

SON124 Wireless Portable Weatherproof ComHub™ User's Guide



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Specifications

Electrical:

Battery2200 mAHr rechargeable Nickel Metal Hydride
 Battery Life.....20 hours
 Charge Source.....12V NiMH Charger
 Charge Time.....4.4 hours from fully depleted battery

Mechanical:

Dimensions: 8.2"L x 6.1"W x 3.4"H
 Weight (w/bag): 3.3lb (1.5kg)

Environmental:

Operating temperature -40°F to 158°F (-40°C to 70°C)
 Storage temperature -40°F to 158°F (-40°C to 70°C)
 Charging Temperature 14°F to 95°F (-10°C to 35°C)
 Meets SAE standards J1455
 Chemical resistance, corrosion, and humidity per MIL-STD-810F & 810G

RF:

Range: 1600' Line-of-sight
 Secured digitally encoded interference-free communications.
 Maximum Number of Users: 60 headsets operating in close proximity.

FCC/IC Compliance:

This device complies with FCC Part 15 Rules and IC RSS-213 Rules. Operation of this device is subject to the following two conditions:

1. This device may not cause harmful interference.
2. This device must accept any interference that may be received, including interference that may cause undesired operation.

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 requirements, the base unit must be installed and operated 20 cm (8 inches) or more between the product and any person's body (excluding extremities of hands, wrist and feet).

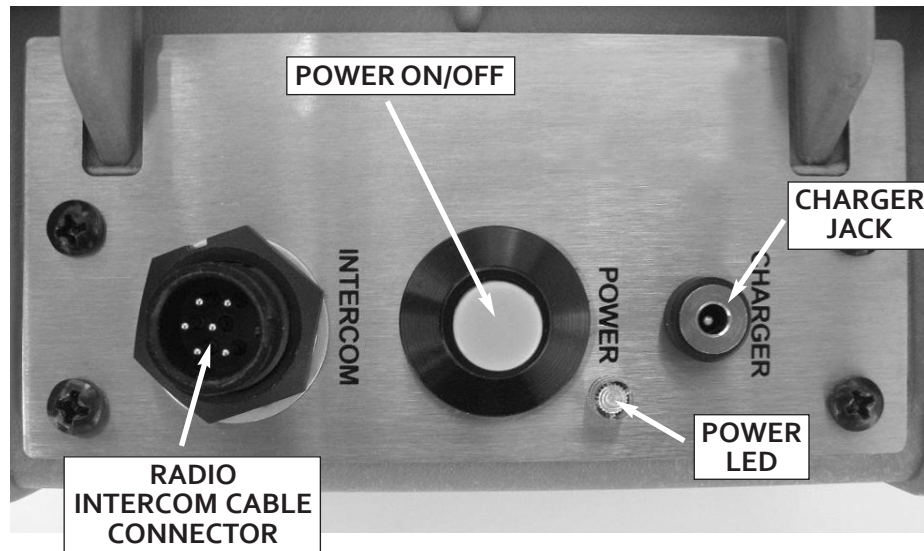
This product may not be collocated or operated in conjunction with any other antenna or transmitter.

Overview

This manual describes the configuration and use of the Wireless Portable Weather-proof ComHub. When used with Sonetics Wireless Headsets, the ComHub provides secure, interference-free communications.



ComHub™ Exterior Control Panel & Connections



Troubleshooting

When properly located, installed, and powered, the Wireless ComHub will perform reliably with no anticipated problems.

Note: If the symptoms you are experiencing are not covered in this manual, or if you are having difficulty troubleshooting your system, contact your local Sonetics dealer for assistance or see www.soneticscorp.com for additional information.

No indication of power to the Base Station (green power indicator does not illuminate):

- Check wiring to the ComHub.
- Low battery. Charge ComHub battery fully.

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

- Ensure that power is turned on to the wireless Headset(s) and that the Headset(s) are paired.
- Ensure that the modular communication cable is connected between the Radio and ComHub.

Poor quality audio; low or distorted received or transmitted audio:

- Poor quality audio can be caused by a defective Headset. Check operation with a known, well-functioning Headset to determine whether the problem is attributed to the ComHub.

Audible interference from portable and mobile radios:

- The wireless system is tested and proven to be immune to interferences from portable and mobile communication equipment operated in the frequency spectrum from 30MHz to 18GHz.

Poor coverage range:

- Check the location of the ComHub to insure there are no metal obstacles (carts, etc.) between the ComHub and the users. The ComHub should never be installed inside metal enclosures. Maximum range is 1600ft.
- Poor range may be caused by a defective Headset. Check operation with a known, well-functioning Headset to determine whether the problem is attributed to the ComHub or the Headset.

Connecting the ComHub™ to a Radio:

To connect the ComHub to a Radio, use the CR-MR adapter (not included) and follow the instructions below

Radio Comm. Cable Plug; Installation



Radio Comm. Cable Plug; Removal



To install the Radio Comm. cable:

Line up the plug sockets with the Intercom connector pins and the keyway, then push the plug into the Intercom connector. To lock, turn the wing-lock clockwise.

To remove the Radio Comm. cable:

Unlock the wing-lock by turning counter-clockwise, then pull the plug out of the Intercom connector.

An optional padded fabric bag with a coated hanger hook is available to minimize the possibility of damage to the ComHub.

Radio Installations

Contact: sales@soneticscorp.com or call 800-527-0555

Warranty

See addendum for full warranty details.

Operating the Wireless ComHub™

Before using the ComHub for the first time, make sure the ComHub is fully charged. ComHubs have a Charger Jack on the right-hand side of the unit. A NiMH battery charger is supplied for charging the ComHub which plugs into the 110V/60Hz power. When the charger is first plugged into the wall outlet, the charger LED will flash red & green and then change to solid red during the charging cycle. When the ComHub battery is fully charged, the LED will remain green. Charging takes about 4.4 hours for the ComHub.



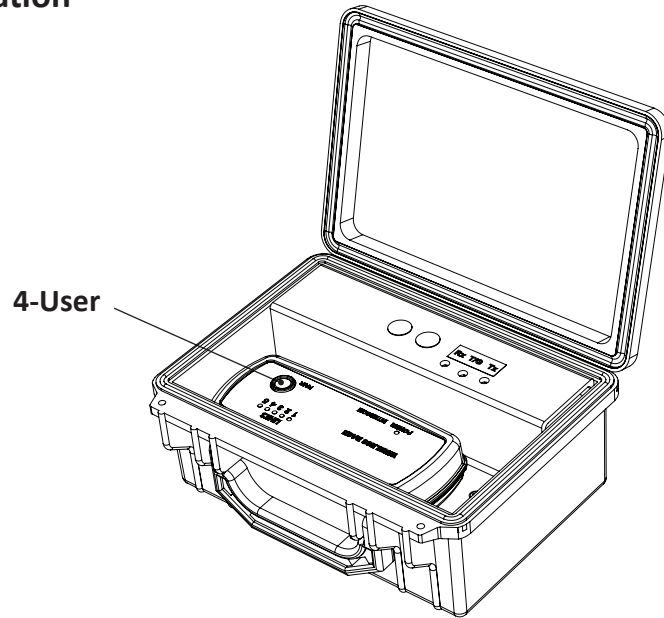
To turn the ComHub on, press the Yellow Power Button and the Power LED will light up (see ComHub Exterior Control Panel & Connections).

Headset Pairing

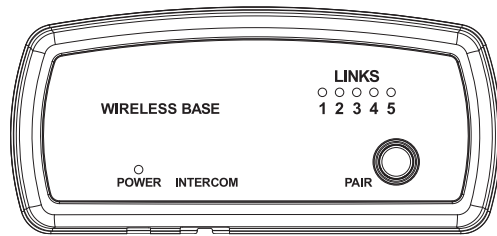
The Headset is designed to “remember” the ComHub to which it has been paired. If additional Headsets are paired to a ComHub while the existing Headsets are turned off, the Headsets turned off will become “unpaired.” In rare instances, it may be necessary to reestablish pairing with the ComHub.

The system is a modular design incorporating one wireless base unit in the ComHub case. Open the ComHub case to see the 4-user base station. The pairing procedure is as follows.

Base Location



4-User Base Station: Pairing



NOTE: Five Headsets can be paired to a multiple Headset base, but only four Headsets can be connected to communicate through the Base at any given time.

The 4-User Base Station is equipped with 5 yellow LINKS LEDs on the front panel. Each LINKS LED represents a Headset position, with position #1 located at the LED on the far left. The pairing priority begins with position #1 and ends with position #5. Pairing to new Headsets is done one Headset at a time.

1. When the Base Station is first powered, the green POWER LED on the bottom left of the front panel will remain lit. All five LINKS yellow LEDs will either stay unlit, indicating that no Headset has been previously paired to that Headset slot, or will start flashing rapidly indicating that a Headset has been previously paired to that Headset slot but is not currently linked.

NOTE: If any Headsets have been previously paired to the Base Station and the intent is to keep them paired, then these Headsets must remain turned on and linked in steps 1 through 3 of this procedure. An active link to a Headset is indicated by the LINKS LED on the Base Station being steadily illuminated.

2. Press and hold the PAIR button for 7 seconds. The LINKS LED for any Headset that is currently linked to the Base Station will remain lit. LINKS LEDs for vacant slots and for occupied slots with no actively linked Headsets will start flashing slowly to indicate that the Base Station has been placed in pairing mode and these slots are available for pairing. The highest priority slot will be assigned to the Headset currently being paired. Once the Base Station is in pairing mode, the user has approximately 15 seconds to place the Headset in pairing mode.
3. Place the Headset in pairing mode (refer to the Wireless Headset manual). The red and green LEDs on the Headset will alternate rapidly to indicate that the Headset is in pairing mode.
4. After 7 seconds, the green LED on the Headset and the yellow LINKS LED on the Base Station will flash rapidly, then turn on steadily to indicate that a link has been established between the Headset and the Base. Full-duplex audio communication between the Headset and the Base Station is now enabled.

NOTE: It is only necessary to pair a Headset to a Base Station once. After that, if power is turned off to the Headset or Base Station, the pairing settings will not be lost in either the Headset or the Base, as those settings reside in memory on both devices.