

Spectralink DECT Repeater

Installation Guide

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Spectralink Corporation,
2550 55th Street,
Boulder CO 80301,
USA

Spectralink Europe ApS,
Langmarksvej 34,
8700 Horsens,
Denmark

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Chapter 1: Installing Spectralink DECT Repeater

This guide describes the Spectralink DECT Repeater and how to unpack and install it. Installing repeaters requires a software installation as well as a hardware installation.

Before you install the equipment, ensure that a site planner defines the location of the repeaters.

For installations, the following items should be present in every box containing a Spectralink DECT Repeater:

- Spectralink DECT Repeater
- Mounting template
- Two mounting screws and anchors

Spectralink DECT Repeater Description

The Spectralink DECT Repeater is a building block to be used to extend the coverage area in a Spectralink DECT solution. The repeater does not increase the number of traffic channels, however it provides a larger physical spreading of the traffic channels and thereby increases the coverage area established with the Spectralink Base Stations.

The repeaters are mainly used in areas with limited traffic. The Spectralink DECT Repeater is available with either 2 or 4 voice channels. It is wireless and does not need physical connection to the Spectralink DECT Server, making it very easy to install. The repeaters can be supplied with an external antenna making it possible to create radio coverage in a remote area without cabling to the rest of the installation.

Spectralink DECT Repeater Types and Part Numbers

The Repeaters comply with the ETSI Standard for DECT and the DECT 6.0 Standard for US and Canada.

The repeaters are for indoor use only and can be used together with all Spectralink DECT Base Stations and Servers.

Table 1 Spectralink DECT Repeater and Spectralink DECT Server portfolio

	Spectralink IP-DECT Server 400	Spectralink DECT Server 2500	Spectralink IP-DECT Server 6500	Spectralink DECT Server 8000
2 channels, external antenna multi-cell 1G8 Part no. 0244 0000	X	X	X	X
2 channels, external antenna multi-cell 1G9 Part no. 0244 1000	X	X	X	X
2 channels – without external antenna multi-cell 1G8 Part no. 0244 1100	X	X	X	X
2 channels – without external antenna multi-cell 1G9 Part no. 0244 1200	X	X	X	X
4 channels – without external antenna multi-cell 1G8 Part no. 0233 4601	X	X	X	X
4 channels – without external antenna multi-cell 1G9 Part no. 0233 8200	X	X	X	X
4 channels external antenna multi-cell 1G8 Part no. 0244 1600	X	X	X	X
4 channels external antenna multi-cell 1G9 Part no. 0244 0200	X	X	X	X

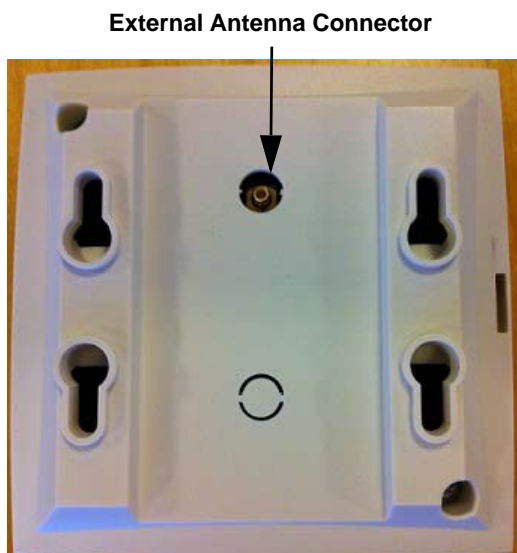
Overview of the Spectralink DECT Repeater

The repeater panel includes the following:

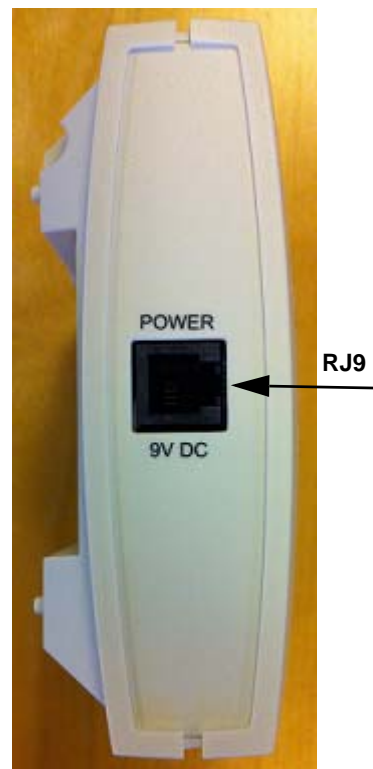
- Power supply connection and Programming Connector (RJ9). The power supply must be ordered separately. Part no. 84642602.
- External antenna connector (SMB connector).
- LED indicator.

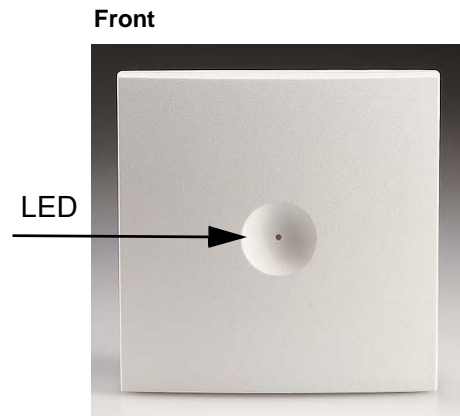
Figure 1 Repeater

Rear



Bottom





The repeater LED indicator indicates the repeater operations. The indicator is off when the repeater is not powered. When the LED flashes after the repeater has been powered, sync has still not been established. As soon as sync has been established, the LED is always on. Every time a handset connects or makes handover to the repeater, the LED flashes shortly.

Spectralink DECT Repeater - Site Installation

Before you begin the installation, determine the position of the repeater for best coverage. The coverage depends on the construction of the building and the choice of building materials.

The repeater can be registered on the system under the following circumstances.

- When placed within the coverage area of a base station
- When placed within the coverage area of an already-installed repeater
- When placed outside the coverage area of a base station or repeater using an external antenna.

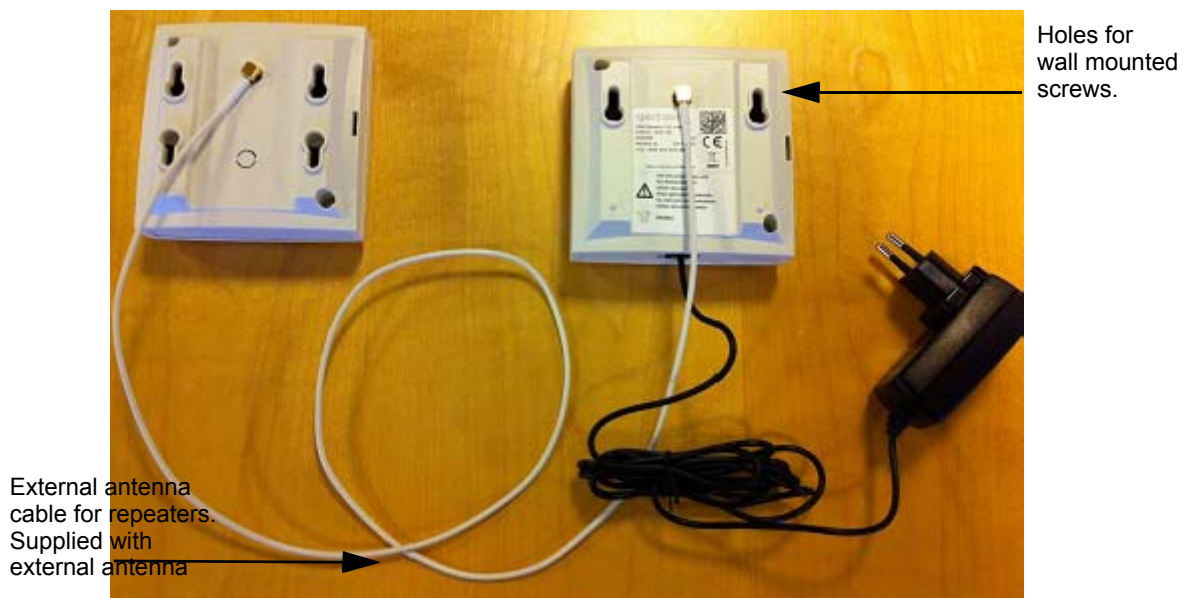
The repeater does not add channels. It only adds additional coverage area.

Environmental Considerations

- Do not install a repeater near metal objects and steel constructions.
- Do not position repeaters in ducts, plenums or hollow spaces used to transport environmental air except where the duct, plenum or hollow space is created by a suspended ceiling having lay-in panels.
- Do not position repeaters behind furniture.
- The installation area must be clean, free of traffic and excess dust, dry, and well ventilated.
- The installation area must be within the temperature ranges of 10°C and 40°C/50°F and 104°F.
- The installation area must be between 20% and 80% non-condensing relative humidity.

For best RF coverage, the repeater must be mounted vertically on walls.

Figure 2 Connect Power to the Bottom of the Repeater and External Antenna Cable to the Rear of the Repeater



- 1 Connect the power supply cable to the RJ9 connector on the bottom side of the repeater. For repeaters with external antenna, connect the external antenna cable to the antenna connector on the rear side of the repeater and in the same way on the external antenna.
- 2 Mount the repeater onto the wall using the screws and anchors accompanying the repeater.



Caution

The repeater and external antenna is to be fixed-mounted on indoor permanent structures providing a separation distance of at least 20 cm / 8 inches from all persons during normal operation and must not be co-located or operating in conjunction with any other antenna or repeater. The maximum radiated output power is 1W e.i.r.p. For more information and technical support, please refer to www.spectralink.com.

Programming a Spectralink DECT Repeater with the Spectralink Programming Kit

Content of the Spectralink Programming Kit Repeater

The Programming Kit Repeater (Part no. 02509210) consists of:

- splitter
- Programming tool with RJ-Connector
- USB cable

Figure 3 Repeater Programming Kit



Set up of the Hardware for Repeater Programming

It is recommended that you carry out the set up in the following order.

- 1** Unplug the repeater power supply adapter and insert the splitter.
- 2** Connect the repeater power supply adapter to the splitter and the mains. LED flashes.
- 3** Connect the USB cable to the programming tool, and install the Service Tool from www.support.spectralink.com.

The repeater is now ready for programming via the Service Tool.

Programming the Spectralink DECT Repeater with the Service Tool

The Service Tool is the tool you access from your desktop and use for repeater programming, handset adjustment and software download to the handset and repeater.

The Service Tool identifies the type of repeater, and with this software it is possible to program the Spectralink DECT Repeater to connect to the Spectralink DECT Radio Infrastructure solutions.

Before you start programming the repeater, ensure that the repeater is connected to the computer and the mains.

Numbering of Base Stations and Repeaters in a Normal Configuration



Note

Repeater and base station numbers must not be the same. Also, in a situation where common overlap is present between the actual units, a repeater cannot have a number that is similar to that of a base station or another repeater. If this occurs, handover between the different units is not possible.

First Repeater

- No. of base station + 64
- Base to synchronize on: Number of base station

Second Repeater

- No. of base station + 128
- Base to synchronize on: Number of base station

Third Repeater

- No. of base station + 192
- Base to synchronize on: Number of base station

Numbering of Repeaters in a Repeater Jump Configuration

First Repeater in Chain

- No. of base station + 64
- Base to synchronize on: Number of base station

Second Repeater in Chain

- No. of base station + 128
- Base to synchronize on: Number of previous repeater

Third Repeater in Chain

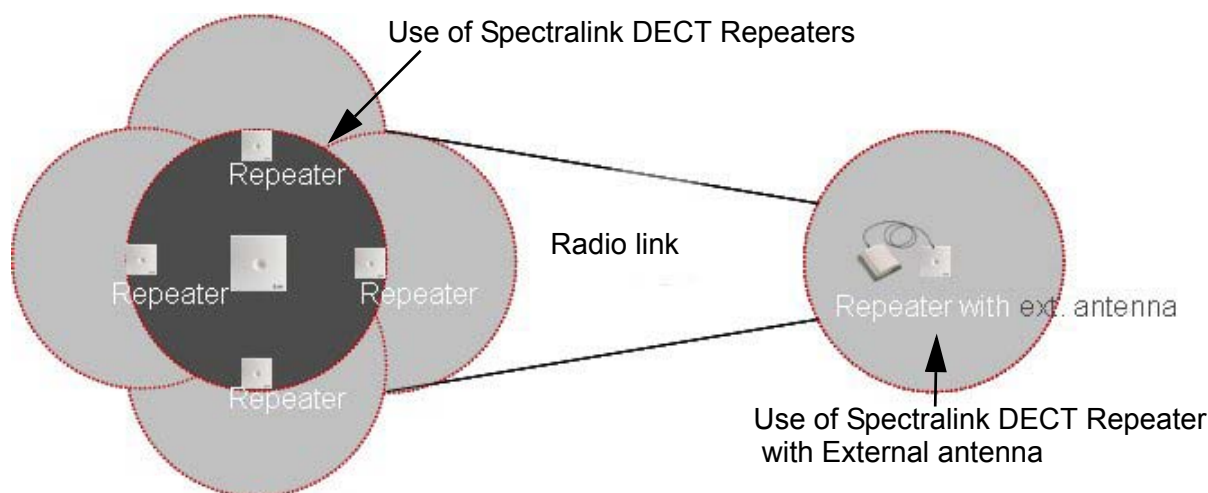
- No. of base station + 192
- Base to synchronize on: Number of previous repeater

For more information about programming the repeater with the Service Tool, refer to the Help File in the Service Tool.

Using the Spectralink DECT Repeater With External Antenna

If coverage is needed in a remote area, synchronization can be established between the main system and a repeater by use of an external antenna.

Figure 4 Use of Repeaters



The radio link way must be stable and free of moving objects. The RSSI level of the main system at the repeater placed remotely must not be lower than 75. Be aware that inside the area named "radio link" there is no radio coverage for handsets. Only the Spectralink External Antenna is approved along with the Spectralink DECT Repeater.

If a situation occurs where the primary sync for some reason breaks down, the repeater will obtain sync on the alternative sync.

Alternative Synchronization Ways



The repeater with or without external antenna, 4 channels, can be programmed to obtain synchronization on two radio units (base station, wireless server or repeater).

Be aware that the primary sync has priority; the alternative sync is only in use as long as the primary sync is down.

Chapter 2: Regulatory Notices

This section contains important safety regulations for the Spectralink DECT Repeaters.


International Regulatory and Product Information

	<p>This Spectralink product has been marked with the CE mark. This mark indicates compliance with EEC Directives 1999/5/EC. A full copy of the Declaration of Conformity can be obtained from Spectralink Europe ApS, Langmarksvej 34, 8700 Horsens, Denmark.</p>
	<p>The WEEE Marking on this equipment indicates that the product must not be disposed of with unsorted waste, but must be collected separately.</p>

Cesky [Czech]:	Spectralink tímto prohlašuje, že tento Spectralink DECT Repeater je ve shodě se základními požadavky a dalšími příslušnými ustanoveními směrnice 1999/5/ES.
Dansk [Danish]:	Undertegnede Spectralink erklærer herved, at følgende Spectralink DECT Repeater overholder de væsentlige krav og øvrige relevante krav i direktiv 1999/5/EF.
Deutsch [German]:	Hiermit erkläre Spectralink, dass sich das Gerät Spectralink DECT Repeater in Übereinstimmung mit den grundlegenden Anforderungen und den übrigen einschlägigen Bestimmungen der Richtlinie 1999/5/EG befindet.
Eesti [Estonian]:	Käesolevaga kinnitab Spectralink seadme Spectralink DECT Repeater vastavust direktiivi 1999/5/EÜ põhinõuetele ja nimetatud direktiivist tulenevatele teistele asjakohastele sätetele.
English:	Hereby, Spectralink. declares that this Spectralink DECT Repeater is in compliance with the essential requirements and other relevant provisions of Directive 1999/5/EC.
Español [Spanish]:	Por medio de la presente Spectralink declara que el Spectralink DECT Repeater cumple con los requisitos esenciales y cualesquiera otras disposiciones aplicables o exigibles de la Directiva 1999/5/CE.
Ελληνική [Greek]:	ΜΕ ΤΗΝ ΠΑΡΟΥΣΑ Spectralink ΔΗΛΩΝΕΙ ΟΤΙ Spectralink DECT Repeater ΣΥΜΜΟΡΦΩΝΕΤΑΙ ΠΡΟΣ ΤΙΣ ΟΥΣΙΩΔΕΙΣ ΑΠΑΙΤΗΣΕΙΣ ΚΑΙ ΤΙΣ ΛΟΙΠΕΣ ΣΧΕΤΙΚΕΣ ΔΙΑΤΑΞΕΙΣ ΤΗΣ ΟΔΗΓΙΑΣ 1999/5/ΕΚ.

Français [French]:	Par la présente Spectralink déclare que l'appareil Spectralink DECT Repeater est conforme aux exigences essentielles et aux autres dispositions pertinentes de la directive 1999/5/CE.
Italiano [Italian]:	Con la presente Spectralink dichiara che questo Spectralink DECT Repeater è conforme ai requisiti essenziali ed alle altre disposizioni pertinenti stabilite dalla direttiva 1999/5/CE.
Íslenska [Icelandic]:	Hér með lýsir Spectralink yfir því að Spectralink DECT Repeater er í samræmi við grunnkröfur og aðrar kröfur, sem gerðar eru í tilskipun 1999/5/EC
Latviski [Latvian]:	Ar šo Spectralink deklare, ka Spectralink DECT Repeater atbilst Direktivas 1999/5/EK būtiskajam prasibam un citiem ar to saistitajiem noteikumiem.
Lietuviu [Lithuanian]:	Šiuo Spectralink deklaruoja, kad šis Spectralink DECT Repeater atitinka esminius reikalavimus ir kitas 1999/5/EB Direktyvos nuostatas.
Nederlands [Dutch]:	Hierbij verklaart Spectralink dat het toestel Spectralink DECT Repeater in overeenstemming is met de essentiële eisen en de andere relevante bepalingen van richtlijn 1999/5/EG.
Malti [Maltese]:	Hawnhekk, Spectralink, jiddikjara li dan Spectralink DECT Repeater jikkonforma mal-htigijiet essenzjali u ma provvedimenti oħrajn relevanti li hemm fid-Dirrettiva 1999/5/EC.
Magyar [Hungarian]:	Alulírott, Spectralink nyilatkozom, hogy a Spectralink DECT Repeater megfelel a vonatkozó alapvető követelményeknek és az 1999/5/EC irányelv egyéb előírásainak.
Norsk [Norwegian]:	Spectralink erklærer herved at utstyret Spectralink DECT Repeater er i samsvar med de grunnleggende krav og øvrige relevante krav i direktiv 1999/5/EF.
Polski [Polish]:	Niniejszym Spectralink oświadcza, że Spectralink DECT Repeater jest zgodne z zasadniczymi wymaganiami oraz innymi stosownymi postanowieniami Dyrektywy 1999/5/WE
Português [Portuguese]:	Spectralink declara que este Spectralink DECT Repeater está conforme com os requisitos essenciais e outras disposições da Directiva 1999/5/CE.
Slovensko [Slovenian]:	Spectralink izjavlja, da je ta Spectralink DECT Repeater v skladu z bistvenimi zahtevami in ostalimi relevantnimi določili direktive 1999/5/ES.
Slovensky [Slovak]:	Spectralink týmto vyhlasuje, že Spectralink DECT Repeater spĺňa základné požiadavky a všetky príslušné ustanovenia Smernice 1999/5/ES.
Suomi [Finnish]:	Spectralink vakuuttaa täten että Spectralink DECT Repeater tyyppinen laite on direktiivin 1999/5/EY oleellisten vaatimusten ja sitä koskevien direktiivin muiden ehtojen mukainen.
Svenska [Swedish]:	Härmed intygar Spectralink att denna Spectralink DECT Repeater står i överensstämmelse med de väsentliga egenskapskrav och övriga relevanta bestämmelser som framgår av direktiv 1999/5/EG.

Explosive Device Proximity Warning

	<p>Warning.</p> <p>Do not operate your wireless network device near unshielded blasting caps or in an explosive environment unless the device has been modified to be especially qualified for such use.</p>
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Waarschuwing	Gebruik dit draadloos netwerkkapparaat alleen in de buurt van onbeschermde ontstekers of in een omgeving met explosieven indien het apparaat speciaal is aangepast om aan de eisen voor een dergelijk gebruik te voldoen.
Varoitus	Älä käyttää johdotonta verkkolaitetta suojaamattomien räjäytysnallien läheisyydessä tai räjäytysalueella, jos laitetta ei ole erityisesti muunneltu sopivaksi sellaiseen käyttöön.
Attention	Ne jamais utiliser un équipement de réseau sans fil à proximité d'un détonateur non blindé ou dans un lieu présentant des risques d'explosion, sauf si l'équipement a été modifié à cet effet.
Warnung	Benutzen Sie Ihr drahtloses Netzwerkgerät nicht in der Nähe ungeschützter Sprengkapseln oder anderer explosiver Stoffe, es sei denn, Ihr Gerät wurde eigens für diesen Gebrauch modifiziert und bestimmt.
Avvertenza	Non utilizzare la periferica di rete senza fili in prossimità di un detonatore non protetto o di esplosivi a meno che la periferica non sia stata modificata a tale proposito.
Advarsel	ikke bruk den trådløse nettverksenheten nært inntil uisolerte fenghetter eller i et eksplosivt miljø med mindre enheten er modifisert slik at den tåler slik bruk.
Aviso	Não opere o dispositivo de rede sem fios perto de cápsulas explosivas não protegidas ou num ambiente explosivo, a não ser que o dispositivo tenha sido modificado para se qualificar especialmente para essa utilização.
¡Advertencia!	No utilizar un aparato de la red sin cable cerca de un detonador que no esté protegido ni tampoco en un entorno explosivo a menos que el aparato haya sido modificado con ese fin.
Varning!	Använd inte den trådlösa nätverksenheten i närheten av oskyddade tändhättar eller i en explosiv miljö om inte enheten modifierats för att kunna användas i sådana sammanhang.

**Appropriate RF
safety/installation information**

The repeater is intended to be installed by authorized personal. The repeater shall be installed in accordance with FCC rules.

WARNING

This is a class A product. In a domestic environment this product may cause radio interference in which case the user may be required to take adequate measures. The above warning is inserted for regulatory reasons. If any customer believes that they have an interference problem, either because their KIRK product seems to cause interference or suffers from interference, they should contact their distributor immediately. The distributor will assist with a remedy for any problems and, if necessary, will have full support from Spectralink.

Safety

WARNING!

Only qualified service personnel may install this equipment. The instructions in this manual are intended for use by qualified service personnel only.

Only qualified persons should service the system.

The installation and service of this hardware is to be performed only by service personnel having appropriate training and experience necessary to be aware of hazards to which they are exposed in performing a task and of measures to minimize the danger to themselves or other persons.

Electrical shock hazards from the telecommunication network and AC mains are possible with this equipment. To minimize risk to service personnel and users, the system must be connected to an outlet with a third-wire Earth.

Service personnel must be alert to the possibility of high leakage currents becoming available on metal system surfaces during power line fault events near network lines. These leakage currents normally safely flow to Protective Earth via the power cord. Therefore, it is mandatory that connection to an earthed outlet is performed first and removed last when cabling to the unit. Specifically, operations requiring the unit to be powered down must have the network connections (exchange lines) removed first.

Important Safety Instructions and Product Information

Before using your telephone equipment, you should always follow basic safety instruction to reduce the risk of fire, electrical shock and injury to persons, and damage to property.

- 1 Read and understand all instructions
- 2 Follow all warnings and instructions including those marked on the product
- 3 Unplug this product before cleaning. Do not use liquid cleaners or aerosol cleaners. Use damp cloth for cleaning
- 4 Do not install the telephone equipment in the bathroom or near a wash bowl, kitchen sink, or laundry tub, in a wet basement, or near a swimming pool
- 5 The product should be operated only from the type of power source indicated on the instructions. If you are not sure of the type of power supply, consult your dealer or local power company.
- 6 Do not overload wall outlets and extension cords as this can result in fire or electrical shock.
- 7 Never push objects of any kind into this product through cabinet slots as they may touch dangerous voltage points or short out parts that could result in fire, electrical shock, or injury. Never spill liquid of any kind into this product.
- 8 To reduce the risk of electrical shock or burns, do not disassemble this product. Opening or removing covers may expose you to dangerous voltages, dangerous electrical current, or other risks. Incorrect reassemble can cause electrical shock when the appliance is subsequently used. If the product need repair, consult your dealer.
- 9 This product does not support connections to outside plant.
- 10 Refer servicing to qualified service personnel under the following conditions:
 - If liquid has been spilled into the product
 - If the product has been exposed to rain or water
 - If the product does not operate normally when following the operating instructions in the manual. Adjust only those controls that are covered by the operation instructions. Improper adjustment of other controls may result in damage and will often require extensive work by qualified service personnel to restore the product to normal operation.
 - If the product has been dropped or cabinet has been damaged
 - If the product exhibits a distinct change in performance
- 11 Avoid using telephone during an electrical storm. There may be a risk of electrical shock from lightning
- 12 Do not use the telephone to report a gas leak in the vicinity of the leak
- 13 Do not place the unit near microwave ovens, radio equipment, or non-ground connected televisions. These appliances may cause electrical interference to the base or handset
- 14 The unit must be installed on a hard, plane surface and connected to a functional 120 volt AC power net adapter and plug the adapter into the power outlet

- 15** The system will not operate in the event of a blackout. Please keep a backup phone for emergencies

Intrinsic safety

Do not install the unit in conditions where there is a danger of electrically ignited explosions.

Exposure to sunlight, heat and moisture

Do not expose the unit to direct sunlight for long periods. Keep away from excessive heat and moisture.

Spare parts and accessories

Use only approved spare parts and accessories. The operation of non-approved parts cannot be guaranteed and may even cause damage.

RF compliance information

The users manual or instruction manual for an intentional or unintentional radiator shall caution the user that changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

NOTICES

FCC Note:

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

IC Note:

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. The term "IC:" before the certification /registration number only signifies that the Industry Canada technical specifications were met.

Information to user:

The users manual or instruction manual for an intentional or unintentional radiator shall caution the user that changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

LIMITED WARRANTY

This limited, non-transferable warranty is provided to the original purchaser. The product is warranted to be free from defects in materials and workmanship under normal installation, use and service for a period of one (1) year from the date of purchase as shown on the purchaser's receipt.

Our obligation under this warranty is limited to repair or replacement (at our option) of the product or any part(s) which are defective provided that the product is returned to the original place of purchase or an authorized service location during the warranty period. Products returned must be accompanied by a copy of the purchase receipt. In the absence of a purchase receipt, the warranty period shall be one (1) year from the date of manufacture. Repair or replacement of the product is your sole and exclusive remedy.

If the product is repaired, reconditioned component parts or materials may be used. If the product is replaced, we may replace it with a new or reconditioned product of the same or similar design. The repaired product will be warranted for either (a) 90 days or (b) the remainder of the original one (1) year warranty period, whichever is longer.

This warranty does not apply to the defects outside of our control, including but not limited to acts of God, fire, flood and damage while in transit to service facility. We do not warranty that the product will be compatible with any telephone equipment, systems or party lines.

This warranty shall be void if the product is damaged as a result of defacement, misuse, abuse, neglect, accident, destruction or alteration of the serial number, improper electrical voltages or currents, repair, alteration or maintenance by any person or party other than our authorized service facility, or any violation of instructions furnished by us.

This warranty is also void if this product is removed from the country in which it was purchased by the original purchaser, if it is used in a country in which it is not registered for use, or if it is used in a country for which it was not designed. Due to variations in telephone systems and communications laws, this product may be illegal for use in some countries. We assume no responsibilities for damages or penalties incurred resulting from the use of this product in a manner or location other than that for which it was intended.

THIS LIMITED WARRANTY IS IN LIEU OF ALL OTHER WARRANTIES EXPRESS OR IMPLIED. ANY IMPLIED WARRANTIES INCLUDING BUT NOT LIMITED TO THE IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE, SHALL BE LIMITED TO THE DURATION OF THIS WRITTEN LIMITED WARRANTY. WE DISCLAIM ANY LIABILITY FOR DAMAGES FOR LOSS OF USE OF THE PRODUCTS, LOSS OF TIME, INCONVENIENCE, INJURY TO ANY PERSON, OR DAMAGE TO PROPERTY CAUSED BY THE PRODUCT, LOSS OF REVENUE OR PROFIT OR DAMAGES FOR ANY FAILURE TO PERFORM. IN NO EVENT SHALL WE BE LIABLE FOR ANY SPECIAL, INCIDENTAL, PUNITIVE OR CONSEQUENTIAL DAMAGES EVEN IF WE ARE ADVISED OF THE POSSIBILITY OF SUCH DAMAGES.

Some states do not allow limitations on how long an implied warranty lasts, so the above limitations may not apply to you. This warranty is the sole and exclusive warranty provided for the product. There are no other express warranties. This warranty gives you specific legal rights, and you may also have other rights, which vary from state to state.

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Spectralink Corporation
2560 55th Street
Boulder CO 80301, USA

Spectralink Europe ApS
Langmarksvej 34
DK-8700 Horsens
Tel. +45 7560 2850

infodk@Spectralink.com
www.Spectralink.com