WILSONPRO™
A Wilson Electronics Brand

PRO 70 COMMERCIAL

In-Building Cell Signal Amplifier

User Manual

Index

Package Content

Kit 460242

Pro 70
Commercial

Wide Band Directional
Antenna + 75'
Wilson 400 Cable

Dome Antenna +
100' Wilson 400 Cable

2' Wilson
400

Lightning Surge
Protector

Pro 70 Commercial

In-Building Cell Signal Amplifier

Higher than 25 dBm uplink power

Higher than 15 dBm downlink power

Color touch screen, for easy antenna tuning and on-screen troubleshooting instructions

Turn off unused bands

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Key Features

Simple Wall-Mount Installation: An indoor and outdoor port are located on top of the amplifier for easy antenna connections, while an exposed mounting flange at each corner of the amplifier provides for simple and clean wall-mount installation.

Onboard Software for Better Control: The amplifier is automatically controlled with automatic onboard software, ensuring great connectivity throughout large spaces and multi-story buildings. The amplifier will adjust its gain level up or down as required by the conditions of the immediate signal environment.

High Dynamic Range: Remains powered on with strong outside signals up to -20dBm (equivalent to having a cell tower next to antenna).

Color LCD for Easier Access: Unlike other amplifiers, the Pro 70 Commercial has a color LCD screen with four-way navigation, allowing integrators to optimize antenna position and maximize the performance of the amplifier.

Competitive Advantages

Highest Downlink Power: Up to +15dBm downlink output power allows for stronger signal in environments where the incoming signal is weak. The benefit is a stronger signal sent to the inside antennas, providing larger coverage area from a single amplifier.

Highest Uplink Power: This allows for a stronger signal transmitted to the tower, up to +3dB more than the competition, providing greater user capacity and increased range from the cell site.

Lower Overload and Shutdown Threshold: No matter how strong the outside signal, the Pro 70 Commercial never shuts down. This is a huge benefit in strong signal environments like cities and locations close to a carrier tower.

Intelligent Control: Pro cellular amplifiers automatically adjust signal gain while still providing even signal coverage throughout the building.

Installation Diagram

A Wilson Lightning Surge Protector is recommended for all building installations. Make sure the protector is installed outside the building at point of entry connected to a suitable ground and in line between the Outside Antenna and the Signal Amplifier.

Outside Directional Antenna

Lightning Surge Protector

WILSONPRO™
Pro 70 Commercial

to power

Inside Dome Antenna

Band 4

FULL GAIN
70 dB

UL DL
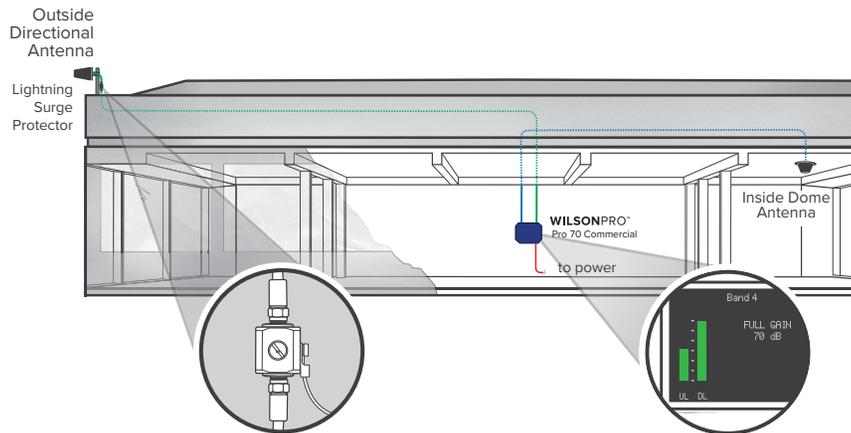
The direction of the outside antenna should be adjusted until the "DL" bar is maximized.

Simple wall-mount installation.
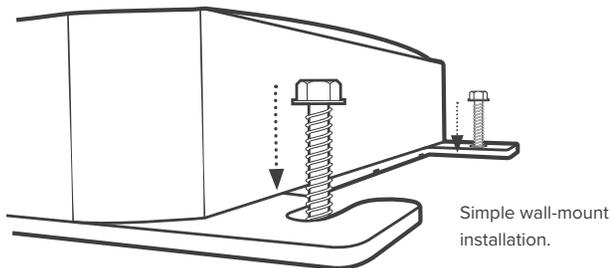
Post Install Setup

The Pro 70 Commercial is designed with advanced internal programming, which allows it to automatically adjust for a variety of conditions, while still boosting weak signals.

Once the AC power cable and antenna cables are connected, turn the unit on by toggling the power switch located near the AC power receptacle.
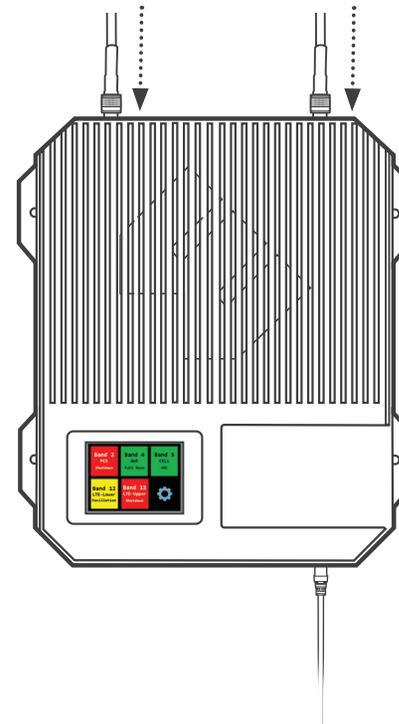
Menu System

The Pro 70 takes about 5 seconds to boot up. Once boot up is complete, the home screen will appear, showing the amplification and status of each port and band.

Splash Screen

Home Screen

Band Menu Color Description

A solid green light indicates that a band is operating correctly with maximum allowable gain.

A solid yellow light indicates band gain reduction because of an oscillation condition. Reposition antennas (more separation between indoor and outdoor antennas, and pointed in opposite directions) and reboot (power cycle) the Pro 70 Commercial for maximum performance. When adequate separation is achieved, the yellow lights will return to green upon reboot. Note that when the light is yellow, the band is **operational**; however, performance is reduced.

A red light indicates a band which has been completely shut down because of a severe oscillation condition or repeated oscillation. Reposition antennas (more separation between indoor and outdoor antennas, and point in opposite directions) and then reboot (turn the unit on & off) the Pro 70 Commercial to reactivate the band and maximize performance. When adequate separation is achieved, the red light(s) will return to green upon reboot.

Settings Screen

Tap on the gear icon to view the **Settings Screen.**
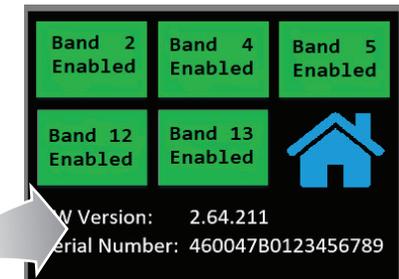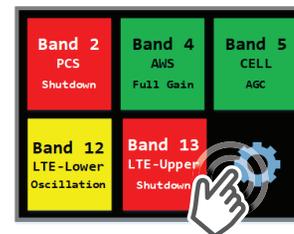
Bands can be disabled/enabled by tapping the desired band.
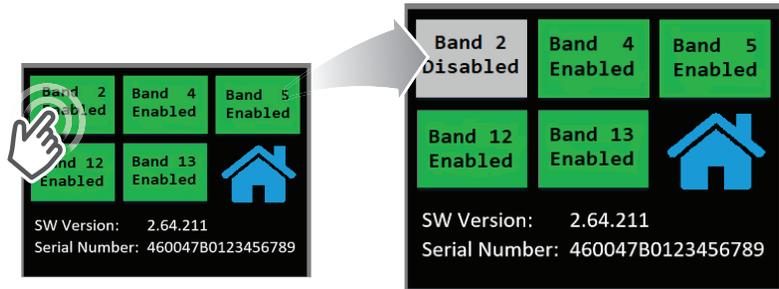

To go back to the home screen tap on the home icon.
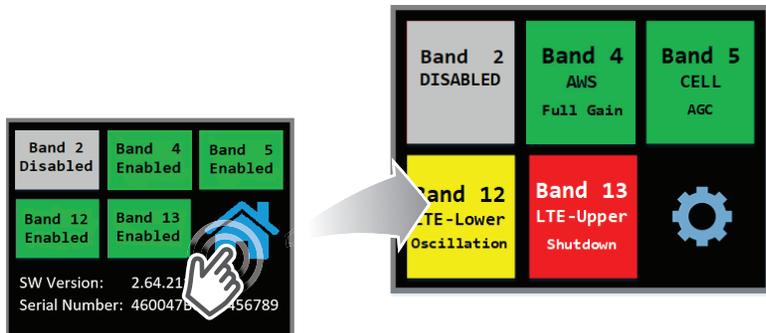
To view specific band information, such as; the strength of the received uplink and downlink signal, status details, and the amplifier gain. tap desired band on the home screen.
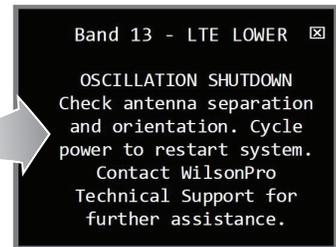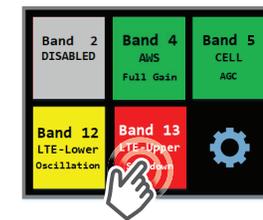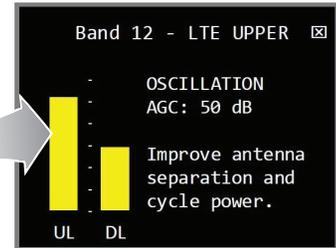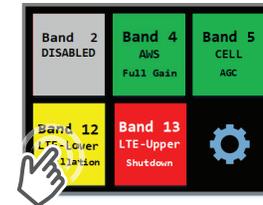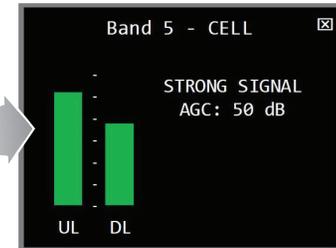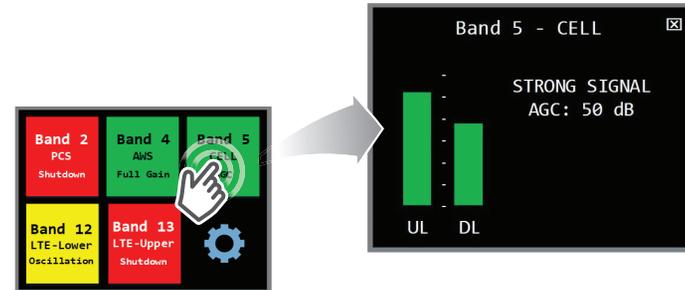
Safety Guidelines

⚠ Warnings

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.

Use only the power supply provided in this package. Use of a non-Wilson Electronics product may damage your equipment.

The Signal Amplifier unit is designed for use in an indoor, temperature-controlled environment (less than 100 degrees Fahrenheit). It is not intended for use in attics or similar locations subject to temperatures in excess of that range.

RF Safety Warning: Any antenna used with this device must be located at least 8 inches from all persons.

AWS Warning: The Outside Antenna must be installed no higher than 10 meters (31'9") above ground.

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.

In Canada, **BEFORE USE** you must meet all requirements set out in ISED CPC-2-1-05. 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 (i.e., **MUST NOT** be installed within 20 cm of) any person.

You **MUST** cease operating this device immediately if requested by the FCC (or ISED in Canada) or 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 a fixed location (i.e..may operate in a fixed location only) for in-building use.

ISED CPC-2-1-05: http://www.ic.gc.ca/eic/site/smt-gst.nsf/eng/sf08942.html

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FOR MORE INFORMATION ON REGISTERING YOUR SIGNAL AMPLIFIER WITH YOUR WIRELESS PROVIDER, PLEASE SEE BELOW:

Sprint: http://www.sprint.com/legal/fcc_boosters.html
T-Mobile/MetroPCS: https://support.t-mobile.com/docs/DOC-9827
Verizon Wireless: http://www.verizonwireless.com/wcms/consumer/register-signal-booster.html
AT&T: https://securec45.securewebsession.com/attsignalbooster.com/
U.S. Cellular: http://www.uscellular.com/uscellular/support/fcc-booster-registration.jsp

Antenna Kit Options

The following accessories are certified by the FCC to be used with the **PRO 70 Commercial.**

OUTSIDE FIXED

Kit 314411-40075
Wide Band Directional Antenna With 75' LMR 400

Kit 314411-5825
Wide Band Directional Antenna With 25' RG-58

Kit 304422-1120
Omni Enterprise 304422 With 20' RG-11

Kit 301111-0675
Yagi Antenna 301111 With 75' RG-6

Kit 301111-5850
Yagi Antenna 301111 With 50' RG-58

Kit 311203-40020
Omni Directional Antenna (311203) With 20' LMR 400

Kit 314453-5825
Panel Antenna With 25' RG-58

Kit 311203-5820
Omni Directional Antenna (311203) With 20' RG-58

Kit 311201-0620
Omni Directional Antenna (311201) With 20' RG-6

Kit 301126
Mini-Mag Antenna With 12.5' RG-174

Kit 301111-11140
Yagi 301111 With 140' RG-11

Kit 311201-1120
Omni Directional Antenna 311201 With 20' RG-11

Kit 314453-40075
Panel Antenna With 75' LMR 400

Kit 314473-0640
Panel Antenna With 40' RG-6

Kit 311141-0620
Grey Brick w/20' RG-6

Kit 311141-1120
Grey Panel With 20' RG-11

Kit 314473-1175
Wide Band Directional Antenna With 75' RG-11

Kit 314475-1175
Wide Band Directional Antenna With 75' RG-11

Kit 301111-400170
Yagi Antenna 301111 With 170' LMR 400

Kit 304421-1120
Omni Consumer 304421 With 20' RG-11

Kit 304421-17410
Omni Consumer 304421 With 10' RG-174

Kit 304421-0610
Omni Consumer 304421 With 10' RG-6

Kit 304421-5810
Omni Consumer 304421 With 10' RG-58

Kit 304422-40020
Omni Enterprise 304422 With 20' LMR 400

INSIDE FIXED

Kit 304412-40060
Dome w/60' Wilson 400

Kit 304419-1150
Dome w/50' RG-11

Specifications

Model Number	460047				
FCC ID	PWO460047				
IC ID	4726A-460047				
Connectors	N-Female				
Antenna Impedance	50 Ohms				
Frequency	698-716 MHz, 729-746 MHz, 777-787 MHz, 824-894 MHz, 1850-1995 MHz, 1710-1755/2110-2155 MHz				
Power output for single cell phone (Uplink) dBm	700MHz Band12/17	700MHz Band13	800MHz	1700MHz	1900MHz
	25.14	24.69	25.06	25.15	25.16
Power output for single cell phone (Downlink) dBm	700MHz Band12/17	700MHz Band13	800MHz	2100MHz	1900MHz
	15.09	15.06	15.25	15.17	15.17
Noise Figure	5 dB nominal				
Isolation	> 90 dB				
Power Requirements	120V AC 0.5A				

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

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.

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 weBoost could void the authority to operate this equipment.

Notes

Notes

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Warranty

✓ 30 DAY MONEY-BACK GUARANTEE

All WilsonPro products are protected by WilsonPro 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

WilsonPro Amplifiers 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 Amplifiers 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 WilsonPro. WilsonPro shall, at its option, either repair or replace the product.

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

Replacement products may include refurbished WilsonPro products that have been recertified to conform with product specifications.

RMA numbers may be obtained by contacting Customer Support.

DISCLAIMER: The information provided by WilsonPro is believed to be complete and accurate. However, no responsibility is assumed by WilsonPro 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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NOT AFFILIATED WITH WILSON ANTENNA

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