

SpotCell 100 v2.3/v3.0  
SpotCell 111/112 v3.0  
SpotCell 141/142 v1.0  
SpotCell 163 v1.0

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# Spotwave® SpotCell® 100 Series Important Information



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## Technical Support

The SpotCell® serial number must be available to authorize technical support and/or to establish a return authorization for defective units. The serial number is located on the back of the Coverage Unit (CU) and Donor Unit (DU) as well as the box in which they were delivered. To contact support by telephone, call your local Spotwave vendor, or if you are unable to reach your vendor, contact Spotwave Wireless at 1-877-610-9586.

Additional support information may be obtained by accessing the Spotwave Wireless Inc. website at [www.spotwave.com](http://www.spotwave.com).

# Release Notes

## Overview

Thank you for choosing the Spotwave® SpotCell® 100 series. These release notes include information not in the *SpotCell 100 Series User Guide* or *Quick Installation Guide*.

## Spotwave Cables

Cables and connectors provided by Spotwave Wireless follow strict specifications for impedance, attenuation, RF loss, quality, and safety. Use only Spotwave provided cables when connecting the Donor Unit (DU) to the Coverage Unit (CU).

If non-Spotwave cables must be used, contact Spotwave support for cable and connector specifications.

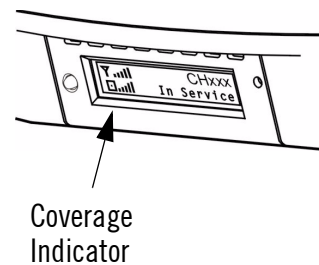
## In-Building DU Installations

SpotCell systems may have a reduced coverage area when the DU is installed inside the same building as the CU. This may be indicated by a CU display showing less than 5 bars for coverage area. Contact Spotwave support if the coverage area of your SpotCell system is less than expected.

## Coverage

For some applications, the coverage area for the SpotCell systems release v3.0 may be better than that of previous released products.

The SpotCell 163/263 products operate in the same frequency band as emergency services using push-to-talk two-way radio systems. Such communications are intermittent in nature and may, momentarily, slightly reduce the coverage area for a SpotCell 163/263 system - typically about 20 seconds per occurrence.



## Channel Indication and DU Alignment

SpotCell 100 System. When installing the SpotCell 100 system v2.3, the DU directional alignment makes use of CDMA signals or analog signals. When installing the SpotCell 100 system v3.0, the DU directional alignment makes use of signals that correspond to the product format, i.e. a CDMA SpotCell aligns on CDMA signals, a GSM SpotCell aligns on GSM/TDMA signals.

SpotCell 111 System. In some networks, the phase out of the TDMA system is happening progressively. The SpotCell 111 DU can be aligned to networks providing TDMA only, or both TDMA and GSM. The SpotCell 111 display indicates GSM channels only. The channel number displayed will be the closest matching GSM channel. This has no impact on system performance.

SpotCell 163 System. V1.0 SpotCell 163 (iDEN<sup>®</sup>) may occasionally display a channel number that is offset from the actual channel number by +/-1. This has no impact on system performance. The system is using the correct level and carrier frequency to adaptively control gain.

## **SpotCell 141/142 (Dual Band) System Status Indicators**

The LCD and LED on the CU indicate the status of only one band at a time, as selected by the Band Select switch on the back of the CU.

An indication of poor coverage or a system Alarm may not be a sign of an improperly functioning system, but may result from the Band Select switch being set to a band that is not currently available in the area. If this is the case (and you expect the service to be activated soon) then the associated DU should be aligned in the same direction as the DU with active signals available.

## **SpotCell 163 (iDEN<sup>®</sup>) System LED Indication**

The LED display on the back of the SpotCell 163 DU is slightly different than that of other SpotCell systems. When in the Install Mode, the SC163 DU LED will flash on and off. Then when a detected signal is being analyzed the flashing will stop and the LED will turn off. When rotating the DU during the DU alignment procedure it is best to halt the rotation during the time that a signal is being analyzed, then continue the rotation when the LED flashing resumes.

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## LIMITED WARRANTY AND LIMITATION OF LIABILITY

**1. What is Covered and for How Long?** Spotwave Wireless Inc. ("Spotwave") warrants to the original Purchaser that the Spotwave SpotCell System (the "System") is free from defects in material and workmanship under normal use and service for a period of 12 months from the date of shipment from Spotwave (the "Limited Warranty Period").

**2. What is not covered?** This Limited Warranty is conditioned upon proper use of the System by the Purchaser. This Limited Warranty does not cover (and will become null and void in the event of): (a) defects or damage resulting from accident, misuse, abuse, neglect, unusual physical, electrical or electromechanical stress, modification of the System or any part thereof, or cosmetic damage; (b) removal, alteration or defacing of the serial number or other identifying marks on the System; (c) all plastic surfaces and other externally exposed components that are scratched or damaged due to normal use; (d) malfunctions resulting from the use of the System in conjunction with accessories, products or (ancillary) or peripheral equipment not provided by Spotwave; or (e) defects or damage from improper testing, operation, maintenance, installation, servicing or adjustment of the System. Any repairs or replacements provided by Spotwave outside of the Limited Warranty Period (including repairs to or replacement after the end of the Warranty Period), or in excess of the services provided during the Limited Warranty Period, will subject to Spotwave's then prevailing rates.

**3. What are Spotwave's Obligations and how do you make a claim?** During the Limited Warranty Period, Spotwave will repair or replace, at Spotwave's sole option, without charge to Purchaser, any defective component of the System, provided that the System is returned promptly upon discovery of the defect and within the Limited Warranty Period. To obtain service, Systems must be returned to an authorized service facility in the original packaging or packaging adequate for shipping, accompanied by Purchaser's sales receipt or comparable substitute proof of sale showing the date of purchase and the serial number of the System. A valid RMA is required prior to any return.

**To locate your nearest authorized service facility, call Spotwave Customer Service at 1-877-610-9586.**

Spotwave may, at Spotwave's sole option, use rebuilt, reconditioned, or new parts or components when repairing any System or replace a System with a rebuilt, reconditioned or new System. Repaired Systems will be warranted for a period equal to the remainder of the original Limited Warranty Period for the original System or for 90 days, whichever is longer. All replaced parts, components, boards or equipment shall become the property of Spotwave. If Spotwave determines that any System is not covered by this Limited Warranty, Purchaser must pay the costs for all parts, shipping, and labor charges for the repair or return of such System.

**4. What are the Limits on Spotwave's Liability?** EXCEPT FOR THE WARRANTY IN PARAGRAPH 1, THE SYSTEMS AND ANY ASSOCIATED SERVICES ARE PROVIDED BY SPOTWAVE ON AN 'AS IS' BASIS AND THERE ARE NO OTHER REPRESENTATIONS, WARRANTIES OR CONDITIONS, EXPRESS OR IMPLIED, WRITTEN OR ORAL, ARISING BY STATUTE, OPERATION OF LAW, COURSE OF DEALING, USAGE OF TRADE OR OTHERWISE, REGARDING THEM OR ANY OTHER PRODUCT OR SERVICE PROVIDED HEREUNDER OR IN CONNECTION HERewith BY SPOTWAVE. SPOTWAVE DISCLAIMS ANY IMPLIED WARRANTIES TO THE EXTENT PERMITTED BY LAW OR CONDITIONS OF DURABILITY, MERCHANTABILITY, MERCHANTABLE QUALITY, SATISFACTORY QUALITY, NONINFRINGEMENT OR FITNESS FOR A PARTICULAR PURPOSE. SPOTWAVE DOES NOT REPRESENT OR WARRANT THAT THE SYSTEMS WILL MEET ANY OR ALL OF PURCHASERS' PARTICULAR REQUIREMENTS, THAT THE SYSTEMS WILL OPERATE ERROR-FREE OR UNINTERRUPTED OR THAT ALL ERRORS OR DEFECTS IN THE SYSTEMS CAN BE FOUND TO BE CORRECTED. System performance is dependant upon the performance and availability of services or technology provided by third parties and Spotwave is not responsible for service continuity and reliability, reception, or other performance related limitations associated with use of the Systems. NO AGREEMENTS VARYING OR EXTENDING THE TERMS OF THIS LIMITED WARRANTY WILL BE BINDING ON SPOTWAVE UNLESS IN WRITING AND SIGNED BY AN AUTHORIZED SIGNING OFFICER OF SPOTWAVE THIS LIMITED WARRANTY SHALL NOT EXTEND TO ANYONE OTHER THAN THE ORIGINAL PURCHASER OF THE SYSTEM. SPOTWAVE'S MAXIMUM AGGREGATE LIABILITY TO PURCHASER SHALL NOT EXCEED THE AMOUNTS PAID BY PURCHASER FOR THE SYSTEM GIVING RISE TO THE CLAIM. SPOTWAVE SHALL NOT BE LIABLE FOR ANY SPECIAL, INCIDENTAL, CONSEQUENTIAL, INDIRECT OR SIMILAR DAMAGES, LOSS OF USE, DATA OR PROFITS, DAMAGES TO PURCHASER'S PROPERTY, OR INJURY TO PURCHASER OR OTHERS ARISING OUT OF THE USE, MISUSE OR INABILITY TO USE ANY SYSTEM, WHETHER OR NOT SUCH DAMAGE ARISES OUT OF CONTRACT OR TORT (INCLUDING WITHOUT LIMITATION, NEGLIGENCE) OR CLAIMS BY A THIRD PARTY, EVEN IF SPOTWAVE HAS BEEN ADVISED OF SUCH DAMAGES OR THEY ARE FORESEEABLE. SOME STATES/COUNTRIES DO NOT ALLOW THE EXCLUSION OR LIMITATION OF LIABILITY FOR CONSEQUENTIAL OR INCIDENTAL DAMAGES, SO THE ABOVE LIMITATIONS MAY NOT APPLY TO YOU.

**5. This Limited Warranty** allocates risk between Purchaser and Spotwave, and the Spotwave System pricing reflects this allocation of risk and the limitations of liability contained in this Limited Warranty. The agents, employees, distributors, dealers or representative of Spotwave are not authorized to make modifications to this Limited Warranty, or make additional warranties binding on Spotwave. Accordingly, additional statements such as advertising or presentations, whether oral or written, do not constitute warranties by Spotwave and should not be relied upon.

**6. Who Owns the rights in the System?** The System is protected by Canadian, US and international copyright law and other intellectual property protection laws and treaties. Purchaser acknowledges that Spotwave and its licensors are the owner of all intellectual property, including, without limitation, patents and copyright, relating to the System and

the trademarks used in association with the System. Purchaser agrees that it will not (and will not attempt to) modify, prepare derivative works of, reverse engineer, decompile, disassemble, or other attempt to derive the source code of any software contained within the System.

**7. Who bears the Risk of Loss?** Risk of loss for the System passes to Purchaser upon the delivery to Purchaser or to a carrier for shipment, whichever is earlier. Title to the Systems (excluding any software) will pass upon payment in full for the Systems. Title to any software shall always remain with Spotwave or its licensors. As security for payment, Purchaser grants to Spotwave a purchase money security interest in the Systems (together with any proceeds, including insurance proceeds) and agrees that a copy of this letter of agreement or any other appropriate document may be registered as required to perfect the security interest granted. Systems may be resold by Purchaser in normal course of business, but until paid for in full, Purchaser will not pledge or otherwise encumber the Systems. Purchaser agrees to immediately report to Spotwave, any seizure or attachment of the Systems by creditors; (ii) any petition in bankruptcy, insolvency, receivership or similar proceedings filed by, or against Purchaser; or (iii) any arrangement, composition or similar agreement for the benefit of creditors. Systems held for Purchaser by Spotwave are at Purchaser's sole risk and expense.

**8. What terms govern our relationship?** These terms and any software license or warranty documentation accompanying the Systems constitute the complete and exclusive statement of the terms and conditions between us regarding the Systems and cannot be altered, amended or modified except in writing executed by Spotwave. This letter of agreement and any disputes arising hereunder shall be governed by and interpreted in accordance with the laws of the Province of Ontario, Canada. The United Nations Convention on Contracts for the International Sale of Goods and any legislation implementing such Convention, if otherwise applicable is expressly excluded. Any terms and conditions of any purchase order or other instrument issued by Purchaser which are in addition to or inconsistent with the terms and conditions of this letter of agreement shall not be binding and shall not apply, even if accepted by Spotwave.

## GENERAL DISCLAIMER

Product specifications, pricing, packaging, technical support and information ("Specifications") and all claims, features, representations, and/or comparisons provided are correct to the best of our knowledge of the date of publication, but may contain errors or omissions and are subject to change without notice. INFORMATION IS PROVIDED BY SPOTWAVE WIRELESS INC. ON AN "AS IS" BASIS, WITHOUT ANY OTHER WARRANTIES OR CONDITIONS, EXPRESS OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, WARRANTIES OF MERCHANTABILITY, SATISFACTORY QUALITY, MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE, OR THOSE ARISING BY LAW, STATUTE, USAGE OF TRADE, COURSE OF DEALING OR OTHERWISE. THE ENTIRE RISK AS TO THE RESULTS OF THE INFORMATION PROVIDED IS ASSUMED BY YOU. WE SHALL HAVE NO LIABILITY TO YOU OR ANY OTHER PERSON OR ENTITY FOR ANY INDIRECT, INCIDENTAL, SPECIAL, OR CONSEQUENTIAL DAMAGES WHATSOEVER, INCLUDING, BUT NOT LIMITED TO, LOSS OF REVENUE OR PROFIT, LOST OR DAMAGED DATA OR OTHER COMMERCIAL OR ECONOMIC LOSS, EVEN IF WE HAVE BEEN ADVISED OF THE POSSIBILITY OF SUCH DAMAGES, OR THEY ARE FORESEEABLE. WE ARE ALSO NOT RESPONSIBLE FOR CLAIMS BY A THIRD PARTY. OUR MAXIMUM AGGREGATE LIABILITY TO YOU AND THAT OF OUR DEALERS AND SUPPLIERS SHALL NOT EXCEED FORTY DOLLARS. SOME STATES/COUNTRIES DO NOT ALLOW THE EXCLUSION OR LIMITATION OF LIABILITY FOR CONSEQUENTIAL OR INCIDENTAL DAMAGES, SO THE ABOVE LIMITATIONS MAY NOT APPLY TO YOU.

All product, font and company names are trademarks or registered trademarks of their respective owners.

## **Important Safety Information**

Customer safety is a concern we would like to address in a sensible and proactive manner. To this end, the following notes have been provided as a reference to help installers remain safe and think about safety in all aspects of the installation. The following notes are to be considered as informational only, and not exhaustive or complete.

Warning! For your safety, beware of power lines and ensure appropriate safety measures are maintained at all times during the installation of the SpotCell equipment. If equipment not shipped with the SpotCell system is to be used during installation or mounting, follow all equipment manufacturer's instructions in proper use to ensure injury is avoided.

The DU and CU of the SpotCell are low power transmitters. As with a cell phone antenna, avoid unnecessary contact with the front of the units after installed. Mount the units in a location where people will not approach within 1 meter (40-in) of the front of the DU and 20 centimeters (8-in) in front of the CU. When deploying the extended coverage antenna, there must be a minimum separation of 10 cm (4-in) between the main CU and the extended coverage antenna with the antennas facing in opposite directions. The extended coverage antenna should be mounted in locations where people will not approach within 20 cm (8-in) in front of the antenna.

If you are not sure about a safe installation, do not attempt to install it yourself. Call a professional installer for help.

### **1 Lightning**

Never attempt to install the DU outdoors while a lightning storm is in progress in your immediate or neighboring vicinity. The National Lightning Institute says for every five seconds between the flash of lightning and a thunderclap, the lightning is one mile away. If lightning is within 3 miles (15 second count between flash and thunder) of your location, do not attempt an installation.

### **2 Working Aloft**

When working aloft, it is best to work in pairs. Avoid attempting procedures alone that are best carried out with a spotter or by two people.

#### **2.1 Power Tools**

Proper eye protection should be worn when using a drill or any other type of power tool.

#### **2.2 Working with Ladders**

Properly secure your ladder and work in pairs. Make sure the ladder is properly tied off and use an insulated ladder when working around power lines.

#### **2.3 Grounding**

Ensuring the DU is properly grounded in external installations will help to prevent property damage and personal injury during lightning storms.

### **3 Overhead Power Lines**

While overhead power lines may appear to be insulated, they most likely are not insulated. Always thoroughly investigate your surroundings prior to installing masts or the DU in an outdoor location.

Never attempt installation without adequate lighting, as shadows and trees can obscure power lines.

Please read before you install the product.  
The Release Notes contain installation information not included elsewhere.

## **Important Information Release Notes, Warranty & Liability, and Safety**

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SpotCell 100, SpotCell 111/112,  
SpotCell 141/142 & SpotCell 163

coverage made simple



**Spotwave SpotCell® Solutions**

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