



CAST

**INDUSTRIAL TEAM COMMUNICATION HEADSET
WITH LONG-RANGE MESH INTERCOM™**

USER'S GUIDE

Version 1.1.0

ENGLISH

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1. ABOUT THE CAST

1.1 Product Features



Bluetooth® 4.1



Mesh Intercom™ up to 1.1 km (0.7 mi)*



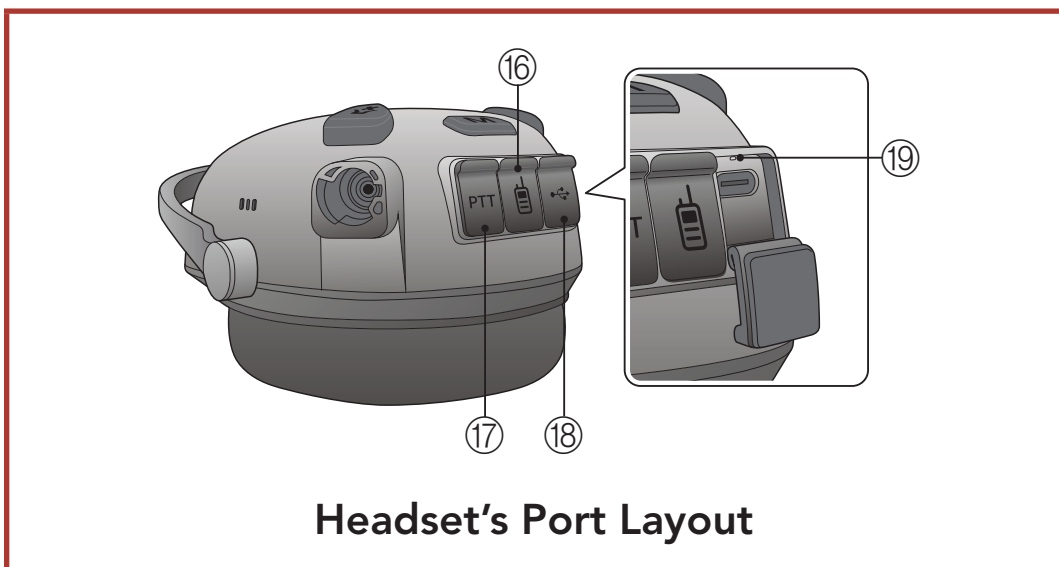
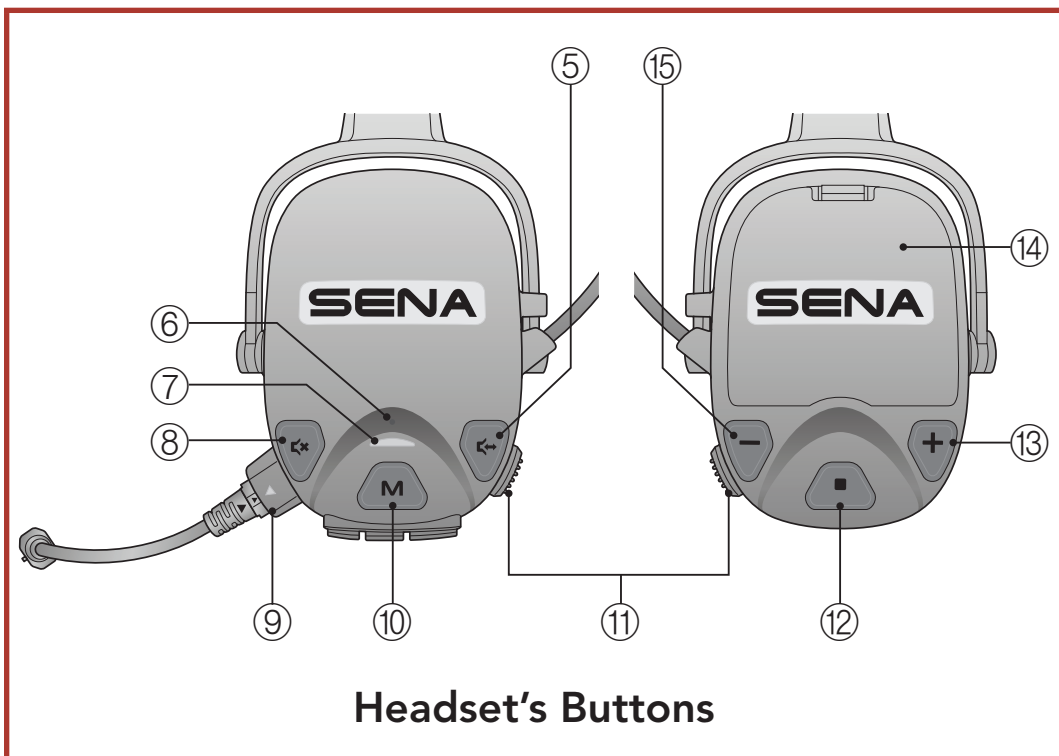
Audio Multitasking™



- Hardhat Mount Earmuff: NRR of 23 dB/SNR of 30 dB
- Over-the-head Earmuff: NRR of 28 dB/SNR of 34 dB

* in open terrain

1.2 Product Details



- ① Hardhat Adaptor A (25 mm)
- ② Headband
- ③ Right Ear Cup
- ④ Left Ear Cup
- ⑤ Ambient Button
- ⑥ Pinhole Fault Reset Button
- ⑦ Status LED
- ⑧ MIC Button
- ⑨ Microphone Port
- ⑩ Mesh Intercom Button
- ⑪ PTT Button
- ⑫ Center Button
- ⑬ (+) Button
- ⑭ Battery Cover
- ⑮ (-) Button
- ⑯ Two-way Radio Port
- ⑰ Wired PTT Button Port
- ⑱ DC Power Charging & Firmware Upgrade Port
- ⑲ Charging LED

1.3 Package Contents

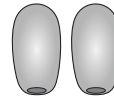
1.3.1 Over-the-Head Earmuff Type



Headset



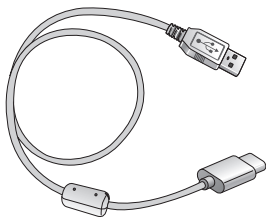
Microphone



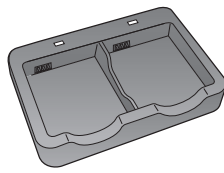
Microphone Sponges



Rubber Rings for Microphone Sponge



USB Power & Data Cable (USB-C)



Dual Battery Charger



Rechargeable Battery

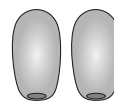
1.3.2 Hardhat Mount Earmuff Type



Headset (including the Hardhat Adaptor A (25 mm))



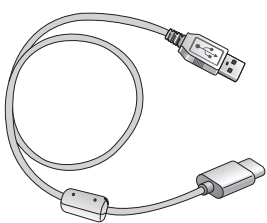
Microphone



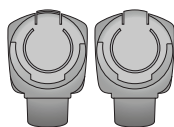
Microphone Sponges



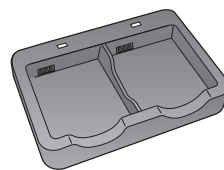
Rubber Rings for Microphone Sponge



USB Power & Data Cable (USB-C)



Hardhat Adaptor B (30 mm)



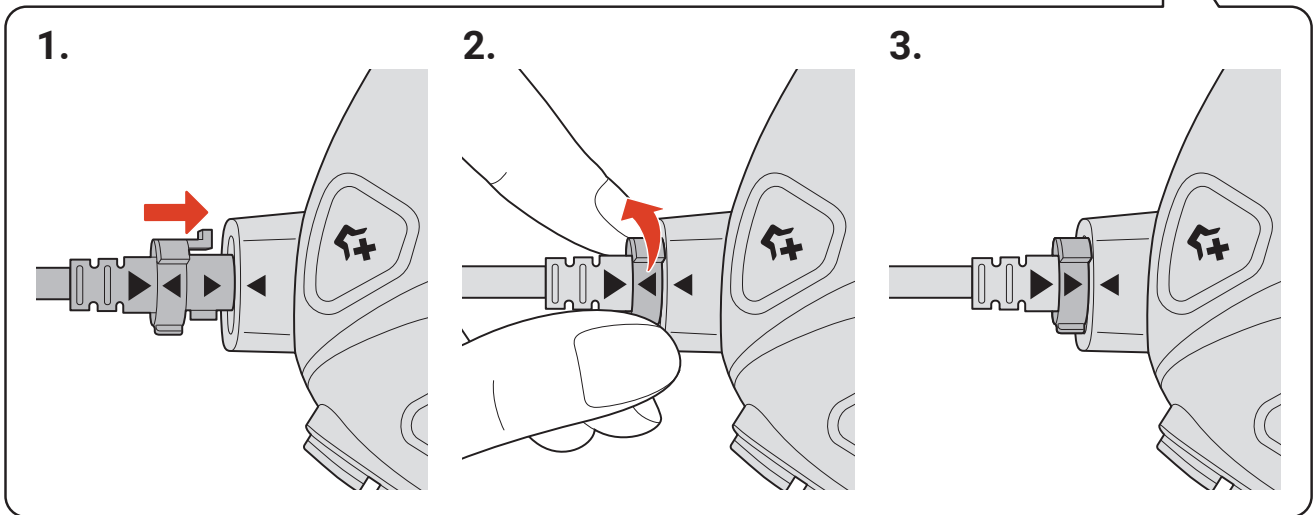
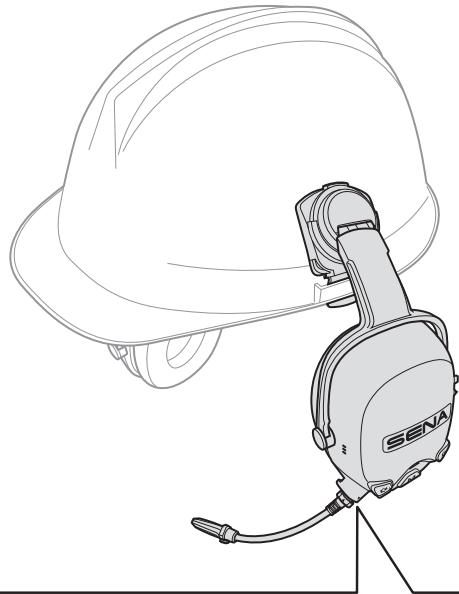
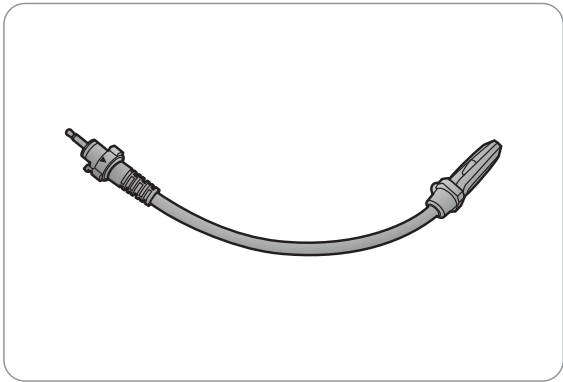
Dual Battery Charger




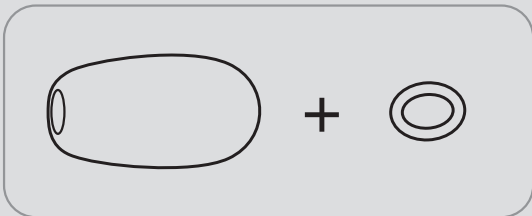
Rechargeable Battery

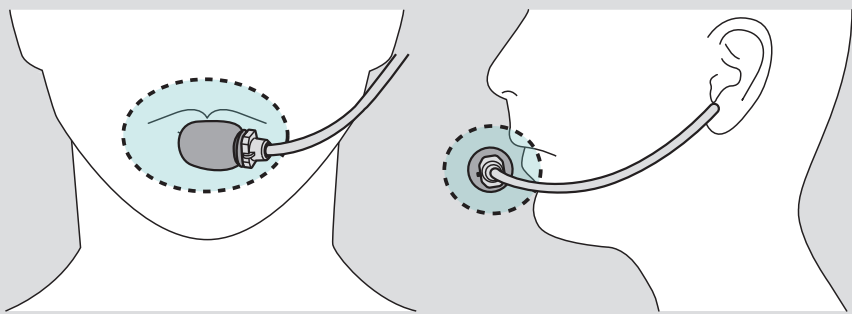
2. INSTALLATION

2.1 Microphone

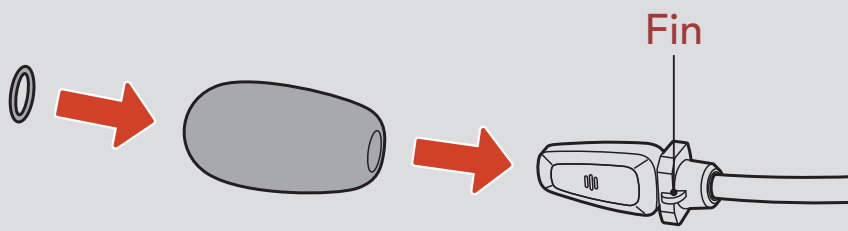




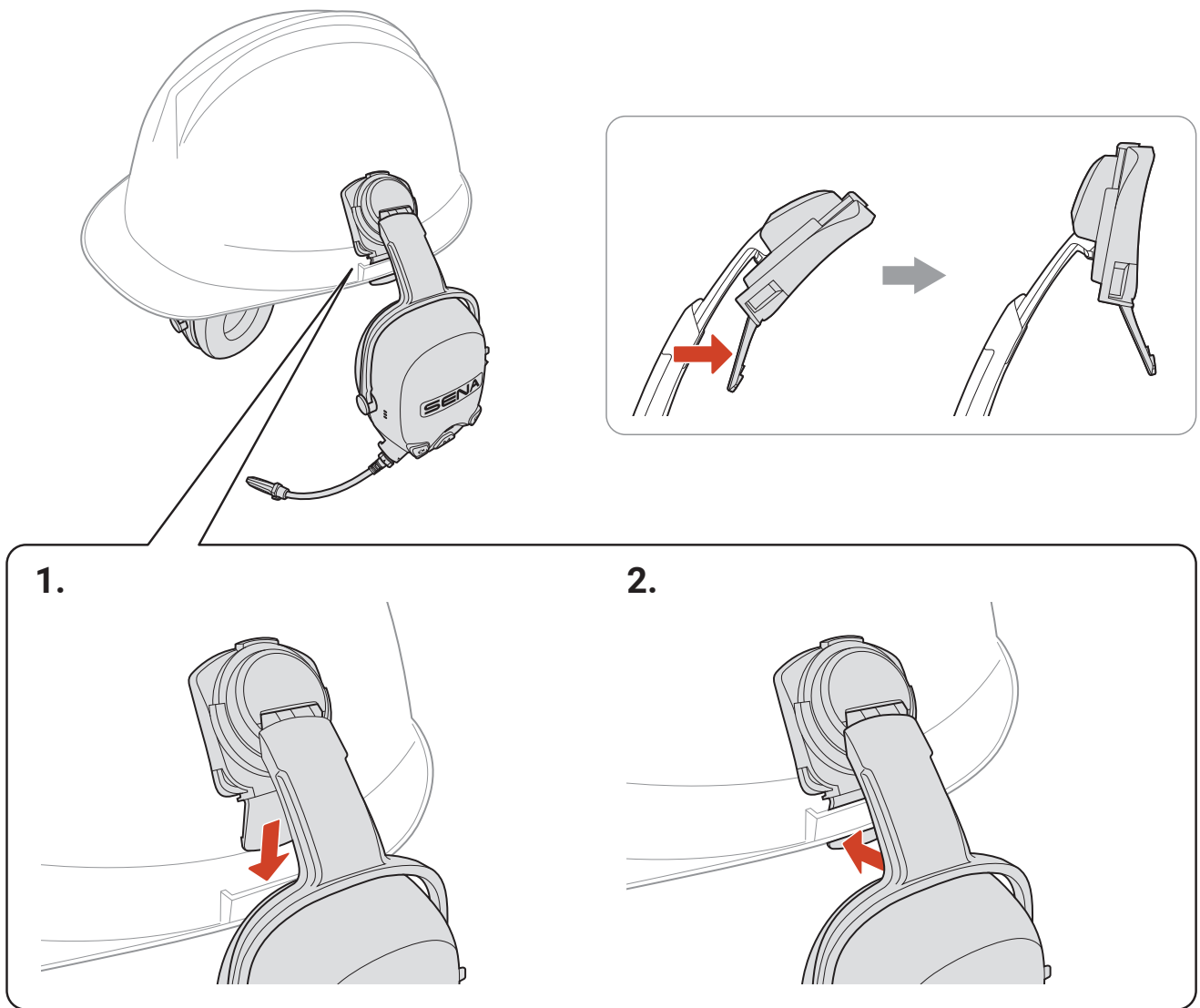




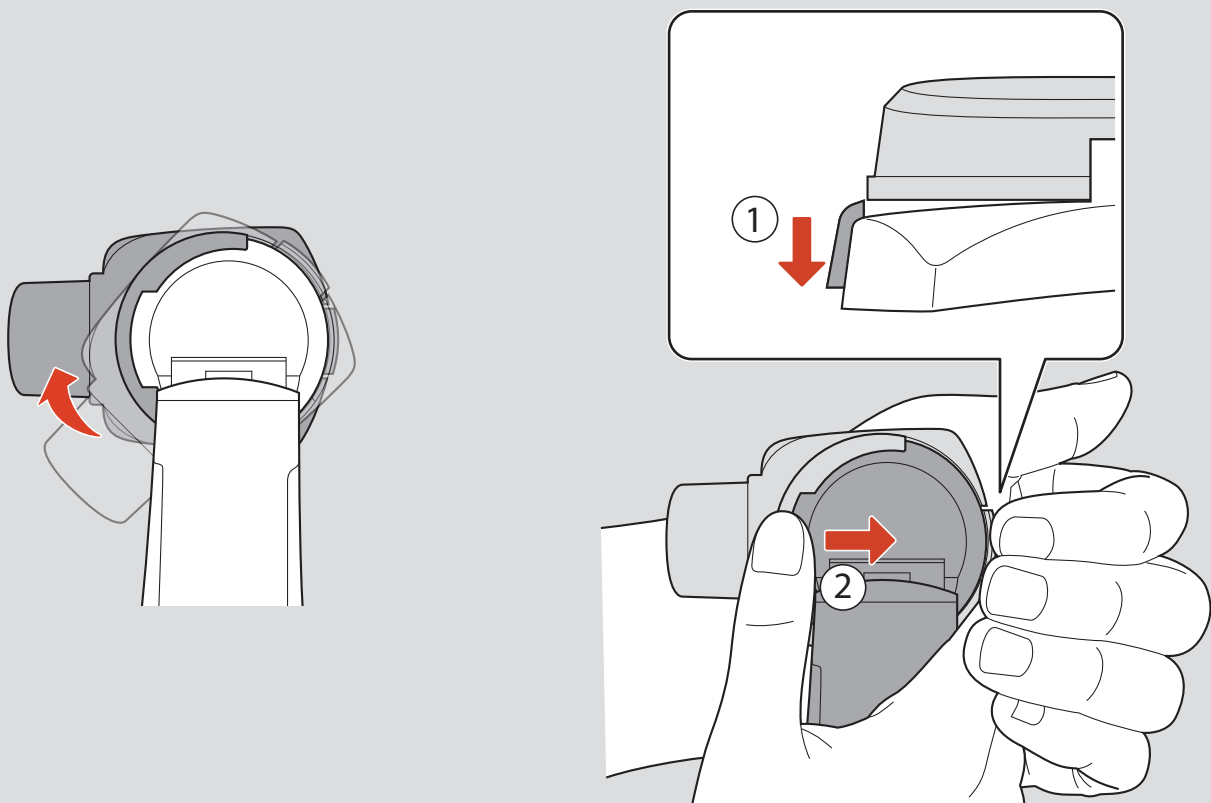
Adjust the direction of the microphone so that the **Fin** side of the microphone is facing outward, away from your lips.



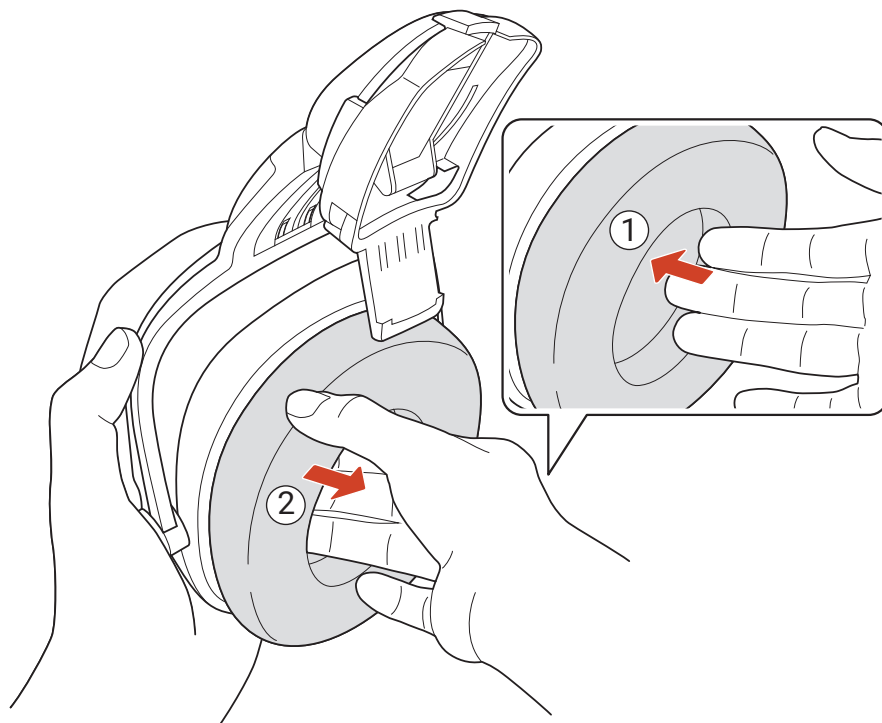
2.2 Hardhat Adaptor (Hardhat Mount Earmuff Type)



Hardhat Adaptor B (30 mm)

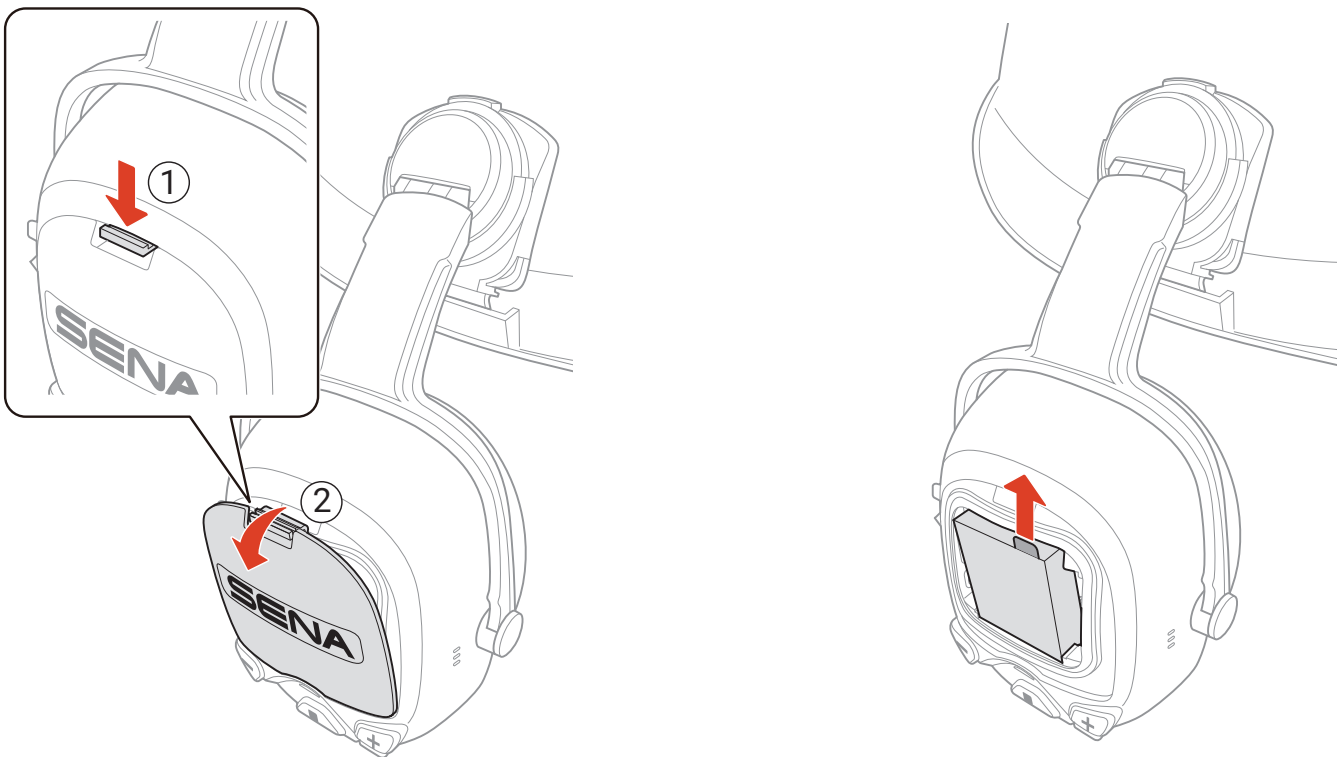


2.3 Ear Pads



* **Ear pads:** sold separately

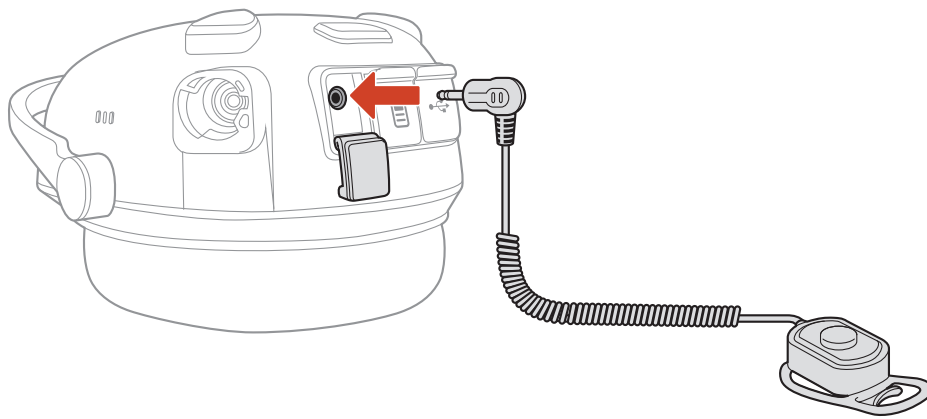
2.4 Battery



! AAA Batteries (sold separately)

- You can use three AAA batteries (sold separately) as an alternative power source.
- Performance may depend on battery manufacturers, and quality.
- Ensure to fit batteries with correct polarity.
- Do not mix battery manufacturers or old with new or rechargeable with non-rechargeable batteries.

2.5 Extension Cable for Wired PTT Button



* **Extension Cable for Wired PTT Button:** sold separately

3. GETTING STARTED

3.1 Downloadable Sena Software

3.1.1 Sena Industrial App

By simply pairing your phone with your headset, you can use the **Sena Industrial App** for quicker, easier set up and management.



- Download the **Sena Industrial App** on **Google Play Store** or **App Store**.

3.1.2 Sena Device Manager

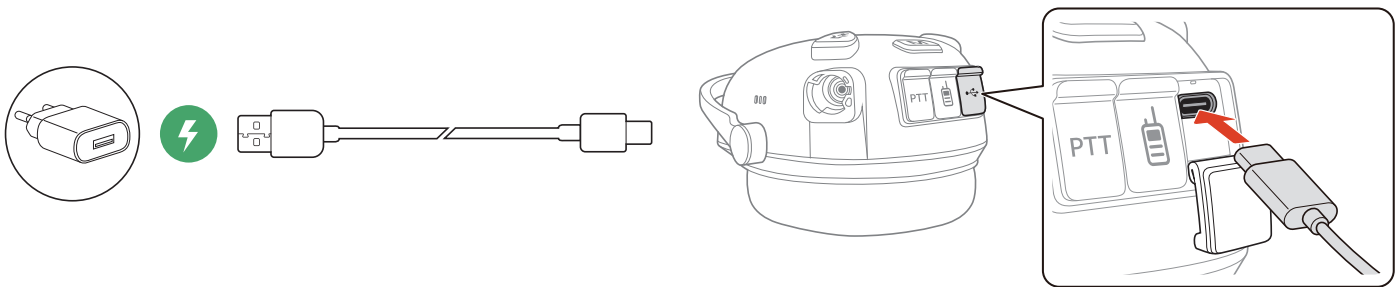
The **Sena Device Manager** allows you to upgrade firmware and configure settings directly from your PC.



- Download the **Sena Device Manager** at senaindustrial.com.

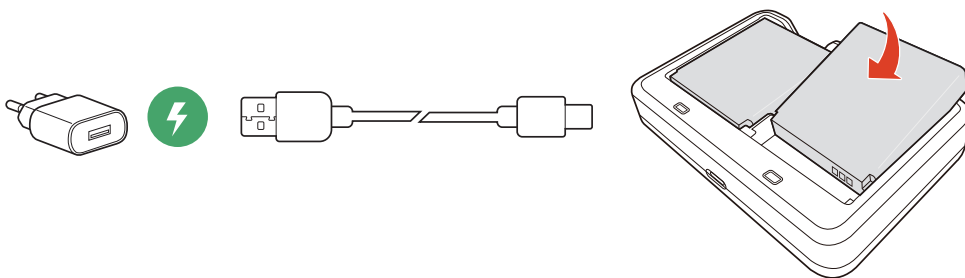
3.2 Charging

Charging the Headset



You can charge the headset by connecting a **USB Power & Data Cable (USB-C)**. The headset will be fully charged in about 2.5 hours. (The charging time may vary depending on the charging method.)

Charging the Battery



You can charge the battery by connecting a **USB Power & Data Cable (USB-C)**. The Dual Battery Charger charges one or two batteries simultaneously. The Dual Battery Charger is compatible with Sena Rechargeable Battery only. The battery will be fully charged in about 3.0 hours.

Note:

- The headset includes a **Fast Charging** feature which allows it to charge quickly over a short period of time. For example, a user can get up to 3.0 hours of Mesh communication after charging the headset for 20 minutes.
- Any 3rd party USB charger can be used with Sena products if the charger is approved by either the FCC, CE, IC, or other locally approved agencies.
- Use of a non-approved charger may cause fire, explosion, leakage, and other hazards which may also reduce the life time or performance of the battery.

3.3 Legend

 **Tap** button the specified number of times

 **Press and Hold** button for the specified amount of time

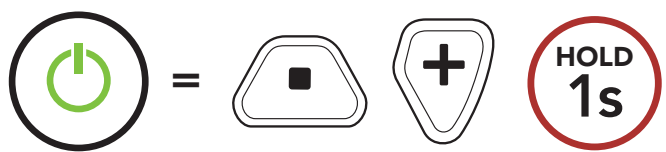


"Hello"

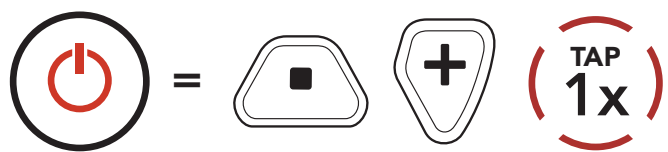
Audible prompt

3.4 Powering On and Off

Powering On



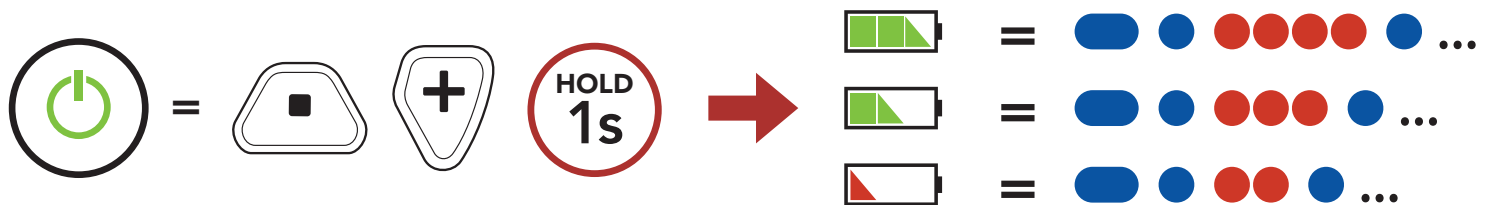
Powering Off



3.5 Checking the Battery Level

Instructions are for when powering the headset on.

Powering On



Note: When the battery is low while in use, you will hear a voice prompt saying **"Low battery."**

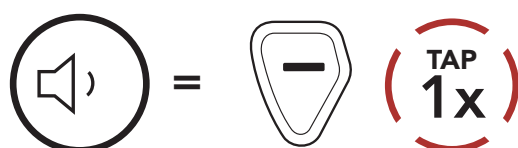
3.6 Volume Adjustment

You can raise or lower the volume by tapping the **(+) Button** or the **(-) Button**. Volume is set and maintained independently at different levels for each audio source (i.e., phone, intercom), even when the headset is rebooted.

Volume Up

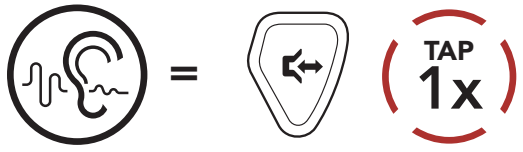


Volume Down



3.7 Ambient Mode (Default : Disable)

With the help of **Ambient Mode**, you are able to hear ambient sound even if you are wearing the headset.



Note: The **Ambient Mode** has higher priority, so you cannot listen to music, or have an intercom conversation if the **Ambient Mode** is activated.

4. PAIRING THE HEADSET WITH OTHER BLUETOOTH DEVICES

When using the headset with other Bluetooth devices for the first time, they will need to be “paired.” This enables them to recognize and communicate with one another whenever they are within range. The headset can pair with multiple Bluetooth devices such as a mobile phone or Two-Way Radio via **Phone Pairing** and **Two-way Radio Pairing**.

4.1 Phone Pairing

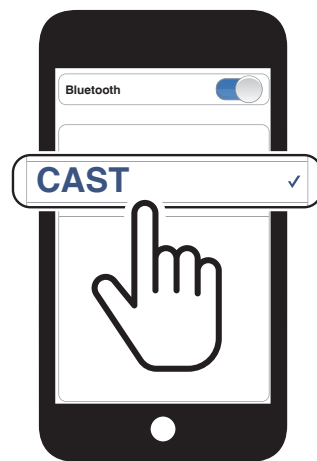
There are two ways to pair the phone.

4.1.1 Pairing When the Headset is Turned Off

1. While the headset is off, press and hold the **Center Button** and the **(+) Button** until the LED flashes red and blue alternately and you hear a voice prompt, **“Phone pairing.”**

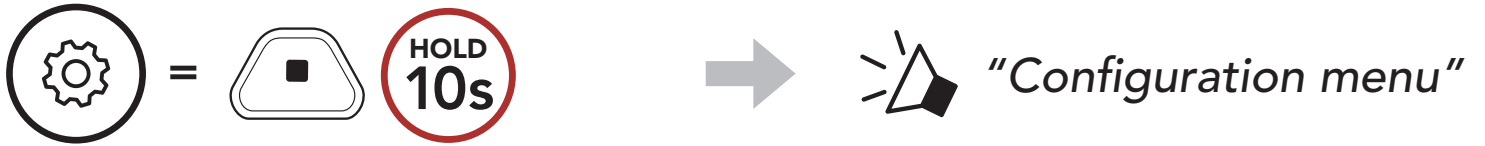


2. Select **CAST** in the list of Bluetooth devices detected.



4.1.2 Pairing When the Headset is Turned On

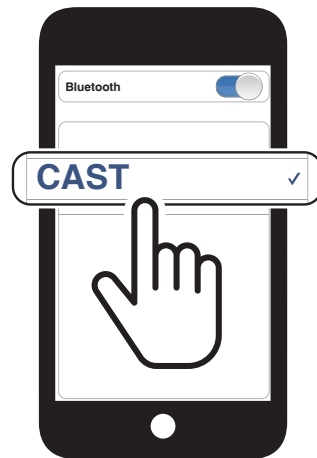
1. While the headset is on, press and hold the **Center Button** for **10 seconds**.



2. Tap the **(+) Button**.



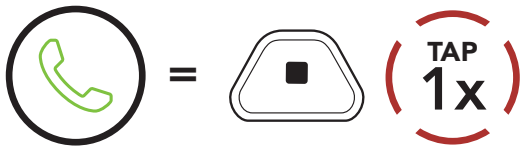
3. Select **CAST** in the list of Bluetooth devices detected.



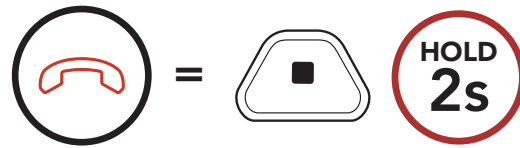
5. MOBILE PHONE USAGE

5.1 Making and Answering Calls

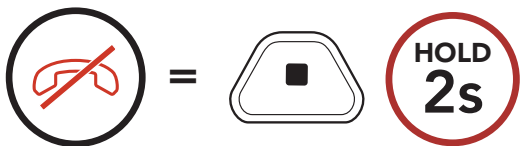
Answer a Call



End a Call



Reject a Call



Call a Voice Assistant



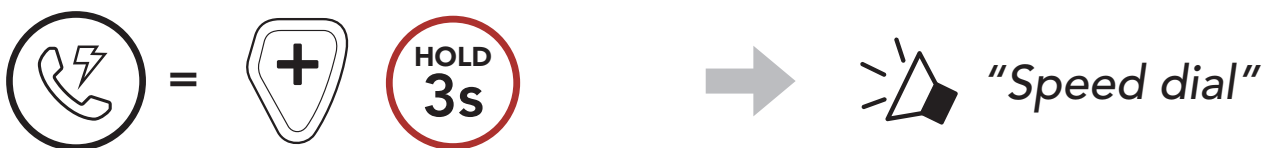
5.2 Speed Dialing

5.2.1 Assigning Speed Dial Presets

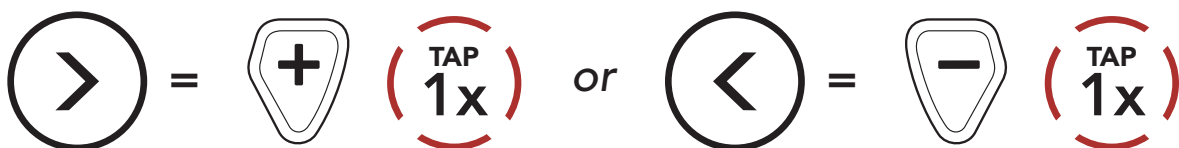
Speed Dial Presets could be assigned through the **Sena Industrial App**.

5.2.2 Using Speed Dial Presets

1. Enter into the **Speed Dial** menu.



2. Navigate forward or backward through **Speed Dial Preset** numbers.



(1) Last number redial

(2) Speed dial 1

(3) Speed dial 2

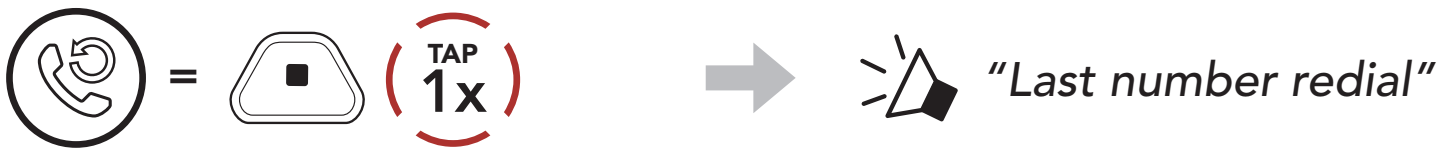
(4) Speed dial 3

(5) Cancel

3. Call one of your **Speed Dial Presets** numbers.



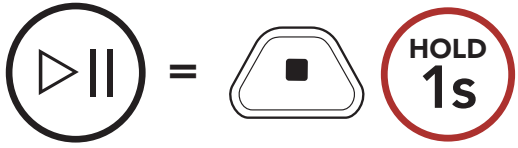
4. Redial the last number called.



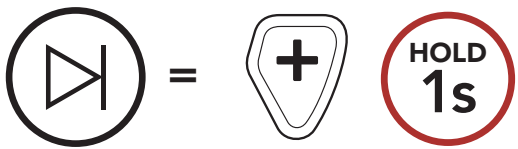
6. STEREO MUSIC

6.1 Bluetooth Stereo Music

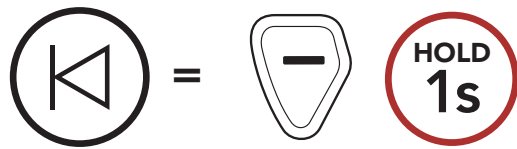
Play/Pause Music



Next Track



Previous Track



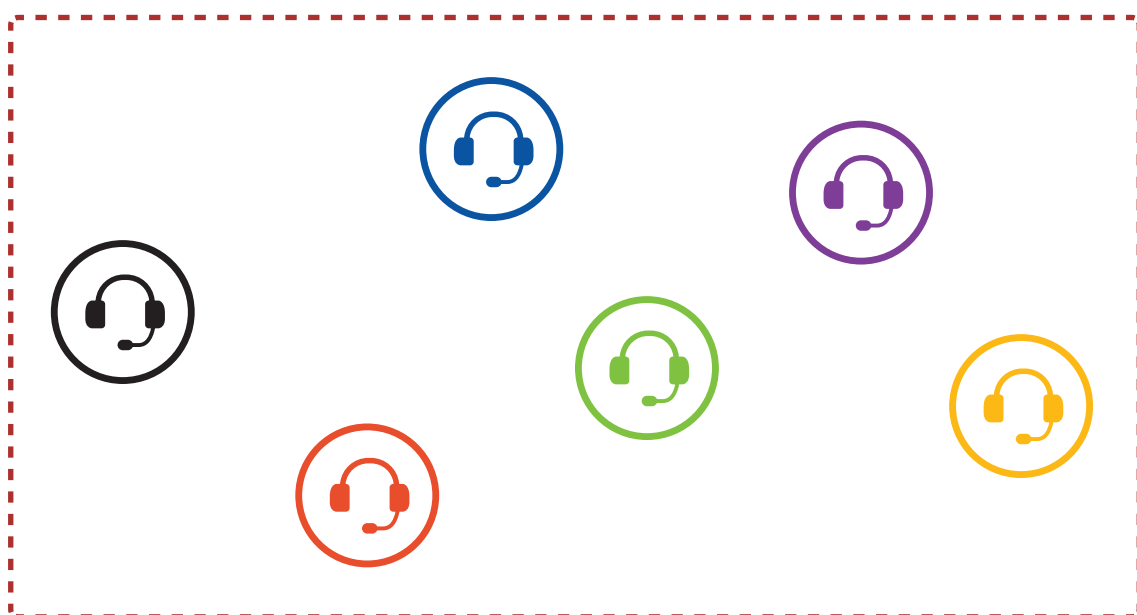
7. MESH INTERCOM

7.1 What is Mesh Intercom?

Mesh Intercom allows users to connect and communicate with nearby users without the need to pair each headset together.

The working distance between each **CAST** in **Mesh Intercom** can be up to 1.1 km (0.7 miles) in open terrain. In open terrain, the **Mesh** can be extended up to 4.4 km (2.8 miles) between a minimum of 6 users.

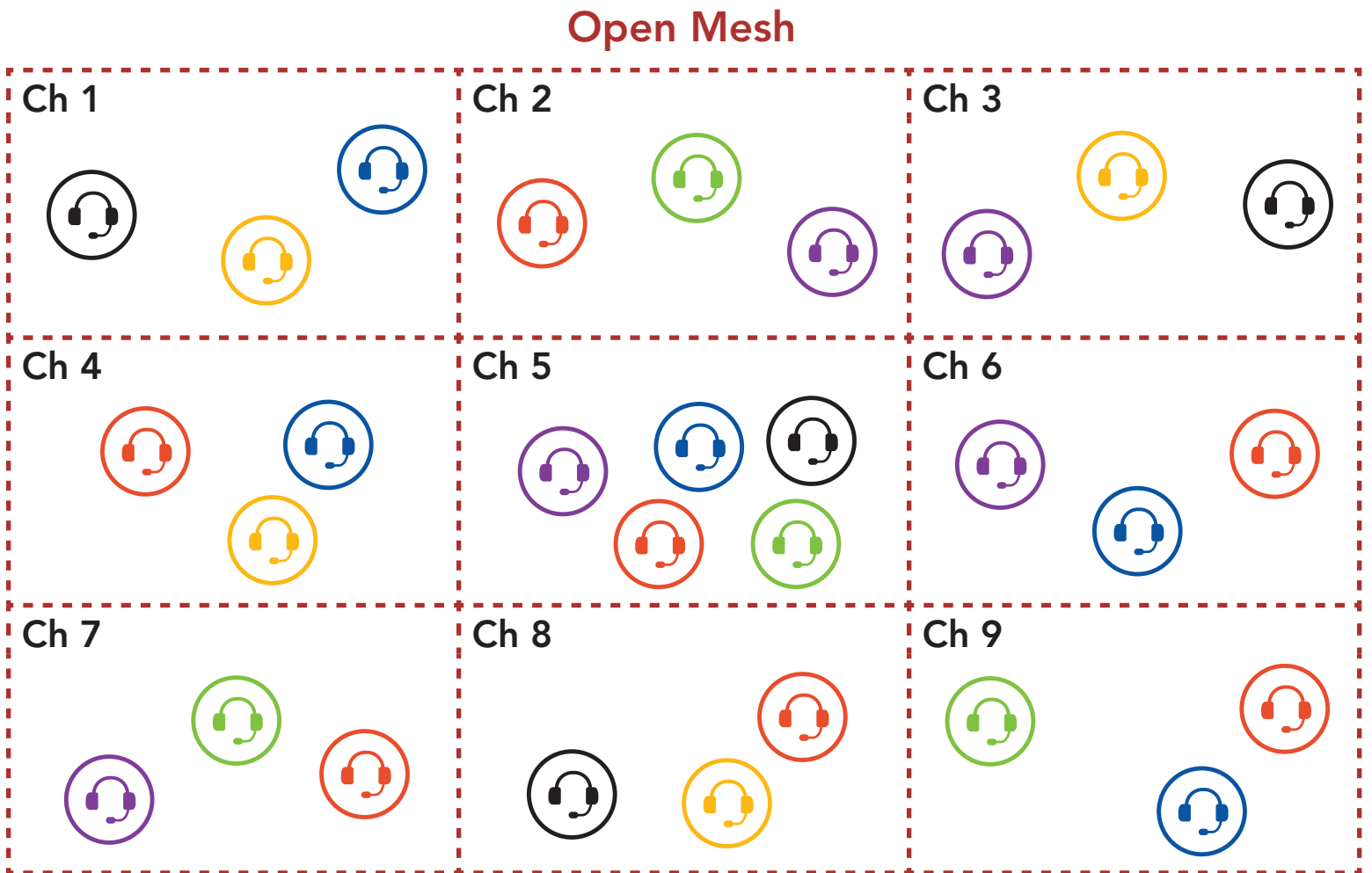
Mesh Intercom



7.1.1 Open Mesh

Open Mesh is an open group intercom function. Users can freely communicate with each other in the same **Open Mesh** channel and select which channel (1-9) to use through the headset.

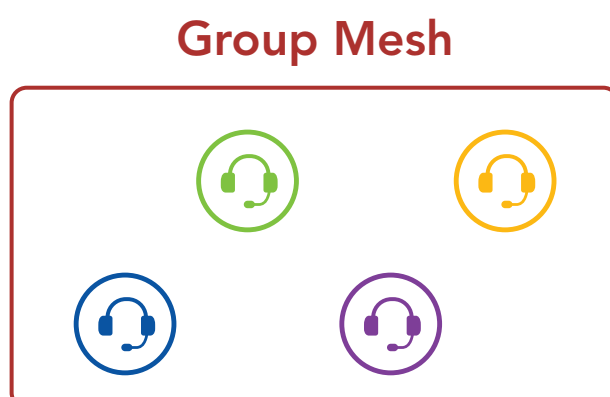
It can connect with a virtually unlimited number of users in each channel.



7.1.2 Group Mesh

Group Mesh is a closed group intercom function that allows users to join, leave, or rejoin a group intercom conversation without pairing each headset. Users can freely communicate with each other in the same private group in **Group Mesh**.

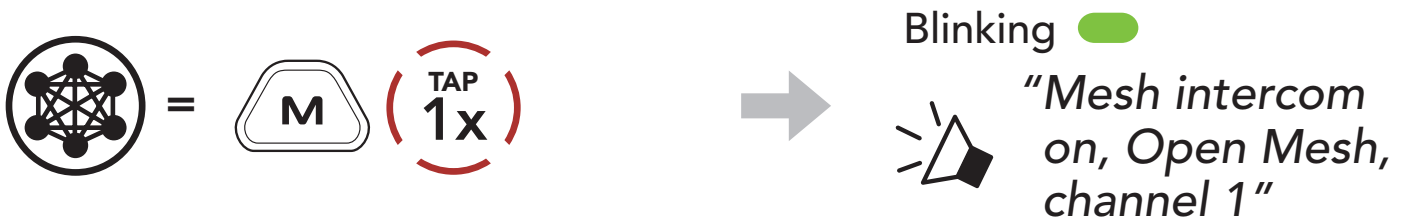
For closed intercom conversations using **Mesh Intercom**, a **Group Mesh** needs to be created by the users. When users create a private group in **Group Mesh** by **Mesh Grouping**, the headset automatically switches from **Open Mesh** to **Group Mesh**. Up to 24 users can all be connected in each private group.



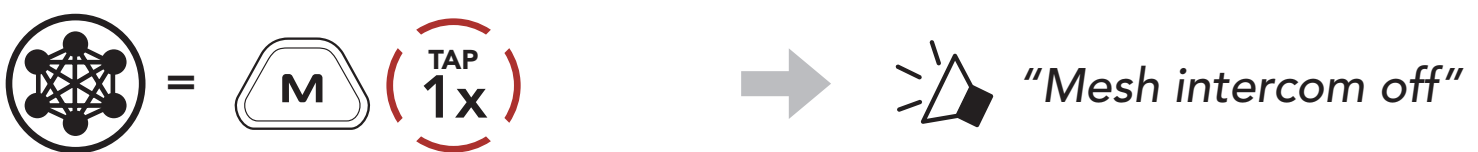
7.2 Starting Mesh Intercom

When **Mesh Intercom** is enabled, the **CAST** will automatically connect to nearby **CAST** users and allow them to talk to each other.

Mesh Intercom On



Mesh Intercom Off



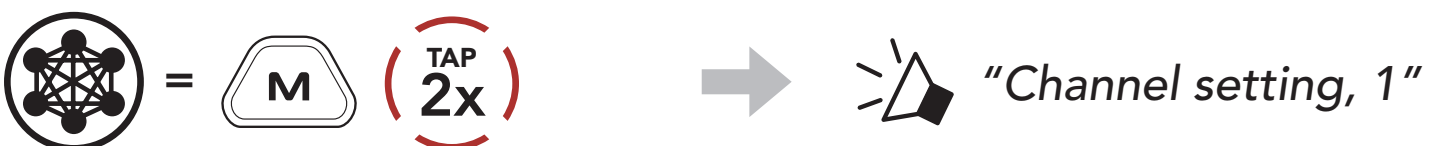
7.3 Using the Mesh in Open Mesh

When **Mesh Intercom** is enabled, the headset will be in **Open Mesh (default: channel 1)** initially.

7.3.1 Channel Setting (Default: Channel 1)

If the **Open Mesh** communication experiences interference because other groups are also using **channel 1 (default)**, change the channel. You can select from channels 1 to 9.

1. Double tap the **Mesh Intercom Button**.



2. Navigate between channels.

(1 → 2 → ... → 8 → 9 → Exit → 1 → ...)



3. Save the channel.



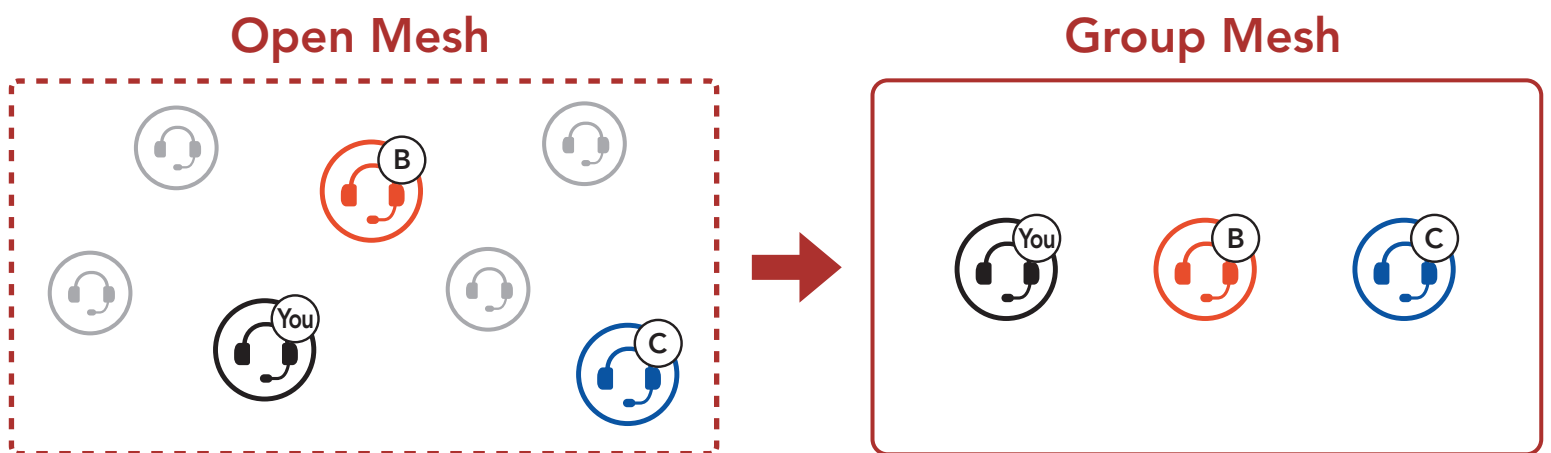
Note:

- **Channel Setting** always starts with channel 1.
- If you do not press any button for approximately **10 seconds** in a specific channel, the channel is automatically saved.
- The channel will be remembered even if you turn off the **CAST**.
- You can use the **Sena Industrial App** to change the channel.

7.4 Using Mesh in Group Mesh

7.4.1 Creating a Group Mesh

Creating a **Group Mesh** requires **two or more Open Mesh users**.



1. To enter **Mesh Grouping** to create a **Group Mesh**, press and hold the **Mesh Intercom Button** for **5 seconds** on the headset of the **users (You, B, and C)**.



2. When **Mesh Grouping** is completed, the **users (You, B, and C)** will hear a voice prompt on their headsets as **Open Mesh** switches to **Group Mesh**.

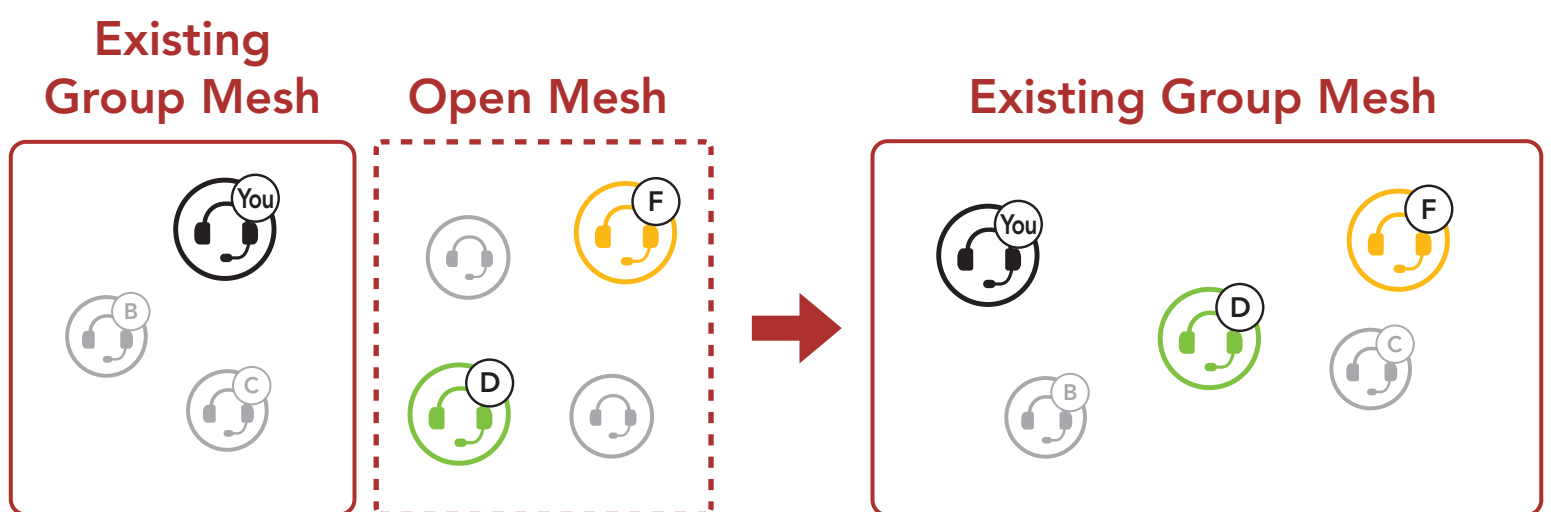


Note:

- If the **Mesh Grouping** is not completed within **30 seconds**, users will hear a voice prompt, **"Grouping failed."**
- If you want to cancel during the **Mesh Grouping**, tap the **Mesh Intercom Button**.

7.4.2 Joining an Existing Group Mesh

One of the **current users** in an **Existing Group Mesh** can allow **new users (one or more)** in **Open Mesh** to join the **Existing Group Mesh**.



1. To enter **Mesh Grouping** to join the **Existing Group Mesh**, press and hold the **Mesh Intercom Button** for **5 seconds** on the headsets of **one (You) of the current users** in the **Existing Group Mesh** and the **new users (D and F)** in **Open Mesh**.



2. When **Mesh Grouping** is completed, the **new users (D and F)** will hear a voice prompt on their headsets as **Open Mesh** switches to **Group Mesh**.



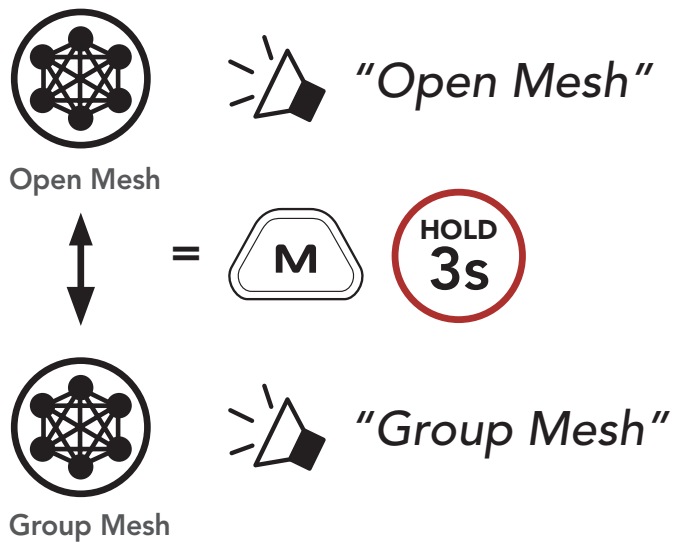
Note: If the **Mesh Grouping** is not completed within **30 seconds**, the current user (You) will hear low-toned double beeps and the new users (D and F) will hear a voice prompt, **"Grouping failed."**

7.5 Toggling Open Mesh/Group Mesh

Users are able to toggle between **Open Mesh** and **Group Mesh** without resetting the **Mesh**. This allows users to keep the **Group Mesh Network** connection information while in **Open Mesh**.

Users can toggle to **Group Mesh** to communicate with participants from the stored **Group Mesh Network** connection information.

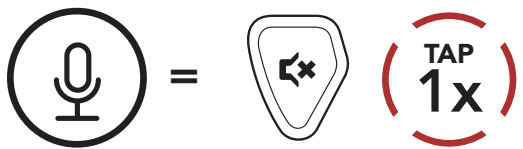
Toggle between Open Mesh and Group Mesh



Note: If you have never participated in **Group Mesh**, you cannot toggle between **Open Mesh** and **Group Mesh**. You will hear a voice prompt, **"No group available."**

7.6 Mute/Unmute Mic (Default: Unmute)

You can mute/unmute the microphone during a Mesh Intercom.



7.7 Reset Mesh

If a headset in an **Open Mesh** or **Group Mesh** resets the **Mesh**, it will automatically return to **Open Mesh (default: channel 1)**.



7.8 Mesh Audio Multitasking (Always On)

Mesh Audio Multitasking allows you to have a **Mesh Intercom** conversation while simultaneously listening to **music**, **FM radio**, or having a **two-way radio** conversation.

- The overlaid **music** and **FM radio** are played in the background with reduced volume whenever there is a **Mesh Intercom** conversation and will return to normal volume once the conversation is finished.
- The volume level of the **two-way radio** conversation will not be reduced during a **Mesh Intercom** conversation.

The **Mesh Audio Multitasking** feature can be configured through the **Intercom-Audio Overlay Sensitivity** and the **Audio Overlay Volume Management** settings. Please refer to **Section 11.2: "Software Configuration Setting."**

8. USING THE FM RADIO

8.1 FM Radio On/Off

FM Radio On



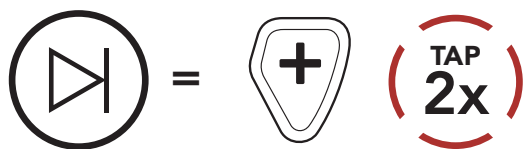
FM Radio Off



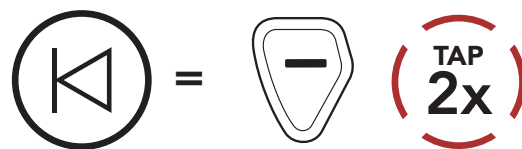
8.2 Seek

The **"Seek"** function searches for radio stations.

Seek Stations Forward



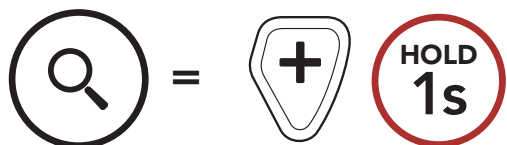
Seek Stations Backward



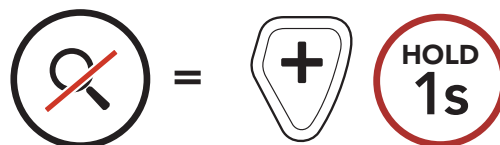
8.3 Scan

The **"Scan"** function automatically searches for radio stations, starting with the current station's frequency, then up from there.

Start Scanning



Stop Scanning



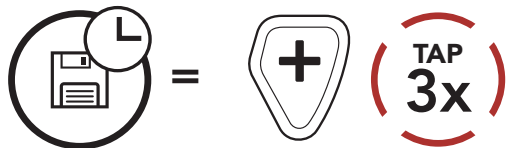
Note: You can save current station from the **Sena Device Manager** or the **Sena Industrial App**.

8.4 Temporary Station Preset

The **Temporary Preset** function automatically finds and saves the nearest 10 radio stations without changing your existing preset stations.

1. Automatically find and save 10 stations.

Temporary Stations

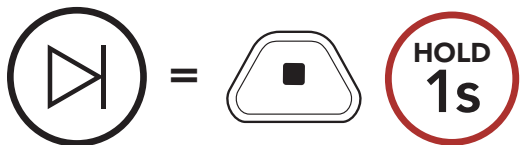


2. The temporary preset stations will be cleared when the headset reboots.

8.5 Navigating Preset Stations

Using the methods above, up to 10 radio stations can be stored. You can navigate through the saved stations.

Navigate through Preset Stations



9. TWO-WAY RADIO

You can connect two-way radios (wireless/wired) with the **CAST** and talk with other people using the **PTT Button**.

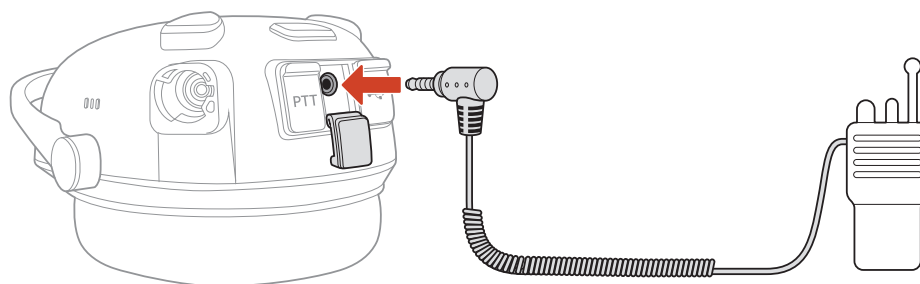
- When you connect a two-way radio (wireless/wired), two-way radio (wireless/wired) conversation will not interrupt your Mesh Intercom conversation, but overlay with them.

! Wired/Wireless Connection

- If there is already a wireless two-way radio connection, you cannot make another wireless two-way radio connection.
- If you connect a wired two-way radio while a wireless two-way radio is connected, the connection with the wireless two-way radio will be disconnected.

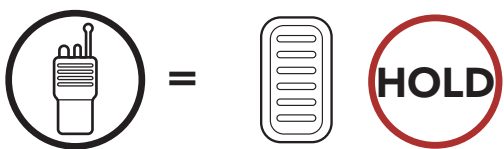
9.1 Wired Connection

1. Connect the two-way radio with the **CAST** using the ***two-way radio cable** and port.



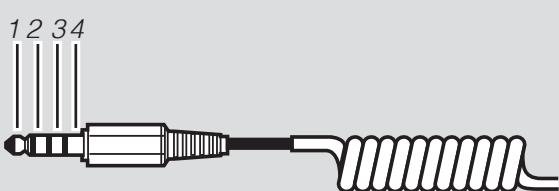
2. Press and hold one of the **PTT Buttons** while talking.

Push-To-Talk (PTT)



Note:

- **Two-way radio cable:** Sold separately. For more information, visit senaindustrial.com.
- You can also create a cable that wires the **CAST** and the two-way radio. Follow the diagram below to correctly wire the cable.



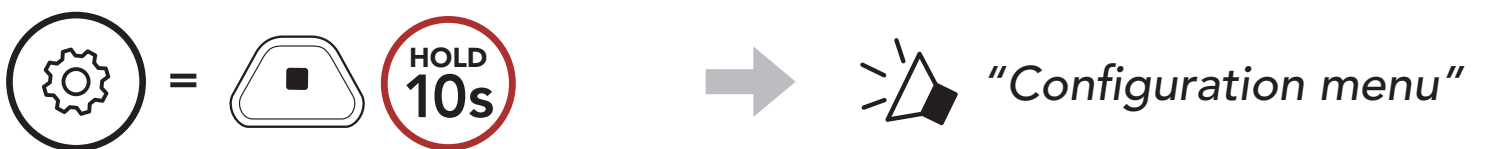
1	SPEAKER_OUT
2	PTT
3	MIC_IN
4	GROUND

9.2 Wireless Connection

Two-way radio with built-in Bluetooth® can be connected to the **CAST** if they support the Bluetooth Hands-Free Profile (HFP).

You will need to pair a compatible two-way radio for the first time. The **CAST** remains paired with the two-way radio and will automatically connect to the paired two-way radio again whenever they are within range.

1. While the headset is on, press and hold the **Center Button** for **10 seconds**.

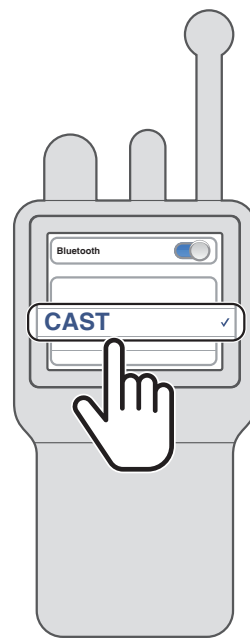


2. Double tap the **(+) Button**.



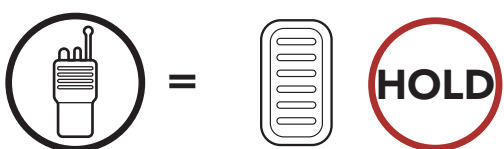
3. Enter the two-way radio's **Bluetooth Pairing** mode (refer to the User's Manual of the two-way radio you want to use).

4. Select **CAST** in the list of Bluetooth devices detected on the two-way radio.



5. Press and hold one of the **PTT Buttons** while talking.

Push-To-Talk (PTT)



Note:

- If the Bluetooth connection between the **CAST** and two-way radio is disconnected, tap the **PTT Button** to reconnect the two devices.
- If reconnection continues to fail, reboot the two-way radio.

10. FUNCTION PRIORITY AND FIRMWARE UPGRADES

10.1 Function Priority

- (highest)** Ambient mode
- Mobile phone
- Wireless two-way radio
- Mesh Intercom
- Wired two-way radio
- FM radio

- (lowest)** Bluetooth stereo music

A lower-priority function gets interrupted by a higher-priority function. For example, stereo music will be interrupted by an incoming mobile phone call.

10.2 Firmware Upgrades

You can upgrade firmware using the **Sena Device Manager**.

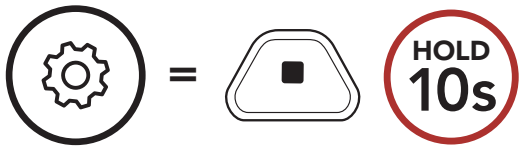
The **USB Power & Data Cable (USB-C)** must be connected to your PC to upgrade firmware using the **Sena Device Manager**.

Download the **Sena Device Manager** at [senaindustrial.com](https://www.senaindustrial.com).

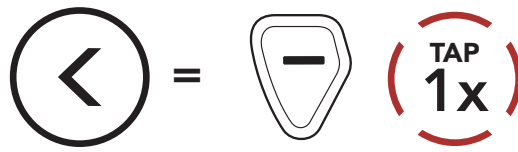
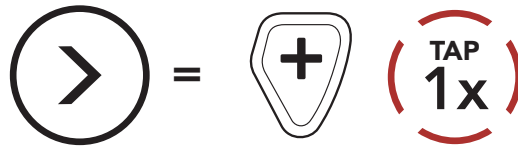
11. CONFIGURATION SETTING

11.1 Headset Configuration Menu

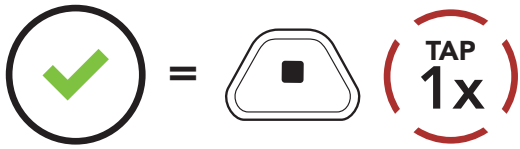
Accessing the Configuration Menu



Navigating Between Menu Options



Execute Menu Options



Headset Configuration Menu

Voice Configuration Menu	Tap the Center Button
Mobile Phone Pairing	None
Two-way Radio Pairing	None
Delete All Pairings	Execute
Factory Reset	Execute
Exit	Execute

11.1.1 Delete All Pairings

You can delete all Bluetooth pairing information of the headset.

11.2 Software Configuration Setting

You can change the settings of the headset through the **Sena Device Manager** or the **Sena Industrial App**.



11.2.1 Headset Language

You can select the device language. The selected language is maintained even when the headset is rebooted.

11.2.2 Intercom-Audio Overlay Sensitivity (Default: 3)

The music and FM radio volume will be lowered to play in the background if you talk over the intercom while the overlaid audio is playing. You can adjust the intercom sensitivity to activate this background audio mode. **Level 1** has the lowest sensitivity and **level 5** has the highest sensitivity.

Note: If your voice is not louder than the sensitivity of the selected level, the overlaid audio will not be lowered.

11.2.3 Audio Overlay Volume Management (Default: Disable)

The music and FM radio overlaid audio reduces in volume whenever there is an ongoing intercom conversation. If **Audio Overlay Volume Management** is enabled, the volume level of the overlaid audio will not be reduced during an intercom conversation.

11.2.4 Sidetone (Default: Disable)

Sidetone is audible feedback of your own voice. It helps you naturally speak at the correct level based on the noise conditions of your surrounds. If this feature is enabled, you can hear what you are speaking during an intercom conversation or a phone call.

11.2.5 Voice Prompt (Default: Enable)

You can disable **Voice Prompts** by software configuration settings, but the following voice prompts are always on.

- Headset configuration settings menu, battery level indicator, speed dial, FM radio functions

11.2.6 RDS AF Setting (Default: Disable)

Radio Data System (RDS) Alternative Frequency (AF) Setting allows a receiver to re-tune to the second frequency location when the first signal becomes too weak. With RDS AF enabled on the receiver, a radio station with more than one frequency can be used.

11.2.7 FM Station Guide (Default: Enable)

When **FM Station Guide** is enabled, FM station frequencies are given by voice prompts as you select preset stations. When **FM Station Guide** is disabled, the voice prompts on FM station frequencies will not be given as you select preset stations.

11.2.8 Region Selection

You can select the proper FM frequency range for your location. Using the region setting, you can optimize the seek function to avoid unnecessary frequency ranges.

Region	Frequency range	Step
Worldwide	76.0 ~ 108.0 MHz	± 100 kHz
North America, South America and Australia	87.5 ~ 107.9 MHz	± 200 kHz
Asia and Europe	87.5 ~ 108.0 MHz	± 100 kHz
Japan	76.0 ~ 95.0 MHz	± 100 kHz

11.2.9 FM Radio (Default: Enable)

When the FM Radio is disabled, you cannot use the FM Radio.

Note:

- FM Radio can only be changed in the **Sena Device Manager**.
- The selected setting is maintained even when you factory reset the headset.

11.2.10 Smartphone Connection (Default: Enable)

When Smartphone Connection is disabled, you cannot connect to the smartphone.

Note:

- Smartphone Connection can only be changed in the **Sena Device Manager**.
- The selected setting is maintained even when you factory reset the headset.

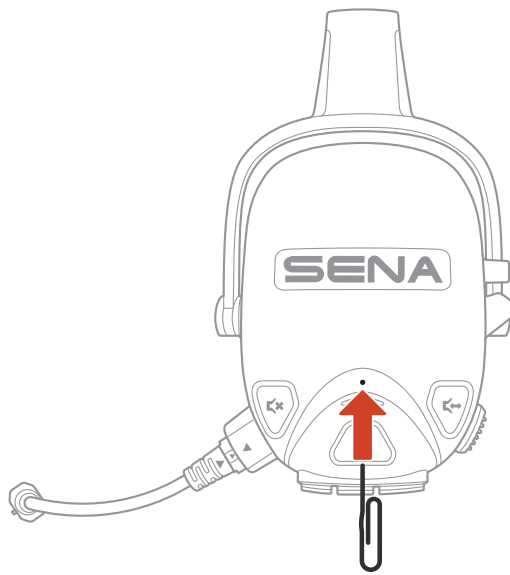
12. TROUBLESHOOTING

Please visit senaindustrial.com for more troubleshooting information.

12.1 Fault Reset













When the headset is not working properly, you can easily reset the unit:

1. Locate the **Pinhole Fault Reset Button** above the **Status LED**.
2. Gently insert a paper clip into the hole and press the **Pinhole Fault Reset Button** with light pressure.



12.2 Factory Reset

To erase all of your settings and start fresh, the headset can be restored to factory default settings using the **Factory Reset** feature.

1.  =   →  "Configuration menu"
2.  =   →  "Factory reset"
3.  =   →  "Headset reset, good-bye"



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