

Sonetics[®]

SCH305-BT **Wireless DECT7 ComHub** **Manual**



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Overview

The Sonetics Wireless ComHub is the heart of a Sonetics Portable Wireless Communication System. The SCH305-BT ComHub supports full duplex, conference call-like digital communication between up to five Sonetics DECT7 Wireless Headsets. With Bluetooth enabled, remote users can use their cell phone, tablet or laptop to easily reach the entire team on their Sonetics headsets.

Radio PTT-capable headsets can be configured to transmit on a portable radio via the ComHub. For situations that require a large number of connected users, such as education or tour groups, Broadcast Mode supports up to 100 users. Tethering your SCH305-BT with a second ComHub (SCH305 or SCH310T) lets you connect two teams in a single talk group. SCH305-BT ComHubs also have DECT channel capability, allowing users to talk on up to five different channels.

Sonetics DECT7 wireless operates on the 1.9GHz band to provide secure, interference-free communication. With internal and external antennas, the ComHub Base Station configures itself for the best reception and a line-of-sight range of up to 1,600 feet. USB programming allows complete customization.

Contents in Box

SCH305 ComHub

- Wireless ComHub
- Duck Antenna (pre-installed)

Manual and Reference

- ComHub Manual

Accessories (included)

- SCH305-BT ComHub Bag
- ComHub Bag Hanger Hook
- CAT5 Crossover Cable, 7 ft.
- ComHub Shoulder Strap
- 12V AC Wall Adapter
- 12V DC Cigarette Lighter Adapter

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Accessories (not included)

External Antennas

Relocate the line-of-sight point of your ComHub antenna. Magnetic and permanent mount versions available.

Portable Radio Cables (PR Cables)

Connect to virtually any portable two-way radio and many other devices. Call us at 877.685.4838 to verify your radio's make and model or visit www.soneticcorp.com/radio-interface-guide/.

Features

Wireless DECT7 Communications

The SCH305-BT ComHub features wireless DECT7, enabling conference call-like full duplex communication. The ComHub will connect with Sonetics Wireless Headsets. DECT7 networks have up to 1,600 feet 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.

Bluetooth

Bluetooth-compatible cell phones, tablets, and laptops can be paired to the SCH305-BT ComHub to communicate with headset users on the Sonetics DECT system. With the SCH305-BT paired, the DECT team becomes available to off-site users for phone conversations or group video calls using Zoom, Microsoft Teams, WebEx, and other compatible apps.

Waterproof Case

Sonetics SCH305-BT ComHubs are built using genuine Pelican™ cases for superior waterproofing.

External Antenna Connector

An external antenna connector provides an option to relocate the antenna when the ComHub must be placed in a location with poor reception.

Cable Tethering

Connect two teams together in a single talk group when you tether your SCH305-BT with a second SCH305, SCH305-BT or SCH310T ComHub (requires included CAT5 Crossover Cable). Note: Users must switch channels to select either the tethered headset users **or** the device paired to the SCH305-BT.

Carry Bag

A rugged nylon carry bag with hi-vis reflective fabric and comfortable shoulder strap. The included Hanger Hook accessory lets you easily and securely elevate the ComHub for improved range.

USB Programmable

The ComHub's Base Station can be configured from the integrated USB port using a Windows PC. Features may be customized and saved. Refer to the Sonetics Configuration Utility software for details, or visit www.soneticscorp.com/support/firmware-update/.

Backward Compatibility

The SCH305-BT ComHub is backward compatible with previous generation Sonetics Wireless Headsets, with a reduced feature set.

Wide Band Audio

Wireless DECT7 communications are transmitted in a high definition, wideband audio format for greater voice clarity, and for optional integration with voice activated control systems. Audio bandwidth can be switched to narrowband when necessary.

Dual Antenna Design

The ComHub's Base Station has internal and external antennas for improved reception as you move around the work zone.

Multi-Channel System

The SCH305-BT ComHub can be configured for use with up to five channels. These can be remotely selected from a paired Wireless Headset.

Broadcast Mode

Connect up to 3 instructors with up to 100 users for training, education, tours and other large group applications. Broadcast Mode users must press PTT to talk with guides or instructors, who remain in Full-Duplex Mode.

Setup

Orientation

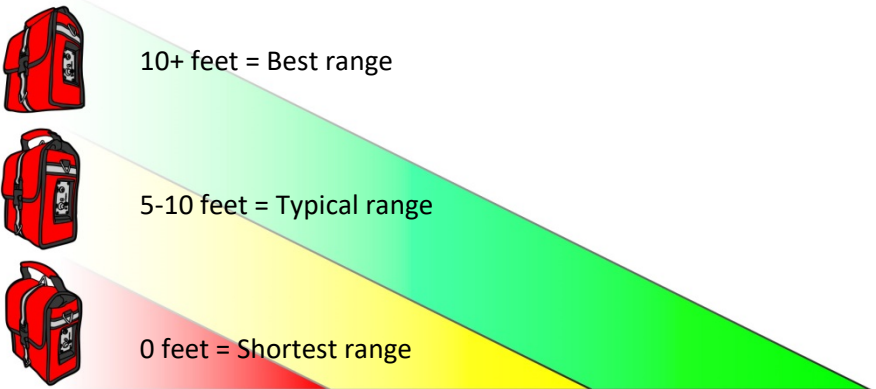
The SCH305-BT has the greatest range when placed in a specific orientation. The handle on the bag should be up when in use. Refer to the orientation stickers on the ComHub for details.

Stickers on the sides of the case help you position the ComHub for best reception.



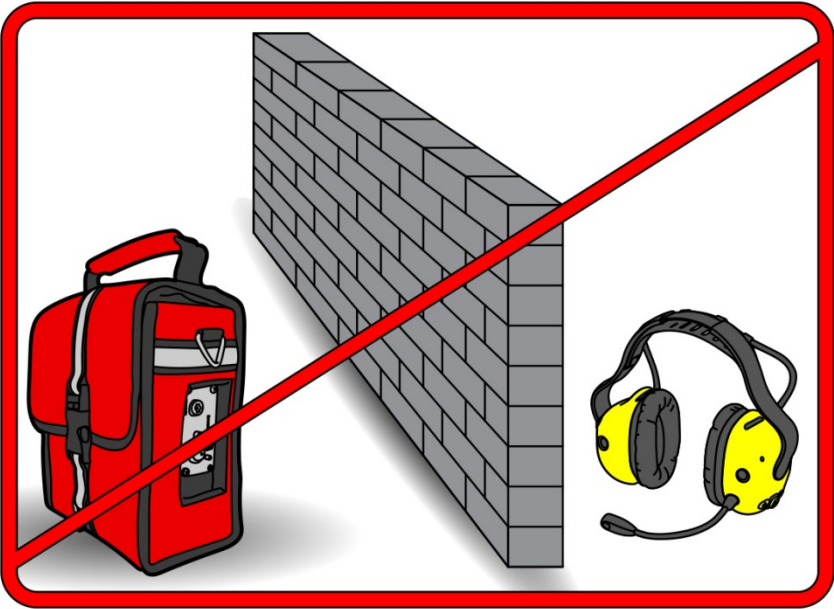
Height

The higher you can safely place the SCH305-BT (or its external antenna if equipped), the better its range. Range can be up to 10 times greater with the ComHub or antenna 10 feet high than with it on the ground.



Line of Sight

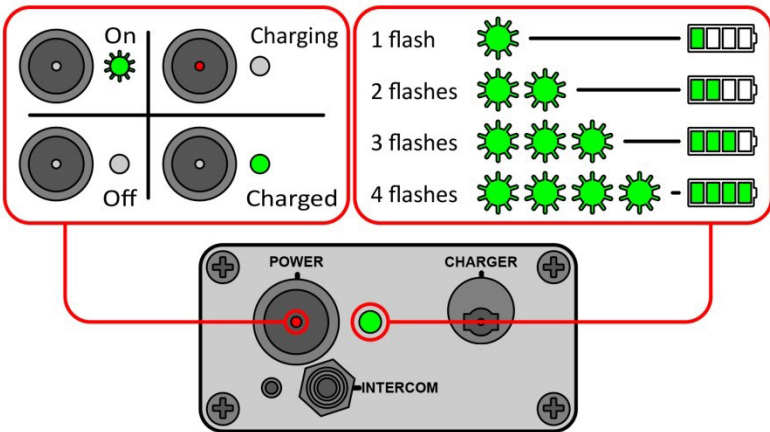
If you can see the ComHub when wearing your DECT7 Headset, you will experience better reception. When you lose sight of your ComHub, your reception may be reduced depending on your environment. Walls, trucks, or other solid objects may degrade reception. Some objects such as chain link fence may impact reception even though they can be seen through.



Charging

The SCH305-BT charges through a connector on the outside control panel. There are two LEDs on its control panel to indicate its status.

- Red LED on the Power Button – This lights when the ComHub is actively charging.
- Green LED next to the Power Button – This lights steady when the ComHub is fully charged. When the ComHub is turned on, this LED flashes to indicate the battery charge level. See the diagram below for details.



ComHub Controls

- **Bluetooth (Fig. 3)** - Bluetooth LED and Bluetooth Reset Button
- **Power Button** – Turns the ComHub off and on.
- **Charge LED** – Indicates when the ComHub is actively charging.
- **Status LED** – Indicates when the charge cycle is complete. It also indicates the battery level during use.
- **Charge Port** – Connects to an external power supply to charge the ComHub batteries.
- **PR Connector** – Used to connect a portable radio to the ComHub.
- **External Antenna Port** – Connects an accessory external antenna.
- **Tether Port (Fig. 2)** – Connects to a second SCH305-BT, SCH305 or SCH310T using the included CAT5 Crossover Cable.

Fig. 1 ComHub Control Panel

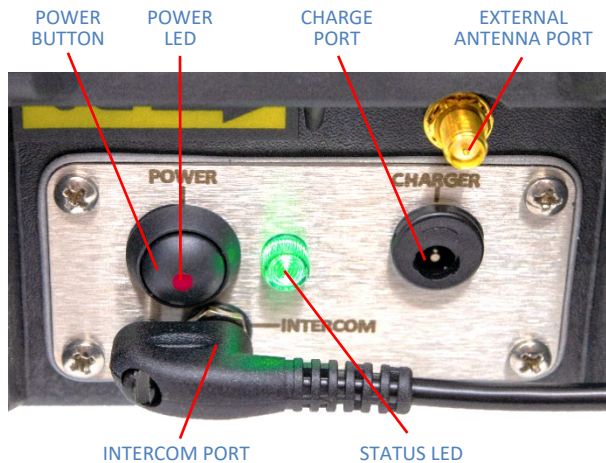


Fig. 2 Tether Port





BLUETOOTH RESET
BUTTON

Fig.3 Bluetooth Reset Button

Connecting a Portable Radio

The SCH305-BT ComHub can be connected to a variety of handheld portable radios using Portable Radio (PR) cables. For details, visit www.soneticscorp.com/accessories/portable-radio-adapters/

Installing a PR Cable

- Once you have selected the correct PR Cable for your application, attach the end that looks like the image above.
- Use your Sonetics screwdriver to tighten the screw on the connector to the ComHub. *CAUTION:* Overtightening can damage the connector.
- Connect the other end of the PR Cable to your radio.

Adjusting the Gain Controls



Setting Output Gain

1. Set the volume on your radio to between 50 and 75% of maximum volume.
2. Set the volume on your headset to its most commonly used level.
3. Using a #0 Phillips screwdriver, turn the Output Gain Controller to its lowest setting (counter-clockwise until it stops).
4. While activating radio transmit and speaking into the headset mic (get a helper if necessary), VERY slowly turn the Output Gain Adjuster clockwise until the volume heard on the radio is at the desired level.
5. **DO NOT** turn up the Output Gain Controller too quickly. Adjusting the gains too high will result in poor sound quality, and could cause your radio to shut down.

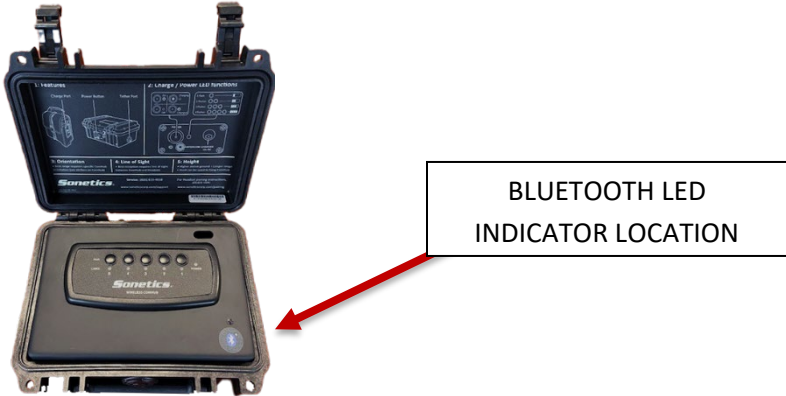
Setting Input Gain

1. Set the volume on your radio to between 50 and 75% of maximum volume.
2. Set the volume on your headset to its most commonly used level.
3. Using a #0 Phillips screwdriver, turn the Input Gain Controller to its lowest setting (counter-clockwise until it stops).
4. While activating radio transmit and speaking into the radio (get a helper if necessary), VERY slowly turn the Input Gain Adjuster clockwise until the volume heard on the headset is at the desired level.
5. **DO NOT** turn up the Input Gain Controller too quickly. Adjusting the gains too high will result in poor sound quality.

Bluetooth Pairing

Bluetooth LED Indicators

- **Flashing RED & BLUE LED:** Looking for pairing
- **Blinking BLUE LED:** Bluetooth pairing successful
- **Flashing RED LED:** Audio transmitting



Bluetooth Reset Button

The Bluetooth RESET for the SCH305-BT is located on the Bluetooth module located in the lower RIGHT corner inside the lid of the ComHub. Use this button if you need the SCH305-BT to “forget” a Bluetooth pairing.

To Reset the Bluetooth Pairing

- 1) Make sure all devices previously paired to the SCH305-BT are turned off.
- 2) Gently remove the Black tray surrounding the base station.
- 3) In the Lower RIGHT corner of the ComHub is the Bluetooth module. Press and HOLD the center of the Bluetooth module for 5 seconds, then release.
- 4) This will RESET the Bluetooth pairings on your ComHub.
- 5) Follow the Bluetooth pairing steps in the section below “How to Pair Your Device to the SCH305-BT ComHub Via Bluetooth”.



BLUETOOTH MODULE AND
RESET BUTTON LOCATION

How to Pair Your Device to the SCH305-BT ComHub Via Bluetooth

Devices you can pair include: cell phones, tablets, and laptops

1. With the lid of the SCH305-BT open and the SCH305-BT powered ON, you will see a LED light in the lower RIGHT corner of the ComHub which will blink RED and BLUE quickly. This indicates Bluetooth mode is ON.
2. With your user device (cell phone, tablet, or laptop) ON, look for: **"SCH305-BT"** (this is the SCH305-BT device name). Select the **"SCH305-BT"** to start pairing.
3. The BLUE LED light in the lower RIGHT corner will blink BLUE when devices are successfully paired.

Bluetooth Pairing Tips

- If pairing is unsuccessful, repeat the steps again.
- If your ComHub has been on for a while previously and pairing is not successful, simply power cycle your SCH305-BT.
- When using FaceTime, you must also change the speaker output to **"SCH305-BT"** on the user device paired to the SCH305-BT.

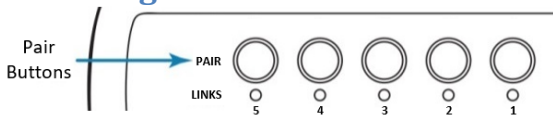
- If multiple SCH305-BT ComHubs are close to each other, we recommend having one SCH305-BT ComHub powered ON at a time when doing the Bluetooth pairing. Once the first Bluetooth pairing is complete on the first SCH305-BT, then power ON the next SCH305-BT to pair a Bluetooth device to the second ComHub.

NOTE: Bluetooth in portable two-way radios is not currently supported.

Pairing Headsets

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

Full-Duplex Pairing

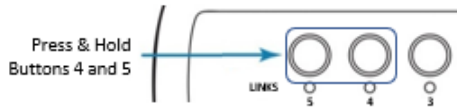


1. Press and hold the desired pairing button until its link indicator begins to flash slowly. Any previous pairing will be forgotten.
2. With the headset powered OFF, place the Sonetics headset into pairing mode by pressing the right PTT button and the power button until you hear "base station registering".
3. The Base Station will automatically connect, showing a solid link LED.
4. If the pairing was unsuccessful, repeat all steps above.
5. Pair on any additional wireless headsets to remaining open positions.

Broadcast Mode Pairing

Broadcast Mode allows 100 devices to be paired. A full duplex pairing must be present to activate Broadcast only. Broadcast users can't Radio Transmit.

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 their link LEDs 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 connected (refer to the Sonetics device manual).
4. If the pairing was unsuccessful, repeat steps 1-3.
5. To pair additional devices, repeat steps 1-4.

Because Broadcast Mode Headsets share communication positions, there can be slight delays in communication. To talk, the Push-To-Talk button on the headset 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 Mode

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

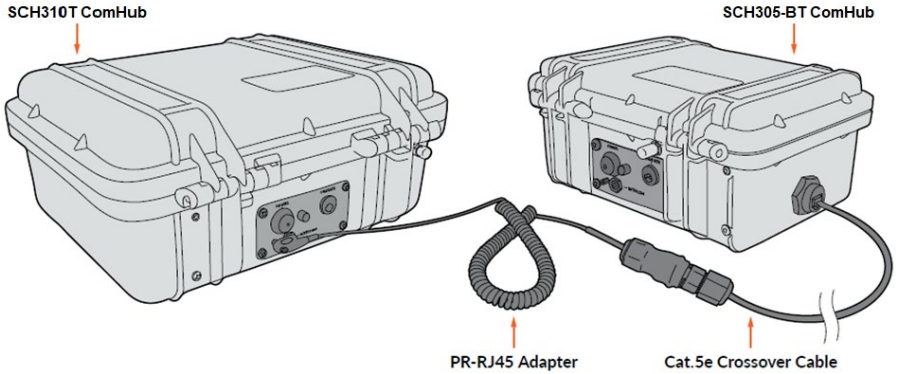
Note: For information on how to pair an Apex Connect, please go to the Apex Connect Manual at: sonetics.com/support/connect-support

Tethering ComHubs

Important Note

When using the SCH305-BT for tethering two ComHubs together (regardless of the model), users need to enable Channel Mode. Users will have to switch between channels to select either the tethered users OR the device paired to the SCH305-BT. Tethering capability and the Bluetooth function cannot be used at the same time.

SCH305-BT to SCH310T



Parts needed:

- (1) Cat.5e Crossover Cable*, any length
- (1) PR-RJ45 Adapter

Setup:

1. Attach a PR-RJ45 Adapter to a Cat.5e Crossover Cable using the instructions included with the PR-RJ45 Adapter.
2. Connect the PR-RJ45 Adapter to the SCH310T ComHub as per the PR-RJ45 Adapter instructions.
3. Connect the free end of the Cat.5e Crossover Cable to the SCH305-BT ComHub.

Putting the SCH305-BT into Channel Mode for Tethering Capability

- 1) See the “DECT Channel Mode Operation” section to put your SCH305-BT into Channel Mode. Follow the “Configuring for Channel Selection” steps.

- 2) When you are selecting the “Number of Available Channels”, select the “2” pairing button, to select 2 channel mode.
- 3) To exit this configuration mode, power off the SCH305-BT, then power it on.

Switching Between the Channels

- 1) See the “Headset Verification of Available DECT Channels” section for how to select between the different channels.
- 2) Channel 1 will be where you can hear and talk to the user device paired to the SCH305-BT ComHub.
- 3) Channel 2 will be where you can hear and talk to the users on the ComHub tethered to the SCH305-BT ComHub.

SCH305-BT to SCH305 or SCH305-BT

Parts needed:

- (1) Cat.5e Crossover Cable*, any length

Setup:

Connect each end of a Cat.5e Crossover Cable directly to an SCH305-BT or SCH305 ComHub using each device’s Tether Port.

***Please note:** the Cat.5e Crossover Cable is a specialized cable. Must use a "crossover" cable. A standard Cat.5e cable will not work for this application.

IMPORTANT NOTES ABOUT TETHERING

A minimum of seven (7) feet of separation between the two ComHubs is recommended.

When ComHubs are tethered, portable radio push-to-talk functionality is altered: For example:

- With two SCH305-BT ComHubs tethered together, only one portable radio may be connected to one of the two ComHubs, for successful radio push to talk communication.

- With an SCH305-BT ComHub tethered to a SCH310T ComHub, a portable radio can only be interfaced to the SCH305 (not the SCH310T). Users paired to the SCH305-BT ComHub can hear and transmit over the radio using the Push-to-Talk Button on their headsets. The users paired to the SCH310T ComHub will be able to talk in full duplex mode with users from both ComHubs and hear the portable radio communication, however they **will not** be able to push-to-talk over the connected portable radio.

Connecting an External Antenna



Fig. 1: Removal of faceplate.



Fig. 2: Internal antenna connection.



Fig. 3: External antenna connection.

Follow these steps to connect an accessory external antenna (*not included*):

- 1) Remove the ComHub from the red carry bag.
- 2) Open the lid by releasing the two underside latches.
- 3) Remove the faceplate around the base station by gently pulling on each corner (*Fig. 1*).
- 4) Disconnect the Duck Antenna from the Base Station. Place the Duck Antenna in the side pouch of the red carry bag.
- 5) Attach the gold coaxial connector to the antenna port on the base station (*Fig. 2*).
- 6) Remove the black plastic cover, just above the “Charger” port. Connect the external antenna’s coaxial cable to the gold connector located on the outside of the ComHub (*Fig. 3*).

DECT Channel Mode Operation

When used in this configuration, up to 5 channels are available.

Configuring for Channel Selection (ComHub Mode)

To enter configuration mode:

1. Power off the ComHub.
2. While holding the Position 3 pairing button, power on the ComHub.
3. Continue holding the Position 3 pairing button for 10 seconds.
4. The Base Station is now ready to select the number of DECT channels.

Selecting the Number of Available Channels

5. Press the pair button corresponding to the number of channels desired (button 2 = 2 channels, etc.).
6. To exit configuration mode, power off the ComHub and then power it on.

Headset Verification of Available DECT Channels

Before you begin using channels, verify that you have the expected number of available DECT channels by cycling through channels using the Wireless Headset:

1. Turn on your APX377 or APX379 Wireless Headset.
2. Allow the Headset to pair with the ComHub or Base Station.
3. Press the forward ► and back ◀ buttons together to toggle DECT Channel Selection. A voice prompt announces “Channel”.
4. Press the forward ► or back ◀ button on the right-hand side of the Headset. Voice prompts announce “Channel 1”, “Channel 2”, and so on.
5. If you are unable to access the expected number of DECT channels, repeat Steps 1-6 in “Configuring and Selecting...” above.

Using Bluetooth and DECT Channel Mode

When you have a device paired via Bluetooth to the SCH305-BT and DECT Channel Mode selected (any number of channels up to 5), you can only hear and communicate with the Bluetooth device when on “Channel 1”. Note: The device paired via Bluetooth cannot be heard by users on any other channel, other than “Channel 1.”

PC Programming

The Wireless Base Station in your ComHub has a USB port located near the Antenna Jack. Using the Sonetics Configurator program, you can adjust additional features using a Windows PC, or perform firmware updates when necessary. Refer to the program for additional information.

Locating the USB Port



(Left) The USB port is located in the center of the side wall of the base station, just below the Sonetics logo.

(Below) To access the USB port, remove the tray from the case by lifting up at the edges to release the hook-and-loop fasteners.



Installation of the Sonetics Configurator Windows Program

1. Go to www.SoneticsCorp.com/software.
2. Download and install the Sonetics Configuration Utility program to update the firmware on the wireless base station.
3. Plug in the USB cable from the Wireless Base Station to the computer. The Base Station will power up.
4. Open the Sonetics program.
5. Follow the directions of the Sonetics program.

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:

Phone: (877) 685-4838

service@soneticscorp.com

No indication of power to the base station

1. Make sure that the Wireless Base Station cable is fully plugged in.

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

1. Make sure the Wireless Headset(s) are on, paired, connected, and are using the same channel.
2. Ensure that the communication cable is properly connected.
3. Check the communication cable for continuity.
4. Ensure correct polarity of the modular plug on both ends of the modular cable.

Bluetooth device did not successfully pair.

1. Make sure all devices with Bluetooth are turned OFF. This ensures another Bluetooth device does not mistakenly pair to the SCH305-BT.
2. Power cycle the SCH305-BT and retry the steps in section "How to Pair Your Device to the SCH305-BT ComHub via Bluetooth".

Poor quality audio, low or distorted audio.

1. Check the ComHub gain settings (see "Adjusting the Gain Controls" above).
2. Poor audio quality can also be caused by a defective Headset. Check operation with a known, properly functioning Headset.

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 Sonetics Service for additional help.

SCH305-BT ComHub Specifications

Physical

Length: 8.2 in
Width: 6.1 in
Height: 3.9 in
Weight: 2.80 lbs

Power

Voltage Input: 5 VDC to 16 VDC
Max. Current Input: 1.2A @ 12V

Environmental

IP-Rating: IP-67
Operating temp: -22°F to 140°F / -30°C to 60°C
Storage temp: -40°F to 140°F / -40°C to 60°C

SON150 Base Station Specifications

FCC

FCC ID: V9N950325700V1
FCC Part 15: All Models

Industry Canada

IC UPN: 7895A-950325700

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 9001:2015

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 64-bit audio stream encryption
Audio Bandwidth:	300Hz to 3.4 kHz, Narrow Band, G.726 compression 50Hz 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:	4mW
Maximum Output Power:	100mW
Range (line of sight):	1,600 feet maximum

Bluetooth Specifications

Bluetooth 4.0

- Effective transmission distance: 10-15m minimum TSA 6015
- HFP V1.6
- HSP V1.2
- A2DP V1.2
- AVRCP v1.4
- Support for smartphone application (APPs)

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 user's 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 in the Base Station in this device 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.

The radio transmitter in this device 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:

- SON150 Wireless Base Station Antenna Sonetics P/N: 521-0014-00 (3dBi)
- Magnet Vehicle Mount Sonetics P/N: 114-0139-00 (4.4dBi) (Sold Separately)
- Permanent Mount Antenna, Sonetics P/N: 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 Base Station in 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.

The Base Station in 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

- The Base Station in 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, the radio transmitter in the Base Station in this device 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.

The radio transmitter in the Base Station in this device 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)

Sonetics Standard Limited Warranty

Sonetics Corporation (“Sonetics”) 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 **one (1) year** from date of purchase.

Sonetics Corporation 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 Sonetics Corporation or Sonetics Authorized Service Center.
3. All returned products must be shipped to our address, freight prepaid and Sonetics 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-Sonetics products; (d) to damage caused by operating the product outside the permitted or intended uses or environments described by Sonetics; (e) to damage caused by service performed by anyone who is not a representative of Sonetics or an Sonetics Authorized Service Provider; (f) to a product or part that has been modified without the written permission of Sonetics; (g) if any Sonetics 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 ONE YEAR FROM DATE OF PURCHASE. NO SUIT FOR BREACH OF EXPRESS OR IMPLIED WARRANTY MAY BE BROUGHT AFTER ONE (1) YEAR FROM DATE OF PURCHASE.

Subject to the terms and limitations of this Sonetics Standard Limited Warranty, this warranty covers any new covered product found to be defective within the applicable warranty period. Sonetics reserves the right to examine the alleged defective covered product to determine whether this Sonetics Standard Limited Warranty is applicable, and final determination of warranty coverage lies solely with Sonetics. If Sonetics determines that warranty coverage applies, Sonetics reserves the right to either repair or replace a covered product or any part thereof, as determined by Sonetics 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 Sonetics Standard Limited Warranty shall automatically terminate.

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