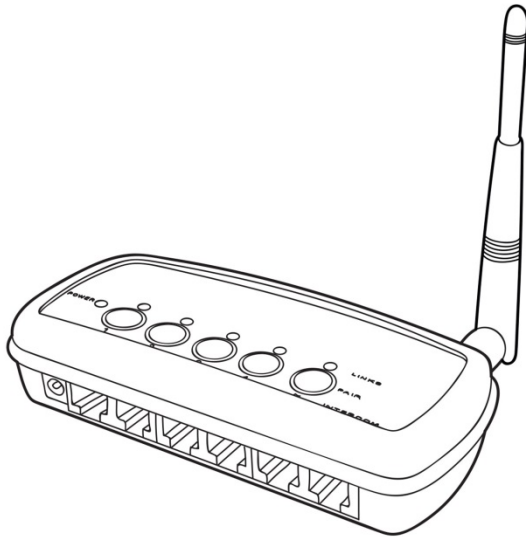




WB505R / WB505L

Wireless DECT7 Base Station

Manual



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Overview

Firecom Wireless Base Stations support the RF connections of Firecom wireless communication systems. The Base Station supports full duplex, conference call like digital communication for up to five Firecom DECT7 Wireless Headsets. Radio PTT capable Headsets can be set up to transmit on a mobile radio via a Firecom Digital Intercom. For installations which need a greater number of users, Broadcast mode supports up to 100 users. Broadcast users share connections to take turns talking with the group.

Firecom DECT7 wireless, operating on the 1.9GHz band provides secure, interference-free, full-duplex communication. Wireless Headsets have a wideband connection of up to 7kHz. This gives a line-of-sight range of up to 1,600 feet. With internal and external antennas, the Wireless Base Station configures itself for the best reception. Multiple Wireless Base Stations and Intercoms can be combined to support up to 60 users in a single audio network. USB programming allows complete customization.

Contents in Box

Base Station

1 ea x Wireless Base Station



Antenna

1 ea x Duck Antenna

1 ea x Duck Antenna Mount

1 ea x Wire Tie



Manual and Reference

1 ea x Manual

1 ea x FCC/IC certification sheet

1 ea x ComCare sheet



Power

1 ea x DC Power Cable

1 ea x in-line Fuse Holder & Fuse

Accessories

1 ea x RJ45 Intercom Interface Kit

1 ea x RJ12 Intercom Interface Kit

8 ea x RJ12 Connectors

1 ea x Mounting Feet Kit

1 ea x USB Cable

Accessories (not included)

Magnet Mount Remote Antenna

RJ12 Flat Cable

Permanent Antenna

Auxiliary Input Radio Interface - Connect to virtually any radio and many other devices

Worldwide Power Adaptor

Features

USB Programmable

Using its USB port, a Base Station can be configured using a Windows PC. Features may be customized and saved. Refer to the Sonetics Headset Software for details.

Wireless DECT7 Communications

The Base Station features wireless DECT7, enabling conference call-like full duplex communication. The Firecom wireless DECT7 Base Station will connect with Firecom Wireless Headsets and Belt Packs. DECT7 networks have up to 1600ft line-of-sight range in Region 1 (US) and up to 800 meters in Region 2 (EU). DECT7 ensures interference free, digitally encrypted communications for all parties.

Backwards Compatibility

The Firecom Wireless Base is backwards compatible with the Firecom first generation wireless DECT and DECT6 headsets, with minimal loss in functionality.

Wide Band Audio

The Wireless DECT7 communications are transmitted in a high definition wide band audio format. This gives greater clarity of voice, and allows for integration with voice activated control systems. It can be switched to narrow band audio when necessary.

Dual Antenna Design

The Base Station has internal and external antennas for diversity switching to lock onto the best signal. This allows the installer to place the Wireless Base Station and antenna in different locations for system optimization in custom installations.

Multi-Channel System

The Wireless Base Station can be configured for multiple channels. These can be remotely selected by paired Wireless Headsets.

Broadcast Only Mode

The Headset may be paired into a listen only mode of operation, reducing power consumption considerably. This also allows many more headsets to be connected to a Wireless Base Station simultaneously. Pressing the Radio PTT button allows the headset to momentarily talk on any available slot. A tone will let the user know when they can talk. After talking, there will be a slight delay when other users cannot be heard.

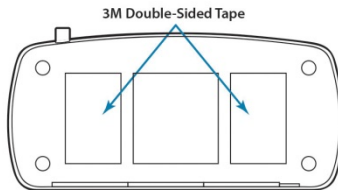
Mounting

The Wireless Base Station is designed to mount on a variety of surfaces. The unit includes internal and external antennas. Consideration must be given to antenna location to optimize performance.

⚠ WARNING: Do not locate the Wireless Base Station within 4" of any metal.

If the Wireless Base Station must be located in a non-optimal location, use an external accessory remote antenna.

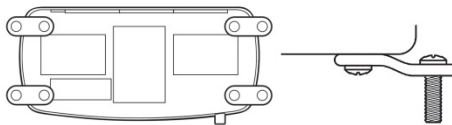
Option 1: Window Glue Mount



1. Remove duck antenna.
2. Clean the location where the wireless base will be installed.
3. Remove the protective backing from the 3M double-sided tape on the bottom of the wireless base.
4. Press firmly to the window.

Option 2: Fixed mount with Feet

1. Remove one of the screws on the bottom of the Base Station.
2. Place a mounting foot, and attach it using a replacement screw.
3. Repeat for the other three screws.
4. Mount the Wireless Base Station using the mounting feet.



5. Position antenna and use antenna mount to secure it. Alternatively, use a remote antenna.

Option 3: Desk

1. Place on Desk.
2. Orient the external duck antenna vertically or use a remote antenna.

Antennas

An external antenna can provide a performance increase in some locations, and affords greater installation flexibility.

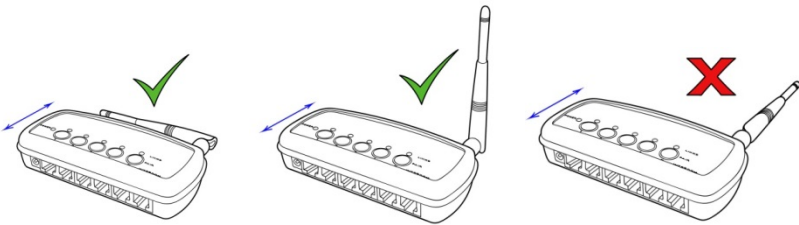
To optimize performance:

1. Position the antenna at least 12 inches from any other antenna, metal, electrical power, radio equipment, or obstructions.
2. Choose a location in the center of the vehicle's roof (if mounting outside).

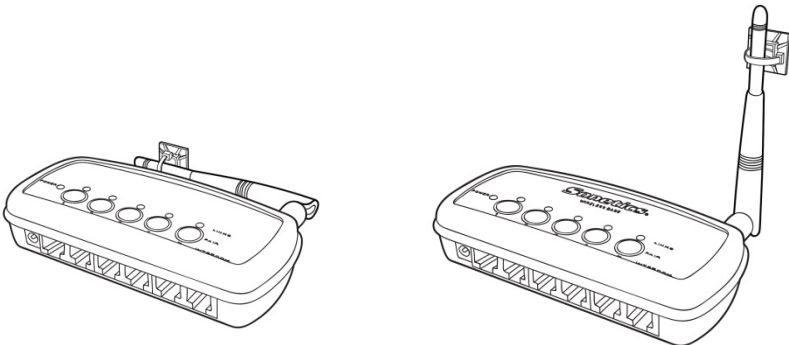
⚠ WARNING: For FCC and other Radio Frequency regulatory compliance, use only Sonetics approved wireless antennas.

Duck Antenna

Always position the Duck antenna at 90 degrees from the internal antenna. The internal antenna is shown below.

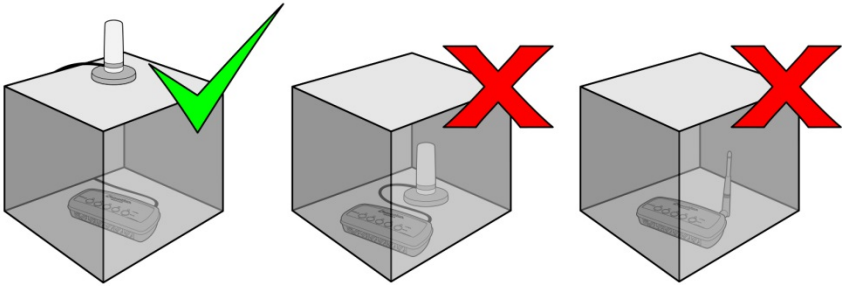


The duck antenna needs to be supported when used in a vehicle or any environment when the Wireless Base Station may be subjected to vibration.



Accessory Antennas

Sonetics has accessory antennas for temporary and permanent installation on the exterior of a vehicle or building. To ensure the best system performance, external antennas must not be mounted inside metal enclosures.



Magnet Mount Antenna

This antenna is designed for non-permanent installations on metallic surfaces.

1. Temporarily mark the center of the vehicle's roof or trunk. Centering the antenna on a flat metal area will improve ground plane and increase range.
2. Clean the marked area with rubbing alcohol or other non-corrosive cleaner to prepare the surface. Let it dry completely.
3. Cut a round piece of felt the same size as the bottom of the magnet mount and place it on your center mark. Set the magnetic antenna on top of the felt to protect to the vehicle's paint from scratches. Use of a felt patch will slightly reduce the strength of the magnet. Make sure the coaxial cable is pointed toward where it will enter the vehicle.
4. Open the hood or the trunk. Route the cable through a body panel gap to get to the base station location.
5. Connect the cable to the antenna connector on your Wireless Base Station. Do not over tighten the antenna! Finger tight plus 1/8th a turn is sufficient.

Permanent Mount Antenna

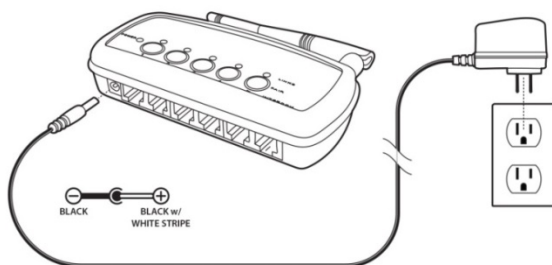
This antenna is designed for permanent installation. Have a qualified radio installer perform the installation.

Power

The Wireless Base Station can be powered from the DC Jack or directly from a Digital intercom. The unit will automatically power on when power is applied.

⚠ WARNING: Use only one power option to prevent ground loops.

Option 1: DC Jack Power

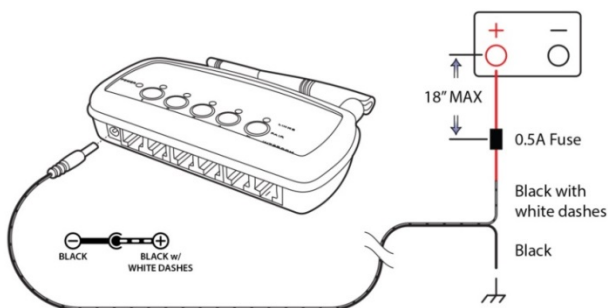


Wall Adapter Charging

Only charge the base station using the supplied 12VDC regulated wall adapter.

⚠ WARNING: Use only approved wall adapters.

Vehicle Charging

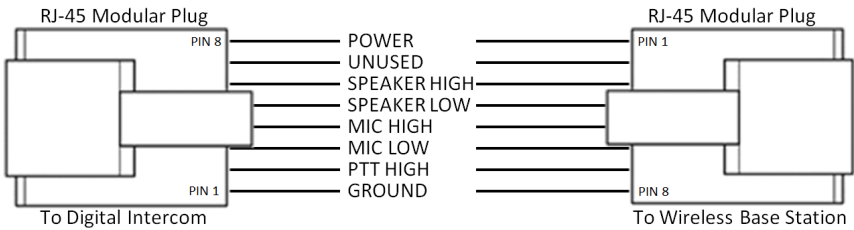


Connect the **BLACK** wire with **WHITE** dashes to +12V and the **BLACK** wire to chassis ground. Install the fuse no further than 18" from the battery.

⚠ WARNING: Only replace fuse with the same type, 0.5A AGU.

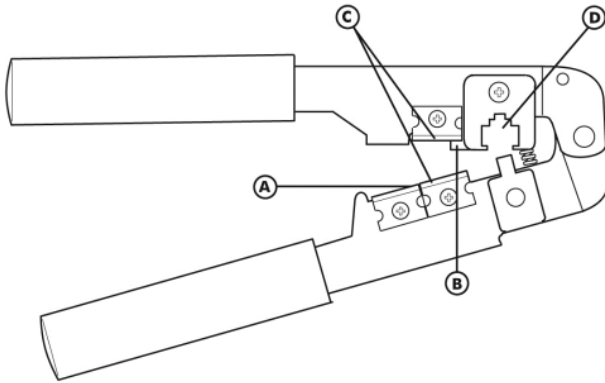
⚠ WARNING: Voltages exceeding the headset charging specification will damage the headset.

Option 2: Digital Intercom Power

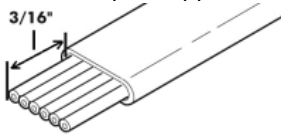


1. Connect one RJ-45 modular plug as shown above. Both the Power and Ground will be connected from the Digital Intercom to the Wireless Base Station. Any input will power the Wireless Base Station.
2. Adjust the fuse of the Digital Intercom to include the current draw from the Wireless Base Station.
3. Additional connections to the Digital Intercom using a 6 pin wire, and RJ-12 connectors.

Modular Plug Installation

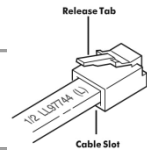


1. Using the cutter blade on the crimping tool (A), cut the flat CA Cable so the cut is clean and 90 degrees to the sides of the cable.
2. Insert one end of the CA Cable between the stripping blades (C) until the end of the cable hits the stop (B).
3. Squeeze the handles of the crimping tool together until the tool bottoms out.
4. While holding the handles together, pull the cable out of the tool.
5. The stripped insulation should expose approximately 3/16" of wire.



6. Push a RJ Modular Plug into the plug holder on the crimping tool (D) until the release tab on the plug locks into position.
7. Holding the cable so that the printed side (or smooth side) of the cable is toward the release-tab on the plug, push the cable into the plug as far as it will go.

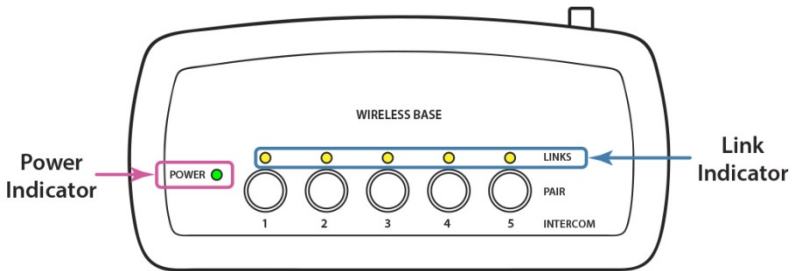
 **ALWAYS make sure the printed side (or smooth side) of the cable is facing the release-tab on the RJ Modular Plug.**



8. Squeeze the tool handles **COMPLETELY** together. You may feel the crimper finish punching the contacts through the insulation on the wires.
9. Let the handles spring open.
10. Push down on the release-tab on the RJ Modular Plug and remove the RJ Modular Plug from the crimping tool.
11. Inspect the plug to ensure that the cable is held securely in place.

LED Indicators

Top

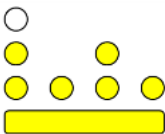


Power Indicator

Lights when unit has power and is turned on.

Link Indicators

There is one light per wireless position. These indicate the connection status of the wireless devices paired onto the Wireless Base.



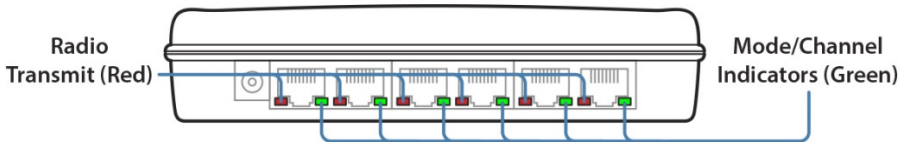
Off – No wireless device is paired to this position

Slow Flashing – Pairing Mode Active

Fast Flash – Device paired, no connection.

Solid Light – Device paired and connected

Front



Radio Transmit (Red LEDs)

Indicates the radio transmit activity for each output.

Mode/Channel Indicators (Green LEDs)

These are used to set up the Base Station for Comhub, Intercom, or Legacy Intercom functionality.

Use with a Digital Intercom – WB505R

(5000 Series Digital Intercoms)

The Wireless Base Station is designed to integrate into a Firecom Intercom system. This lets the user operate two-way-radios with a Wireless Headset. When used in Intercom mode, the Base Station must be connected to a Firecom Intercom for Headsets to communicate with one another. Only one channel is available in Digital Intercom Mode.

Setting up Digital Intercom Mode (WB505R default)

1. Unplug the Base Station, then plug it back in while holding the Pairing buttons for positions 1 and 2 until the green channel indicator LEDs for positions 1 and 2 light up (about 5 seconds).
2. The Base Station is now in Digital Intercom mode.
3. Unplug the Base Station, then plug it back in. The Base Station is now ready to use.

Digital Intercom Radio Transmit

Some models of Wireless Headsets have radio transmit capability built in. Headsets can receive and transmit via the built in PTT button. The Wireless Base Station must be connected to a Firecom intercom that is connected to a two-way-radio. Consult your Intercom manual for instructions on how to connect them.

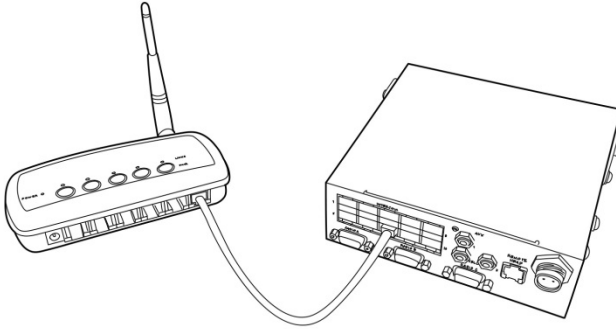
1. Make sure your Headset is a radio transmit model and that it is configured to transmit radio over DECT. Consult your Headset manual for instructions.
2. Pair the Headset to the desired position on the Base Station.
3. Connect the port for that position to a Firecom Intercom using a flat cable.
4. Repeat for other positions needing Radio transmit capability.
5. Test and verify each position. The Red LED next to the connected port on your base station will light when the Headset is radio transmitting.

Intercom Only

For Intercom only functionality, the Wireless Base can be connected to the Firecom Intercom using the intercom port. All Headsets will communicate over the intercom using only position 6. No radio push to talk function will be available.

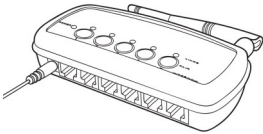
1. Pair the Headset to the desired position on the Base Station.
2. If radio transmit capability is needed for a headset, follow the instructions above under "Digital Intercom Radio Transmit".

Base Station connected to a Firecom Digital Intercom



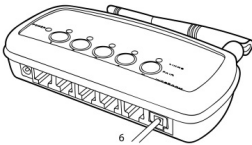
Examples:

Stand Alone, No Radio Interface



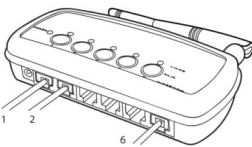
All positions communicate locally via the Base Station only. With no connection to a Digital Intercom, the headsets will only be able to communicate with other headsets connected to the Wireless Base Station.

Intercom Only Connected to Digital Intercom



All positions communicate over the Intercom only. No radio transmit is available.

Mixed mode, Radio PTT with Intercom only Connected to Digital Intercom



Positions 1 & 2 have radio transmit capability. All positions have intercom communications through the intercom port. Positions 3, 4, and 5 do not have radio transmit capability (any position connected via its own cable will have radio transmit capability).

Use with a Legacy Intercom – WB505L

(30XXR, 110, and 210 Intercoms)

The Wireless Base Station is designed to integrate into older Legacy Firecom Intercom systems. This lets the user operate two-way-radios with a Wireless Headset. When used in Legacy Intercom mode, the Wireless Base Station must have Ports 1 and 6 connected to the Firecom Intercom. This allows Intercom Only headsets to hear the communications of a headset utilizing radio transmit. Only one channel is available in Legacy Intercom Mode.

Setting up Legacy Intercom Mode (WB505L default)

1. Unplug the Base Station, then plug it back in while holding the Pairing buttons for positions 2 and 3 until the green channel indicator LEDs for positions 2 and 3 light up (about 5 seconds).
2. The Base Station is now in Legacy Intercom mode.
3. Unplug the Base Station, then plug it back in. The Base Station is now ready to use. In this mode, the position a Headset is paired to does not impact its operation.

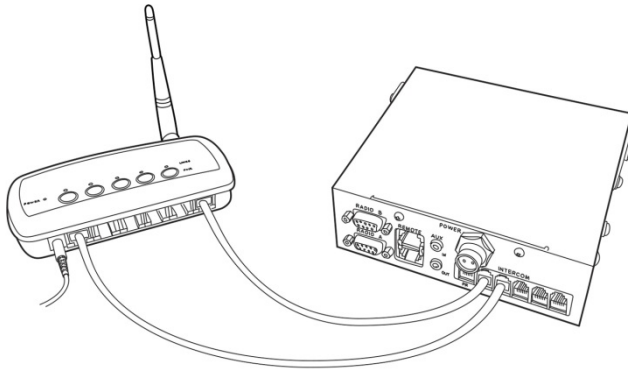
Intercom Connections

1. In this mode port 6 must be connected to a Firecom Intercom using the supplied flat cable.
2. Pair the Headset(s) to the Base Station. For Radio Transmit operation, make sure your Headset is a radio transmit model and that it is configured to transmit radio over DECT. Consult your Headset manual for instructions. If Radio Transmit operation is required, connect port 1 to the Firecom intercom using the correct type flat cable. The Firecom intercom must be connected to a two-way-radio.

Operation

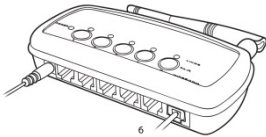
All non-radio transmit audio is through Port 6 of the Base Station. When a Radio Transmit headset initiates a transmission by activating its PTT button, its audio is switched to Port 1 along with the PTT signal.

Base Station connected to a Firecom Legacy Intercom



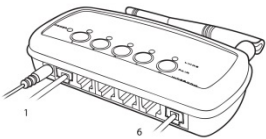
Examples:

Intercom Only Connected to Digital Intercom



The Intercom port only is connected. All paired devices will only transmit over the Intercom. No intercom radio transmit is available. Make sure all headsets are set to intercom only modes.

Radio PTT Connected to Digital Intercom



Positions 1 through 5 are radio transmit capable. PTT signal for all paired devices operate through the position 1 connection. The Intercom continues to operate through the Intercom Port.

































Use in a Comhub

In addition to being used in an installed system, your Base Station can be used in a portable Comhub. Up to 5 channels are available through the Wireless Base Station when used in this configuration.

Setting up Comhub mode, and the number of channels

To enter configuration mode:

1. Unplug the Base Station, then plug it back in while holding the position 3 pairing button.
2. Hold the pairing button until the green channel indicator LED turns on (see "Mode/Channel Indicators" on page 10).
3. The Base Station is now in Comhub mode.
4. To set the number of available channels, press the pair button corresponding to the number of channels desired (button 2 = 2 channels, etc). The current number of channels is shown with a green LED on the associated Mode/Channel Indicator (e.g. Port 5 = 5 channels).

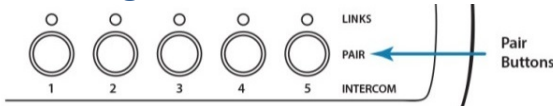
Number of Channels	LED States					
	Port 1	Port 2	Port 3	Port 4	Port 5	Intercom
1						
2						
3						
4						
5						
LED status: LED Off  LED On 						

5. To exit configuration mode, unplug your base station from power, then plug it back in. The Base Station is now ready to use.

Pairing

Pairing creates a connection between the Wireless Base Station and the headset. This is only required once. After pairing, Headsets will connect automatically.

Full-Duplex Pairing

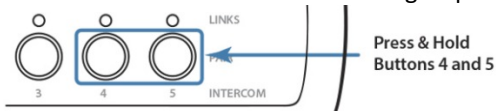


1. Press and hold the desired pairing button until its link indicator begins to flash slowly. Any previous pairing to that position will be forgotten.
2. Place the Firecom headset into pairing mode by pressing the right PTT button and the power button until you hear "base station registering".
3. The Base Station will automatically connect, showing a solid link led.
4. If the pairing was unsuccessful, repeat all steps above.

Broadcast Only Pairing

Broadcast Only allows up to 100 devices to be paired to the Wireless Base Station. One active full duplex device pairing must exist for the Broadcast channel to be opened. Broadcast users never have Radio Transmit capability.

Example: Position 1 has a Full Duplex headset pairing. Positions 2-4 are available for devices to share. Position 5 broadcasts back to the group.



1. Press and hold Buttons 4 & 5 until 4 & 5 link LEDs begin to flash slowly.
2. Place the wireless device you wish to link into pairing mode.
3. The wireless base will automatically connect, showing a solid link LED on position 5 and the device will show that it is connected (refer to the Firecom device manual).
4. If the pairing was unsuccessful, repeat steps 1-3.
5. To pair additional devices, repeat steps 1-4 with another device.

Because Broadcast Only Headsets share communication positions, there can be slight delays in communication. To talk, the Push-To-Talk button must be held until a position opens. After a Broadcast call is made, there will be a pause in which incoming communications cannot be heard

To exit Broadcast Only mode:

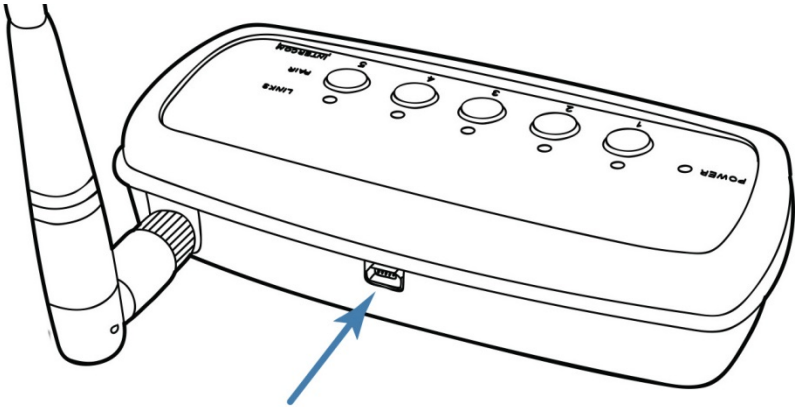
Press and hold 4 or 5 until the link LED flashes slowly indicating pairing mode.

Note: For information on how to pair a Firecom Connect, please go to the Firecom Connect Manual at: <https://www.firecom.com/customer-support/>

PC Programming

The Wireless Base Station has a USB port located near the Antenna Jack. Using the Sonetics Configurator software, you can adjust additional features using a Windows PC. Refer to the program for additional information.

Locating the USB Port



Installation of the Sonetics Configurator Software

1. Go to www.SoneticsCorp.com/software.
2. Download and Install the software for the wireless base station.
3. Use a mini-USB cable to connect the Wireless Base Station to a Windows PC. The Base Station will power up.
4. Open the Sonetics Configuration Software.
5. Follow the directions given by the Sonetics Configuration Software.

Troubleshooting

Note: If you are experiencing symptoms not covered here, or are having difficulty troubleshooting, call us or visit our website. We're here to help.

Service Contact:

800-527-0555

service@firecom.com

No indication of power to the base station

1. Make sure that the Wireless Base Station has the correct power connection, and that it is plugged in completely.

No audio communication and/or PTT from or to the base.

1. Make sure the Wireless Headset(s) are on, connected, and are using the same channel (if base station is set for multiple channels).
2. Ensure that the modular communication cable is correctly connected between the Wireless Base Station and Intercom.
3. Check the modular communication cable between the Wireless Base Station and Intercom for continuity.
4. Ensure correct polarity of the modular plug on both ends of the modular cable.

Poor quality audio, low or distorted audio.

1. Check the intercom volume. Set the volume level as high as possible on the Intercom without causing distorted audio on the Headset, and then adjust the volume control on the Headset for comfortable listening.
2. Poor quality audio can be caused by a defective Headset. Confirm operation with a Headset known to be functioning properly.
3. Ensure your Wireless Base Station and Intercom are configured correctly.

Audible interference from portable and mobile radios.

1. Care should be taken to install cables away from radio and antenna cabling to prevent RF interference.

Poor coverage range.

1. Check the Wireless Base Station and external antenna locations. They should not be installed inside metal enclosures or closer than 4 inches to a metal object or surface.
2. Poor range can also be caused by a defective Headset. Check operation with a known, properly functioning Headset.
3. If the problem persists, contact Firecom Service for additional help.

WB505R / WB505L Specifications

Physical

Length:	5.70in / 145mm
Width:	2.72in / 69mm (not including external antenna)
Height:	1.22in / 31mm
Weight:	5.6oz / 158g

Power

Voltage Input:	5 VDC to 16 VDC
Maximum Current Input:	400mA @ 5V, 150mA @ 12V

Environmental

IP-Rating:	IP-20
Operating temperature:	-40°F to 176°F / -40°C to 70°C
Storage temperature:	-40°F to 185°F / -40°C to 85°C

FCC

FCC ID:	V9N950325700V1
FCC Part 15:	All Models

Industry Canada

IC UPN:	7895A-950325700
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MIL SPEC

Humidity:	MIL-STD 810F and 810G
Temperature Shock:	MIL-STD 810F and 810G

SAE / NFPA 1901

Vibration:	J1455 Sec. 4.9
Conducted Immunity:	J1113-11
Electrostatic Discharge:	J1113-13
Radiated Emissions:	CISPR 25
Radiated Immunity:	ISO 11452-2

ISO

Conducted Transients:	7637-2
Quality Management System Control:	ISO 9001:2008

DECT Specifications

Common DECT Specifications

Carrier Spacing:	1.724 MHz
Time Slots:	2 x 12 (up and down stream)
Channel Allocation:	Dynamic
Encryption:	DECT Standard Cipher with 35-bit initialization vector
Audio Bandwidth:	300 Hz to 3.4 kHz, Narrow Band, G.726 compression 50 Hz to 7 kHz, Wide Band, G.722 compression

Region 1 Specific Specifications

Authorized for use in:	Canada, USA
Frequency Bandwidth:	1919.808 MHz to 1930.176 MHz
Number of Carriers:	5
Total Time Slots:	60 in G.726(narrow band) / 30 in G.722(wide band)
Average Output Power:	4 mW
Maximum Output Power:	100 mW
Range (line of sight):	1600 feet maximum

Important Safety Information

⚠ CAUTION! Follow all warnings and instructions marked on the product or contained in the owner's manual.

When using this product, always follow basic safety precautions to reduce the risk of fire, electric shock and injury to persons, including the following:

- ⚠ Do not use the wireless system to report a gas leak in the vicinity of the leak.
- ⚠ Use only the power adapters, and power cords indicated in the manual. If more than one type of power adapter is included in the product, the manual specifies which adapter should be used for each component. Be sure to use the proper adapter for each product component.
- ⚠ Do not place the power cord where it creates a trip hazard or where it could become chafed and create a fire or electrical hazard.
- ⚠ Do not subject the unit to high temperatures or leave it in direct sunlight for an extended period of time.

SAVE THESE INSTRUCTIONS!

Warning for Sensitive Electronic Devices

This equipment and any radio-based electronics can potentially cause electromagnetic interference with other equipment and can be interfered with by other equipment. This also applies with DECT based equipment. Due to the very low transmission power associated with DECT, the chance for interference is small. However some specific precautions must be taken into account for sensitive electronic equipment e.g. sensitive laboratory equipment, medical instruments or medical implants to avoid incidental influence of equipment operated in straight nearness to sensitive electronic equipment. You are therefore advised not to place the DECT equipment or its antenna in close proximity to sensitive equipment by maintaining a 20cm minimum distance between the sensitive equipment even in standby mode. Please also consider referencing the documentation provided by us and the manufacturer of sensitive electronic items guiding its proper usage.

General Communication Privacy Notice

Although this equipment may contain specific protocols that enhance security and privacy of communication, privacy of communication may not be ensured when using this equipment.

Notice:

Modification not expressly approved of by Sonetics Corporation could void the users authority to legally operate the equipment and will nullify warranty. This includes the use on non-approved antennas or 3rd party amplifiers with the radio base station.



This section applies to radio frequency equipment bearing an I.C. Equipment ID Number.

Under Industry Canada regulations, this radio transmitter may only operate using an antenna of a type and maximum (or lesser) gain approved for the transmitter by Industry Canada. To reduce potential radio interference to other users, the antenna type and its gain should be so chosen that the equivalent isotropically radiated power (e.i.r.p.) is not more than that necessary for successful communication.

This radio transmitter IC: 7895A-950325700 has been approved by Industry Canada to operate with the antenna types listed below with the maximum permissible gain and required antenna impedance for each antenna type indicated. Antenna types not included in this list, having a gain greater than the maximum gain indicated for that type, are strictly prohibited for use with this device.

Approved Antennas for use with this device:

- WB505R / WB505L Wireless Base Station Antenna
Sonetics Part Number: 521-0014-00 (3dBi)
- Magnet Vehicle Mount
Sonetics Part Number: 114-0139-00 (4.4dBi) (Sold Separately)
- Permanent Mount Antenna
Sonetics Part Number: 114-0138-00 (4.4dBi) (Sold Separately)

This section applies to radio frequency equipment bearing an I.C. equipment ID number.

This device complies with Industry Canada license-exempt RSS standard(s).

Operation is subject to the following two conditions:

- (1) this device may not cause interference, and
- (2) this device must accept any interference, including interference that may cause undesired operation of the device.

Ce dispositif est conforme à la norme CNR d'Industrie Canada applicable aux appareils radio exempts de licence. Son

fonctionnement est sujet aux deux conditions suivantes:

- (1) le dispositif ne doit pas produire de brouillage préjudiciable, et
- (2) ce dispositif doit accepter tout brouillage reçu, y compris un brouillage susceptible de provoquer un fonctionnement indésirable.

Canada SAR Information:

This device contains a radio transmitter. This device has been shown to be capable of compliance for localized specific absorption rate for uncontrolled environmental / general public exposure limits specified in RSS-102, ANSI/IEEC95.1-2002 and have been tested in accordance with the measurement procedures specified in IEE 1528-2003.

Caution

This base station, other base stations or approved base station antenna meant to be used in conjunction with this equipment must not be used in close proximity to the body. Keep a minimum distance of greater than 20 CM to the human body. This device and antenna must not be co-located in conjunction with any other equipment antenna or transmitter.

Attention:

Déclaration d'exposition aux radiations:

Cet équipement est conforme aux limites d'exposition aux rayonnements IC établies pour un environnement non contrôlé. Cet équipement doit être installé et utilisé avec un minimum de 20 cm de distance entre la source de rayonnement et votre corps.

This device complies with part 15 of the FCC rules. Operation is subject to the following 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.

Modifications not expressly approved by Sonetics Corporation could void the user's authority to operate the equipment.

FCC/IC RF Exposure Warning

- This product complies with FCC radiation exposure limits set forth for an uncontrolled environment.
- To comply with FCC RF exposure guidelines the base station and any antennas must be installed and operated 20cm (8 inches) or more between the product and all persons body (excluding extremities of hands, wrists and feet). Note: All necessary accessories are included in the package; any additional or optional accessories are not required for compliance with the guidelines.) Use of other accessories might not comply with FCC or IC RF exposure guidelines.
- This product may not be collocated or operated in conjunction with any other antenna or transmitter.
- This device has been tested and meets the FCC RF exposure guidelines.

FCC Authorized Antenna Information:

Under FCC regulations, this radio transmitter may only operate using an antenna of a type and maximum (or lesser) gain approved for the transmitter by FCC. To reduce potential radio interference to other users, the antenna type and its gain should be so chosen that the equivalent isotropically radiated power (e.i.r.p.) is not more than that necessary for successful communication.

This radio transmitter has been approved by Industry FCC to operate with the antenna types listed below with the maximum permissible gain and required antenna impedance for each antenna type indicated.

Antenna types not included in this list, having a gain greater than the maximum gain indicated for that type, are strictly prohibited for use with this device.

Approved Antennas for use with this device:

- SON150 Wireless Base Station Antenna Sonetics P/N: 521-0014-00 (3dBi)
- Magnet Vehicle Mount Sonetics P/N: 114-0139-00 (5.5dBi) (Sold Separately)
- Permanent Mount Antenna, Sonetics P/N: 114-0138-00 (5.5dBi) (Sold Separately)

Firecom Standard Limited Warranty

Firecom, a division of Sonetics Corporation, ("Firecom") warrants to the original purchaser of its products that products will be free from defects in materials and workmanship under normal and proper use for the period of **two years** from date of purchase.

Firecom will repair or replace, at its option, any products showing factory defects during this warranty period, subject to the following provisions and obligations:

1. This warranty applies only to a new product sold through authorized channels of distribution.
2. All work under warranty must be performed by Firecom.
3. All returned products must be shipped to our address, freight prepaid and Firecom will return products to customer via ground freight. Any expedite fees or additional freight charges will be charged to customer.
4. Any attempt to repair, service, or alter the product in any way voids this warranty.
5. This warranty does not apply in the event of accident, abuse, misuse, liquid contact, improper installation, unauthorized repair, tampering, modification, fire, earthquake, or damage from other external sources – including damage caused by user-replaceable parts.
6. This warranty does not apply: (a) to consumable parts such as batteries, ear seals, intercom bags, cables, external power supplies, parts listed as accessories to a system, or other parts designed to diminish in function over time unless a failure is due to a defect in materials or workmanship; (b) to cosmetic damage or to defects caused by normal wear and tear or aging of the product; (c) to damage caused by use with non-Firecom products; (d) to damage caused by operating the product outside the permitted or intended uses or environments described by Firecom; (e) to damage caused by service performed by anyone who is not a representative of Firecom or an Firecom Authorized Service Provider; (f) to a product or part that has been modified without the written permission of Firecom; (g) if any Firecom serial number has been removed or defaced.
7. This warranty does not extend to any other equipment, apparatus, vehicle, aircraft, or watercraft to which this product may be attached or connected.

THE FOREGOING IS YOUR SOLE REMEDY FOR FAILURE IN SERVICE OR DEFECTS. SONETICS CORPORATION SHALL NOT BE LIABLE UNDER THIS OR ANY IMPLIED WARRANTY FOR INCIDENTAL OR CONSEQUENTIAL DAMAGES, NOR FOR ANY INSTALLATION OR REMOVAL COSTS OR OTHER SERVICE FEES. THIS WARRANTY IS IN LIEU OF ALL OTHER WARRANTIES, EXPRESS OR IMPLIED, INCLUDING THE WARRANTY OF MERCHANTABILITY OR FITNESS OF USE, WHICH ARE HEREBY EXCLUDED. TO THE EXTENT THAT THIS EXCLUSION IS NOT LEGALLY ENFORCEABLE, THE DURATION OF SUCH IMPLIED WARRANTIES SHALL BE LIMITED TO TWO YEARS FROM DATE OF PURCHASE. NO SUIT FOR BREACH OF EXPRESS OR IMPLIED WARRANTY MAY BE BROUGHT AFTER TWO YEARS FROM DATE OF PURCHASE.

Subject to the terms and limitations of this Firecom Standard Limited Warranty, this warranty covers any new covered product found to be defective within the applicable warranty period. Firecom reserves the right to examine the alleged defective covered product to determine whether this Firecom Standard Limited Warranty is applicable, and final determination of warranty coverage lies solely with Firecom. If Firecom determines that warranty coverage applies, Firecom reserves the right to either repair or replace a covered product or any part thereof, as determined by Firecom in its sole discretion. If the product has been subjected to conditions which exclude coverage under the warranty, customer will be so advised. Customer may then authorize paid repair service or other disposition of the product. Notwithstanding any other provision of this warranty, if you sell or otherwise transfer ownership of your covered product, this Firecom Standard Limited Warranty shall automatically terminate.

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600-0386-00 Rev G
