



Spectralink Wireless Telephones

# Safety Guide

For all Spectralink Wireless Telephones

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## Warranty

The *Product Warranty and Software License and Warranty* and other support documents are available at <http://support.spectralink.com>.

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# Contents

<b>About This Guide .....</b>	<b>4</b>
<b>Patent Information .....</b>	<b>4</b>
<b>Model Numbers Covered by this Guide .....</b>	<b>4</b>
<i>Spectralink 87-Series: .....</i>	<i>4</i>
<i>Spectralink 84-Series: .....</i>	<i>4</i>
<i>Spectralink 80-Series/60-Series: .....</i>	<i>5</i>
<b>Product Compatibility Information .....</b>	<b>5</b>
<b>Product Support .....</b>	<b>6</b>
<b>Spectralink References .....</b>	<b>6</b>
<b>Conventions Used In This Document.....</b>	<b>7</b>
<i>Icons .....</i>	<i>7</i>
<b>Chapter 1: Safety Information .....</b>	<b>8</b>
<i>Spectralink 87-Series.....</i>	<i>8</i>
<i>Spectralink 84-Series.....</i>	<i>8</i>
<i>Spectralink 80-Series/60-Series.....</i>	<i>9</i>
<b>Chargers and Battery Packs.....</b>	<b>10</b>
<i>Battery Packs.....</i>	<i>10</i>
<i>Chargers .....</i>	<i>11</i>
<b>Wireless Telephones .....</b>	<b>12</b>
<b>Operational Warnings .....</b>	<b>12</b>
<i>Potentially Explosive Atmospheres.....</i>	<i>12</i>
<b>Electromagnetic Interference and Compatibility .....</b>	<b>13</b>
<i>Facilities .....</i>	<i>13</i>
<i>Pacemakers .....</i>	<i>13</i>
<i>Other Medical Devices .....</i>	<i>13</i>
<b>Usage While Driving.....</b>	<b>14</b>
<i>For Vehicles Equipped with an Airbag.....</i>	<i>14</i>
<b>Specific Absorption Rate (SAR) Information .....</b>	<b>14</b>
<i>FCC SAR peak values (in W/kg): .....</i>	<i>15</i>
<i>EU SAR peak values (in W/kg):.....</i>	<i>15</i>

# About This Guide

This document explains how to use your handset safely and provides guidelines for understanding the difference between your wireless handset and other types of telephones.

## Patent Information

The accompanying product is protected by one or more US and foreign patents and/or pending patent applications held by Spectralink® Corporation.

## Model Numbers Covered by this Guide



### **Spectralink 87-Series:**

Handset models: 874X, 875X

Charger models: UE08WCP-050150SPA, ABC87401, ACC87001, CBD87301, CBK87300, CBK87200

Battery Pack models: DM351, DM367

### **Spectralink 84-Series:**

Handset models: 8440, 8441, 8450, 8452, 8453

Charger models: SA106B-05, DCA39, DCA40, S0001

Speakerphone Dock: 8410

Battery Pack models: RS657, RS658

### **Spectralink 80-Series/60-Series:**

Handset models: 802X, 803X, 602X

Charger models: PCS1850, PCD1850, PCQ1850

Battery Pack models: PBP0850, PBP1300, PBP1850



#### **Web: Online Reference**

User Guides for all Spectralink handset models may be downloaded from <http://support.spectralink.com>.

Select product type and product name from the dropdown list in order to access the product support page.

## **Product Compatibility Information**



#### **Caution: Product compatibility/safety**

Spectralink handsets are intended for operation only with Spectralink battery packs and Spectralink chargers that belong to the same product Series. These Spectralink components are critical to product safety certification and may not be substituted. Representative samples of the Spectralink handsets, battery packs and chargers belonging to the same Series have been tested as a complete system by an independent testing organization and have been certified by that organization to meet applicable safety standards. Use or operation of any Spectralink handsets with batteries or chargers other than those authorized by Spectralink has not been tested or safety certified. Spectralink handsets, battery packs or chargers used or operated with products not authorized by Spectralink are not covered by the Spectralink Limited Product Warranty.



#### **Caution: Use authorized components only**

Only Spectralink battery packs and Spectralink chargers are authorized for use or operation with Spectralink handsets.

Only Spectralink battery packs are authorized for use or operation with a Spectralink 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>

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 box. Below this is the Spectralink logo with the tagline 'solving every day' and the word 'support'. A secondary navigation bar contains 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 form. The search form includes 'Product Category' (set to 'Wi-Fi') and 'Product Type' (set to '- Any -'), with a 'FIND' button. To the right of the search form is a list of product resources: 'All Documents & Downloads', 'Feature Requests', 'Product Alerts', 'Service Policies', 'FAQs', and 'Contact Support'. Below the search form are two sections: 'RMAs AND SERVICE REQUESTS' and 'CUSTOMER MANAGEMENT', both with lock icons. The 'RMAs AND SERVICE REQUESTS' section lists: 'RMA Status', 'My Service Requests', 'RMA Forms', 'My Company's Service Requests', 'RMA Requests', 'Repair Pricing', and 'My Company's RMAs'. The 'CUSTOMER MANAGEMENT' section lists: '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.

## Conventions Used In This Document

### Icons



#### **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.



#### **Web**

The *Web Info* icon highlights supplementary information available online such as documents or downloads on [support.spectralink.com](http://support.spectralink.com) or other locations.

# Chapter 1: Safety Information

## Spectralink 87-Series

Use only 87-Series products with other 87-Series products as identified by the model number located on the label of the product.

Spectralink 8753 Smartphone	875X
Spectralink 8744 Smartphone	874X
Spectralink 8742 Smartphone	874X
Spectralink 8741 Smartphone	874X
USB Charger	UE08WCP-050150SPA
Multi-Charger Base	ABC87401 (for ACC87001 and ACC87301)
Desktop Charger	ACC87001 (for DM367)
Triple Battery Charger	CBD87301 (for DM367)
Quad Charger (Combo)	CBK87300 (for both DM351 and DM367)
Quad Charger	CBK87200 (for DM351)
Standard Capacity Battery Pack	DM367 (for 8742/8744)
Standard Capacity Battery Pack	DM351 (for 8741/8753)

## Spectralink 84-Series

Use only 84-Series products with other 84-Series products as identified by the model number located on the label of the product.

Spectralink 8453 Wireless Telephone	8453
Spectralink 8452 Wireless Telephone	8452
Spectralink 8450 Wireless Telephone	8450
Spectralink 8441 Wireless Telephone	8441
Spectralink 8440 Wireless Telephone	8440
Spectralink 8410 Speakerphone Dock	8410
USB Charger	SA106B-05
Dual Charger	DCA39
Quad Charger	DCA40
12-Bay Multi-Charger	S0001



Standard Capacity Battery Pack	RS657
Extended Capacity Battery Pack	RS658

### **Spectralink 80-Series/60-Series**

Use only 80-Series/60-Series products with other 80-Series/60-Series products as identified by the model number located on the label of the product.

Spectralink 8020 Wireless Telephone	802X
Spectralink 8030 Wireless Telephone	803X
Spectralink 6020 Wireless Telephone	602X
Desktop Charger	PCS1850
Dual Charger	PCD1850
Quad Charger	PCQ1850
Standard Battery Pack	PBP0850
Extended Battery Pack	PBP1300
UltraExtended Battery Pack	PBP1850

## Chargers and Battery Packs



### **Spectralink recommends: For best performance read and follow the following tips**

Always use genuine Spectralink chargers and battery packs with Spectralink devices. Contact your Spectralink service representative for assistance if you have any problem with a Spectralink battery pack or charger.

### **Battery Packs**

Observe the following cautions when handling or using batteries.



#### **Warning**

THERE IS A RISK OF EXPLOSION IF YOU REPLACE THE BATTERY PACK WITH AN INCORRECT TYPE.

USE ONLY SPECTRALINK BATTERY PACK MODEL DM367 WITH SPECTRALINK 8742 AND 8744 HANDSETS. USE ONLY SPECTRALINK BATTERY PACK MODEL DM351 WITH SPECTRALINK 8741 AND 8753 HANDSETS.

USE ONLY SPECTRALINK MODEL RS657 OR RS658 BATTERY PACKS WITH SPECTRALINK 84-SERIES WIRELESS TELEPHONES.

USE ONLY SPECTRALINK MODEL PBP0850, PBP1300 AND PBP1850 BATTERY PACKS WITH SPECTRALINK 80-SERIES/60-SERIES WIRELESS TELEPHONES.

DISPOSE OF USED BATTERIES ACCORDING TO THE INSTRUCTIONS.



#### **Caution**

Do not throw away the Battery Pack with your domestic waste. Take used Battery Packs to an appropriate collection point for recycling or send them back to your supplier or servicing agent.



#### **Caution**

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



### Caution

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.

- Do not dismantle, open or shred batteries.
- Do not expose batteries to freezing temperatures.
- Do not expose batteries to heat or fire. Avoid storage in direct sunlight.
- Any Battery Pack which exhibits swelling, cracking or other abnormality should be disposed of promptly and properly.
- Do not subject batteries to mechanical shock.
- Wipe the battery terminals with a clean dry cloth if they become dirty.
- Observe the plus (+) and minus (-) marks on the battery and equipment and ensure correct use.
- Usage by children should be supervised.
- Seek medical advice immediately if a battery has been swallowed.
- In the event of a battery leaking, do not allow the liquid to come in contact with the skin or eyes. If contact has been made, wash the affected area with copious amounts of water and seek medical advice.
- Do not remove a battery from its original packaging until required for use.
- Keep batteries clean and dry.
- Do not leave a battery on prolonged charge when not in use.
- After extended periods of storage, it may be necessary to charge and discharge the batteries several times to obtain maximum performance.
- Retain the original product literature for future reference.
- When possible, remove the battery from the equipment when not in use.

## Chargers

Observe the following cautions when handling or using Spectralink chargers.

- Never use a non-Spectralink charging unit with Spectralink batteries as it could damage the Battery Pack. Only use Spectralink Battery Packs with Spectralink chargers.
- Only use the original plug-in power adapter for Spectralink chargers.

- 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.
- It is normal for the chargers to become warm when charging.
- Chargers operate in a 50° to 85° F (10° to 30° C) environment.
- Do not leave a battery on prolonged charge when not in use.
- Retain the original product literature for future reference.
- Do not immerse chargers in water or other fluid.

## Wireless Telephones



### Warning

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.



### Warning

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



### Note

It is recommended that standard acceptance procedures be followed prior to operating this equipment in proximity of life-support systems.



### Note

Earpiece may retain magnetic objects.

## Operational Warnings

### Potentially Explosive Atmospheres

Do not take your handset, charger, or battery 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.



### Note

Areas with potentially explosive atmospheres include fueling areas such as below 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 posted, but not always.

## *Electromagnetic Interference and Compatibility*



### Note

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 RF energy.

### Pacemakers

The Health Industry Manufacturers Association recommends that a minimum separation of 6 inches (15 cm) be maintained 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.

## Usage 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 a handset is placed in the airbag deployment area and the airbag inflates, the handset may be propelled at high speed and cause serious injury to occupants of the vehicle.

## Specific Absorption Rate (SAR) Information

Your wireless telephone is a low-power radio transmitter and receiver. When it is ON, it receives and also sends out radio frequency (RF) signals. In August 1996, the Federal Communications Commissions (FCC) adopted RF exposure guidelines with safety levels for hand-held wireless telephones. 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

Those 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 phones employs a unit of measurement known as the Specific Absorption Rate, or SAR. The SAR limit set by the FCC is 1.6 W/kg.

Tests for SAR are conducted using standard operating positions specified by the FCC with the telephone 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 telephone while operating can be well below the maximum value. This is because the telephone is designed to operate at multiple power levels so as to use only the power required to reach the network. Before a telephone model is available for sale to the public, it must be tested and certified to the FCC that it does not exceed the limit established by the government-adopted requirement for safe exposure. The tests are performed in positions and locations (e.g., 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 telephones and at various positions, they all meet the government requirement for safe exposure.

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

SAR information is on file with the FCC and can be found under the Display Grant section of <http://www.fcc.gov/oet/ea> after searching on the FCC ID number on the label inside the handset's battery compartment.

Additional information on Specific Absorption Rates (SAR) can be found on the Cellular Telecommunications Industry Association (CTIA) Website at <http://www.ctia.org/>.

**FCC SAR peak values (in W/kg):**

**8741/53-head:** 1.320 W/kg Head Tissue

**8741/53-body:** 0.280 W/kg Body Tissue

**8742/44-head:** 1.420 W/kg Head Tissue

**8742/44-body:** 0.410 W/kg Body Tissue

**84xx-head:** 0.586 W/kg Head Tissue

**84xx-body:** 0.799 W/kg Body Tissue

**802X-head:** 0.37 W/kg Head Tissue

**802X-body:** 0.39 W/kg Body Tissue

**803X-head:** 0.40 W/kg Head Tissue

**803X-body:** 0.40 W/kg Body Tissue

**6020-head:** 0.463 W/kg Head Tissue

**6020-body:** 0.223 W/kg Body Tissue

**EU SAR peak values (in W/kg):**

**8741/53-head:** 0.44 W/kg Head Tissue

**8741/53-body:** 0.48 W/kg Body Tissue

**8742/44-head:** 0.51 W/kg Head Tissue

**8742/44-body:** 0.60 W/kg Body Tissue

**84xx-head:** 0.370 W/kg Head Tissue

**84xx-body:** 0.995 W/kg Body Tissue

**802X-head:** 0.37 W/kg Head Tissue

**802X-body:** 0.39 W/kg Body Tissue

**803X-head:** 0.40 W/kg Head Tissue

**803X-body:** 0.40 W/kg Body Tissue

Use only those headsets authorized by Spectralink or its reseller partners with the Spectralink 80-Series Wireless Telephones.

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