



SpotCell™ 141/142 Quick Installation Guide

www.spotwave.com

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To install the SpotCell® system:

If required, more detailed information on installing a SpotCell system can be found in the User Manual which is available for downloading at

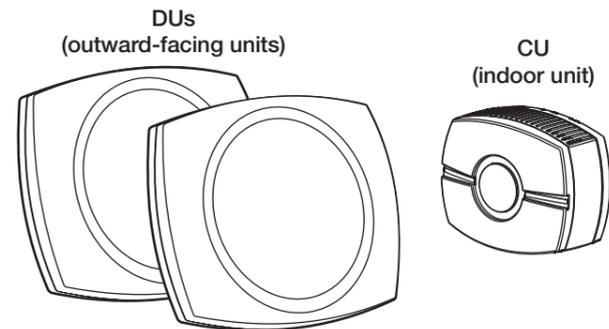
<http://www.spotwave.com/support/documentation>.

WARNING

For your safety, beware of power lines and ensure that appropriate safety measures are maintained at all times during the installation of your SpotCell equipment. Contact with high-voltage power lines could result in death or serious injury.

1. Parts List

- Donor Unit (DU) x 2
- Coverage Unit (CU)
- Power supply
- RG11 cable
- Mounting kit
- RG6 Cable x 2

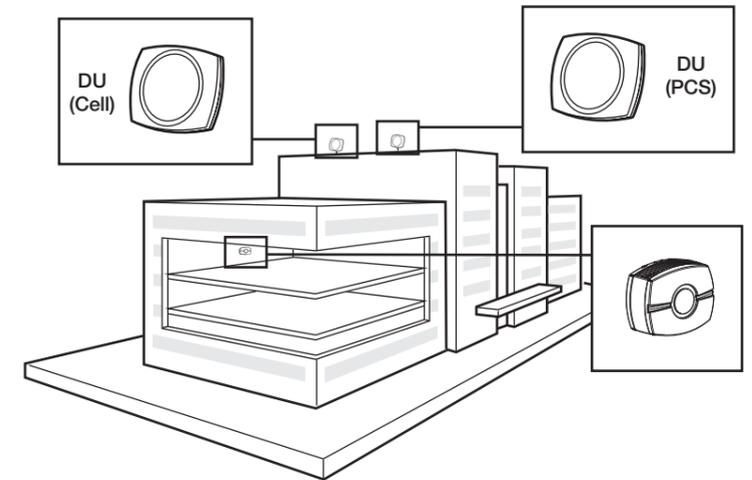


2. Location

The DUs can be mounted anywhere your cell phone works. This may be on a rooftop (typical rural set-up), on the side of a building, or inside a building (typical downtown set-up). The CU will be mounted inside the building where your cell phone does not work. The illustration at the right depicts a typical installation.

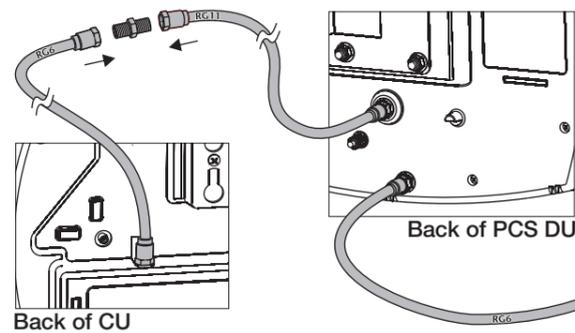
If the DUs are mounted indoors, maximum separation between the DUs and CU, and back-to-back positioning will optimize performance.

To start the installation, place the DUs and CU in the general areas where they are to be located. Do not physically mount them at this time.



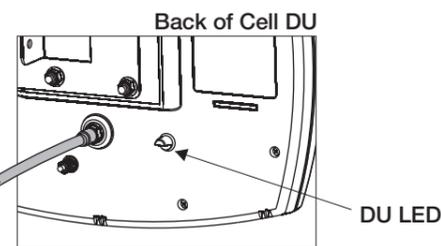
3. Connect CU to PCS DU

Connect a 2 meter RG6 cable to the CU and then (using the provided adapter) join the other end to the longer RG11 cable. Connect the RG11 cable to the upper connector on the PCS DU.



4. Connect Cell DU to PCS DU

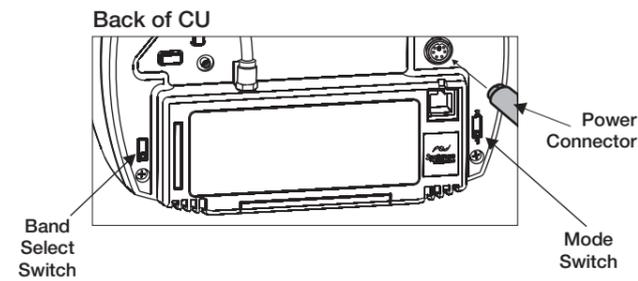
Connect the Cellular DU to the lower connector on the PCS DU with the remaining 2 meter RG6 cable.



NOTE: The PCS DU and Cellular DU must be connected with the RG6 cable before the system is powered on.

5. Set Mode and Band Select switches

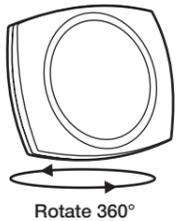
Set the mode switch, located to the right of the label on the CU, to 1 (install) and then set the band select switch (to the left of the label) to 800 MHz. Connect the power supply to the CU, and then plug the adapter into the AC outlet.



6. Align DUs

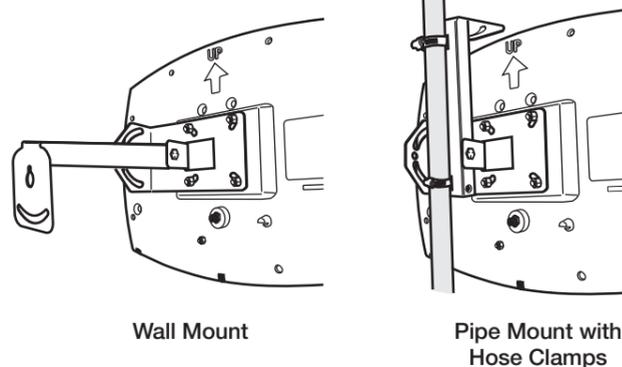
In the location where the Cellular DU is to be mounted, rotate the 800 MHz Cellular DU in a complete circle. The LED on the back will turn red or green during the rotation. Again, rotate the DU. When the LED turns green, stop the rotation. This is the direction the Cellular DU must face when mounted.

Set the CU band select switch on the CU to 1900 MHz. In the location where the PCS DU is to be mounted, rotate the 1900 MHz PCS DU in a complete circle. The LED on the back will turn red or green during the rotation. Again, rotate the DU. When the LED turns green, stop the rotation. This is the direction the PCS DU must face when mounted.



7. Mount DUs

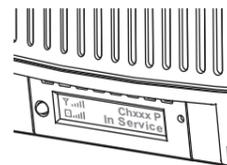
Now mount the two DUs. Typical installations are pictured below.



8. Set CU to Active

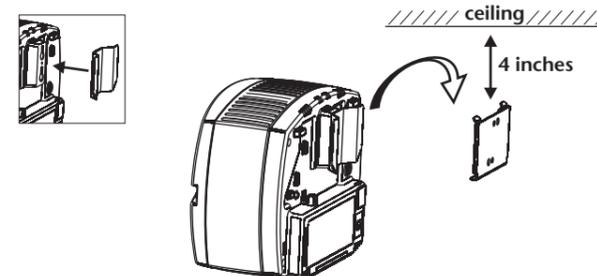
Set the mode switch, located to the right of the label on the CU, to 2 (active) and then hold the CU in the location to be mounted. The LCD on the bottom of the CU indicates coverage (▣) by the number of bars; more bars indicate better coverage.

NOTE: Information for only one band is displayed by the LCD and status LED at one time. 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.



9. Mount CU

Fasten the mounting bracket insert to the back of the CU. Mount the wall bracket at least 4 inches below the ceiling (to allow enough room for sliding in the CU) on a wall that is close to the center of the area requiring coverage. Mount the CU by sliding the insert into the bracket.



10. Final Checklist

1. Properly ground the DUs via the grounding bolts.

2. If the DU is mounted outdoors, ensure that there is a drip loop on the cables connecting to the DUs, on the cables connecting to both sides of the ground block, and where the cable enters the building.

3. Firmly affix the cable to the building where it runs between the DU and CU.

