

Spectralink 80-Series Handset

User Guide

with Spectralink Radio Protocol (SRP)

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Contents

Chapter 1: About this Guide	7
Spectralink Model Numbers	7
Product Support	7
Spectralink References	8
<i>Specific Documents</i>	8
Conventions Used In This Document	9
<i>Icons</i>	9
<i>Typography</i>	10
Chapter 2: Getting Started	12
Overview	12
Battery Packs	12
<i>Indications of low battery</i>	13
<i>Battery Pack removal and replacement</i>	13
<i>Notes on Battery Packs</i>	13
Features of your Spectralink 80-Series Handset	15
The Handset Display	17
<i>Status Icons</i>	17
<i>Softkeys</i>	18
<i>NavOK Functions</i>	19
<i>Menus</i>	19
<i>Config menu</i>	19
<i>Line menu</i>	19
<i>FCN menu</i>	20
Handset Modes	20
<i>Standby mode (on-hook)</i>	20
<i>Active mode (off-hook)</i>	20
<i>Push-to-talk (PTT) mode</i>	20
<i>Configuration menu mode</i>	21
<i>Message alert mode</i>	21
Accessories	21
<i>Carrying Options</i>	21
<i>Headsets</i>	21
Chapter 3: Customizing your Handset	22
Config Menu	22
<i>Default settings</i>	25
<i>Toggle options</i>	25
Lock Keys	25

User Profiles	26
<i>Set as Active</i>	26
<i>Ring Settings</i>	26
<i>Noise Mode</i>	27
<i>Ring in Headset/Speaker</i>	27
<i>Warning Tones</i>	27
<i>Key Tones</i>	27
Phone Settings	28
<i>Extension Info</i>	28
<i>Keypad Autolock</i>	28
<i>Display Contrast</i>	28
<i>Use Hearing Aid</i>	28
<i>Startup Song Play/Inhibit</i>	28
<i>Predial</i>	28
Push-to-Talk (PTT)	29
<i>Default Channel</i>	29
<i>Subscribed Channels</i>	29
<i>PTT Audio Volume</i>	29
<i>PTT Tone Volume</i>	29
<i>PTT Vibrate</i>	29
System Info	30
<i>Phone IP Address</i>	30
<i>Gateway IP Address</i>	30
<i>Firmware Version</i>	30
<i>Emergency Dial</i>	30
Chapter 4: Using Basic Features	31
<i>Turn the Handset On</i>	31
<i>Turn the Handset Off</i>	32
<i>Lock the Keypad</i>	32
<i>Unlock the Keypad</i>	32
<i>Place a Call</i>	32
<i>Place an Emergency Call</i>	32
<i>Answer or Reject a Call</i>	33
<i>Place a Call on Hold/Resume Call</i>	33
<i>Answer a Second Call</i>	33
<i>Clear Forwarding on a Line</i>	33
<i>Redial the Last Number you Dialed</i>	34
<i>Silence the Ringing</i>	34
<i>Change the Ring Volume</i>	34
<i>Adjust the Speaker Volume</i>	34
<i>Adjust the Headset Volume</i>	35
<i>Mute/Unmute a Call</i>	35

<i>End a Call</i>	35
<i>Change the Profile</i>	35
<i>Open the Config Menu</i>	35
<i>Turn on the Backlight</i>	35
Chapter 5: Using Advanced Features	36
<i>Place a Second Call</i>	36
<i>Place a Call on a Different Line</i>	36
<i>Listen to Voicemail</i>	36
<i>Activate Installed Custom Applications</i>	36
<i>Use the Phonebook and Speed Dial</i>	37
<i>Search for a phonebook entry</i>	37
<i>View a phonebook entry</i>	37
<i>Edit a phonebook entry</i>	38
<i>Dial phonebook number</i>	38
<i>Enter a new name and number in the phonebook</i>	38
<i>Delete a phonebook entry</i>	38
<i>Open the speed dial list from standby</i>	38
<i>Make a speed dial call</i>	39
<i>Assign a speed dial number</i>	39
Chapter 6: Using Push-to-Talk	41
<i>Make a PTT Call</i>	42
<i>Respond to a PTT Call</i>	42
<i>End a Wait Period</i>	42
<i>Select a Different PTT Channel</i>	42
<i>End One PTT Call and Start another on a Different Channel</i>	42
<i>Receive a PTT Call while on a Telephone Call</i>	42
<i>Use PTT Vibrate</i>	42
<i>Transmit on the Priority Channel</i>	43
<i>End a PTT Call</i>	43
<i>Change the PTT Volume</i>	43
<i>Answer a Telephone Call during a PTT Transmission</i>	43
<i>Start a Telephone Call during a PTT Transmission</i>	43
<i>Turn off PTT</i>	43
<i>Subscribe to additional PTT channels</i>	43
Chapter 7: Charger Options	44
Charger Models	44
<i>Install the Charger</i>	44
Charging Status Indicators	45
Single Charger	46

Dual Charger	47
Quad Charger.....	48
Appendix A: Cleaning and Drying the Handset	49
Appendix B: Safety Information	51
Industry Canada Notice.....	51
Chargers and Battery Packs	51
Handsets	52
<i>Operational Warnings.....</i>	<i>53</i>
Electromagnetic Interference and Compatibility	54
<i>Facilities</i>	<i>54</i>
<i>Pacemakers</i>	<i>54</i>
<i>Other Medical Devices</i>	<i>54</i>
<i>Use While Driving.....</i>	<i>54</i>
<i>FCC Statement.....</i>	<i>55</i>
Specific Absorption Rate (SAR) Information: Spectralink 80-Series Wireless	
Handsets	55
<i>Handset operation normal position</i>	<i>56</i>

Chapter 1: About this Guide

Thank you for choosing the Spectralink 80-Series Handsets with Spectralink Radio Protocol (SRP)¹. These handsets provide business telephony features and functions such as multiple call appearances, call hold, transfer, and conference over your Local Area Network. Your handset can call other telephone numbers and extensions within your facility as well as any external telephone number. Your handset will only work within your facility when it is in contact with the LAN. It will not work beyond the coverage area of the wireless LAN. Contact your system administrator if you have questions about your facility's boundaries.

In this User Guide, you will find everything you need to quickly use your new handset. If you have questions about features and functions customized for your facility, contact your system administrator. Please read the *Safety* section in this guide before you set up and use the Spectralink 80-Series Handset.

Spectralink Model Numbers

This document covers the following registered model numbers:

- 802X (Spectralink 8020 Handset)
- 803X (Spectralink 8030 Handset)
- PBP0850 (Standard Battery Pack)
- PBP1300 (Extended Battery Pack)
- PBP1850 (Ultra-Extended Battery Pack)
- PCS1850 (Desktop Charger)
- PCD1850 (Dual Charger)
- PCQ1850 (Quad Charger)

Product Support

Spectralink wants you to have a successful installation. If you have questions please contact the Customer Support Hotline at 1-800-775-5330.

The hotline is open Monday through Friday, 6 a.m. to 6 p.m. Mountain time.

For Technical Support: <mailto:technicalsupport@spectralink.com>

For Knowledge Base: <http://support.spectralink.com>

¹ SRP is Spectralink's proprietary signaling protocol used by the Spectralink 80-Series Handsets to send and receive telephone calls over the telephony system installed in your facility.

For Return Material Authorization: <mailto:nalarma@spectralink.com>

Spectralink References

All Spectralink documents are available at <http://support.spectralink.com>.

The screenshot shows the Spectralink Support website. At the top, there is a navigation bar with links for Partner Access, Spectralink.com, Contact Support, and a search icon. Below this is the Spectralink logo with the tagline 'solving every day' and the word 'support'. To the right of the logo are navigation links for PRODUCT RESOURCES, RMAs, SERVICE REQUESTS, and CUSTOMER MANAGEMENT. The main content area features a 'Welcome to Spectralink Support' message and a search prompt: 'Find resources for your product, or log in for more support options.' Below this is a 'PRODUCT RESOURCES' section with a search box for product documents and downloads. The search box includes dropdown menus for 'Product Category' (set to 'Wi-Fi') and 'Product Type' (set to '- Any -'), and a 'FIND' button. To the right of the search box are links for 'All Documents & Downloads', 'Feature Requests', 'Product Alerts', 'Service Policies', 'FAQs', and 'Contact Support'. Below the search section are two columns: 'RMAs AND SERVICE REQUESTS' and 'CUSTOMER MANAGEMENT', each with a lock icon. The 'RMAs AND SERVICE REQUESTS' column contains links for RMA Status, RMA Forms, RMA Requests, My Company's RMAs, My Service Requests, My Company's Service Requests, and Repair Pricing. The 'CUSTOMER MANAGEMENT' column contains links for Warranty and Entitlement Lookup, My Company's Entitlements, and Batch Warranty and Entitlement Lookup. At the bottom of the page, there is a copyright notice: '© 2013 Spectralink Corporation, All rights reserved. Terms and Conditions | Product Warranty'.

To go to a specific product page:

Select the Product Category and Product Type from the dropdown lists and then select the product from the next page. All resources for that particular product are displayed by default under the All tab. Documents, downloads and other resources are sorted by the date they were created so the most recently created resource is at the top of the list. You can further sort the list by the tabs across the top of the list to find exactly what you are looking for. Click the title to open the link.

Specific Documents

Spectralink 80-Series Handset Administration Guide for SRP

Spectralink 80-Series Regulatory Information

Conventions Used In This Document

Icons

Icons indicate extra information about nearby text.



Warning

The *Warning* icon highlights an action you must perform (or avoid) to avoid exposing yourself or others to hazardous conditions.



Caution

The *Caution* icon highlights information you need to know to avoid a hazard that could potentially impact device performance, application functionality, successful feature configuration and/or affect handset or network performance.



Note

The *Note* icon highlights information of interest or important information that will help you be successful in accomplishing a procedure or understanding a concept.



Tip

The *Tip* icon highlights information that may be valuable or helpful for users to know, such as special techniques, shortcut methods, or information that will make user tasks easier to perform.



Web

The *Web Info* icon highlights supplementary information available online such as documents or downloads on support.spectralink.com or other locations.



Timesaver

A time-saving tip is typically used to mention or highlight a faster or alternative method for users who may already be familiar with the operation or method being discussed.



Admin Tip

This tip advises the administrator of a smarter, more productive or alternative method of performing an administrator-level task or procedure.



Power User

A Power User Tip is typically reserved for information directed specifically at high-level users who are familiar with the information or procedure being discussed and are looking for better or more efficient ways of performing the task. For example, this might highlight customization of a feature for a specific purpose.



Troubleshooting

This element can be used in any type of document and is typically used to highlight information to help you solve a relevant problem you may encounter, or to point to other relevant troubleshooting reference information.



Settings

The Settings icon highlights information to help you zero in on settings you need to choose for a specific behavior, to enable a specific feature, or access customization options.

Typography

A few typographic conventions, listed next, are used in this guide to distinguish types of in-text information.

<i>Convention</i>	<i>Description</i>
Bold	Highlights interface items such as menus, soft keys, file names, and directories. Also used to represent menu selections and text entry to the handset.
<i>Italics</i>	Used to emphasize text, to show example values or inputs, and to show titles of reference documents available from the Spectralink Support Web site and other reference sites.
<u>Underlined blue</u>	Used for URL links to external Web pages or documents. If you click on text in this style, you will be linked to an external document or Web page.
Bright orange text	Used for cross references to other sections within this document. If you click on text in this style, you will be taken to another part of this document.
Fixed-width-font	Used for code fragments and parameter names.

This guide also uses a few writing conventions to distinguish conditional information.

<i>Convention</i>	<i>Description</i>
<MACaddress>	Indicates that you must enter information specific to your installation, handset, or network. For example, when you see <MACaddress>, enter your handset's 12-digit MAC address. If you see <installed-directory>, enter the path to your installation directory.
>	Indicates that you need to select an item from a menu. For example, Settings > Basic indicates that you need to select Basic from the Settings menu.

Chapter 2: Getting Started

Overview

The Spectralink 80-Series Handset is a Wi-Fi handset for workplace telephone systems. By seamlessly integrating with the facility's telephone system, wireless telephone users are provided with high-quality mobile voice communications throughout the workplace, giving users the freedom to roam throughout the workplace while providing the features and functionality of a wired desk phone.

The handsets will only work when they are within range of the wireless access points at your facility; they are not cellular or satellite phones.



Note

Install and charge the Battery Pack before using the Spectralink 80-Series Handset. See the [Battery Packs](#) section below and [Charger Options](#).

Battery Packs

Three battery pack models are available: Standard, Extended, and Ultra-Extended. The Standard rechargeable handset Battery Pack gives you approximately four hours of talk time or 80 hours of stand-by time. Stand-by time is when the handset is turned on, but not in an active call.

Type	Talk Time	Standby Time	Charging Time
Standard	4 hours	80 hours	2 hours
Extended	6 hours	120 hours	3 hours
Ultra-Extended	8 hours	160 hours	4 hours



Note

Talk time and standby time will vary depending on handset model, call server, features enabled and system configuration. These are minimum estimates. Your experience may be significantly higher.



Note

The type of Battery Pack is printed on the label. Remove the Battery Pack and view the label to determine the type of Battery Pack you have been issued.



Caution

Use only Battery Pack models BPL100, -200 and -300 in the Spectralink 80-Series Handsets.

Indications of low battery

The handset will need to have its Battery Pack recharged periodically. The Battery Pack icon on the handset display's status row indicates the amount of charge remaining. Additionally the handset will sound warning tones and display the **Battery Low** message when there are fewer than two minutes of talk time remaining.

A melody will play when the handset is powered on for the first time after being fully charged, unless this feature has been disabled. See your system administrator if you have questions about the type of Battery Pack you have been issued.

When the handset is in Standby mode, the message **Battery Low** and a series of chirps indicate a critically low Battery Pack charge. The handset will not work until the Battery Pack is charged.



Caution

Take care not to short the battery contacts on the Battery Pack with metal objects such as coins, keys or paper clips. Shorting the contacts can cause permanent damage.

Battery Pack removal and replacement

To remove, press down on the latch on the Battery Pack on the back of the handset. The Battery Pack releases outward.

To replace, slide the lip of the Battery Pack into the bottom of the cavity. Push the top of the Battery Pack until it snaps into place. You should not have to force it against the handset.

Notes on Battery Packs

- Battery Pack life will vary depending on handset model and features and system infrastructure.
- Maximum Battery Pack performance is achieved after a few charge/discharge cycles.
- If multiple Battery Packs are supplied with your handset, Spectralink recommends that each be fully charged upon receipt to prolong battery life. Battery Packs will slowly lose charge if unused. To maintain battery potential, charge unused Battery Packs occasionally or alternate Battery Pack use.

- After a length of time Battery Packs will lose the ability to maintain a charge and to perform at maximum capacity and will need to be replaced. This is normal for all batteries.
- If your Battery Pack requires replacement, contact your system administrator.
- Overnight charging is best done while the handset is turned off.
- The handset will chirp once when properly seated in the charger to let you know that the charging cycle has begun. If the handset does not charge, clean Battery Pack, charger and handset contacts with an alcohol swab.

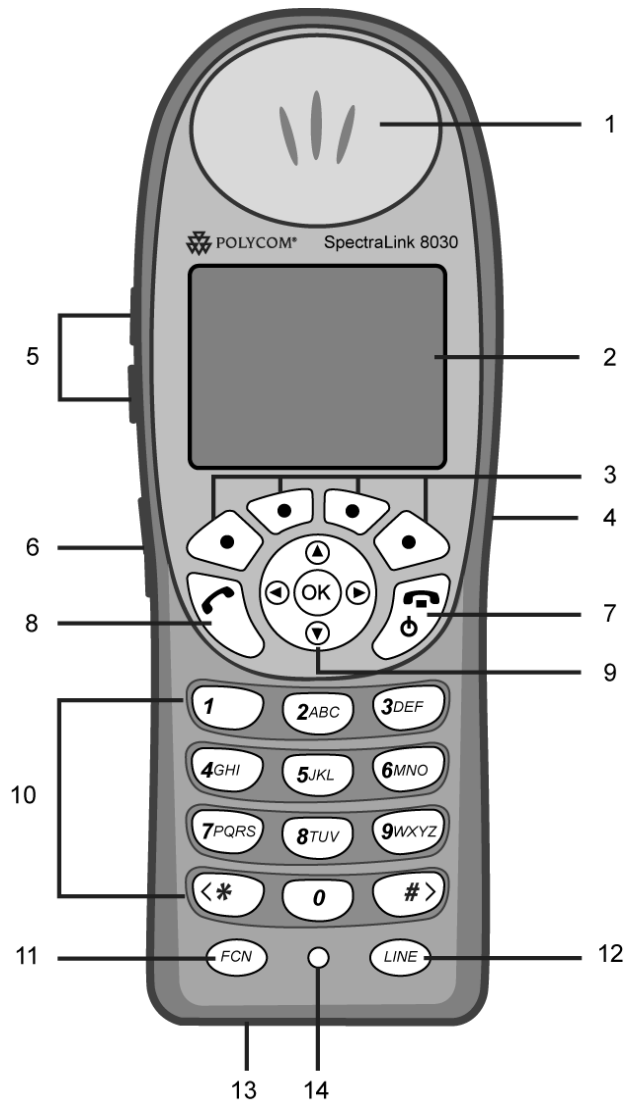


Caution

Only use Spectralink Battery Packs with Spectralink 80-Series Handsets.

Features of your Spectralink 80-Series Handset

The handset operates much like a cell phone, and is programmed by your system administrator to support the features commonly available in an office environment. Orient yourself to your handset's features using the illustration below and the following explanatory material.



- 1 **Earpiece** —Delivers audio to the ear.
- 2 **Screen** —Displays information relating to the handset's current mode. See **Handset Modes** below.
- 3 **Softkeys** —Four softkey buttons. A softkey label appears in the display area just above the corresponding softkey when the function assigned to that softkey is available.
- 4 **Headset jack** —Allows you to place and receive calls through a Spectralink headset.
- 5 **Up/Down buttons** —Use these buttons to scroll through displayed menu options. Use to adjust speaker volume while in a call.
- 6 **Emergency Dial/TALK button** —Spectralink 8030 only. This button may be programmed by the system administrator for either Emergency Dial or Push-to-talk (PTT) functionality. Test the active mode by pressing the button once to see which feature is active. If you are prompted to press it twice to place an emergency call, then Emergency Dial is programmed. Check the **Config** menu to determine if PTT is activated. Push and hold to activate push-to-talk mode.
- 7 **On hook** —Also referred to as **END**. Use to power on and power off the handset, and to end a call.
- 8 **Off hook** —Also referred to as **START**. Use to obtain a dial tone or place a call.
- 9 **Nav and Nav OK keys** —Four directional navigation keys and a **NavOK** key. Use the Nav ◀ ▶ and ▲ ▼ keys for menu navigation. Use the **NavOK** key to select menu items, place calls, and perform softkey functions as described below in **NavOK Functions**.
- 10 **Keypad** —12 keys provide the 10 digits 0-9, the alphabetic characters, and special characters available in context-sensitive applications.
- 11 **FCN** —Press to access the Function menu; press in combination with assigned keys to access programmed system functions.
- 12 **LINE** —Press to access additional line appearances.
- 13 **Battery contacts** —Located along the bottom edge, the battery contacts enable the handset to be charged in the Desktop Charger or the Dual Charger. They should be kept clean and free of debris.
- 14 **Microphone** —Sensitive microphone transmits voice accurately and without distortion.

The Handset Display

When first powered on, the handset screen will display the standby screen. This screen displays a top row of system icons showing the status of the handset, followed by two lines for the handset's extension number and name, a line for date and time display, and a bottom row for softkey labels.

While the handset is in use, display screens include:

- Call status screen
- Push-to-talk screen (8030 only, if available)
- Message screen (if available)
- Menu screens.

The standby screen has the following format:

				-Icon row (status line)
Ext. 1234				-Extension number
[Name]				-Name assigned to extension (info line)
[date] [time]				-Date and time if configured
Profile: [name]				-Name of the active profile
[PTT channel info]				-PTT channels (8030--only if configured)
◀ Spkr	Phbk	Prof	Lock ▶	-First set of softkeys
◀ Spdl	Redl	Cfg	▶	-Second set of softkeys


Status Icons


Indicator	Function
	The signal strength icon indicates the strength of the signal and can assist the user in determining if the handset is moving out-of-range.
	The voicemail icon is activated when a new voicemail message is received if the feature is supported by the phone emulation. (Not available in all facilities)
	The battery icon indicates the amount of charge remaining in the Battery Pack. When only one level remains, the Battery Pack needs to be charged.
	The speakerphone icon displays when the speakerphone is active.
	Up and down arrows are displayed when the menu has additional options above or below. Left or right arrows are displayed during editing when the cursor may be moved left or right.
	The location service icon indicates the Real-Time Location System (RTLS) is enabled.

Indicator Function

Locked Locked indicates that the keypad is locked to prevent accidental activation. Use the **Unlk** softkey plus the **#** key to unlock it.

[No Service message] If warning tones are not disabled, an alarm will sound and a descriptive message displays when the handset cannot receive or place calls. You may be outside of the covered area. Walk back into the covered area. The in-service tone indicates service is reestablished.

 The download icon indicates that the handset is downloading code. This icon only appears while the handset is running the over-the-air downloader. It appears to the right of the signal strength icon in the same location as the voicemail icon.

 The download failure icon indicates that the handset has failed to download code because the code is incompatible with the handset hardware. Contact your system administrator should this icon appear.

XXXX During character entry, indicates current data entry symbol mode.

Softkeys

Certain softkeys are standard with all handsets and others are locally programmed.

**Admin Tip**

Step through locally-programmed softkeys by going off-hook (press **START**) and then press the **FCN** key. The softkeys displayed while in the active mode are programmed to telephony features available in your facility. Up to 16 softkeys may be programmed and they are displayed four at a time. Press **FCN** repeatedly to step through each set.

If you have questions about any softkey not on this list, see your system administrator.

Softkey	Name	Displayed during...	Press to...
<<	Cursor backward	Entering a dial number.	Move the cursor back one position.
>>	Cursor forward	Entering a dial number.	Move the cursor forward in alphanumeric mode. If the cursor is at the end of the line, adds a space character.
Bksp	Backspace character	Entering a dial number.	Delete the character prior to the cursor position.
Back	Back one screen	Displaying a menu.	Exit the menu, move back one screen.
Cfg	Config Menu	Standby mode, second set	Open the Config Menu
Hold	Hold	In an active call.	Place the call on hold. The line number blinks while the call is on hold.
Lock	Lock keys	Standby mode, first set	Lock handset keys

Softkey	Name	Displayed during...	Press to...
Mute	Toggle muting	In an active call.	Toggle audio transmission to the far end. The status row displays <Muted> when the line is muted.
Phbk	Phonebook	Standby mode, first set	Open the phonebook
Prof	Profile	Standby mode, first set	Change Profile settings
Redl	Redial	Standby mode, second set	Display a list of recently-dialed numbers that may be redialed.
Save	Save	Entering a dial number as a call forwarding destination.	Save the dial number as the call forwarding destination for the selected line.
Spdl	Speed dial	Standby mode, second set	Open speed dial list
Spkr	Speakerphone	Standby mode, first set	Activate speakerphone

NavOK Functions

The **NavOK** key acts as a fifth softkey with implicit functionality as follows:

State	NavOK key function
Dialing	Place a phone call.
Answering	Answer a phone call
Holding	Resume audio.
Displaying menu	Select the highlighted menu option.

Menus

Config menu

See Chapter 3 for a full description of the Config menu.

Line menu

The Line menu allows you to activate a call on a selected line or to view the status of lines.

Press the **LINE** key to display a menu of available lines and to activate a new call on a selected line.

The currently selected line is indicated by an asterisk (*). Lines which have new voicemail are flagged with plus (+) characters.

Exit the Line menu display by pressing a line number key to start a new call on the selected line and put any other call on hold, or by pressing the **END** key to exit without starting a new call.

FCN menu

The **FCN** menu is accessible while in the active mode and provides locally-programmed features such as conference, voicemail access, transfer, etc.

Items on this menu are accessible through the **Nav ▲ ▼** keys or through shortcut keys as displayed with the menu items. Installed custom applications, such as messaging applications, are automatically added as items at the end of this menu when defined on an Open Applications Interface (OAI) server. If you have questions about the functionality of a custom application, contact your system administrator.

Handset Modes

Standby mode (on-hook)

In standby mode, the handset is powered on and is ready to send and receive calls. The extension number is shown on the display and there is no dial tone. In this mode, the handset is conserving battery power and bandwidth.

When an incoming call arrives, the handset rings and goes into active mode. Answer the call by pressing the **START** key. The handset will ring according to user preference as specified in the standby menus. You can silence the ringing by pressing the **END** key. The call will be redirected to voicemail if available.

Active mode (off-hook)

The handset is in the active mode when you are placing or receiving a call, or when the handset is in communication with the PBX.

When an incoming call occurs during an active call, the handset will play the second call ringing sound until the call is answered, the caller hangs up, or the call transfers to voicemail. If you press the **END** key, the first (active) call ends and the handset reverts to a full ring for the second call.

The active mode utilizes the most bandwidth and battery power. To conserve these resources, return the handset to the standby mode at the end of your call by pressing the **END** key.

Push-to-talk (PTT) mode

The Spectralink 8030 Handsets utilizes channels for incoming and outgoing radio communication, similar to a walkie-talkie. While using this feature, the handset is in PTT mode. It can receive regular phone calls while in this mode. When a regular phone call is answered, the handset switches to active mode.

Configuration menu mode

When user preferences are being configured in the Config menu, the handset is on, but is not active. It cannot receive calls while in the Config menu. The handset will revert to standby mode if there is no activity in configuration menu mode.

Message alert mode

If text messaging functions have been programmed, as in a nurse call system, the handset is able to receive text messages. While these messages are being accessed, the handset is in message alert mode. Incoming calls will ring with the second call ringing sound.

Accessories

Carrying devices and headsets that are specifically designed for your Spectralink handset may be purchased through your service representative.

Carrying Options

The following options are available for handset protection and easy access and carrying.

- **Belt clip:** Spring-loaded plastic belt clip that attaches to the back of the handset.
- **Swivel belt clip:** Swivel-style belt clip that attaches to the back of the handset with full 360 degree swivel or eight-position ratchet options.
- **Swivel carrying case:** Black leather case with keypad cover and swivel-style quick release belt clip.
- **Holster:** Black holster with belt clip.
- **Cord lanyard:** Nylon cord lanyard with quick disconnect.
- **Coiled lanyard:** Plastic coiled lanyard with clothing clip.

Headsets

Spectralink offers optional headsets (for North America only) for use in noisy environments or if you need to have your hands free while talking on the handset.

To use the headset, simply plug it into the jack on the right side of the handset. While using a headset, the handset will ring according to the user profile setting established in the **Headset/Speaker** ring option. The external ring will ring according to the setting of the profile.

The headsets offered by Spectralink have been laboratory tested and work properly with the Spectralink 80-Series Handset. Spectralink does not recommend using other headsets.

Chapter 3: Customizing your Handset

When the handset is in standby mode (on but not in use), press the **Cfg** softkey to display the configuration menu (“Config menu”). The handset cannot make or receive calls while in the Config menu. This menu allows you to set user preferences and display handset information.

Check with your system administrator for specific features supported by your handset.

Config Menu

<i>Config menu</i>	<i>2nd level</i>	<i>3rd level</i>	<i>4th level</i>	<i>5th level</i>	<i>6th level</i>
Lock Keys					
User Profiles	Silent Vibrate Loud Soft Custom				
		Set as Active			
		Ring Settings	Telephone Message Alert 1 Message Alert 2		
				Ring Cadence	Off PBX Continuous Short Pulse Long Pulse
				Ring Tone	Tones 1-10
				Ring Volume	Volume ■■■■■■■■
	Silent Vibrate Loud Soft Custom			Vibrate Cadence	Off PBX Continuous Short Pulse Long Pulse
				Ring Delay	No Delay 5 Second Delay 10 Second Delay
		Noise Mode	Normal High Severe		
		Ring in Headset Ring in Speaker			

Config menu	2nd level	3rd level	4th level	5th level	6th level
		Warnings			
		Enable/Disable			
		Key Tones			
		Disable/Enable			
Phone Settings	Extension Info	Extension Number			
		Extension Name			
	Keypad Autolock	Disable			
		5 seconds			
		10 seconds			
		20 seconds			
	Display Contrast	Set Contrast			
	Use Hearing Aid				
	Use No Hearing Aid				
	Startup Song				
	Play/Inhibit				
	Predial				
	Disable/Enable				

Config menu	2nd level	3rd level	4th level	5th level	6th level
Push-to-talk †	Default Channel	Channel 1			
				
		Channel 24			
	Subscribed Channels	Channel 1			
		Channel 2			
		Channel 3			
				
		Channel 24			
	PTT Audio Volume	Audio Volume			
		■■■■■■■■			
	PTT Tone Volume	Tone Volume			
		■■■■■■■■			
	PTT Vibrate Enable/Disable				
System Info	Phone IP Address				
	Gateway IP Address				
	Firmware Version				
	Emergency Dial ‡	Emergency Number			
		Emergency Name			

† (Spectralink 8030 only) Push-to-talk must be enabled by the system administrator before it can be activated by the user. If it is not enabled, then it will not appear on the **Config** menu. If PTT has not been enabled, Emergency Dial may be. Check the **System Info** options to determine if **Emergency Dial** appears. If so, it is active.

‡ (Spectralink 8030 only) **Emergency Dial** will appear if it has been enabled by the system administrator. The **Emergency Number/Name** options allow you to check the number and name that is dialed when the Emergency Dial button is pressed twice in two seconds.

Default settings

The profile options on the Config menu may be reset to their default values by the system administrator. These are the default settings:

Setting/profile	Silent	Vibrate	Soft	Loud	Custom
Ring Cadence	Off	Off	PBX	PBX	PBX
Ring Tone	Tone 1	Tone 1	Tone 1	Tone 1	Tone 1
Ring Volume	1	1	3	7	5
Vibrate Cadence	Off	PBX	Off	Off	PBX
Ring Delay	0	0	0	0	5
Noise Mode	Normal	Normal	Normal	Normal	Normal
Headset/Speaker	Speaker	Speaker	Speaker	Speaker	Speaker
Key Tones	Off	Off	On	On	On
Warning Tones	Off	Off	Off	Off	Off
Push-to-talk *	Off	Off	On	On	On
PTT Vibrate †	Disabled	Disabled	Disabled	Disabled	Disabled
Emergency Dial ‡	On	On	On	On	On

* (8030 only) Push-to-talk must be enabled by the system administrator before it can be activated by the user. If it is not enabled, then it will not appear on the Config menu and will not be "On" for any profile.

† PTT Vibrate is available only when Push-to-talk has been enabled by the system administrator.

‡ Emergency Dial must be enabled by the system administrator. If enabled, it will be "On" (or available for use) in every profile.

Toggle options

Some menu items have only two options, which operate on a toggle basis. The current setting is shown below the menu heading on the info line. The other available setting is highlighted in the menu list. Press **NavOK** to activate the highlighted setting.

For example, when Predial is disabled, the info line displays **Predial Disabled** and the highlighted menu item is the **Enable Predial** option. Press **NavOK** to enable Predial. The info line will change to display **Predial Enabled**.

In another example, when the info line displays **Currently Speaker**, the highlighted menu option is **Ring in Headset**, Press **NavOK** to select **Ring in Headset**, The ring will now sound in the headset and the info line will change to **Currently Headset**.

Lock Keys

When enabled, the Keypad Lock option will lock the keypad immediately. If the keypad is locked, it may be unlocked by pressing the **Unlk** softkey and then the **#** key.

User Profiles

Your handset ring behavior is established by the five User Profiles: **Silent**, **Vibrate**, **Loud**, **Soft** and **Custom**. The currently-active user profile is shown on the standby display. If you want to quickly switch to a different profile, while in standby press the **Prof** softkey and select a different profile from the list. The currently-active profile is marked with an asterisk (*).

Set as Active

You can change to a different User Profile from the Config menu by selecting the desired profile and then selecting **Set as Active** and pressing the **NavOK** key. This activates the new User Profile.

Ring Settings

The Ring Settings option allows the user to set the ring for three separate functions. **Telephone Ring** is used for usual telephony functions. **Message Alert 1** and **Message Alert 2** may be used to set different ringing patterns for custom applications.

Telephone Ring

The telephone ring setting allows the user to set a distinctive ring rhythm, tone, volume and sequence. Select from an audible ring, a vibrate-only ring or a vibrate ring accompanied by an audible ring.

Ring Cadence The ring cadence is the rhythm of the ring. It may be set to a pre-programmed ring cadence, or it may be set to obtain its cadence from the SIP proxy server. The PBX option is designed to utilize any distinctive rings sent by the proxy server while allowing the user to set unique rings for auxiliary applications.

Off: Silent

PBX: The PBX, also known as the SIP call server, determines ring cadence (e.g. the call server may send rings that differentiate between internal and external calls)

Continuous: Rings continually until answered

Short Pulse: Rings in short bursts

Long Pulse: Rings in long bursts

Ring Tone Scroll and select from ten available tones. The **Play** softkey allows the user to preview the tone before selecting. If Ring Cadence is turned off, the Ring Tone option will not appear on the menu.

Ring Volume Use the **Nav** ◀ ▶ keys to change the Ring Volume setting, or press the up/down volume buttons on the side of the handset during ringing. If Ring Cadence is turned off, the Ring Volume option will not appear on the menu.

Vibrate Cadence Vibrate Cadence options are the same as for Ring Cadence (see above).

Ring Delay Ring Delay determines how long the vibrate cadence will play before the audible ring starts. If Ring Cadence is turned off, the Ring Delay option will not appear on the menu.

Message Alerts 1 and 2

Message Alerts are used by external applications such as nurse call systems. If such systems are installed in your facility, you may adjust their ring characteristics to differentiate them from other rings. Contact your system administrator to find out if these options are available.

Noise Mode

Provides options that describe the noise level in your environment. Changing this mode to **High** or **Severe** adjusts the handset's microphone and in-ear speaker volume to account for background noise. Select **Normal** for most office environments; **High** for moderate background noise; or **Severe** for extremely noisy conditions. If you use **High** or **Severe** modes in a quiet environment, the person on the other end of the line may find it difficult to hear your voice.

High and **Severe** noise modes increase microphone, speaker, and ring volume settings above **Normal** mode baseline. All measures are approximate.

<i>Noise mode</i>	<i>Microphone</i>	<i>In-ear speaker</i>	<i>Ring volume</i>
High	+12dB	+6dB	+3dB
Severe	+18dB	+12dB	+6dB

Ring in Headset/Speaker

Toggle between the two options to select ring location.

Warning Tones

The handset plays various Warning Tones such as system up or down, out of range, etc. These tones may be turned on or off and are enabled by default.

Key Tones

Key Tones may be turned on or off and determine whether tones play when keys are pressed. Key Tones are enabled by default.

Phone Settings

Extension Info

The extension number and extension name are provided. These are programmed by the system administrator and may not be changed by the user.

Keypad Autolock

The handset may be set to lock the keypad automatically when in standby mode. The automatic locking function of the keypad may be disabled (the default) or adjusted for a 5, 10 or 20-second delay before locking.

Display Contrast

The display may need to be adjusted for different lighting situations. Contrast may be set by pressing the up/down buttons on the side of the handset or the **Nav** ◀ ▶ keys until the desired contrast is displayed.

Use Hearing Aid

The handset speaker may be set for use with a hearing aid. Toggle to set the desired option.

Startup Song Play/Inhibit

When the handset is powered up, a series of tones sounds. The Startup Song is enabled by default.

Predial

Enabling Predial allows the user to enter a phone number and then press the **START** key to initiate the call.

Predial must be enabled if you wish to use the **Redial** feature. See Chapter 3 *Using the Basic Features of Your Spectralink 80-Series Handset* for more information on using the **Redial** feature.

Push-to-Talk (PTT)



Note

If the system administrator has configured the Spectralink 8030 Handsets for PTT, they can be used like walkie-talkies. If the system administrator has disabled PTT, the PTT options will not appear in the Config menu.

Default Channel

Displays all enabled PTT channels. The default transmission channel is marked with a (*) to the left of the channel. If you wish to change the default PTT channel, use the **Nav ▲ ▼** keys to scroll to the desired channel and press **NavOK** to select it.

The handset will transmit only to phones set to receive on the selected channel. The Priority Channel transmits to all channels.

Subscribed Channels

Displays all enabled PTT channels. The handset will receive PTT transmissions on all subscribed channels, which are marked with a (*) to the left of the channel. The handset will not receive a PTT transmission on a channel to which the user has not subscribed. If you wish to select or deselect a subscribed channel, use the **Nav ▲ ▼** keys to scroll to the desired PTT channel and press **NavOK**.

PTT Audio Volume

Use the **Nav ◀ ▶** keys or the up/down volume buttons on the side of the handset to adjust the PTT Audio Volume setting.

PTT Tone Volume

Use the **Nav ◀ ▶** keys to adjust the PTT Tone Volume setting.

PTT Vibrate

To enhance the alerting of a PTT call, **PTT Vibrate** may be enabled. When **PTT Vibrate** is enabled, the handset will vibrate three times whenever a PTT broadcast is received, whether the handset is in standby or in a call. If in a call, the chirp alert will also sound. The vibration does not replace any PTT tone volume already set.

To set the handset for PTT vibrate only, enable **PTT Vibrate** and set the tone volume to zero.

System Info

Displays the IP address of the highlighted menu item. The IP address appears in the upper portion of the screen below the words **System Info**.

Phone IP Address

Displays the IP address currently assigned to the handset by the SVP Server.

Gateway IP Address

Displays the IP address used by the Spectralink Telephony Gateway which operates as a call administrator between the handset and the PBX.

Firmware Version

Displays the software version running the handset. The MAC address is the hardware identification number and is set at the factory. Three code numbers correspond to the three software files that each software version uses.

Emergency Dial

(Spectralink 8030 Handset only)

Emergency Dial will appear if it has been enabled by the system administrator. The **Emergency Number/Name** options allow you to check the number and name that is dialed when the Emergency Dial button is pressed.

Chapter 4: Using Basic Features

Your Spectralink 80-Series Handset is designed to be used like a cell phone on a public switched telephone network (PSTN).

Only one call is active at any given time. The active call has audio associated with it. There may be multiple other calls:

- On hold
- In an “Incoming call” or “Ringing” state

This chapter provides basic operating instructions for the Spectralink 80-Series Handset. This chapter contains instructions on how to:

- Turn the handset on and off
- Lock and unlock the keypad
- Place a call
- Place an emergency call
- Answer a call
- Place a call on hold
- Answer a second call
- Resume a call on hold from standby
- Redial last number dialed
- Silence the ring
- Change the ring volume
- Adjust the speaker or headset volume
- Mute/unmute a call
- End the call
- Change the profile
- Open the Config menu
- Turn on the backlight

Turn the Handset On

Press and hold the **END** key until two chirps sound.

Turn the Handset Off

Press and hold the **END** key. One chirp will sound. If you are in a call, hang up first, then turn off the handset.

Lock the Keypad

While in standby mode press the **Lock** softkey.

Unlock the Keypad

Press the **Unlk** softkey, then #.

Place a Call

- 1 To dial a number, follow any one of these sequences:
 - Press the **START** key, wait for a dial tone, then dial the number.
 - [Predial] Dial the number and then press the **START** key.
 - Press the **Spkr** softkey, then dial the number.
- 2 Listen for the ring to indicate the alerting of the called party.

Note: **Line 1** is the default line

Place an Emergency Call

(Spectralink 8030 Handset only)



Note

The large button on the left side of the Spectralink 8030 Handset may provide you with either Emergency Dial or PTT as determined and activated by the system administrator.

Press this button one time. If Emergency Dial is active, an explanatory message will be displayed.

When Emergency Dial has been enabled, the handset will dial an emergency number when it is pressed twice within two seconds. The number dialed may be found under the **Config Menu>System Info** option.



Caution

Emergency Dial will be inoperable if the wireless system or the call server fails for any reason. Do not rely on it as your sole method of emergency notification.

Answer or Reject a Call

When the handset rings, the incoming line's icon number will flash and incoming call data will display

To answer a call:

- Press the **START** key and hold the handset to your ear.
- Press the **Spkr** softkey and speak towards the handset.

When the call is answered, the call's line number displays to indicate that this line is in an active call with established audio connection. The softkeys are locally programmed and may include those shown below.

Example:

[From] [time/date]			
Spkr	Hold	Mute	Fwd

To reject a call:

Press the **End** softkey to silence the ring and allow the server to redirect the call to voicemail.

Place a Call on Hold/Resume Call

Press the **Hold** softkey. Press **Hold** again to resume audio.

Answer a Second Call

When an incoming call occurs during an active call, the handset will play the second call ringing sound until:

- the call is answered
- the first call is terminated
- the caller hangs up or
- the call is transferred to voicemail.

- 1 Press **START** or **Spkr** to place the current call on hold and answer the second call, or
- 2 Press **END** to reject the incoming call.

Clear Forwarding on a Line

- 1 Press **START** or select the line number from the Line menu.

- 2 Press **FCN**.
- 3 Select the **Set/Clear Forward** item from the menu and press **NavOK**.

Redial the Last Number you Dialed

From Standby mode:

- 1 Press **Nav◀** or **Nav▶** to navigate to the second set of softkeys.
- 2 Press the **Redl** softkey to display a list of the last 10 dialed numbers.
- 3 Select the number you wish to call from the list.
- 4 Press **START**.

Silence the Ringing

Press the **END** key to silence the external speaker ring.

External speaker ringing will resume when the next incoming call is received while the handset is in standby mode.

Change the Ring Volume

Press the up/down volume buttons on the side of the handset during ringing, or while the handset is in standby mode.

Adjust the Speaker Volume

While speakerphone is active, press the up/down volume buttons on the side of the handset during the call.

Adjust the Headset Volume

While the headset is plugged in, press the up/down volume buttons on the side of the handset during the call.

Mute/Unmute a Call

Press the **Mute** softkey. When the handset is muted, **<Muted>** appears on the status line. Press the **Mute** softkey again to restore audio pickup.

End a Call

Press the **END** key on the keypad to return to the standby mode.

Change the Profile

Press the **Prof** softkey and use the **Nav ▲ ▼** keys to select a new profile while in standby mode. The selected profile is marked with an asterisk (*).

Open the Config Menu

Press the **Cfg** softkey from standby mode.

Turn on the Backlight

The backlight comes on when any key is pressed or when there is an incoming call, and stays on for 60 seconds. It turns off if another key is not pressed within that period.

Chapter 5: Using Advanced Features

This chapter provides operating instructions for the advanced features of the Spectralink 80-Series Handset.

This chapter contains instructions on:

- Multiple line appearances
- Listening to voicemail
- Activating installed custom applications
- Using the Phonebook and Speed dial


Place a Second Call

- 1 To get a dial tone for the second call, press **LINE** and navigate to the line you wish to use and press **START**.
 - The first call is automatically placed on hold.
 - The second call number is dialed.
 - The second call info appears in the display area.
- 2 Press **LINE** and the line number of the held call to toggle between calls.

Place a Call on a Different Line

- 1 Press the **LINE** key.
- 2 Navigate to the desired line and press **START**.

Listen to Voicemail

Voicemail may be locally available. If so, when the handset has a voicemail message, the voicemail icon may  display.

- 1 Press **START**.
- 2 Press **FCN** to display softkeys programmed for locally-available feature activation.
- 3 Press the voicemail softkey and follow the directions. Contact your system administrator if you have questions about how to use voicemail.

Activate Installed Custom Applications

Some facilities may have advanced applications such as directory and text messaging or nurse call systems. These are accessed through the **FCN** key.

- 1 Press **START** or **Spkr**.

- 2 Press **FCN** to display softkeys programmed for locally-available feature activation.
- 3 Press the relevant softkey.
- 4 Follow the directions for feature activation (provided by the system administrator).

Use the Phonebook and Speed Dial

Press the **Phbk** softkey from standby mode.

Phonebook Select Name			
> [special] <new> A Name B Name C Name			
Spkr		Edit	Back

The phonebook list is sorted alphabetically.

If present as shown above, the first item on the list will be a system-wide speed dial number programmed by the system administrator to be used for certain types of calls. Please contact your system administrator for more information.

The **<new>** option appears until the maximum number of entries (20) has been entered.

Search for a phonebook entry

Use **Nav▲** and **Nav▼** to scroll through the names or press the keys corresponding to the first letters of the name. Use **Nav◀** and **Nav▶** to edit the search characters as needed.

View a phonebook entry

Navigate to the name on the phonebook list and press **NavOK**.

Phonebook			
spd [x] [Name] number [Extension/number]			
Spkr		Edit	Back

The entry may be called, assigned a speed dial number or edited from this screen. If a speed dial number has been assigned to this name, it will appear beside **spd**.

Return to the phonebook list by pressing the **Back** softkey or **NavOK**.

Edit a phonebook entry

- 1 Select the name to edit from the phonebook list.
- 2 Press the **Edit** softkey to open the **Enter Number** display and edit the existing number. Use the **Clr** and **Del** softkeys as needed.
- 3 Press **NavOK** to display the **Enter Name** display and edit the name.
- 4 Press **NavOK** to save the changes and exit the editing screens. Press the **Back** softkey to exit without saving the changes.

Dial phonebook number

Select the entry and press **START** or the **Spkr** softkey.

Phonebook Select Name			
> [special]			
<new>			
A Name			
B Name			
C Name			
Spkr	Del	Edit	Back

Enter a new name and number in the phonebook

- 1 Open the phonebook.
- 2 Select the <new> option (if available) and press the **Edit** softkey to open the **Enter Number** display.
- 3 Enter the name and number by following the steps for editing a name and number. You must enter alphanumeric characters for the name, not blank spaces.

Delete a phonebook entry

- 1 Open the phonebook and select the entry.
- 2 Press the **Del** softkey to delete the entry.

Open the speed dial list from standby

Press the **Spdl** softkey from standby mode.

Make a speed dial call

- 1 From standby or while in the speed dial menu, press and hold the corresponding number key on the keypad for one second. The system speed dial key must be pressed for three seconds.
- 2 The handset will display the name and number for one second before the call is dialed. You may press **END** during this second to terminate the call. (You may also use the Nav keys to highlight an entry and then press **START** or the **Spkr** softkey to dial the number.)

If you do not place a call, you may return to standby by pressing the Exit softkey.

Assign a speed dial number

A phonebook entry may be assigned to a speed dial key from the speed dial list or from the phonebook edit number display.

From the speed dial list:

- 1 Select the speed dial key that you wish to assign.

Speed Dial Menu Assign to a key			
A Name			
B Name			
C Name			
Spkr	Set	Clr	Exit

- 2 Press the **Set** softkey to open the phonebook list.
- 3 Use the search routine or the **Nav** keys to select the desired entry.

Phonebook Select name			
<new>			
A Name			
B Name			
Spkr	Del	Edit	Back

- 4 Press **NavOK** to assign the selected name to that speed dial key.
- 5 Press **Exit** to exit to standby.

From the phonebook view number display:

Phonebook			
spdl [x]			
[Name]			
number			
[Extension/number]			
Spkr	Spdl		Back

- 1 Press the **Spdl** softkey from the view number display in the phonebook.
- 2 When the speed dial list opens, navigate to an empty slot and press **NavOK**. This sets the speed dial key to the number in the phonebook.
- 3 Press **END** to exit to standby mode and save the speed dial number assignment.

Speed dial entries may be edited through the phonebook, as described above.

Chapter 6: Using Push-to-Talk



Note

The large button on the left side of the Spectralink 8030 Wireless IP Telephone may provide you with either Emergency Dial or PTT as determined and activated by the system administrator. Press this button one time. If Emergency Dial is active, an explanatory message will be displayed. If PTT is enabled, channel information will be displayed.

The PTT feature allows Spectralink 8030 Handsets to operate in a group broadcast mode called PTT mode. The handsets behave like walkie-talkies, where a single handset can transmit to multiple listeners. If the system administrator has disabled PTT, the PTT options will not appear in the Config menu.

Press and release the **TALK** button to display the default channel, the last channel used, any additional subscribed channels, and the Priority Channel.

Press and hold the **TALK** button to open the default PTT channel for transmission. Release the **TALK** button to end the transmission and await reply. The handset will wait for 10 seconds before reverting to standby mode.



Note

PTT mode requires additional battery resources. Ensure your handset is equipped with an Extended or Ultra-Extended Battery Pack for optimal performance.

This chapter provides basic operating instructions for operating the PTT features of the Spectralink 8030 Handset. This chapter contains instructions on how to:

- Make a PTT call
- Respond to a PTT call
- End a wait period
- Select a different PTT channel
- End one PTT call and start another one
- Receive a PTT call while on a telephone call
- Transmit on the priority channel
- End a PTT call
- Change the PTT volume
- Answer a telephone call during a PTT transmission

- Start a telephone call during a PTT transmission
- Turn off PTT
- Subscribe to additional PTT channels

Make a PTT Call

To call on the default channel, from standby mode press and hold the **TALK** button. Wait for the display to show **Transmitting** and then hold the handset approximately two inches from your mouth and speak.

Respond to a PTT Call

Press and hold the **TALK** button during the 10-second wait period.

End a Wait Period

Press the **END** key.

Select a Different PTT Channel

Press and release the **TALK** button. Use the **Nav** keys or up/down side buttons to highlight the desired channel. Press **TALK** to transmit.

End One PTT Call and Start another on a Different Channel

Press the **END** key to exit the PTT call. Press and release the **TALK** button and select a different channel from the list. Press and hold the **TALK** button to begin transmitting on the different channel.

Receive a PTT Call while on a Telephone Call

Press the **END** key to end the telephone call. Now you can hear the PTT call.

Use PTT Vibrate

To enhance the alerting of a PTT call, **PTT Vibrate** may be enabled on the **Config** menu.

When **PTT Vibrate** is enabled, the handset will vibrate three times whenever a PTT broadcast is received, whether the handset is in standby or in a call. If in a call, the chirp alert will also sound. The vibration does not replace any PTT tone volume already set. To set the handset for PTT vibrate only, enable **PTT Vibrate** and set the tone volume to zero.

PTT Vibrate is disabled by default.

Transmit on the Priority Channel

Press and release the **TALK** button. Select the priority channel from the list. Press and hold **TALK**, then speak. The priority channel takes priority over all other calls in progress.

End a PTT Call

Press the **END** key to exit the PTT call.

Change the PTT Volume

Press the up/down volume buttons on the side of the handset while transmitting or receiving a PTT call.

Answer a Telephone Call during a PTT Transmission

Press the **START** key. PTT transmissions will be pre-empted by the telephone call.

Start a Telephone Call during a PTT Transmission

Press the **START** key and dial the number. PTT transmissions will be pre-empted by the telephone call.

Turn off PTT

Change to a different profile. (The **Silent** and **Vibrate** profiles disable PTT by default.)

Subscribe to additional PTT channels

Press the **Cfg** softkey to open the Config menu and select **Push-to-talk**. Select **Subscribed channels** and then select the channels you want to add. Subscribed channels are marked with an asterisk (*).

Chapter 7: Charger Options

Charger Models

Three charger models are available for the Spectralink 80-Series Handset. The Single Charger will charge a single handset with an installed Battery Pack. The Dual Charger will charge the handset and a spare Battery Pack. The Quad Charger can charge up to four Battery Packs at a time. Any Spectralink Battery Pack can be charged in any of these chargers.

The Single and Dual Chargers allow the handset to remain operative in speakerphone mode or with a headset while charging. Handsets may be charged while in standby mode, while in an active call, or while turned off.

Install the Charger

Set up the Charger by first obtaining the appropriate Spectralink power supply for the country or region. Place the Charger on a flat, horizontal surface. Plug the power supply into the Charger and into an appropriate wall outlet.

Charging Status Indicators

The handset speaker, handset display, and the charger LED (on the Dual and Quad Chargers), indicate charging status or that a Battery Pack failure has been detected.

Handset Message/ Charging Status LED

Ascending song Occurs when handset has been inserted into the charger and charging has begun.

Charging... The Battery Pack is charging.

LED Solid On



Note that in the Dual Charger, the handset's Battery Pack takes charging precedence. When it is finished charging, the single Battery Pack in the rear slot will charge.

Charge Complete The Battery Pack in the handset has finished charging.

LED Off Battery Pack is fully charged, slot is empty, or unit is not powered.

Battery Failure Error. Battery Pack not able to be charged. Reinsert Battery Pack or replace Battery Pack.

LED Flash

Descending song Occurs when handset is removed from charger.

Single Charger



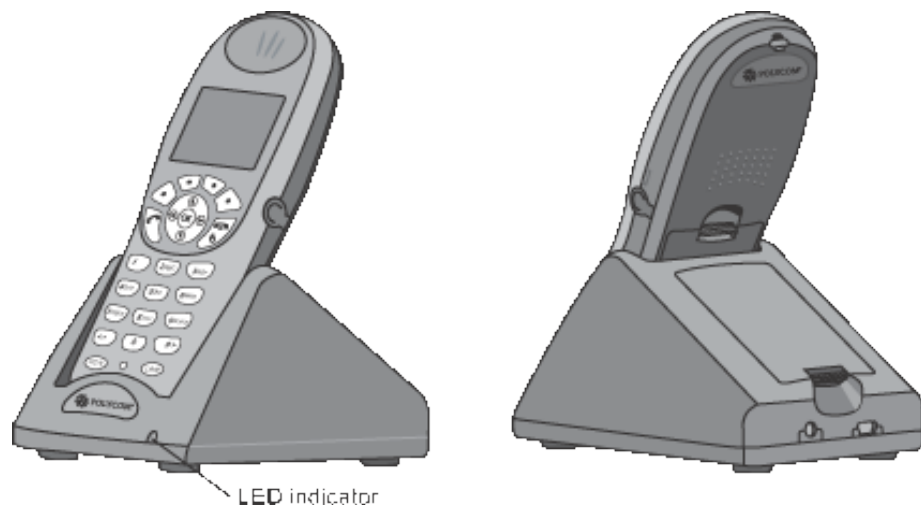
The Single Charger is designed to allow the handset to remain operational through speakerphone or headset use while the handset's Battery Pack is being charged. The handset may also be charged while it is in standby mode or turned off.

Place the handset in the Single Charger facing forward. While the handset is charging in standby mode, it will display its extension number and **Charging...** An animated battery icon will indicate that charging is in progress. The handset is fully operational and will ring if called. When the handset is charging while turned off, only **Charging...** will display and no calls will be received. The dots will be racing during the charging cycle.

When the handset is fully charged, **Charge Complete** will display.

No charging information will display during an active call.

Dual Charger



The Dual Charger is designed to charge the Battery Pack in the handset while it remains operational and also charge an additional Battery Pack in the rear charging bay. The handset has charging priority when both slots are occupied.

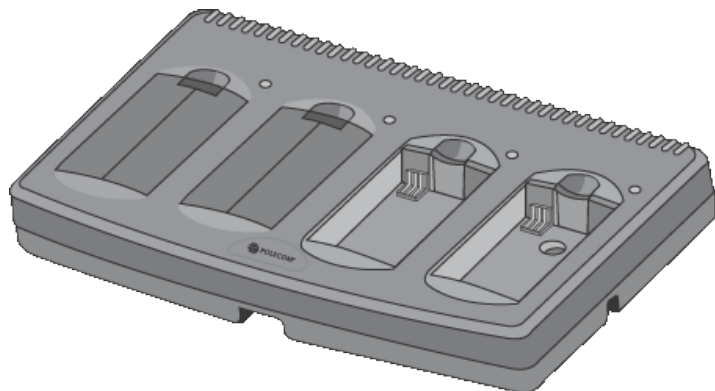
Place the handset in the front slot, facing forward. The Battery Pack alone snaps into the charging bay as shown in the illustration.

The LED indicates the status of the Battery Pack in the rear bay. The handset displays its charging status as described for the Single Charger.

When the handset is fully charged or is removed, the Battery Pack will begin charging.

Note that the time it takes for the Battery Pack to charge will be lengthened if its charging cycle is interrupted for a handset to charge.

Quad Charger



The Quad Charger is designed to simultaneously charge four Battery Packs. It may be mounted on a horizontal or vertical surface.

The Battery Pack snaps into the charging slot. The LED above the occupied bay indicates the charging status of the Battery Pack in the bay.



Note

A flashing LED may indicate a Battery Pack failure. Verify the condition of the Battery Pack by the following procedure before replacing it. First check the Battery Pack in a different bay or substitute another charger and repeat the operation that caused the failure. If the same Battery Pack lights a steady LED when inserted in a different bay or charger, the first charger may be faulty. Contact your system administrator for service information.

Appendix A: Cleaning and Drying the Handset



Note

The Spectralink 8030 Handsets have been tested for resistance to cleaning chemicals per IEC 60068-2-74 (1999), Exposure of the 80-Series handsets to Lysol® or diluted bleach poses little risk of functional or cosmetic damage.

- Avoid dropping the handset or knocking it against hard surfaces. Carrying the handset in a holster or carrying case will help protect it.
- There are no serviceable parts in the handset or chargers. You should not open the handset case nor disassemble the chargers. Doing so will void your warranty.
- Turn off the handset and unplug chargers before you clean them. Never immerse either in liquid. Clean the exterior surfaces, including the charging contacts, with a cloth that has been slightly moistened with water. Take care not to exert undue pressure on charger electrical contacts while wiping.
- Spectralink recommends the use of a silicone cover to prolong the life of your handset, especially when it is dropped regularly or cleaned frequently with the disinfectants prescribed below.
- Wiping the handset surface with a water-dampened cloth or paper towel will remove most films or residues. If the soiling is too stubborn for plain water, a mild detergent solution, Lysol, isopropyl alcohol or diluted bleach may be used.
- Pre-treated cloths and tolettes, like those used for eyeglasses or cameras, may be used to clean the phone, however avoid using those containing lanolin or aloe as it will leave a slippery residue.
- When cleaning with disinfectants, do not rub the keypad characters vigorously. Doing so will degrade legibility of the handset's keys.
- Do not directly spray or immerse the phone in a disinfectant or cleaning agent. Spray the disinfectant on a soft cloth or paper towel, then wipe the phone's surface to dry it.
- The following products should NOT be used on the Spectralink wireless telephones.

- Do not use cleaning products containing quaternary ammonium compounds,² such as CaviWipes™, CaviWipes™ XL, Cavicide® or Sani-Wipes®, Sani-Cloth, Super Sani-Cloth® and Sani-Cloth® Plus. Quaternary ammonium compounds have been laboratory tested and proven to damage the handset plastics.
- Do not use furniture polishes, waxes or plasticizer based cleaner (ArmorAll®, etc.)
- Do not use lanolin, aloe, glycerin or other skin care type products
- Do not apply any solvent such as acetone, mineral spirits etc.
- Should the headset connector become dirty, a scratchy or intermittent signal may be experienced. To clean the connector, dip the non-padded end of either a wooden or paper handled cotton swab in isopropyl alcohol. Gently insert in the connector and twist, repeating several times. If available, blow compressed air into the connector to clear debris.
- Keep the headset jack covered when it is not in-use.
- Using a carrying case may help protect the surfaces and help prevent liquids (e.g., rain) from entering into the interior of the handset. This product is not waterproof, and exposing the unit to liquids may result in permanent damage to the unit.

If your wireless telephone interior gets wet, then do not try to accelerate drying with the use of an oven or a dryer as this will damage the wireless telephone and void the warranty. Instead, do the following:

- 1 Immediately power off the wireless telephone.
- 2 Remove Battery Pack from wireless telephone.
- 3 Shake excess liquid from the wireless telephone.
- 4 Place the wireless telephone and Battery Pack in an area that is at room temperature and has good airflow.
- 5 Let the wireless telephone and Battery Pack dry for 72 hours before reconnecting the Battery Pack and/or powering on the wireless telephone.

If the wireless telephone does not work after following the steps listed above, contact your dealer for servicing information.

² Quaternary ammonium compounds are also known as C12-18-alkyl [(ethylphenyl) methyl] dimethyl, chlorides and Benzyl-C12-18-alkyldimethyl ammonium chlorides. Review the Materials Safety Data Sheet for your specific product to verify the chemical composition.

Appendix B: Safety Information



Caution: Product compatibility

Each Spectralink family of products only works with other members of the same family. If you have any questions about product compatibility, contact your system administrator.

Spectralink 80-Series

Use only 80-Series products with other 80-Series products as identified by the model number located on the label of the product.

Spectralink 8020 Wireless Handset	802X
Spectralink 8030 Wireless Handset	803X
Desktop Charger	PCS1850
Dual Charger	PCD1850
Quad Charger	PCQ1850
Standard Battery Pack	PBP0850
Extended Battery Pack	PBP1300
UltraExtended Battery Pack	PBP1850

Industry Canada Notice

Under Industry Canada regulations, this radio transmitter may only operate using an antenna of a type and maximum (or lesser) gain approved for the transmitter by Industry Canada. To reduce potential radio interference to other users, the antenna type and its gain should not exceed the equivalent isotropically radiated power (EIRP) necessary for successful communication.

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.

Chargers and Battery Packs

- Chargers operate in a 50° to 85° F (10° to 30° C) environment. Do not expose them to freezing temperatures or direct sunlight.

- Do not place anything in the charger other than the handset or single Battery Pack as appropriate to avoid bending the contacts. Bent contacts can keep the Battery Pack from charging.
- Only use Spectralink 8400 Series Battery Packs with Spectralink 8400 Series Chargers.
- Never use a non-Spectralink charging unit as it could damage the Battery Pack.
- Use only the original plug-in power adapter for the chargers.
- Contact your service representative for assistance if you have a faulty Battery Pack or a problem with your charger.
- Any battery that exhibits swelling, cracking or other abnormality should be disposed of promptly and properly.



Warning: Do not...

Do not immerse the Battery Pack in water or throw it into a fire.



Warning: Do not...

Do not throw away the Battery Pack with your domestic waste. Return used Battery Packs to your supplier or servicing agent.



Warning: Do not...

All batteries can cause property damage and/or bodily injury, such as burns, if a conductive material such as jewelry, keys, or beaded chains touches exposed terminals. The conductive material may complete an electrical circuit (short circuit) and become quite hot. Exercise care in handling any charged battery, particularly when placing it inside a pocket, purse, or other container with metal objects.

Handsets

Please read the following text carefully for important safety information.



Warning: Magnetic earpiece

The earpiece may retain magnetic objects.



Caution: Authority to operate this equipment

Changes or modifications to this equipment that are not approved by Spectralink may cause this equipment to fail to comply with part 15 of the FCC rules, voiding the user's authority to operate this equipment.



Caution: Not user serviceable

Spectralink products contain no user-serviceable parts inside. Refer servicing to qualified service personnel.



Warning: Medical equipment interference

Spectralink recommends that standard acceptance procedures be followed prior to operating this equipment in proximity of life-support systems.

Operational Warnings

Certain operational environments are potentially hazardous. Please read the following text carefully to ensure that you understand the handset's operating conditions.

Potentially Explosive Atmospheres

Do not take your handset into any area with a potentially explosive atmosphere. Do not remove, install, or charge batteries in such areas. Sparks in a potentially explosive atmosphere can cause an explosion or fire resulting in bodily injury or even death.



Warning: Explosive Atmospheres

Avoid areas with potentially explosive atmospheres include fueling areas such as lower decks on boats, fuel, or chemical transfer or storage facilities, areas where the air contains chemicals or particles such as grain, dust, or metal powders, and any other area where you would normally be advised to turn off your vehicle engine. Areas with potentially explosive atmospheres are often marked with signs, but not always.

Electromagnetic Interference and Compatibility

Nearly every electronic device is susceptible to electromagnetic interference (EMI) if inadequately shielded, designed, or otherwise configured for electromagnetic compatibility.

Facilities

To avoid electromagnetic interference and/or compatibility conflicts, turn off your handset in any facility where posted notices instruct you to do so. Hospitals or health care facilities may be using equipment that is sensitive to external radio frequency (RF) energy.

Pacemakers

The Health Industry Manufacturers Association recommends that you maintain a minimum separation of 6 inches (15 cm) between a handheld, wireless-radio product and a pacemaker. These recommendations are consistent with the independent research by, and recommendations of, Wireless Technology Research. Persons with pacemakers should:

- ALWAYS keep the handset more than 6 inches (15 cm) from their pacemaker when the handset is turned on
- Not carry the handset in a breast pocket
- Use the ear opposite the pacemaker to minimize the potential for interference
- Turn the handset off immediately if you have any reason to suspect that interference is taking place

Other Medical Devices

If you use any other personal medical device, consult the manufacturer of your device to determine if it is adequately shielded from external RF energy. Your physician may be able to assist you in obtaining this information.

Use While Driving

Campus installations and warehouse facilities that use vehicles such as forklifts or golf carts should abide by these guidelines when using wireless telephones:

- Give full attention to driving and to the road, aisle, or path
- Use hands-free operation, if available
- Pull off the road, aisle, or path and park before making or answering a call

For Vehicles Equipped with an Airbag

Do not place a portable device in the area over the airbag or in the airbag deployment area. An airbag inflates with great force. If you place the handset in the airbag deployment area, and the

airbag inflates, the airbag may propel the handset at high speed and cause serious injury to occupants of the vehicle.

FCC Statement

This device complies with part 15 of the United States 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.

Specific Absorption Rate (SAR) Information: Spectralink 80-Series Wireless Handsets

Your wireless handset is a low power radio transmitter and receiver. When it is on, it receives and sends out 802.11a/b/g/n radio frequency (RF) signals. In August 1996, the Federal Communications Commission (FCC) adopted radio frequency (RF) exposure guidelines with safety levels for hand-held wireless handsets. Those guidelines are consistent with the safety standards previously set by both U.S. and international standards bodies:

- ANSI C95.1 (1992) American National Standards Institute
- NCRP - Report 86 (1986) National Council on Radiation Protection and Measurements
- ICNIRP (1996) International Commission on Non-Ionizing Radiation Protection
- DHWC - Safety Code 6 Department of Health and Welfare Canada

These standards were developed by independent scientific organizations through periodic and thorough evaluation of scientific studies. The standards include a substantial safety margin designed to assure the safety of all persons, regardless of age and health. The exposure standard for wireless mobile handsets employs a unit of measurement known as the Specific Absorption Rate, or SAR. The SAR limit set by the FCC is 1.6W/kg.



Note: SAR limits

In the United States and Canada, the SAR limit for mobile handsets used by the public is 1.6 watts/kg (W/kg) averaged over one gram of tissue. The standard incorporates a substantial margin of safety to give additional protection for the public and to account for any variations in measurements.

The FCC conducts tests for SAR using standard operating positions specified by the FCC with the handset transmitting at its highest certified power level in all tested frequency bands. Although the SAR is determined at the highest certified power level, the actual SAR level of the handset while operating can be well below the maximum value. This is because the handset is

designed to operate at multiple power levels so that it uses only the power required to reach the network. Before a handset model is available for sale to the public, the FCC must test and certify it to ensure that handsets do not exceed the limit established by the government-adopted requirement for safe exposure. The tests are performed in positions and locations (at the ear and worn on the body) as required by the FCC for each model. While there may be differences between the SAR levels of various handsets and at various positions, they all meet the government requirement for safe exposure.

The FCC has granted an Equipment Authorization for this model handset with all reported SAR levels evaluated in compliance with the FCC RF emission guidelines.

SAR information on this model handset is on file with the FCC. You can find it under the Display Grant section at <http://www.fcc.gov/oet/ea> after searching on the FCC ID number found on the handset label inside the battery compartment. Additional information on Specific Absorption Rates (SAR) can be found on the World Health Organization website at <http://www.who.int>. Search on “electromagnetic fields”.

FCC SAR peak values (in W/kg):

Frequency	802X-head	802X-body	803X-head	803X-body
2.4 GHz	0.23	0.16	0.22	0.19
5.2 GHz	0.36	0.37	0.39	0.40
5.4 GHz	0.35	0.39	0.40	0.37
5.8 GHz	0.37	0.20	0.28	0.27

EU SAR peak values (in W/kg):

Standard	Frequency	802X head	802X body	803X head	803X body
802.11 b		0.119	0.093	0.114	0.104
802.11 g		0.059	0.048	0.046	0.039
802.11 a	(5150-5250 MHz)	0.090	0.147	0.091	0.164
802.11 a	(5250-5350 MHz)	0.043	0.113	0.051	0.095
802.11 a	(5470-5725 MHz)	0.356	0.156	0.088	0.153

Handset operation normal position

To position the antenna properly, hold the handset as you would any other telephone, with the earpiece to your ear and speak into the microphone.