset$  (Monaural Type)

REC Out Jack: 3.5mm  $\emptyset$  (Stereo Type\*)

DC Power Jack: 5.5mm  $\emptyset$  (Center Positive)

\*NOTE: Audio does not play in stereo.

USB Jack: 5-pin mini Type B

External DC Power/ORG Wire Jack: 3-Pin (Center Orange Wire)

Sensitivity (12dB SINAD)

VHF Low Band 1

(AM)	25.005 MHz	0.49 $\mu$ V
(NFM)	40.840 MHz	0.36 $\mu$ V
(NFM)	53.980 MHz	0.33 $\mu$ V

#### VHF Low Band 2

(WFM)	54.050 MHz	0.73 $\mu$ V
(FM)	72.515 MHz	0.26 $\mu$ V
(FMB)	107.500 MHz	0.53 $\mu$ V

#### Aircraft Band

(AM)	118.800 MHz	0.35 $\mu$ V
(AM)	127.175 MHz	0.36 $\mu$ V
(AM)	135.500 MHz	0.36 $\mu$ V

#### VHF High Band 1

(NFM)	138.150 MHz	0.32 $\mu$ V
(NFM)	161.985 MHz	0.35 $\mu$ V
(NFM)	173.225 MHz	0.36 $\mu$ V
(WFM)	197.450 MHz	0.66 $\mu$ V
(NFM)	216.020 MHz	0.29 $\mu$ V

#### VHF High Band 2

(AM)	225.050 MHz	0.36 $\mu$ V
(AM)	272.950 MHz	0.37 $\mu$ V
(AM)	315.050 MHz	0.37 $\mu$ V

#### UHF Band

(AM)	325.050 MHz	0.35 $\mu$ V
(NFM)	406.875 MHz	0.28 $\mu$ V
(NFM)	511.9125 MHz	0.29 $\mu$ V

#### Public Service Band

(NFM)	758.0125 MHz	0.33 $\mu$ V
(NFM)	806.000 MHz	0.34 $\mu$ V
(NFM)	857.150 MHz	0.31 $\mu$ V
(NFM)	954.9125 MHz	0.30 $\mu$ V

#### 1200MHz Band

(NFM)	1299.925 MHz	0.48 $\mu$ V
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#### Hum & Noise

##### VHF Low Band 1

(AM)	25.005 MHz	43 dB
(NFM)	40.840 MHz	44 dB

VHF Low Band 2		
(WFM)	54.050 MHz	53 dB
(FM)	72.515 MHz	50 dB
(FMB)	107.500 MHz	60 dB
Aircraft Band		
(AM)	127.175 MHz	43 dB
VHF High Band 1		
(NFM)	161.985 MHz	43 dB
(NFM)	173.225 MHz	44 dB
(WFM)	197.450 MHz	53 dB
VHF High Band 2		
(AM)	272.950 MHz	44 dB
UHF Band		
(AM)	325.050 MHz	45 dB
(NFM)	406.875 MHz	44 dB
Public Service Band		
(NFM)	758.0125 MHz	44 dB
(NFM)	857.150 MHz	44 dB
1200 MHz Band		
(NFM)	1299.925 MHz	43 dB

Audio Output Power:

At 8Ω speaker Jack

2.6W @ FM, FMB and NFM bands

2.7W @ AM bands

2.5W @ WFM bands

At 32Ω stereo headphone Jack

6mW @FM, NFM Bands

7mW @FMB, WFM Bands

10mW @AM Bands

Power Consumption @ 13.8VDC:

SQ Closed / Backlight White / High: 230mA

Full Audio Output / Backlight Off: 410mA

Ful Audio Output / Backlight White: 540mA

REC output voltage @ 600Ω Load (FM): 230mV

Orange Wire Operation: DC 3V ~ 16.6V (Less than 10mA)

Band Scope Function: Frequency Span: 0.2 ~ 500MHz

Frequency Step: 5 ~ 100kHz

NOTE: All data is Nominal.

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

Warranty Information

**WARRANTOR:** UNIDEN AMERICA CORPORATION (Uniden)

**ELEMENTS OF WARRANTY:** Uniden warrants, for one year, to the original retail owner, this Uniden Product to be free from defects in materials and craftsmanship with only the limitations or exclusions set out below.

**WARRANTY DURATION:** This warranty to the original user shall terminate and be of no further effect 12 months after the date of original retail sale.

The warranty is invalid if the Product is

- (A) damaged or not maintained as reasonable or necessary,
- (B) modified, altered, or used as part of any conversion kits, subassemblies, or any configurations not sold by Uniden,
- (C) improperly installed,
- (D) serviced or repaired by someone other than an authorized Uniden service center for a defect or malfunction covered by this warranty,
- (E) used in any conjunction with equipment or parts or as part of any system not manufactured by Uniden, or
- (F) installed or programmed by anyone other than as detailed by the Operating Guide for this product.

**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 representatives in connection with the performance of this warranty. THE 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 might not apply to you.

**LEGAL REMEDIES:** This warranty gives you specific legal rights, and you might also have other rights which vary from state to state.

This warranty is void outside the United States of America.

**PROCEDURE FOR OBTAINING PERFORMANCE OF WARRANTY:** If, after following the instructions in this Operating Guide you are certain that the Product is defective, pack the Product carefully (preferably in its original packaging). Include evidence of original purchase and a note describing the defect that has caused you to return it. The Product should be shipped freight prepaid, by traceable means, or delivered, to warrantor at:

Uniden America Corporation  
301 International Parkway, Suite 460  
Flower Mound, Texas 75022





