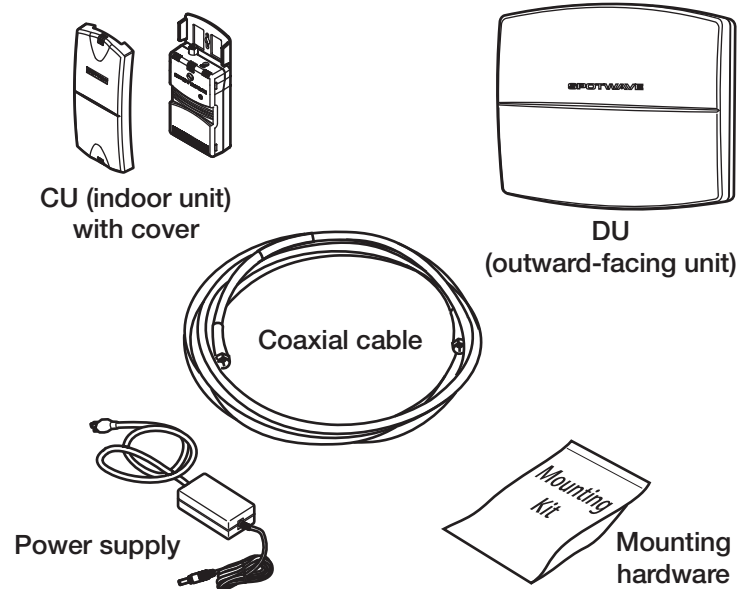


## SpotCell® 250Xe Quick Installation Guide

780-00038-01-02

### Parts List



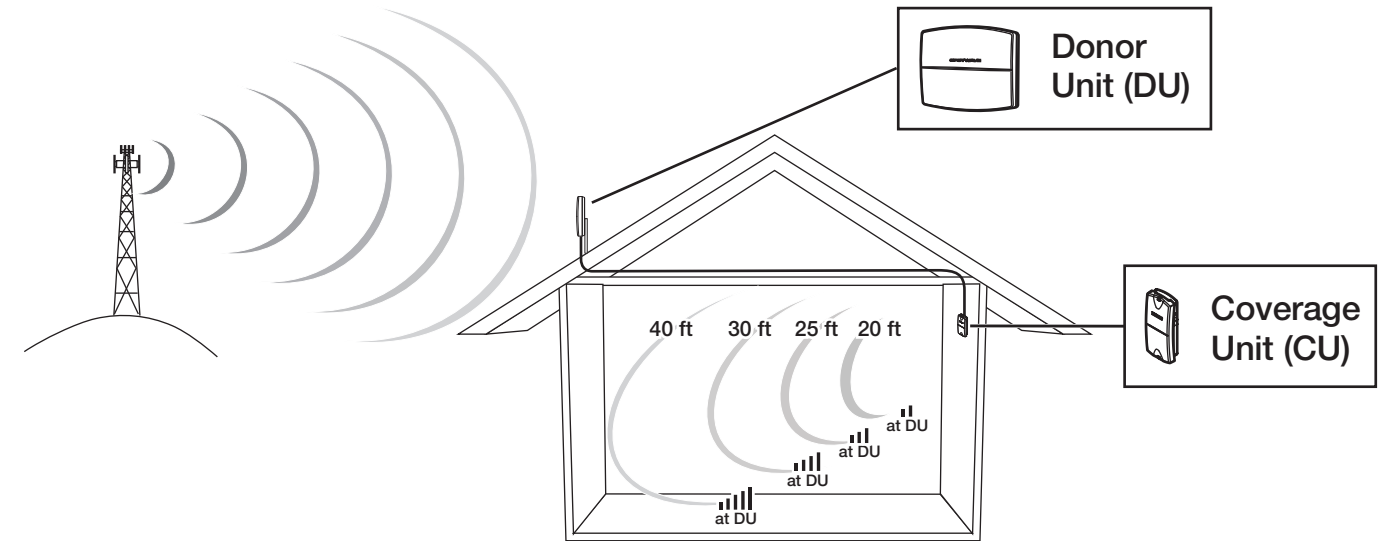
**WARNING** For your safety, beware of power lines and ensure that appropriate safety measures are maintained at all times during the installation of your SpotCell 250Xe equipment. Refer to the SpotCell 250Xe User Manual for more safety information on handling and installation.

### 1. Location

The Donor Unit (DU) should be located where your cell phone shows the strongest signal (number of bars). This may be on a rooftop, on the side of a building, or inside a building. The illustration below shows the coverage area dependence on the received signal strength at the DU. For example, if your cell phone shows 4 bars at the location where the DU is to be mounted, you can expect a typical coverage area to extend up to 30 feet from the CU.

If the DU is mounted indoors, maximum separation between the DU and CU, and positioning of the CU behind the DU will optimize the system performance. The Coverage Unit (CU) will be mounted inside the building near the area where your cell phone does not work.

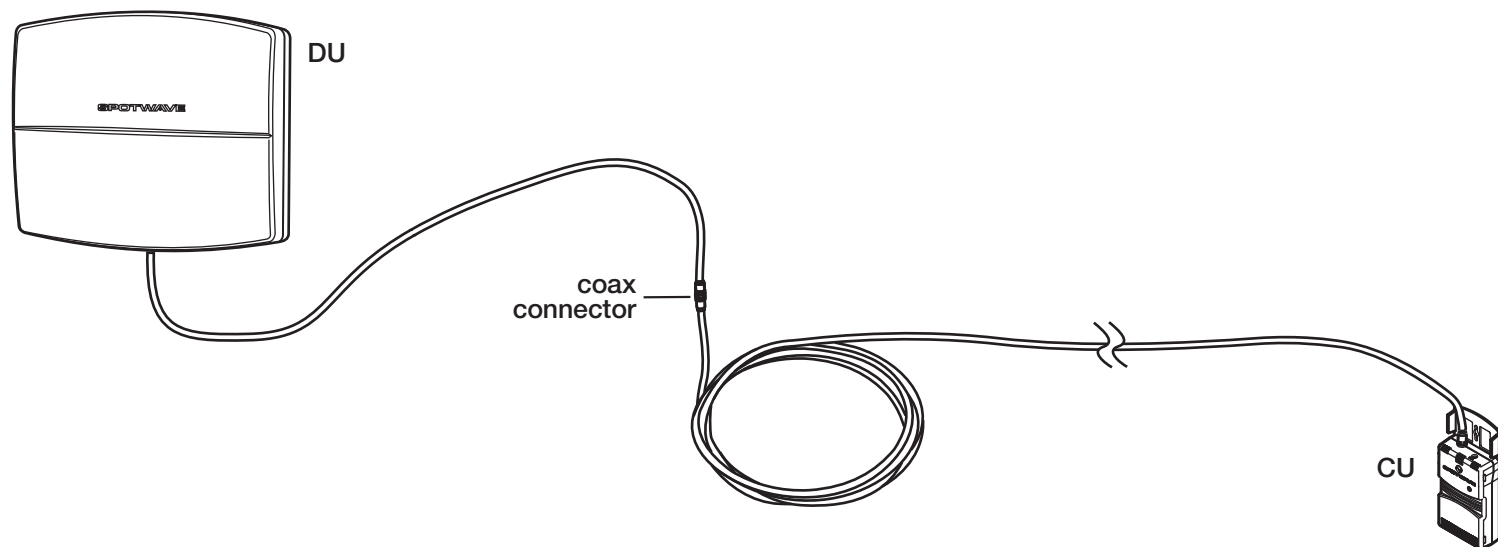
**To start the installation,** remove the angle mounting bracket from the back of the DU and place the DU in the general area where it is to be located. Do not physically mount the DU at this time.



### 2. Connect DU to CU

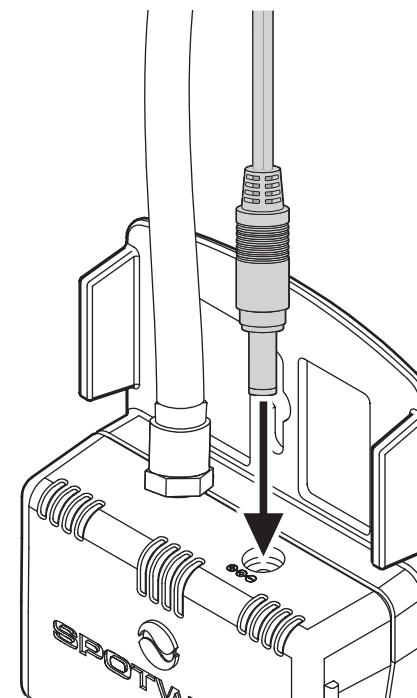
Connect the DU to the coaxial port on the top of the CU with the full 82 feet (25 m) of coax cable. It is recommended that the CU be located at least 30 feet (9 m) behind the DU during setup.

Make sure the power is always **OFF** when connecting or disconnecting the coax cable from either the DU or CU.



### 3. Connect power to CU

Connect the power supply to the CU, and then plug the adapter into an AC outlet.



### 4. DU status & signal strength

On startup, the DU LEDs will flash on and off while the system initializes (which may take up to 1 minute).

Once the startup is complete the DU Status LED should turn solid blue and the Signal Strength indicator will show between 0 and 5 bars.

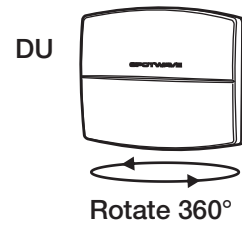
Back of DU

| Signal Strength                   | System Status | Status LED color | Status   |
|-----------------------------------|---------------|------------------|--|
| less than -95 dBm or power is off |               | OFF              | No power                                       |
| -95 to -85 dBm                    |               | BLUE             | Power on, normal operation                     |
| -85 to -75 dBm                    |               | YELLOW           | Operating correctly, but with reduced coverage |
| -75 to -65 dBm                    |               | RED              | Fault condition                                |
| -65 to -55 dBm                    |               |                  |  |
| greater or equal to -55 dBm       |               |                  |  |

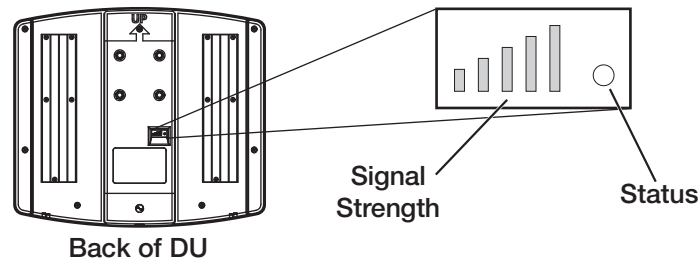
Refer to the *SpotCell 250Xe User Manual* for more information on the status LED and signal strength bars on the Donor Unit.

## 5. Align DU

The DU should be mounted in an area where your cell phone works best. In this location, slowly rotate the DU in a complete circle (approximate rotation time of 30 seconds).



The strength of the received signal is proportional to the number of bars on the LED indicator at the back of the DU. There needs to be at least 2 bars of signal available for the system to improve coverage.

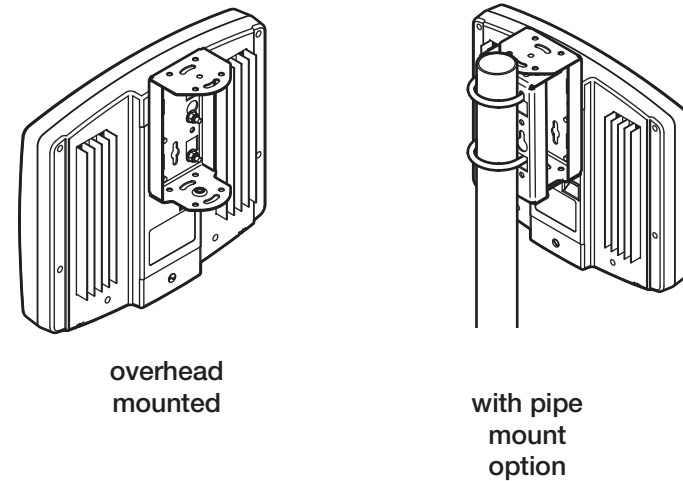


The DU should be mounted facing in the direction where the LED indicator shows the greatest numbers of bars and the Status LED is solid blue (normal operation).

## 6. Mount DU

Where the DU is to be located, fasten the mounting bracket in such a way that the DU will face in the direction at which the signal strength indicator showed the strongest signal (which must be at least 2 bars) in step 5.

Typical bracket/DU arrangements are pictured below.

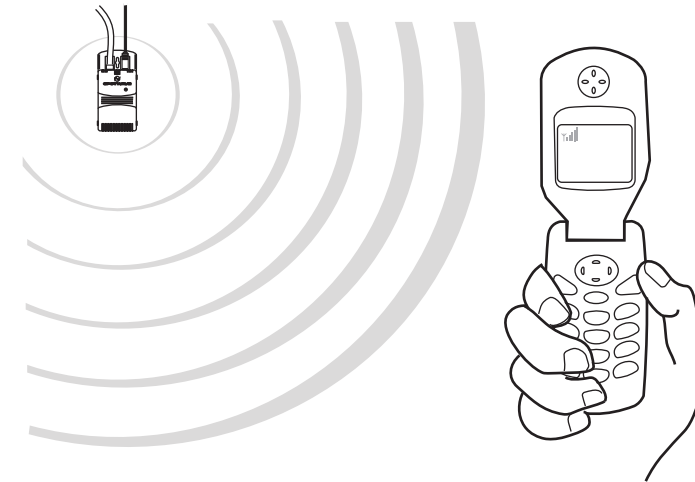


Fasten the DU to the bracket and verify that the signal strength (number of bars) is the same as observed in step 4.

## 7. Position CU

Place the CU in the area needing coverage, but do not physically mount it at this time. When mounted vertically the CU provides equal coverage in all directions.

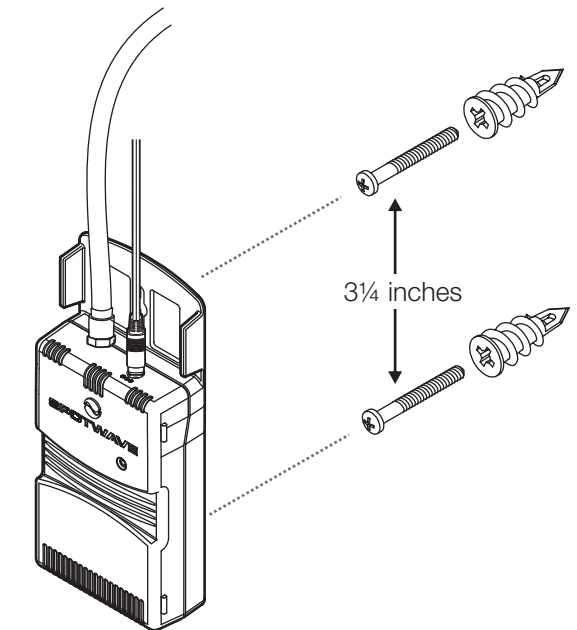
Verify the system is working by using your mobile phone to place a call in the room where the CU is placed. If a call cannot be made or the quality is poor, move the CU to other locations (preferably further from the DU) and try again.



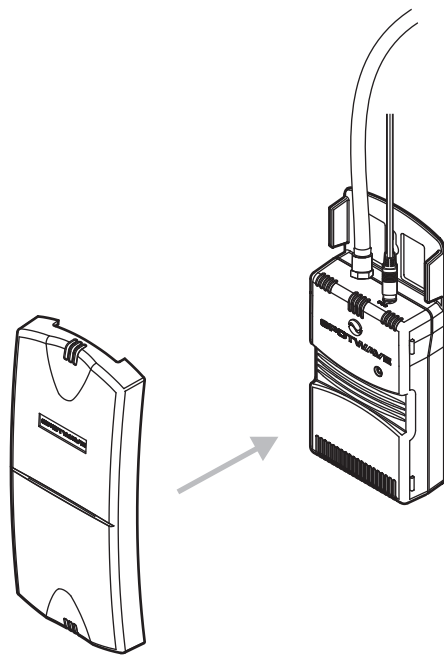
Once the CU is positioned for the best quality of signal, permanently run the copper core coaxial cable from the DU to the CU location.

## 8. Mount CU

Where the CU provided the best signal in step 7, fasten the CU to the wall or ceiling.

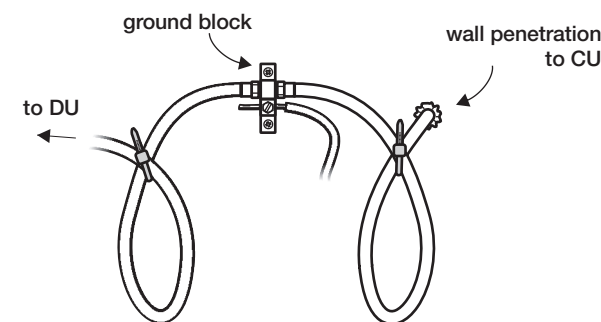


## 9. Fit cover onto Coverage Unit



## 10. Final Checklist

1. Follow local code requirements for properly grounding the system.
2. If the DU is mounted outdoors, ensure that there is a drip loop in the coax cable on both sides of the ground block (available in the outdoor mounting kit only), and where the cable enters the building.



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

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

## Spotwave 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 on 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).

[www.spotwave.com](http://www.spotwave.com)

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