Uniden®

BearTracker 885

Owner's Manual

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

CONTENTS

UNIDEN CB + DIGITAL SCANNER
BearTracker 885

OVERVIEW

The BearTracker 885 combines Uniden's top-rated Bearcat CB communications technology and Uniden's most popular scanners. Once you know what public safety issues are ahead of you, you can talk to others in that area for advice on avoiding traffic backup and other delays.

IT'S A SCANNER -

The BearTracker 885 includes a database of all known public safety and DOT channels in the US and Canada. The included GPS allows the scanner to select channels in your area, wherever you are. We update the database weekly, so you can easily keep your BearTracker 885's database up-to-date using the BT885 Update Manager (see page 26). Listen to these safety channels and always be aware of what's ahead.

> ***The BearTracker 885 cannot receive encrypted or some proprietary types of digital systems***

The scanner feature operates alongside the unit's CB radio features. There is no switching back and forth between modes; just press a button and you're listening to Police channels, Fire department channels, etc., while standard CB channels are active.

AND A CB RADIO -

Like any CB radio, the BearTracker 885 opens communication between you and other travelers. This full-featured CB radio provides 40 channels, 4-Watt RF power, a 7-color display, an SWR meter for precision antenna tuning, RF Gain, Mic Gain, PA mode, Talkback, and NOAA weather channels with an Alert function. An ergonomic, noise-cancelling microphone enhances your transmissions, even in the noisy environment of a tractor-trailer cab.

> ***The Citizens Band Radio Service is under the jurisdiction of the Federal Communications Commission (FCC). Any***

adjustments or alterations which would alter the performance of the transceiver's original FCC type acceptance, or which would change the frequency determining method, are strictly prohibited.

Replacement or substitution of crystal, transistors, ICs, regulator diodes, or any other part of a unique nature, with parts other than those recommended by Uniden, may cause violations of the technical regulations in Part 95 of the FCC Rules or in violation of type acceptance requirements in Part 2 of the rules.

AND AN EARLY-WARNING SYSTEM

The BearTracker Warning System (BWS) alerts you whenever there is nearby public safety radio traffic. The radio detects the public safety vehicle's radio's low-power signals and alerts you if there are signals up to about 3 to 5 miles from your location. If you are using this in a commercial vehicle, it is NOT a radar detector but a completely legal public safety service scanner.

Some states restrict the use of scanners in vehicles. Please check your local state laws for any restrictions.

FEATURES

- 7-Color LCD Display
- Day/Night LCD Settings
- Weather Alert
- Squelch Control
- Weather Channel Scan
- Emergency Channel 9
- PA Function
- Wireless Mic Compatible
- Digital and Analog Police/Fire/Ambulance/DOT scanner
- Scan system types include conventional analog and digital, Motorola, LTR, EDACS, APCO P25 Phase I and Phase II
- Includes VHF, UHF, 700/800 MHz

- Quick avoid for unwanted channels
- Individually select types of channels to receive
- BearTracker Warning System
- SWR Meter
- CB/Scanner Audio Priority
- Antenna System Check
- Mic and RF Gain
- Talkback
- ANL/NB

WHAT'S IN THE BOX

Your BearTracker 885 contains the following:

- BearTracker 885 CB 2-way mobile radio
- Noise-Cancelling Microphone
- Mounting Bracket Kit
- DC Power Cord
- Window-Mount Antenna
- Micro-SD card and SD Card adapter (pre-installed)
- GPS Receiver/RJ11 cable
- Owner's Manual
- Part 95 Subpart D (FCC Rules)

If any items are missing or damaged, contact your place of purchase immediately.

CONTROLS AND FUNCTIONS
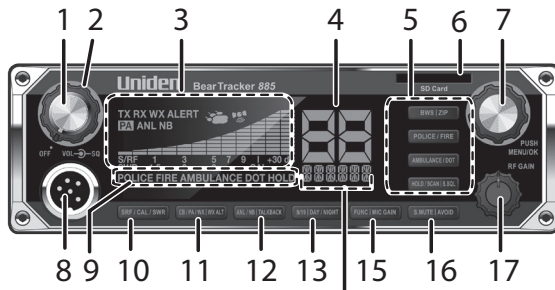
1. ***Volume Control*** knob with ***Power On/Off.*** Turn the knob clockwise until it clicks to turn power on. Continue turning the knob clockwise to increase the volume. Turn the ***Volume Control*** knob counterclockwise to decrease the volume or until it clicks to turn power off.
2. ***SQUELCH*** knob: Reduces background noise when there is no incoming signal (see page 15).
3. SRF/CAL/SWR Meter: Displays Receive signal strength, RF Power, and SWR reading.
4. Channel Number display.
5. Public Safety Channels/Functions (see page 19)
   - ***BWS|ZIP***
   - ***POLICE/FIRE***
   - ***AMBULANCE/DOT***
   - ***HOLD/SCAN|S.SQL***
6. SD Card Slot
7. ***MENU/OK|Channel Selector***. This knob accesses the menu system and changes selections for the menus. It also changes channels.

   All channels except Channel 9 may be used for normal communication. The FCC reserves Channel 9 for emergencies involving the immediate safety of individuals or protection of property. Use Channel 9 to render assistance to a motorist. This is an FCC rule and applies to all CB operators.

8. Microphone socket.
9. Indicates which public safety channels are active.
10. ***SRF/CAL/SWR***: Press to switch the display between Signal Strength / RF Mode, Calibration Mode, and SWR Mode (see page 26).

11. ***CB/PA/WX|WX ALT:*** Selects ***CB*** (Citizens Band) ***PA*** (Public Address), Weather, or Weather Alert.

    Do not use the PA function unless an external speaker is connected.

12. ***ANL/NB|TALKBACK:*** Controls ***ANL*** (Automatic Noise Limiter) and

NB (Noise Blanker) settings (on or off) *Talkback* lets you monitor yourself when transmitting (see page 18).

13. *9/19|DAY/NIGHT*: Press to switch between emergency channel 9, channel 19, and standard CB channels.
14. Frequency Display: Displays the MHz of the selected channel. Also displays menu options.
15. *FUNC|MIC GAIN:* Press once to access the second function of other buttons (indicated after the vertical bar on the button). Press twice to adjust Mic Gain (see page 18).
16. *S.MUTE|AVOID*: Scanner Mute mutes the voice from incoming transmissions. *AVOID* lets you put channels on a temporary avoid list so the scanner will skip them (see page 22).
17. *RF Gain*: Adjust Receive frequency (see page 15).
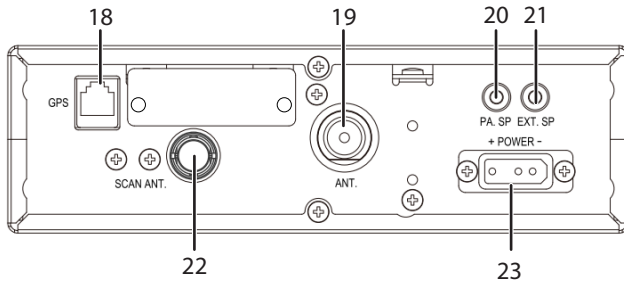
18. GPS Jack
19. CB Antenna socket: Connects antenna to the unit.
20. PA SP: Connects optional external 8-ohm, 4-watt speaker for use as a public address system.

    To prevent acoustic feedback, separate the microphone from the speaker when operating the PA at high output levels.

21. EXT. SP: Connects 8-ohm 4-watt speaker to remotely monitor receiver.

    When an external speaker is plugged in, the internal speaker is off.

22. Scanner Antenna Socket
23. POWER +12 VDC: Connects DC power to transceiver.

24. **PTT**: Push-to-Talk. Push microphone button.

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INSTALLATION

MOBILE INSTALLATION

Safety Notice

The antenna used for this radio must be properly installed and maintained. It must provide a separation distance of at least 16.92 inches (43 cm) from all persons and must not be collocated or operated in conjunction with any other antenna or transmitter. Never transmit if any person is closer than the specified distance to the antenna.

Note that Uniden does not specify or supply any CB antenna with this transceiver. While a 0 dBi gain antenna is normal for a typical installation, the above limit applies to any antenna with up to 3 dBi gain.

Plan the location of the transceiver and microphone bracket before beginning installation.

1. Select a location that is convenient for operating the radio but does not interfere with the driver or passenger.
2. Install bracket with self-tapping screws provided.
3. Connect the power cords, antennas, and GPS module (included).
4. Attach the microphone bracket to side of the radio or car dash. Hang the microphone in the bracket.
5. Insert radio into the bracket and secure it with the included knobs.

Antennas

CB

Because the maximum power output of the transmitter is limited by the FCC, the quality of your antenna is very important. To achieve the maximum transmission distance, Uniden strongly recommends that you install only a high quality antenna. You have just purchased a superior transceiver; don't diminish its performance by installing an inferior antenna.

Only a properly matched antenna system will allow maximum power transfer from the 50-ohm transmission line to the radiating element. Your Uniden dealer is qualified to help you select the proper antenna for your requirements. A whip style antenna may be used for automobile installation.

A short "loaded" whip antenna is easier to install on an automobile, but its efficiency is less than that of a full quarter-wave whip antenna.

Scanner

Your radio kit includes a window-mount antenna. Follow the directions included with the antenna for installation.

GPS Receiver

The GPS receiver provides location information so the radio can select local public safety channels from the scanner database.

1. Connect the RJ11 cable to the GPS receiver and to the radio. The GPS reciever automatically begins to acquire position information from the satellite.
2. The GPS icon, , dispays in about 1 minute when the radio receives GPS data. It remains on as long as GPS is connected and receiving position information. The icon goes away if the GPS disconnects and stops receiving position information.

Connecting the Power Cords

Uniden recommends connecting the power lead to the Ignition Switch Accessory Terminal. This way, the transceiver is automatically turned off when the ignition switch is turned off.

As an alternative, the power cord may be connected to an available terminal on the fuse block or to a point in the wiring harness. However, caution must be taken to prevent a short circuit. If in doubt, contact your vehicle dealer for information.

Ground Information

> *This transceiver may be installed and used in any 12-volt DC negative ground system vehicle.*

Negative Ground System

With a negative ground system, the negative (-) battery terminal is usually connected to the vehicle motor block.

Connect the red DC power cord from the transceiver to the positive (+) battery terminal or other convenient point. Then connect the black power cord to the vehicle chassis or negative (-) battery terminal.
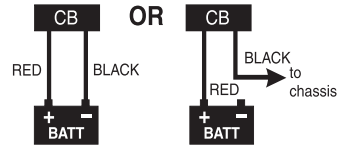
MARINE INSTALLATION

Consult your dealer for information regarding marine installation. It is important to adequately ground the system to prevent electrolysis between the fittings in the hull and the water.

SET UP BEARTRACKER 885

BEARTRACKER 885 INITIAL SETUP

1. Remove SD card.
2. Install the GPS unit.
3. Insert the SD card into your computer (you may need an SD card to USB adapter, not included). Update the database according to

procedures in the BearTracker Update Manager, page 26.

4. Remove the SD card from your computer and insert it back into the SD card slot on your BearTracker 885.

5. Turn unit on. $LOAD$ displays while the database on the SD card downloads.

6. After the database completes downloading, $NO\ POS$ displays under the channel numbers. Wait for the unit to acquire GPS data.

   If you are not using the GPS receiver, you must tell the unit what local channels to use. Enter your zip code (USA) or the first 3 digits of your Canadian postal code. See page 22.

7. Set volume to a comfortable level (**VOLUME** knob).

8. Select channel (**CHANNEL** knob).

9. Turn noise limitations on or off as desired (**ANL/NB|TALKBACK key**, see page 18).

10. Adjust CB Squelch (outer ring of **VOL/SQ** knob).
    - Turn **SQUELCH** fully clockwise to receive strong signals.
    - Turn **SQUELCH** fully counterclockwise until you hear a hiss. All get through — noise, weak signals, and strong signals.
    - Turn **SQUELCH** back clockwise until the hiss stops. Only clearer signals get through.

    Set SQUELCH only when the radio is not receiving a strong signal.

11. Adjust Scanner Squelch (see page 23).

12. Turn **RF Gain** knob clockwise to adjust RF Gain upwards and counter-clockwise to adjust RF Gain downwards. (CB mode only)

13. Adjust MIC Gain (see page 18).

14. Set LCD color (see page 23).

15. Set LCD contrast (see page 24).

16. Set LCD brightness (see page 24).

BASIC OPERATIONS

EMERGENCY OPERATION

1. Press **9/19|DAY/NIGHT** or turn **Channel Selector** knob to Channel 9.

2. Press **PTT** on the microphone and speak clearly.
3. If there is no response, select an active channel and ask that party to relay your emergency broadcast on Channel 9.

    All channels except Channel 9 may be used for normal communication. The FCC reserves Channel 9 for emergencies involving the immediate safety of individuals or protection of property. Use Channel 9 to render assistance to a motorist. This is an FCC rule and applies to all CB radio operators.

HOW IT WORKS

The CB, scanner, and weather features work together without having to change from one feature to another. For example, you can have CB active, Police enabled, and Weather Alert activated. Weather alerts have priority over CB and scanner operations, so if a weather alert is detected, a special alert tone sounds when you are not transmitting. You can also set whether CB or Scanner audio has priority through the menus (see page 25).

BASIC OPERATIONS

To Do This...	Do this...
Update the scanner radio channels to the latest version	See BearTracker Update Manager, page 26.
Set your location so that local scanner channels are selected	• If you are using the GPS receiver (included), be sure it is connected to the radio. Wait for it to aquire GPS location data. • If you are not using the GPS receiver, enter your location code (5-digit USA zip code or first 3-digits of your Canadian postal code). The radio accesses local channels from that area. See page 22. ***GPS data overrides zip codes and postal codes.***
Listen to weather channels	Switch to Weather mode (see page 17) and then turn on Scan (see page 19). The radio will stop on a channel with a signal.

To Do This...	Do this...
Listen to public safety channels	Press a public safety key on the radio. (See item #5 on page 9 and key descriptions on page 19.)
Decrease squelch so more CB signals can get through	Adjust the squelch knob (see page 15).
Adjust scanner's squelch level	See page 23 for procedures.
Set which mode has priority for voice signals	Set Audio Priority in Menus (see page 25).
Eliminate/reduce noise caused by your vehicle's electrical system	Check Automatic Noise Limiter and Noise Blanker levels (see page 18).
Change the LCD from day mode to night mode	Make this change using the Function key and 9/19|Day/Night key (see page 22).
Check/calibrate the antenna	See page 26 for procedures.

USING THE KEYS

SRF/CAL/SWR Key

This key checks incoming signal strength and received signal power or allows you to tune your antenna for best performance. See page 26 for operation details.

CB/PA/WX|WX ALT Key

This key lets you switch between CB, PA, and Weather modes. Enable/disable the Weather Alert function using the Function key (see page 21).

1. Press the key once. CB is enabled. $SCAN$ scrolls under the channel number.
2. Press the key again. PA is enabled and **PA** displays on the LCD. When you key the mic, PA replaces the channel number and audio goes to the PA speaker only. As long as the radio is in PA mode, any CB or scanner audio goes to the PA speaker.
3. Press the key a third time. Weather mode is enabled. **WX** displays on the LCD and the weather channel frequency number displays under the channel number. You can hear local weather

information from the national weather service.

4. From Weather mode, press the key again. CB is active again.

ANL/NB|TALKBACK Key

Controls ANL (Automatic Noise Limiter) and NB (Noise Blanker) features — ANL on, NB on, or both ANL and NB on or off. ANL reduces external noise and NB reduces interference from vehicle ignition systems. Talkback lets you monitor yourself when transmitting, and is accessed with the Function key (see page 21).

1. Press **ANL/NB|TALKBACK**. ᴀɴʟ displays (ANL function on).
2. Press the key again. ᴀɴʟ goes off (ANL function off) and ɴʙ displays (NB function on).
3. Press the key again. Both ᴀɴʟ and ɴʙ display (ANL and NB functions on).
4. Press the key again. both ᴀɴʟ and ɴʙ go off (ANL and NB functions off).

9/19|DAY/NIGHT Key

Press this key to switch to emergency service channels (9/19) and then back to the starting channel. Switch between day and night LCD display settings with the Function key (see page 22).

FUNC|MIC GAIN Key

If a key has the " | " symbol on it, the setting after that symbol cannot be changed until Function is enabled. Press this key once to enable Function operations. See page 21 for a description of this function and the operations that are enabled with it.

The MIC Gain setting adjusts the microphone's sensitivity. Levels are 1 (Low Gain) to 4 (High Gain).

1. Press **FUNC|MIC GAIN** twice then press and hold **PTT**. ᴍ-ɢᴀɪɴ and the current Mic Gain level (1 - 4) display.
2. Turn the channel selector knob to adjust microphone sensitivity, up to 100% modulation (1 - 4).
3. Release **PTT**. ᴍ-ɢᴀɪɴ and the MIC Gain level display for about 5

seconds and then returns to a normal display.

S. MUTE | AVOID Key

Press **S. MUTE** (Scanner Mute) to mute the voice from incoming signals. Press **FUNC** + **AVOID** to put a channel in an avoid list so future channel scans will ignore it (see page 22).

Public Safety Keys

The 4 keys indicated with #5 in the graphic on page 9 are:

- **BWS|ZIP**: Press this key to turn the BearTracker Warning System (BWS) on and off. If turned on, the ⬛ icon displays. BWS activates an alert if the radio detects nearby public safety transmissions. **ZIP**, used with the Function key, lets the radio find public safety channels near your location (see page 22).
- **POLICE/FIRE**: Press this key once to enable Police department transmissions, twice to enable Fire department transmissions, three times to enable both Police and Fire department transmissions, or four times to disable both Police and Fire transmissions.
- **AMBULANCE/DOT**: Press this key once to enable Ambulance transmissions, twice to enable Department of Transportation transmissions, three times to enable both Ambulance and Department of Transportation transmissions, or four times to disable both Ambulance and Department of Transportation transmissions.
- **HOLD/SCAN|S. SQL**: Press **HOLD/SCAN|S. SQL** to stop on an interesting scanner transmission. Press again to resume normal scanning. **S. SQL**, used with the Function key, selects between 3 squelch levels for scanner signals (see page 23).

WEATHER MODE (WX MODE)

Your radio combines a CB radio with a Weather radio and a Weather Alert system. You can hear weather information while in WX mode and weather alerts while in CB mode (see page 21).

1. Press **CB/PA/WX**|**WXALT** several times until **WX** displays. The

WX channel numbers (1-7) and their frequency number scan; Your radio is now in WX mode. When the radio receives WX transmissions, it will stop on that channel, display **RX WX** , and broadcast the received transmission.

2. To manually scan the WX channels, press **HOLD/SCAN|S.SQL** to stop scanning. Turn the **Channel Selector** knob to select a weather channel (1 - 7).

3. Press **HOLD/SCAN|S.SQL** again to resume scannning.

   You cannot change ANL or NB settings while in WX mode. The radio will sound an alert tone.

Set Weather Alert

Turn Weather Alert on using the Function key. When turned on, the radio sounds an alert tone and flashes an indicator if it detects a weather alert. See page 21 for activation information.

Set Weather Alert Scan

Weather Alert Scan allows the radio to move to the next weather channel if the signal is lost. Set WX Alert Scan to *ON* or *OFF* through the menus.

1. Press **MENU/OK** several times until *WXSCAN ON* displays.
2. Turn the channel selector to change between on and off (*ON, OF*) and then press **MENU/OK** to set it. The next menu item displays.

SCANNER FEATURE

The BearTracker 885's built-in scanner lets you:

- Change what's being scanned to match your location
- Listen to emergency services in your area (Police, Fire, Ambulance, DOT)
- Be notified when there is potential public safety activity in your area (BWS)
- TIP: DOT channels are often used for snow plows and other road crews. You might hear other agencies that are not as interesting when you are in and around a town, but out on the open road, you'll want to keep this on – especially in the winter or near construction zones.

FUNCTION KEY

Use the Function key to adjust other settings:

- WX Alert
- Talkback (CB mode)
- Day/Night
- Avoid
- ZIP (Scanner mode)
- Scanner Squelch (S. SQL)

Function + WX ALERT

When WX ALERT is turned on, **ALERT** displays.

If the radio is in CB mode and detects a weather alert tone, the WX channel number and **ALERT** flash and a loud alert tone sounds. If the radio is in PA mode and detects a weather alert tone, the radio cancels PA mode, goes to WX mode, and sounds a loud alert tone. Press any key to silence the alert tone.

Weather alert does not sound when the scanner is set to Weather mode.

1. In CB mode, press *FUNC|MIC-GAIN* and then press *CB/PA/WX|WX ALT* keys. **ALERT** displays; WX ALERT is turned on.
2. Press the keys again. **ALERT** goes away; WX ALERT is turned off

Function + TALKBACK

Talkback lets you hear yourself through the CB's speaker as you transmit. This helps confirm that you are fully pressing PTT and that the mic is working.

1. In CB mode, press *FUNC|MIC-GAIN* and then press *ANL/NB|TALKBACK* keys. TALK displays.
2. Press *PTT*. The radio displays the talkback level and the SRF meter.
3. Turn the channel selector knob to adjust the talkback volume level (00 - 15).
4. Press *MENU/OK* to save the selection. Release *PTT*. After 5 seconds, the radio sounds a confirmation tone and returns to a normal display.

5. Turn the Talkback volume level to 0 to not hear yourself through the CB's speaker.

Function + DAY/NIGHT

DAY/NIGHT lets you change between day and night LCD settings.

1. Press **FUNC|MIC-GAIN** and then press **9/19|DAY/NIGHT** keys. The LCD display changes from Day to Night, or from Night to Day.
2. Press the keys again to switch again. The radio sounds a confirmation tone and returns to a normal display.

> *Change the LCD settings through the menus, beginning on page 24.*

Function + AVOID

The **AVOID** key lets you temporarily skip channels you don't want to hear while scanning.

> *The Avoid list clears when the radio is turned off.*

1. While the radio is scanning and it stops on a channel you do not want to hear, press **FUNC|MIC-GAIN** and then press **S.MUTE|AVOID**.
2. When the radio resumes scanning, it will skip that channel.

Function + ZIP

ZIP lets you enter a ZIP or postal code and receive transmissions from that area.

> *If you have a GPS receiver installed, the radio will use the GPS location instead of the zip code/postal code.*

1. In CB mode, press **FUNC|MIC-GAIN** and then press **BWS|ZIP** keys. Five zeroes display, with the first zero blinking.
2. Turn the channel selector knob. The first 9 characters are 0-9, the next 26 characters are alpha A-Z. If you select a number, all 5 digits remain on the display for a US zipcode. If you select an alpha characters, 3 digits display for the first 3 characters of a Canadian postal code. Press **MENU/OK** as each digit is selected.

3. When all digits are selected, press **MENU/OK**; the radio sounds a confirmation tone and returns to a normal display.

Function + S. SQL

Select between 3 squelch levels for scanner signals.

1. In CB mode, press **FUNC|MIC-GAIN** and then press **HOLD/SCAN|S. SQL.** *S-SQL* and the current scanner squelch level (L1 - L3) display.
2. Turn the channel selector knob to adjust the squelch level.
3. Press the **MENU/OK** knob to save the setting and exit Menus.

MENUS

Access menus by pressing **MENU/OK**. The menu options, in order, are:

- D-COLOR - LCD color (Day)
- D-CONTRAST - LCD Contrast 0-15 (Day)
- D-BRIGHT - Brightness (Day)

> *The Night LCD Color, Contrast, and Brightness settings display after Brightness for Day LCD is set.*

- N-COLOR - LCD color (Night)
- N-CONT - LCD Contrast 0-15 (Night)
- N-BRIGHT - Brightness (Night)
- WXSCAN - Weather Alert Scan
- BWS ALERT - Set BearTracker Warning System alert volume
- AUDIO PRIORITY - Incoming signal priority

Press any other key to exit.

Select LCD Color

1. Press **MENU/OK** to access the menus. *D-COLO* displays with *D* for Day settings.
2. Turn **Channel Selector** to cycle through the available LCD colors. The selection number for that color displays in that color. The available colors are:

Option No:	Color	Option No:	Color
1	Blue	5	Magenta
2	Green	6	Yellow

Option No:	Color	Option No:	Color
3	Cyan	7	White
4	Red		

3. Press **MENU/OK** to select a color. The LCD Contrast option displays.

Set LCD Contrast

1. In Menu mode, turn **MENU/OK** several times until *D-CONT* displays.
2. Turn **Channel Selector** to cycle through the contrast options. (Lowest = 0; Highest = 15)
3. Press **MENU/OK** to select the one you want. The Set Brightness option displays.

Set Brightness

1. In Menu mode, press **MENU/OK** several times until *D-BRI* displays.
2. Turn **Channel Selector** to cycle through the brightness options. (Lowest = 01; Highest = 15)
3. Press **MENU/OK** to select the one you want. *N-COLO* displays with *N* for Night setting.

LCD Color, Contrast, and Brightness Settings for Night LCD

After choosing a brightness setting for day LCD, the next menus set color, contrast, and brightness for the night LCD. These settings activate when you set the LCD to NIGHT mode (see page 18).

Repeat Set LCD Color, Set LCD Contrast, and Set LCD Brightness for the night settings (see page 24). *N-COLO, N-CONT,* and *N-BRI* display in order.

Set Weather Alert Scan

1. In Menu mode, press **MENU/OK** several times until *WX SCAN* displays.
2. Turn **Channel Selector** to turn WX Alert Scan on or off
3. Press and hold **MENU/OK** to save your selection. The next menu option displays.

Set BWS Alert

The BearTracker Warning System (see page 19) activates when it detects nearby (up to 3 - 5 miles) public safety transmissions (Police, Fire, etc.). Set the alert volume level with this menu option.

1. In Menu mode, press **MENU/OK** several times until ⊞⊔⊆ ⊓⌶ displays.
2. Turn **Channel Selector** to select an alert volume level (L1 - L3).
3. Press **MENU/OK** when you have selected an option. The next menu option displays.

Set Audio Priority

Audio Priority sets the audio priorities when you receive both CB and Scanner audio at the same time. For example, if you have Scanner set to Priority and you are in CB mode, you will only hear the Scanner audio.

1. In Menu mode, press **MENU/OK** several times until ⌸⊔⌸⌿ displays.
2. Turn **Channel Selector** to select CB (⌸⌾), Scanner (⌾⌸), or No Priority (--) for priority.

   If -- is selected, both CB and Scanner signals will play at the same time.

3. Press **MENU/OK** when you have selected an option. The next menu option displays.

Set Tone

Turn TONE on for keys to sound a tone when pressed, or off for them to be silent.

1. In Menu mode, press **MENU/OK** several times until ⌶⌾⌻⌴ displays.
2. Turn **Channel Selector** to select on (⌾⌻) or off (⌾⌵).
3. Press **MENU/OK** when you have selected an option. The main screen displays again.

OTHER FEATURES

SRF/CAL/SWR Meter

You can check your incoming signal strength and output power as you use your BearTracker 885. The 12-column LCD display (refer to item number 3 on page 10) displays this data. Press and hold **PTT** on the microphone to see the RF output power levels. Release **PTT** to see incoming signal strength.

Antenna System Check

Check and calibrate the Standing Wave Ratio (SWR) to be sure your antenna system is properly tuned. Be sure to perform this check away from other vehicles and large structures.

1. Connect the antenna.
2. Turn **Channel Selector** to set a channel.
3. Press **SRF/CAL/SWR** until **CAL** displays on the LCD.
4. Press and hold **PTT**, then rotate the Channel Selector until the bar graph meter is at **CAL**. Release **PTT**.
5. Press **SRF/CAL/SWR** again until 5LＵR displays. Press **PTT** again to check the antenna's SWR. Note the SWR reading and release **PTT**. If the reading is > 1.5, follow your antenna's instructions to adjust the antenna length. Then, repeat this step.

> **The closer the reading is to 1.0, the better.**

BEARTRACKER UPDATE MANAGER

Uniden updates the BearTracker 885 frequency database every week using RadioReference.com's extensive frequency database. The BearTracker Update Manager's (BTOM) simple procedures make updating your radio as easy as 1-2-3 (remove the SD card - update the database through your PC to the SD card - reinstall the SD card).

1. Download and run the BearTracker Update Manager from www. uniden.com.
2. Turn off your radio. Remove the SD card.

3. Insert the SD card into your PC's SD card slot. If your PC does not have an SD card slot, insert it into an SD to USB converter (not included) and then into your PC's USB slot. An Autoplay dialog box displays. Close it.
4. Search for BT885_Update_Manager on your system. Select it, then click **Update** on the screen that displays.

5. The Select SD screen displays. Look for Uniden BT885-SCN and select it. Click **OK**.

6. The BTOM updates the SD card, showing progress bars through all the stages.
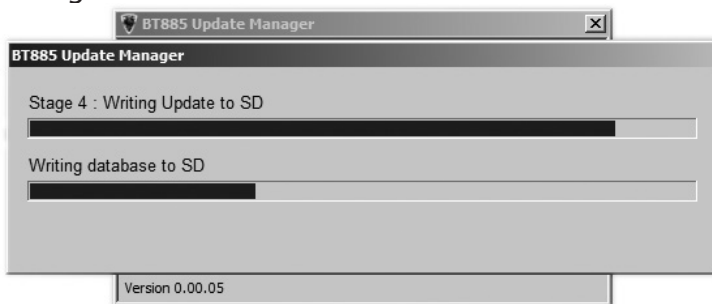
7. Close the screen when update is completed.
8. Remove the SD card from your PC and insert it back into your radio. Turn the radio back on; *LOAD* flashes on the screen while the

database is being updated. When the update is complete, $SCAN$ displays.

PREVENTIVE MAINTENANCE

Every six months:

1. Check the SWR.
2. Be sure all electrical connections are tight.
3. Inspect antenna coaxial cable for wear or breaks in shielding.
4. Be sure all screws and mounting hardware are tight.

MAINTENANCE

The BearTracker 885 is designed to give you years of trouble-free service. There are no user-serviceable parts inside. It requires no maintenance except replacing the inline fuse in the fuse holder of the DC power cord.

To replace a blown fuse:

1. Press ends of the fuse holder together. Twist to open. Carefully separate the two pieces.

2. Remove the fuse and inspect. If blown, replace with the same type 6-amp fuse.

   Use only the fuse specified for your BearTracker 885. Failure to do so may void your warranty.

TROUBLESHOOTING

In the event of system malfunction, perform the following procedures:

Problem	Suggestion
Unit does not power up	Check power cord connections. Check fuse. Check vehicle electrical system.
No reception	Check microphone connection. Set **CB/PA** to **CB**. Check **VOLUME** and **SQUELCH**. Check antenna. Check antenna connection. Adjust **RF Gain**.

Problem	Suggestion
Poor Reception	Check **VOLUME** and **SQUELCH**. Be sure antenna **SWR** is normal. Adjust **RF Gain**.
No Transmission	Set **CB/PA/WX|WX.ALT** to **CB**. Check microphone connection. Adjust **MIC Gain**.
Low Transmission	Adjust **MIC Gain**.
Unit does not work as well as previously.	Turn the power off then back on. The channels will reset.
No GPS Signal	Check RJ11 jack connections. Examine GPS module and look for any damage.

If you do not get satisfactory results after performing these checks, visit the Uniden website (www.uniden.com) for troubleshooting and FAQ information.

SERVICING YOUR TRANSCEIVER

It is the user's responsibility to see that this radio is operating at all times in accordance with the FCC Citizens Radio Service regulations. We highly recommend that you consult a qualified radio/telephone technician for servicing and aligning this CB radio product.

> *When ordering parts, be sure to specify the correct model number and serial number of the unit.*

SPECIFICATIONS

GENERAL	
Channel:	CB: 40 AM (4W) Scanner: FM Only
Frequency Range:	CB : 26.965 ~ 27.405 MHz SCN: 25 ~ 960 MHz WX : 162.400 - 162.550 MHz
Microphone	600 ohms, Dynamic Type
Internal Speaker	16 ohms, 5W Max
Emission	AM
Frequency Control:	PLL Synthesizer

Antenna Impedance:	50 ohms
Power Input:	13.8VDC
Current Drain	
No Modulation:	1300 mA Nom.
Max. Modulation:	1900 mA Nom.
Operating Temperature:	CB: -22°F to 140°F (-30°C to 60°C) Scanner/GPS: 14°F to 140°F (-10°C to 60°C)
Storage Temperature:	–40°F to 158°F –40°C to 70°C
Accessories:	DC Power Cord Noise Cancelling Microphone Microphone Hanger Mounting Bracket Owner's Manual Part 95 Subpart D (FCC Rules)
Size (W x H x D):	7.28 in. W x 8.1 in. H x 2.2 in. D (without knobs and jacks) (185 mm W x 205 mm H x 56 mm D)
Weight:	Approx 63.5 oz (1.8 kg.)
CB TRANSMITTER	
Output Power:	AM: 4 watts
Hum and Noise Ratio at –47dBm	40 dB
Frequency Tolerance:	±0.002%
Modulation Percentage (Peak):	100%
Spurious Rejection:	-70 dBc
Output Impedance:	50 ohm, unbalanced
Unwanted Sideband	-55 db
CB RECEIVER	
Sensitivity at 10 dB S/N:	–113 dBm
Sensitivity at 500 mW Audio Output:	0.5 µV
Squelch Threshold:	0.5 µV
Antenna Impedance:	50 ohms
Squelch Tight:	1000 µV
Signal Meter S-9:	100 µV
Audio Output Power (max.):	5 watts
Audio Output (10% Distortion):	2.5 watts
Clarifier Range	1.5 kHz

Adjacent Channel Rejection:	55 dB
Image Rejection:	65 dB Nom.
Internal Speaker Impedance:	16 ohms
External Speaker Impedance:	8 ohms
PUBLIC ADDRESS	
Output Power at 10% Distortion:	4 watts
Microphone Sensitivity @1kHz 10% Distortion:	5 mV Nom.
GPS	
Acquisition Time (GPS anechoic box input: −103 dB)	30 sec Nom.

Specifications shown are typical and subject to change without notice.

SCANNER

GENERAL	
Band Coverage	4
Frequency Range	Conventional Mode or Trunking Mode NFM or FM Band Frequency (MHz) 25.0000-54.000 137.000-225.0000 320.0000-512.0000 758.0000-960.0000
Memory System	No programming required; preset program. Factory programmed to microSD card for all known radio systems in US and Canada
Step Size	Auto (5/6.25 kHz)
GPS Function	GGA (Global Positioning System Fixed Data) RMC (Recommended Minimum Specific GNSS Data)
WX Alert	1050Hz

Trunking System	Motorola System (Type I, II, IIi, X2-TDMA) EDACS System (FM/NFM) LTR System APCO System [ASTRO IMBE, ASTRO 25.P25 AMBE(HDQPSK)]
Heterodyne System	
1st Heterodyne	
25.000 ~ 225.000 MHz	Upper Heterodyne 1st IF 380.75 MHz
320.000 ~ 511.995 MHz	Upper Heterodyne 1st IF 265.55 MHz
758.000 ~ 805.995 MHz	Lower Heterodyne 1st IF 265.55 MHz
806.000 ~ 960.000 MHz	Lower Heterodyne 1st IF 380.75 MHz
2nd Heterodyne	
25.000 ~ 225.000 MHz	Lower Heterodyne 2nd IF10.800 MHz
320.000 ~ 805.995 MHz	Upper Heterodyne 2nd IF 10.800 MHz
806.000 ~ 960.000 MHz	Lower Heterodyne 2nd IF 10.800 MHz
3rd Heterodyne	
All Bands	Lower Heterodyne 3rd IF450 MHz
Filter	
380.75 MHz	SAW filter 1st IF
265.55 MHz	SAW filter 1st IF
10.8 MHz	Ceramic Filter (BW ±75kHz) 2nd IF
450 kHz	Ceramic Filter (BW ±75kHz) 3rd IF

Weather Channels: 7 Channels

Scan Rate: 85 channels/second

Scan Delay: 2 seconds

Antenna: 50 ohms (Impedance)

CTCSS FREQUENCIES

The scanner can detect the following 50 CTCSS frequencies.

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 hexadecimal DCS codes.

023	025	026	031	032	036	043	047	051	053	054	065	071	072
073	074	114	115	116	122	125	131	132	134	143	145	152	155
156	162	165	172	174	205	212	223	225	226	243	244	245	246
251	252	255	261	263	265	266	271	274	306	311	315	325	331
332	343	346	351	356	364	365	371	411	412	413	423	431	432
445	446	452	454	455	462	532	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	665	703	712	723	731	732	734	743	754	
006	007	015	017	021	050	141	214						

Sensitivity (12dB SINAD) Nominal		

VHF Low 1 Band

NFM	25.0050 MHz	0.3 µV
NFM	40.8400 MHz	0.3 µV
FM	53.9800 MHz	0.3 µV

VHF High 1 Band

NFM	138.1500 MHz	0.4 µV
NFM	161.9850 MHz	0.3 µV
NFM	173.2250 MHz	0.3 µV
NFM	197.4500 MHz	0.3 uV
NFM	216.0200 MHz	0.3 uV

UHF Band

NFM	325.0500 MHz	0.3 µV
NFM	406.8750 MHz	0.3 µV

NFM	511.9125 MHz	0.3 μV

Public Service Band

NFM	758.0125 MHz	0.3 μV
NFM	806.0000 MHz	0.3 μV
NFM	857.1500 MHz	0.3 μV
NFM	954.9125 MHz	0.4 μV

Threshold Squelch (Manual)

VHF Low 1 Band

NFM	40.8400 MHz	0.2 μV
FM	53.9800 MHz	0.2 μV

VHF High 1 Band

NFM	127.1750 MHz	0.2 μV
NFM	161.9850 MHz	0.2 μV
NFM	272.9500 MHz	0.2 μV

UHF Band

NFM	406.8750 MHz	0.2 μV

Public Service Band

NFM	758.0125 MHz	0.3 μV
NFM	857.1500 MHz	0.3 μV

Tight Squelch (Manual) (S+N)/N

VHF Low 1 Band

NFM	40.8400 MHz	17 dB
FM	53.9800 MHz	22 dB

VHF High 1 Band

NFM	161.9850 MHz	17 dB
NFM	173.2250 MHz	17 dB
NFM	216.0200 MHz	17 dB

UHF Band

NFM	406.8750 MHz	18 dB

Public Service Band

NFM	758.0125 MHz	17 dB
NFM	857.1500 MHz	18 dB

Hum and Noise		
VHF Low 1 Band		
NFM	40.8400 MHz	43 dB
FM	53.9800 MHz	47 dB
VHF High 1 Band		
NFM	161.9850 MHz	41 dB
NFM	173.2250 MHz	42 dB
NFM	216.0200 MHz	42 dB
UHF Band		
NFM	406.8750 MHz	41 dB
Public Service Band		
NFM	758.0125 MHz	42 dB
NFM	857.1500 MHz	42 dB
Audio Frequency Response −6 dB		
NFM	40.8400 MHz	Low: 330 Hz High: 2100 Hz
FM	53.9800 MHz	Low: 340 Hz High: 2200 Hz
Audio Output Power		
NFM	40.8400 MHz	4 W
FM	53.9800 MHz	4 W
Distortionr		
NFM	40.8400 MHz	1.2%
FM	53.9800 MHz	1.8%
IF Rejection		
	IF = 380.75 Hz FM	84 dB

Specifications shown are typical and subject to change without notice.

FCC PART 15/IC COMPLIANCE

FCC COMPLIANCE

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.

Changes or modifications not expressly approved by the party responsible for compliance could void your authority to operate the equipment.

Avis de conformité à la FCC : Ce dispositif a été testé et s'avère conforme à l'article 15 des règlements de la Commission fédérale des communications (FCC). Ce dispositif est soumis aux conditions suivantes: 1) Ce dispositif ne doit pas causer d'interférences nuisibles et; 2) Il doit pouvoir supporter les parasites qu'il reçoit, incluant les parasites pouvant nuire à son fonctionnement.

Tout changement ou modification non approuvé expressément par la partie responsable pourrait annuler le droit à l'utilisateur de faire fonctionner cet équipement.

IC COMPLIANCE

This device complies with Industry Canada license-exempt 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. In Canada, a radio license must be obtained prior to possession and use of this scanner receiver.

Changes or modifications not expressly approved by the party responsible for compliance could void your authority to operate the equipment.

Cet appareil est conforme aux normes RSS exemptes de licences d'Industrie Canada. Son fonctionnement est soumis aux deux conditions suivantes : (1) cet appareil ne doit pas causer d'interférences nuisibles et (2), il doit pouvoir accepter les interférences, incluant celles pouvant nuire à son fonctionnement normal. Au Canada, l'obtention d'une licence est nécessaire avant d'acheter et de faire fonctionner ce scanneur.

Tout changement ou modification non approuvé expressément par la partie responsable pourrait annuler le droit à l'utilisateur de faire fonctionner cet équipement.

ONE-YEAR LIMITED WARRANTY

Important: Evidence of original purchase is required for warranty service.

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 one year 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 owner's manual 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 either, at its option, repair or replace the defective unit 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. Warrantor, at its option, may replace the unit with a new or refurbished unit. 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 may not apply to you.

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

PROCEDURE FOR OBTAINING PERFORMANCE OF WARRANTY: If, after following the instructions in the owner's manual you are certain that the Product is defective, pack the Product carefully (preferably in its original packaging). The Product should include all parts and accessories originally packaged with the Product. 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, to warrantor at:

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

RADIO CODE DEFINITIONS

The following list contains common "10-Codes" used by CB radio operators for faster communication and better understanding.

Code	Meaning	Code	Meaning
10-1	Received poorly	10-34	Trouble at this station
10-2	Receiving well	10-35	Confidential information
10-3	Stop transmitting	10-36	Correct time is
10-4	OK, message received	10-37	Wrecker needed at
10-5	Relay message	10-38	Ambulance needed at
10-6	Busy, stand by	10-39	Your message is delivered
10-7	Out of service, leaving air	10-41	Please turn to channel
10-8	In service, subject to call	10-42	Traffic accident at
10-9	Repeat message	10-43	Traffic tie up at
10-10	Transmission completed, standing by	10-44	I have a message for you
10-11	Talking too rapidly	10-45	All units within range please report
10-12	Visitors present	10-50	Break channel
10-13	Advise Weather/ Road conditions	10-60	What is next message number
10-16	Make pickup at	10-62	Unable to copy, use phone
10-17	Urgent business	10-63	Net directed to
10-18	Anything for us?	10-64	Net clear
10-19	Nothing for you, return to base	10-65	Awaiting your next message/assignment
10-20	My location is	10-67	All units comply
10-21	Call by telephone	10-70	Fire at
10-22	Report in person to	10-71	Proceed with transmission in sequence
10-23	Stand by	10-77	Negative contact
10-24	Completed last assignment	10-81	Reserve hotel room for
10-25	Can you contact	10-82	Reserve room for

Code	Meaning	Code	Meaning
10-26	Disregard last information	10-84	My telephone number is
10-27	I am moving to channel	10-85	My address is
10-28	Identify your station	10-91	Talk closer to microphone
10-29	Time is up for contact	10-93	Check my frequency on this channel
10-30	Does not conform to FCC rules	10-94	Please give me a long count
10-32	I will give you a radio check	10-99	Mission completed, all units secure
10-33	EMERGENCY TRAFFIC	10-200	Police needed at