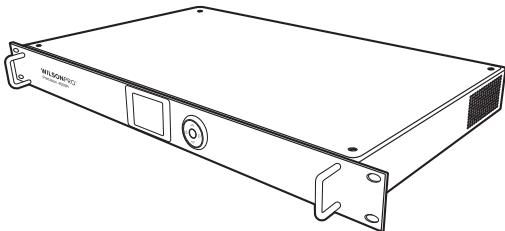


# PRO **SERIES**

## INSTALLATION GUIDE



**WILSONPRO™**

Precision 4000R

In-Building  
Cellular Signal Boosters

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Appearance of device and accessories may vary.

**Note:** This manual contains important safety and operating information. Please read and follow the instructions in this manual. Failure to do so could result in damage to your Signal Booster.



**WILSONPRO™**

# How a Cellular Booster Improves Indoor Signals

Wilson cellular signal booster systems work as follows: an outdoor antenna placed on a building where some cell signal is present, (ideally on a roof or pole), receives and sends that weak signal via coax cable (like used in satellite TV installs) to a signal booster located indoors. That weak signal is amplified by the booster and delivered via coax cable to an inside antenna(s) which rebroadcasts the amplified signal within one or several areas where improved signal is required. Signals from indoor cell device(s) are likewise picked up by the inside antenna(s), amplified by the signal booster and transmitted back to the cell tower via the outside antenna. The improved signals result in reliable cellular connections for indoor users.

## About Gain and Improved Signal Area

The less signal strength at the outside antenna's location and/or the greater the coverage need, the more gain will be required. Conversely, the more signal present outside, the greater the inside coverage area will be. Proper aiming of the outside antenna towards the source of the cell signal is also important. The gains of the outside and inside antenna, though reduced by losses from coax cable lengths, also affect area of improved coverage. Placement of the inside antenna is also a factor as they have directional characteristics. Inside wall materials will also affect indoor coverage area.

Another important factor affecting coverage area is inadequate isolation between outside and inside antenna(s). Wilson boosters are designed to reduce their internal gain in order to prevent any feedback "oscillations" which if unchecked, could affect nearby cell site operation. The LCD status display on the booster is used to determine if a booster is operating at optimal gain for each cellular band. Optimal gain can be achieved by increasing antenna separation, i.e. isolation, until the max gain is indicated. If attainable separation is limited by a building's layout, gain will suffer. A nearby cell site, even if not providing service to a user, can also cause the booster's automatic network protection circuitry to reduce gain or even turn off one or more of the booster's bands so as to prevent signal overload to the nearby site. The display on the booster can also be used to determine if this condition is taking place. Refer to pages 9-11 for explanation of the booster status display.

## Inside this Package

*Note: Kits may contain different accessories*

To purchase Expansion Kits call Wilson Electronics Sales Department at: **888-503-5329**



Signal Booster



Wide Band Directional  
Antenna 75' Wilson 400



Wide Band Panel Antenna  
50' Wilson 400



2' Wilson 400



Lightning Surge  
Protector  
(859992)

*For additional antenna options see pages 14 & 15.*

## Install Overview

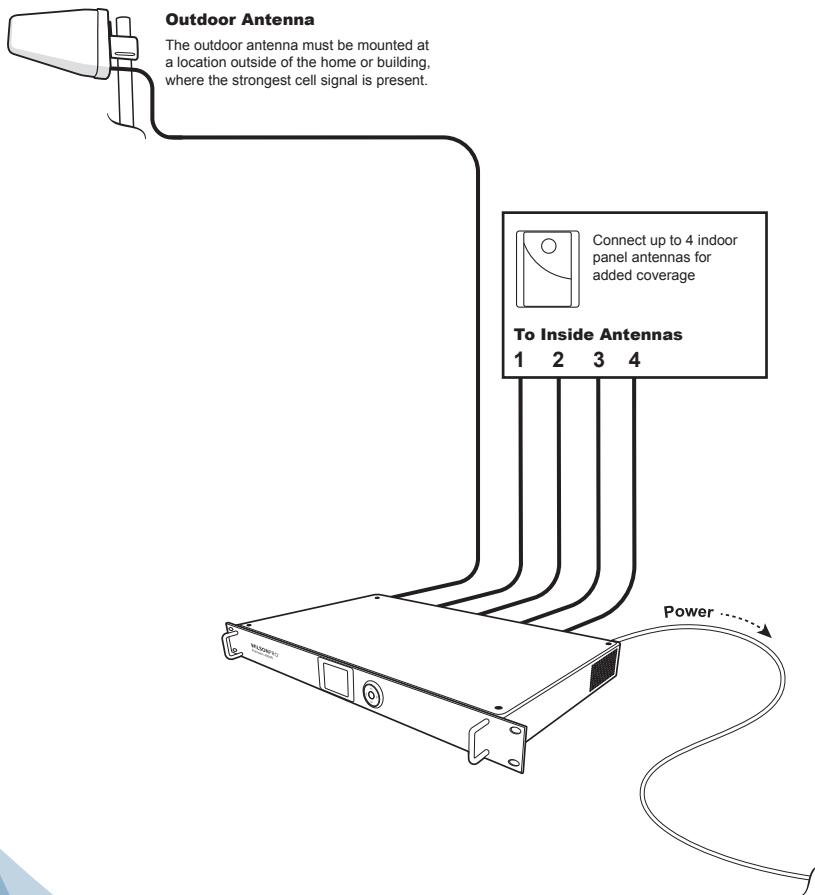
Refer to Installation Diagram on page 3 & 4. Contact Wilson Electronics Technical Support Team with any questions at 866-839-9361.

1. Select a location on the roof or outside of the building to install the outside antenna. Refer to pages 3 & 5.
2. Select a location to install the Signal Booster that is away from excessive heat, direct sunlight or moisture, and has adequate ventilation. Airtight enclosures are not recommended. Booster should be as close to the outside antenna as possible in order to minimize losses from cable length to outside antenna.
3. Connect the cable from the outside antenna to the signal booster's "outside antenna" connector. Refer to page 6 for more information on running cable. Lightning Surge Protection is recommended for all in-building installations. Refer to pages 3 & 6.
4. Select a location for the inside antennas. Try to choose a position in the center of the area needing improved signal. Keep in mind that proper inside antennas to outside antenna isolation is necessary for the system to function properly. This may require as much as **50 to 75 feet of horizontal separation** from the outside antenna. Vertical separation also helps increase isolation. Alternate means of isolation are possible. If physical separation is not possible, please contact Wilson Electronics Tech Support at 866-839-9361 for suggestions on alternate methods to achieve isolation.
5. Connect the cable from the inside antennas to the signal booster's "inside antenna" connector. Refer to page 6 for more information on running cable. Keep cable runs as short as possible to reduce signal loss in the system.

*Contact Wilson Electronics Customer Support Team with any questions  
at 866-839-9361 or email: [tech@wilsonelectronics.com](mailto:tech@wilsonelectronics.com).*

6. Before powering up the signal booster, verify that both the outside antenna and the inside antennas are connected correctly, and check that all connections are tight. **Note:** Be careful when plugging the connectors in so as not to bend the center pins on the connectors.
7. Power on the signal booster by plugging in the included power supply. If the lights are not green, please refer to pages 9-11.

## Installation Diagram



# Selecting a Location for the Outside Antenna



The outside antenna must be mounted at a location outside of the home or building, where the strongest cell signal is present. This can be accomplished by using the Wilson Signal Meter. Alternatively, a cell phone in test mode can be used for finding the area around the building with the strongest signal.

Mount the outside antenna as high as possible facing towards the suspected location of the cell tower and pointing away from the expected location of the inside antenna(s).

## Outside Antenna Installation

The antenna should be mounted as shown in Figure 1. The mounting bracket, included with antenna, is adjustable and will accommodate pipe diameters from 1.25 inches to 2 inches (pipe sold separately #901117). Mount the antenna so that there is at least 3 feet of clearance in all directions around it. Make sure the antenna is not pointing across your own roof or at the inside antenna as this will cause the cell site protection circuitry to shut down the signal booster.

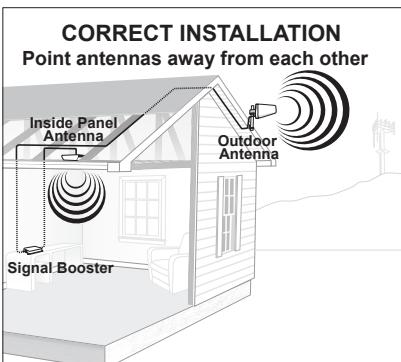


Figure 1

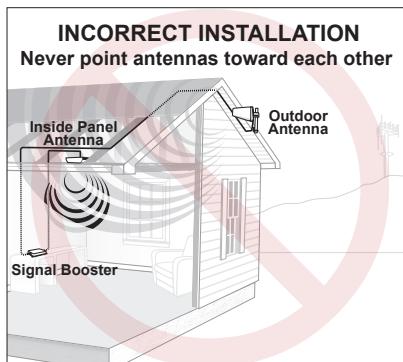
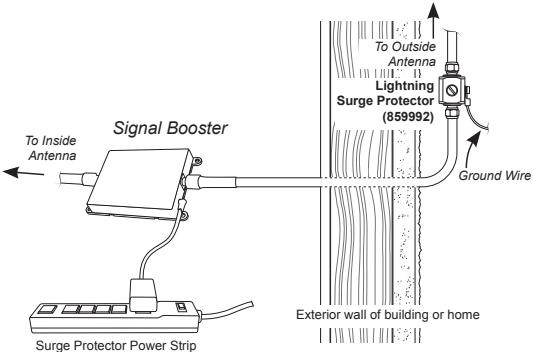


Figure 2

# Installing Lightning Protection

**⚠ Warning:** Lightning protection is recommended for all installations (#859992-75 Ohm, shown below). Take extreme care to ensure that neither you nor the antenna comes near any electric power lines.

Install the Lightning Surge Protector (LSP) outside, in line with the coax cable from the outside antenna, near where the coax cable from the outside antenna will enter the building. Connect the Outside antenna cable to one of the connectors of the surge protector. Connect the other connector on the LSP to the cable entering the building. Ensure the LSP is properly grounded as close to the LSP as possible (ground wire not included).



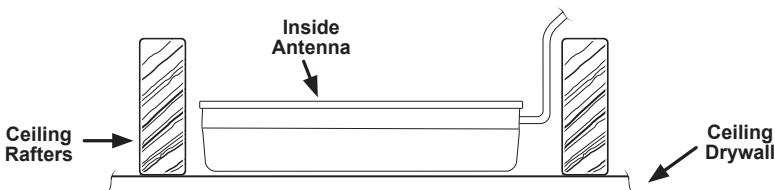
## Running Outside Antenna Cable

If you are mounting the outside antenna to the outside wall of your home or building, the simplest way is to run the cable on the outside of the wall and attach it to the exterior of your home or office. Then drill a hole through the wall where you want the cable to appear on the inside of the building. Before drilling, make sure that there are no electrical outlets, sewer or water pipes, or electrical wiring in the wall that you are about to drill through as this could potentially harm you or damage the building. **Note:** Existing TV cables already being used for another purpose can not be shared with the cell booster installation.

After drilling the required hole, run the cable through and seal it with cable bushings or a silicone-type sealant to enclose the hole that you have created. In some instances, it may be possible to run the cable up into the fascia of the attic overhang. In this circumstance, the cable will be accessible in the attic for further routing.

## Installing the Inside Panel Antenna(s)

Select a location for the inside antenna, preferably in the center of where the signal needs to be amplified. A minimum separation distance of 20 vertical feet and or 50 horizontal feet between the inside and outside antenna(s) may be necessary in order to achieve full booster gain and therefore maximum indoor coverage. If the amplifier can not be set to maximum gain as explained on page 10, you may need as much as 75 feet of horizontal separation, or mechanical isolation, between inside and outside antennas. Refer to installation diagram on pages 3 & 4.



Some installations requiring signal improvement in far areas of larger homes or structures may require multiple inside antennas and splitter(s). For example if signal is improved in most areas of a structure, but yet there is weak signal In another area, the signal from the booster can be split to two or more separate indoor antennas by using a splitter (sold separately). Refer to the configuration on pages 3 & 4.



**Additional Inside Panel  
Antenna**  
(sold separately)

**Multiple mounting options  
available**

*For additional antenna options  
see pages 14 & 15*

## Installing the Signal Booster

Select a location for the signal booster which is away from excessive heat, direct sunlight, moisture and is not subject to high temperatures. Do not place the signal booster in an air-tight enclosure. Recommended installation locations for in-building signal boosters are in a closet or on a shelf where power is available. Attic installations may expose the booster to high heat.

*Contact Wilson Electronics Customer Support Team with any questions  
at 866-839-9361 or email: [tech@wilsonelectronics.com](mailto:tech@wilsonelectronics.com).*

**Note:** Do not install in areas subject to temperatures in excess of 150 °F.

**Note:** Maintain at least 6 inches of clearance from surrounding objects. Be careful when plugging the connector in so as not to damage the center pins on the connectors.

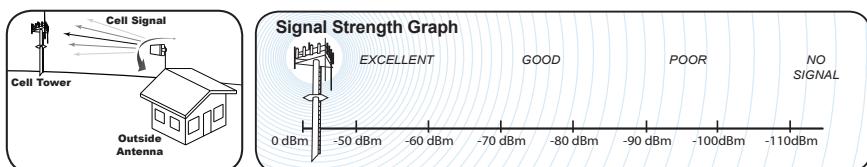
Run the outside antenna cable to the signal booster and attach it to the connector labeled "Outside Antenna" on the signal booster. Run the inside antenna cable to the signal booster and attach it to the connector labeled "Inside Antenna" on the signal booster.

**Note:** In order to abide by FCC regulations, cable lengths and antennas shipped as a kit with each booster must be used and not cut and shortened. Contact our tech support for cable kits to be used in situations requiring long cable runs.

**Note:** It is very important to power your signal booster using a surge protected AC power strip with at least a **1000 Joule rating**. Failure to do this will void your warranty in the event of a power surge or lightning strike

## Finding the Strongest Signal

When installing your signal booster's outside antenna, aiming it towards the best signal source from your carrier is important. The best way of getting the strongest signal is to use the Wilson Signal Meter and accessory Directional Antenna (see outside antenna kit options on page 14), an alternate way is to have one person on the roof to rotate the outside antenna, which is connected to the signal booster. Turn the outside antenna about 45 degrees at a time, while the second person, inside the building, is watching the signal strength on a signal meter (preferred) or a phone in test mode. This allows you to read the signal strength from the cell tower. The phone should be in the test mode so the actual signal strength can be read, as bars are not the most accurate. Always make sure the person inside the building gives the signal strength time to register on the phone (at least 30 seconds for phone to update the signal reading).



Signal readings usually appear as a negative number (for example, -86). The closer the number to zero, the stronger the signal (see Signal Strength Graph above).

## About Wilson Electronics

Wilson Electronics, LLC has been a leader in the wireless communications industry for over 40 years. The company designs and manufactures Signal Boosters, antennas and related components that significantly improve cellular telephone signal reception and transmission in a wide variety of applications, mobile (marine, RV, vehicles) and in-building (home, office, machine to machine).

With extensive experience in antenna and Signal Booster research and design, the company's engineering team uses a state-of-the-art testing laboratory, including an anechoic chamber and network analyzers, to fine-tune antenna designs and performance. For its Signal Boosters, Wilson Electronics uses a double electrically shielded RF enclosure and cell tower simulators for compliance testing.

Wilson Electronics Signal Boosters feature patented SmarTech™ that enables them to automatically adjust their power based on cell tower requirements. By detecting and preventing oscillation (feedback), signal overload and interference with other users, these SmarTech™ Signal Boosters improve network cell phone areas without compromising carrier systems.

All products are engineered and assembled in the company's 100,000 square-foot headquarters in St. George, Utah. Wilson Electronics has product dealers in all 50 states as well as in countries around the world.

## Warnings and Recommendations

-  **WARNING:** To uphold compliance with network protection standards, all active cellular devices must maintain at least 6 feet of separation distance from Panel and Dome antennas.
-  **WARNING:** Connecting the Signal Booster directly to the cell phone with use of an adapter will damage the cell phone.
-  **WARNING:** Use only the power supply provided in this package. Use of a non-Wilson Electronics product may damage your equipment.
-  **WARNING:** The Signal Booster unit is designed for use in an indoor, temperature-controlled environment (less than 150 degrees Fahrenheit). It is not intended for use in attics or similar locations subject to temperatures in excess of that range.
-  **WARNING:** Warning: The Outside Antenna must be installed no higher than 10 meters (31'9") above ground.
-  **WARNING:** Take care to ensure that neither you nor the pole comes near any power lines during installation.
-  **RF SAFETY WARNING:** Any antenna used with this device must be located at least 8 inches from all persons.

**This is a CONSUMER device.**

**BEFORE USE**, you **MUST REGISTER THIS DEVICE** with your wireless provider and have your provider's consent. Most wireless providers consent to the use of signal boosters. Some providers may not consent to the use of this device on their network. If you are unsure, contact your provider.

You **MUST** operate this device with approved antennas and cables as specified by the manufacturer. Antennas **MUST** be installed at least 20 cm (8 inches) from any person.

You **MUST** cease operating this device immediately if requested by the FCC or a licensed wireless service provider.

**WARNING.** E911 location information may not be provided or may be inaccurate for calls served by using this device.

This Device may be operated **ONLY** in an fixed location for in-building use.

**Note:** For a complete list of antennas and cables approved for use with these boosters see pages 14 & 15.

This device complies with Part 15 of FCC rules. Operation is subject to 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. Changes or modifications not expressly approved by Wilson Electronics could void the authority to operate this equipment.

## Inside Antenna Expansion Kit

*(contact Wilson Technical Support for assistance)*

### Kit 309900-50N40090

- 2- Wall Panel antennas
- 1 - 50 ohm 3-Way Splitter
- 1 - 100' Wilson 400

### Kit 309905-50N17490

- 3 – Wall Panel Antennas
- 3- 2-Way 50 Ohm Splitters
- 90' RG174

### Kit 309902-75F0650

- 2 - Wall Panel Antennas
- 1 - 3-Way 75Ohm Splitter
- 50' RG6

### Kit 309903-75F1180

- 3 – Wall Panel Antennas
- 3 - 2-Way 75Ohm Splitters
- 80' RG11 cable

### Kit 309904-75F5830

- 1 - Wall Panel Antenna
- 1 - 2-Way 75 Ohm Splitter
- 30' RG58 cable

## Inside Antenna Kits

*(contact Wilson Technical Support for assistance)*

### Kit 301121-40050

- 50 Ohm Dome Antenna
- 50' Wilson 400

### Kit 301151-0630

- 75 Ohm Dome Antenna
- 30' RG6 Cable

### Kit 311155-0670

- 75 Ohm Wall mount Panel Antenna
- 70' RG6 Cable

### Kit 311135-5840

- 50 Ohm Wall mount Panel Antenna
- 40' RG58 Cable

### Kit 311135-400150

- 50 Ohm Wall mount Panel Antenna
- 150' Wilson 400

### Kit 301151-1140

- 75 Ohm Dome Antenna
- 40' RG11 cable

### Kit 311155-11120

- 75 Ohm Wall mount Panel Antenna
- 10' RG11 cable

### Kit 311155-11150

- 75 Ohm Wall mount Panel Antenna
- 120' RG11 Cable

### Kit 304412-400100

- 50 Ohm 4G Dome Antenna
- 100' Wilson400 cable

### Kit 304412-5830

- 50 Ohm 4G Dome Antenna
- 30' RG58 cable

### Kit 304419-1175

- 75 Ohm 4G Dome Antenna
- 75' RG 11 cable

### Kit 304419-17450

- 75 Ohm 4G Dome Antenna
- 50' RG174 cable
- May need separate adapter

### Kit 304419-0650

- 75 Ohm 4G Dome Antenna
- 50' RG6 cable

## 50 Ohm Outside Antenna Kits

*(contact Wilson Technical Support for assistance)*

### Kit 314453-5825

- 50 Ohm Pole Mount Panel Antenna
- 25' RG58 Cable

### Kit 314411-5825

- 50 Ohm Wide Band Directional
- 25' RG58 Cable

### Kit 301111-5850

- Yagi Directional Antenna
- 50' RG58 Cable

### Kit 311129-5840

- 800 MHz Yagi Directional
- 40' RG58 Cable

### Kit 311203-5820

- Omni-Directional antenna
- 20' RG58 Cable

### Kit 311124-5830

- 1900 MHz Yagi antenna
- 30' RG58 Cable

### Kit 314411-40075

- 50 Ohm Wide Band Directional
- 75' LMR400 Cable

### Kit 311203-40020

- Omni-Directional antenna
- 20' LMR400 Cable

### Kit 301111-400170

- Yagi Directional w/ N-Female
- 170' LMR400

### Kit 311124-400100

- 1900 MHz Yagi Directional
- 100' LMR400 Cable

- Kit 311129-400100
  - 800 MHz Yagi Antenna
  - 100' LMR400 Cable
- Kit 314411-40075
  - 50 Ohm Wide Band Directional Antenna
  - 75' LMR400 Cable
- Kit 314453-40075
  - 50 Ohm Pole Mount Panel Antenna
  - 75' LMR400 Cable
- Kit 304422-40020
  - 50 Ohm 4G Omni Antenna
  - 20' Wilson400 cable
- Kit 304422-5810
  - 50 Ohm 4G Omni Antenna
  - 10' RG58 cable
- Kit 304422-1120
  - 50 Ohm 4G Omni Antenna
  - 20' RG11 cable
  - May need separate adapter
- 75 Ohm Outside Antenna Kits**  
(contact *Wilson Technical Support* for assistance)
- Kit 301111-0675
  - Yagi Directional Antenna
  - 75' RG6 Cable
  - N-Male to F-Female adapter
- Kit 311201-0620
  - Omni Directional w/ F-Female
  - 20' RG6 Cable
- Kit 311129-0660
  - 800 MHz Yagi Directional
  - 60' RG6 Cable
  - N-Male to F-Female adapter
- Kit 311124-0650
  - 1900 MHz Yagi Directional
  - 500' RG6 Cable
  - N-Male to F-Female adapter
- Kit 314473-0640
  - 75 Ohm Pole Mount Panel Antenna
  - 40' RG6 Cable
- Kit 311141-0620
  - 75 Ohm Grey Brick Antenna
  - 20' RG6 Cable
- Kit 301111-11140
  - Yagi Directional Antenna
  - 140' RG11 Cable
  - N-Male to F-Female adapter
- Kit 311201-1120
  - Omni Directional w/ F-Female
  - 20' RG11 Cable
- Kit 311129-11110
  - 800 MHz Yagi Directional
  - 110' RG11 Cable
  - N-Male to F-Female adapter
- Kit 311124-1180
  - 1900 MHz Yagi Directional
  - 80' RG11 Cable
  - N-Male to F-Female adapter
- Kit 314473-1175
  - 75 Ohm Pole Mount Panel Antenna
  - 75' RG11 Cable
- Kit 314475-0630
  - 75 Ohm Wide Band Directional
  - 30' RG6 Cable
- Kit 314475-1175
  - 75 Ohm Wide Band Directional
  - 75' RG11 Cable
- Kit 311141-1120
  - 75 Ohm Grey Brick Antenna
  - 20' RG11 Cable
- Kit 304421-17410
  - 75 Ohm 4G Omni Antenna
  - 10' RG174 cable
- Kit 304421-0610
  - 75 Ohm 4G Omni Antenna
  - 10' RG6 cable
- Kit 304421-5810
  - 75 Ohm 4G Omni Antenna
  - 10' RG58 cable
  - May need separate adapter
- Kit 304423-1120
  - 75 Ohm 4G Omni Antenna
  - 20' RG 11 cable
- Kit 304423-17410
  - 75 Ohm 4G Omni Antenna
  - 10' RG174 cable
  - May need separate adapter
- Kit 304423-0610
  - 75 Ohm 4G Omni Antenna
  - 10' RG174 cable
- Kit 304423-5810
  - 75 Ohm 4G Omni Antenna
  - 10' RG6 cable
  - May need separate adapter
- Kit 304424-40020
  - 50 Ohm 4G Omni Antenna
  - 20' Wilson400 cable
- Kit 304424-5810
  - 50 Ohm 4G Omni Antenna
  - 10' RG174 cable
  - May need separate adapter

Kit 304424-1120

- 50 Ohm 4G Omni Antenna
- 20' RG11 cable
- May need separate adapter

## Mini-Mag Outside Antenna

(contact Wilson Technical Support for assistance)

301126 w/12.5 RG174 cable-SMA

### 30-Day Money-Back Guarantee

All Wilson Electronics products are protected by Wilson Electronics 30-day money-back guarantee. If for any reason the performance of any product is not acceptable, simply return the product directly to the reseller with a dated proof of purchase.

### 3-Year Warranty

Wilson Electronics Signal Boosters are warranted for three (3) years against defects in workmanship and/or materials. Warranty cases may be resolved by returning the product directly to the reseller with a dated proof of purchase.

Signal Boosters may also be returned directly to the manufacturer at the consumer's expense, with a dated proof of purchase and a Returned Material Authorization (RMA) number supplied by Wilson Electronics. Wilson Electronics shall, at its option, either repair or replace the product. Wilson Electronics will pay for delivery of the repaired or replaced product back to the original consumer if located within the continental U.S.

This warranty does not apply to any Signal Booster determined by Wilson Electronics to have been subjected to misuse, abuse, neglect, or mishandling that alters or damages physical or electronic properties.

Failure to use a surge protected AC Power Strip with at least a 1000 Joule rating will void your warranty.

RMA numbers may be obtained by contacting Customer Support at 866-294-1660.

**Disclaimer :** The information provided by Wilson Electronics, LLC is believed to be complete and accurate. However, no responsibility is assumed by Wilson Electronics, LLC for any business or personal losses arising from its use, or for any infringements of patents or other rights of third parties that may result from its use.

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weBoost products covered by U.S. patent(s) and pending application(s)  
For patents go to: [weboost.com/us/patents](http://weboost.com/us/patents)

## Notes:

## Notes:

Contact **Wilson Electronics Customer Support Team** with any questions at 866-839-9361 or email: [tech@wilsonelectronics.com](mailto:tech@wilsonelectronics.com).

# Signal Booster Specifications

WilsonPro Precision 4000R™					
<b>Product Number</b>	U460031				
<b>Model Number</b>	460031				
<b>FCC ID</b>	PWO460031				
<b>IC</b>	4726A-460031				
Connectors	N-Female				
Antenna Impedance	50 Ohms				
Frequency	698-716 MHz, 746-787 MHz, 824-894 MHz, 1850-1990 MHz, 1710-1755/2110-2155 MHz				
<b>Passband Gain (nominal)</b>	<b>700MHz Band12/17</b>	<b>700MHz Band13</b>	<b>800MHz</b>	<b>1700/2100MHz</b>	<b>1900MHz</b>
	57.8	57.8	59.8	62.5	63.6
<b>20 dB Bandwidth (MHz)</b>	<b>700MHz Band12/17</b>	<b>700MHz Band13</b>	<b>800MHz</b>	<b>1700/2100MHz</b>	<b>1900MHz</b>
Typical	29.8	29.9	36.4	76.7	73.8
Maximum	35.2	35.2	37.4	79.2	74.4
<b>Power output for single cell phone (Uplink) dBm</b>	<b>700MHz Band12/17</b>	<b>700MHz Band13</b>	<b>800MHz</b>	<b>1700MHz</b>	<b>1900MHz</b>
	24.7	25.7	25.3	26.1	25.2
<b>Power output for single cell phone (Downlink) dBm</b>	<b>700MHz Band12/17</b>	<b>700MHz Band13</b>	<b>800MHz</b>	<b>2100MHz</b>	<b>1900MHz</b>
	10.9	10.9	10.9	10.8	9.3
<b>Power output for multiple received channels (Uplink) dBm</b>	<b>700MHz Band12/17</b>	<b>700MHz Band13</b>	<b>800MHz</b>	<b>1700MHz</b>	<b>1900MHz</b>
No. Tones	2	18.0	18.3	21.1	17.6
	3	14.5	14.8	17.6	14.1
	4	12.0	12.3	15.1	11.6
	5	10.0	10.3	13.1	9.6
	6	8.5	8.8	11.6	8.1
<b>Power output for multiple received channels (Downlink) dBm</b>	<b>700MHz Band12/17</b>	<b>700MHz Band13</b>	<b>800MHz</b>	<b>2100MHz</b>	<b>1900MHz</b>
No. Tones	2	11.2	12.5	14.0	11.4
	3	7.7	9.0	10.5	7.9
	4	5.2	6.5	8.0	5.4
	5	3.2	4.5	6.0	3.4
	6	1.7	3.0	4.5	1.9
Noise Figure	5 dB nominal				
Isolation	> 90 dB				
<b>Power Requirements</b>	12V 3A				

Each Signal Booster is individually tested and factory set to ensure FCC compliance. The Signal Booster cannot be adjusted without factory reprogramming or disabling the hardware. The Signal Booster will amplify, but not alter incoming and outgoing signals in order to increase coverage of authorized frequency bands only. If the Signal Booster is not in use for five minutes, it will reduce gain until a signal is detected. If a detected signal is too high in a frequency band, or if the Signal Booster detects an oscillation, the Signal Booster will automatically turn the power off on that band. For a detected oscillation the Signal Booster will automatically resume normal operation after a minimum of 1 minute. After 5 (five) such automatic restarts, any problematic bands are permanently shut off until the Signal Booster has been manually restarted by momentarily removing power from the Signal Booster. Noise power, gain, and linearity are maintained by the Signal Booster's microprocessor.

The Manufacturer's rated output power of this equipment is for single carrier operation. For situations when multiple carrier signals are present, the rating would have to be reduced by 3.5 dB, especially where the output signal is re-radiated and can cause interference to adjacent band users. This power reduction is to be by means of input power or gain reduction and not by an attenuator at the output of the device.

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

Wilson Electronics, LLC  
3301 East Deseret Drive, St. George, UT 84790  
For additional Technical Support visit [www.WilsonElectronics.com](http://www.WilsonElectronics.com)  
or email at: [tech@wilsonelectronics.com](mailto:tech@wilsonelectronics.com)  
Phone: 866-839-9361 Local: 435-673-5021 Fax: 435-656-2432  
[www.twitter.com/WilsonCellular](http://www.twitter.com/WilsonCellular) [www.facebook.com/WilsonCellular](http://www.facebook.com/WilsonCellular)