

# EXPAND MESH

BLUETOOTH® HEADSET WITH MESH INTERCOM™

**USER'S GUIDE** 

Version 1.0.0 ENGLISH

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# 1. ABOUT THE EXPAND MESH

### 1.1 Product Features



Bluetooth® 5.2



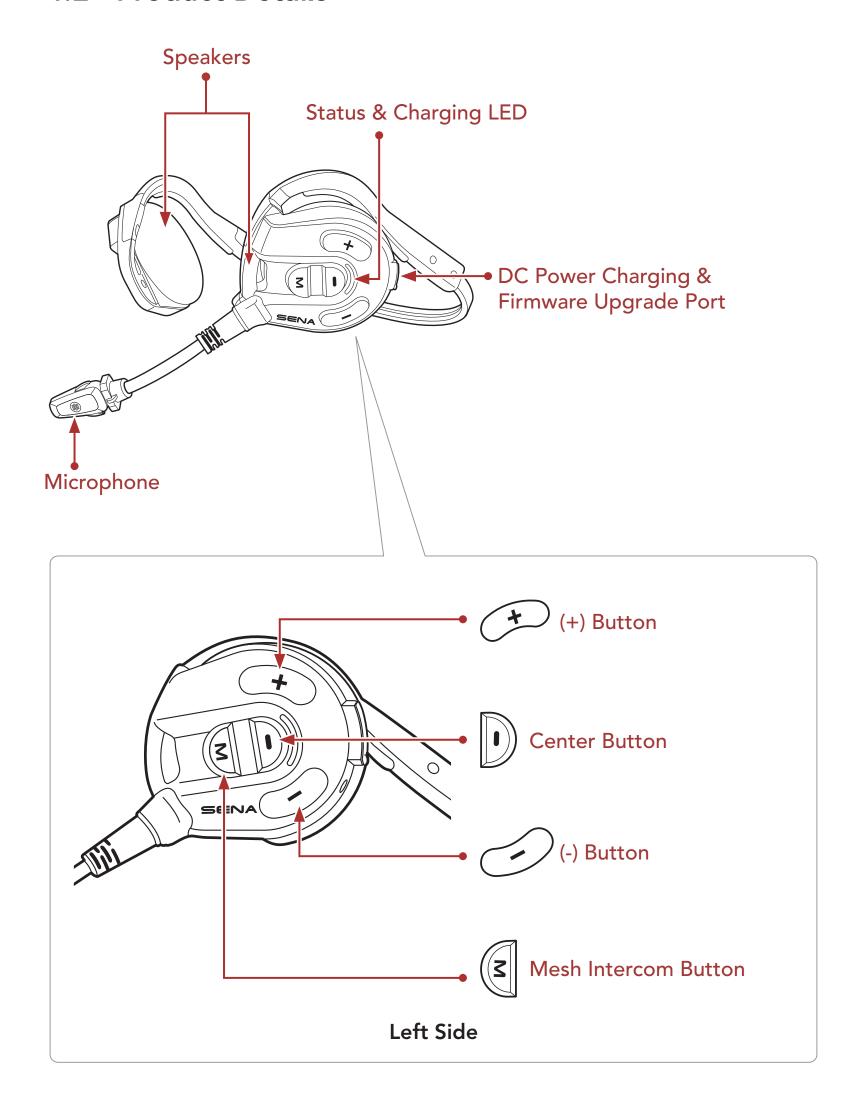
Mesh Intercom up to 0.4 km (0.2 mi)\*



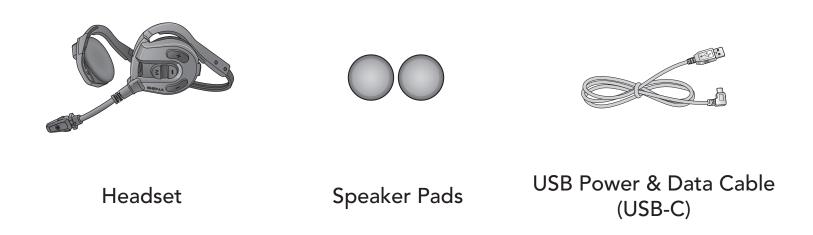
Audio Multitasking™

\* in open terrain

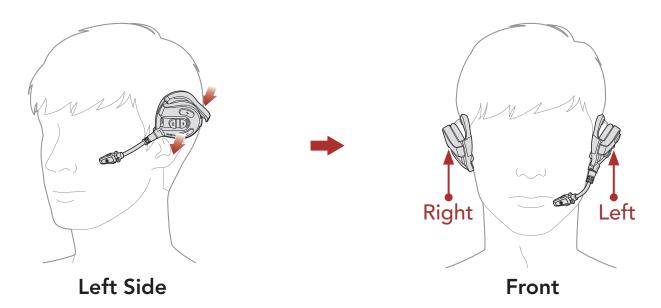
### 1.2 Product Details



#### 1.3 **Package Contents**



## Wearing the Headset



- 1. Check that the speaker with microphone is placed on the left ear.
- 2. Adjust the microphone to be located at a proper distance from your mouth.

Note: Proper fit on your ear and head is important both for comfort and optimal noise-reduction performance.

# 2. GETTING STARTED

#### Downloadable Sena Software 2.1

### 2.1.1 Sena Outdoor App

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



 Download the Sena Outdoor App on Google Play Store or App Store.

### 2.1.2 Sena Device Manager

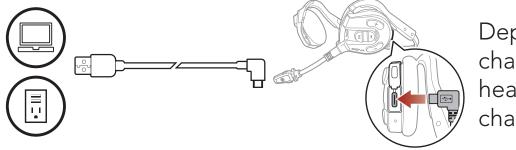
The Sena Device Manager allows you to upgrade firmware and configure settings directly from your PC.



• Download the **Sena Device Manager** at **sena.com**.

# 2.2 Charging

### **Charging the Headset**



Depending upon the charging method, the headset will be fully charged in about 2.0 hours.

### Note:

- Please make sure to take off your headset while charging. The headset automatically turns off during charging.
- 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.
- The **headset** is compatible with 5 V input USB-charged devices only.

#### 2.3 Legend



Tap button the specified number of times



"Hello"



Audible prompt

## Powering On and Off

### **Powering On**







### **Powering Off**









## Checking the Battery Level

Instructions are for when powering the headset on.

### **Powering On**

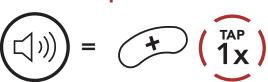


Note: When the battery is low while in use, you will hear a voice prompt saying "Low battery".

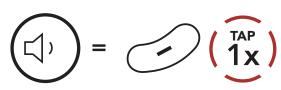
# 2.6 Volume Adjustment

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**



### PAIRING THE HEADSET WITH OTHER 3. **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, MP3 player, or Sena SR10 Two-Way Radio Adapter via Mobile Phone Pairing and Second Mobile Phone Pairing.







Phone

MP3 **Player** 

Sena **SR10** 

#### **Phone Pairing** 3.1

There are three ways to pair the phone.

### 3.1.1 Initially Pairing the Expand Mesh

The headset will automatically enter the phone pairing mode when you initially turn on the headset or in the following situation:

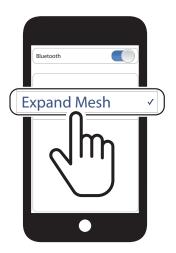
- Rebooting after executing Factory Reset.
- 1. Press and hold the **Center Button** and the **(+) Button** for **1 second**.



### Note:

- The phone pairing mode lasts for 3 minutes.
- To cancel phone pairing, tap the Center Button.

2. Select **Expand Mesh** in the list of Bluetooth devices detected. If your mobile phone asks for a PIN, enter 0000.

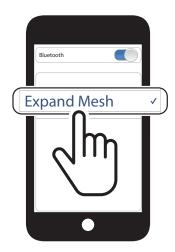


### 3.1.2 Pairing When the Expand Mesh is Turned Off

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 **Expand Mesh** in the list of Bluetooth devices detected. If your mobile phone asks for a PIN, enter 0000.

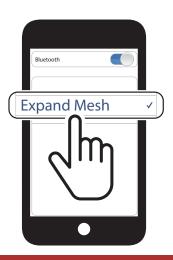


### 3.1.3 Pairing When the Expand Mesh is Turned On

1. While the headset is on, press and hold the Center Button for 5 seconds.



2. Select Expand Mesh in the list of Bluetooth devices detected. If your mobile phone asks for a PIN, enter 0000.



### 3.2 Second Mobile Phone Pairing - Second Mobile **Phone and SR10**

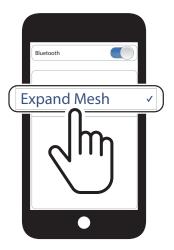
1. Press and hold the Center Button for 10 seconds.



2. Tap the (+) Button.



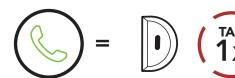
3. Select **Expand Mesh** in the list of Bluetooth devices detected. If your Bluetooth device asks for a PIN, enter 0000.



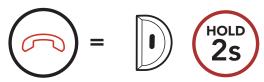
# **MOBILE PHONE USAGE**

#### 4.1 Making and Answering Calls

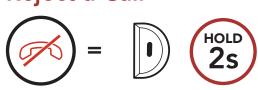
### **Answer a Call**



### **End a Call**



### Reject a Call



### Make a Call with Voice Dial



### 4.2 Speed Dialing

### 4.2.1 Assigning Speed Dial Presets

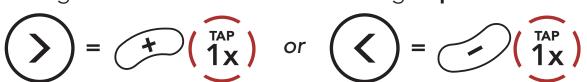
Speed Dial Presets could be assigned through the Sena Device Manager or the Sena Outdoor App.

## 4.2.2 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.

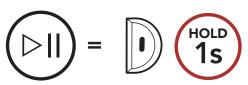
### **Redial Last Number**



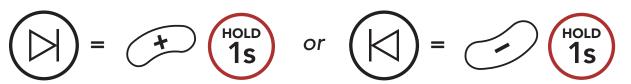
# 5. STEREO MUSIC

# 5.1 Playing Music with Bluetooth Devices

### **Play/Pause Music**



### Track Forward/Backward



# **MESH INTERCOM**

#### What is Mesh Intercom? 6.1

Mesh Intercom™ is a dynamic communication system created by Sena that provides instant and effortless bike-to-bike communication without a pre-grouping process. Mesh Intercom allows riders to connect and communicate with nearby users without the need to pair each headset together.

The working distance between each Expand Mesh in Mesh Intercom can be up to 0.4 km (0.2 miles) in open terrain. In open terrain, the Mesh can be extended up to 1.6 km (1 miles) between a minimum of six users. Within the same channel in **Open Mesh™** or the same private group in **Group Mesh™**, six users can talk at the same time and enjoy the optimal quality for their conversation.

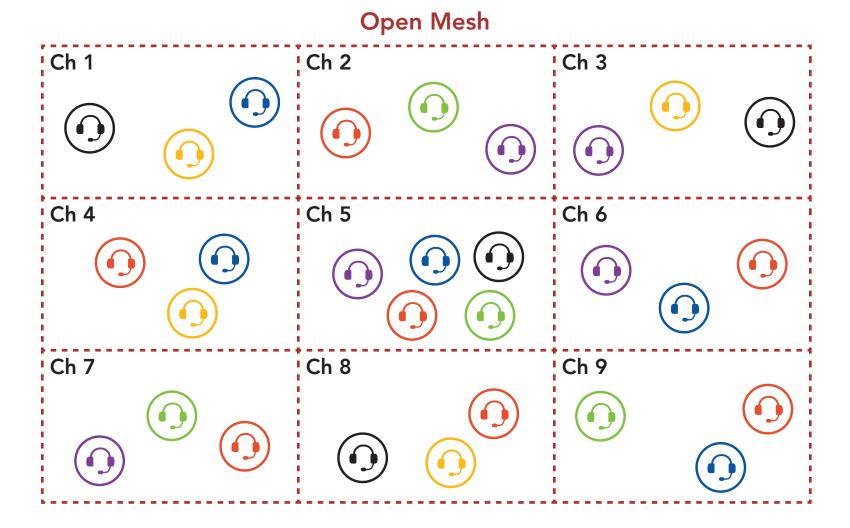
### Mesh Intercom



### 6.1.1 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.

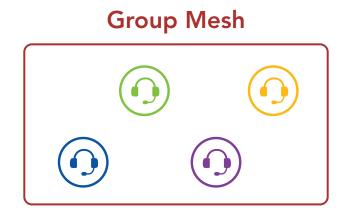
It can connect with a virtually unlimited number of users in each channel.



### 6.1.2 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.



### 6.2 Starting Mesh Intercom

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

### Mesh Intercom On



### Mesh Intercom Off



## Using the Mesh in Open Mesh

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

### 6.3.1 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**.

$$= \left(2 \left(\frac{1}{2x}\right)\right) \qquad \Rightarrow \qquad \text{`Channel setting, 1''}$$

2. Navigate between channels.

$$(1 \rightarrow 2 \rightarrow \bullet \bullet \bullet \rightarrow 8 \rightarrow 9 \rightarrow \text{Exit} \rightarrow 1 \rightarrow \bullet \bullet \bullet)$$

$$\Rightarrow \qquad (1 \rightarrow 2 \rightarrow \bullet \bullet \bullet \rightarrow 8 \rightarrow 9 \rightarrow \text{Exit} \rightarrow 1 \rightarrow \bullet \bullet \bullet)$$

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3. Save the channel.



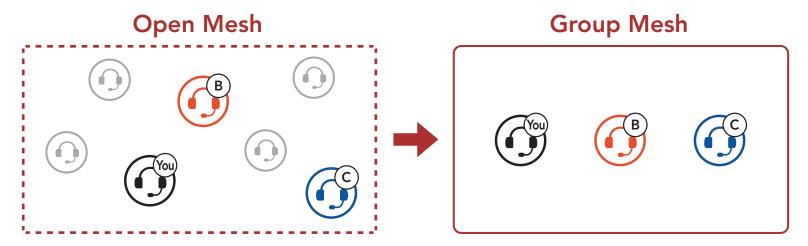
### Note:

- **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 Expand Mesh.
- You can use the **Sena Outdoor App** to change the channel.

## 6.4 Using Mesh in Group Mesh

### 6.4.1 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 users (You, B, and C) headsets.



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









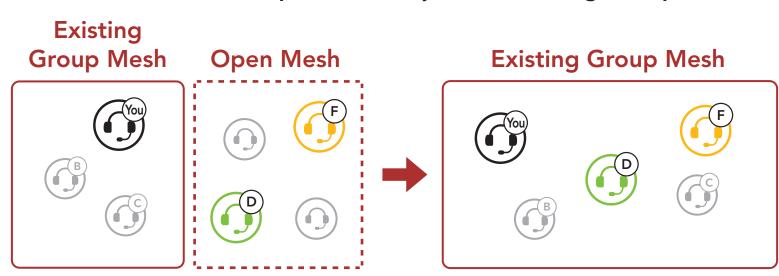
"Group Mesh"

### 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.

### 6.4.2 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 headset as **Open Mesh** switches to Group Mesh.





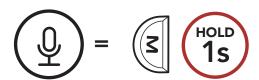


"Group Mesh"

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

#### Enable/Disable Mic (Default: Enable) 6.5

Users can enable/disable the microphone when communicating in a Mesh Intercom.



#### Toggling Open Mesh/Group Mesh 6.6

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

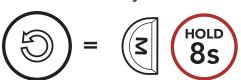


Note: If you have never participated in Group Mesh, you cannot toggle between Open Mesh and Group Mesh. You will hear a voice prompt, "No Group Available".

### 6.7 Reset Mesh

Group Mesh

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



### **MESH AUDIO MULTITASKING** 7. (ALWAYS ON)

Audio Multitasking allows you to have an intercom conversation while simultaneously listening to music.

The overlaid audio is played in the background with reduced volume whenever there is an intercom conversation and will return to normal volume once the conversation is finished.

The Audio Multitasking can be configured through the Intercom-Audio Overlay Sensitivity and the Audio Overlay Volume Management settings.

The Intercom-Audio Overlay Sensitivity and the Audio Overlay Volume Management settings can be found in the Software Configuration Setting, accessible through the Sena Device Manager or the Sena Outdoor App.

### 8. **FUNCTION PRIORITY AND** FIRMWARE UPGRADES

#### 8.1 **Function Priority**

The headset prioritizes connected devices in the following order:

Mobile phone (highest)

Mesh Intercom

Bluetooth stereo music (lowest)

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

### 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.

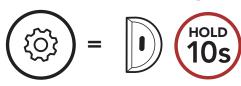
Please visit sena.com to download the Sena Device Manager.

Click Here to Visit sena.com

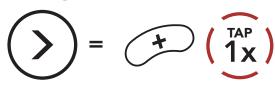
# **CONFIGURATION SETTING**

#### 9.1 **Headset Configuration Menu**

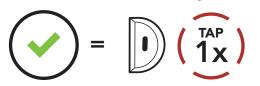
### **Access the Configuration Menu**



### **Navigate Between Menu Options**



### **Execute Menu Options**



### **Headset Configuration Menu**

Voice Configuration Menu	Tap the Center Button
Second Mobile Phone Pairing	None
Factory Reset	Execute
Exit	Execute

# 9.2 Software Configuration Setting

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





#### **Headset Language** 9.2.1

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

### 9.2.2 VOX Phone (Default: Enable)

If this feature is enabled, you can answer incoming calls by voice. When you hear a ringtone for an incoming call, you can answer the phone by saying a word such as "Hello" loudly or by blowing air into the microphone. VOX Phone is temporarily disabled if you are connected to intercom. If this feature is disabled, you have to tap the Center Button to answer an incoming call.

### 9.2.3 VOX Sensitivity (Default: 3)

VOX Sensitivity can be adjusted depending on your riding environment. **Level 5** is the highest sensitivity setting and **level 1** is the lowest.

#### Intercom-Audio Overlay Sensitivity (Default: 3) 9.2.4

The music 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.

### 9.2.5 Audio Overlay Volume Management (Default: Disable)

The music 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.

### **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

# 10. TROUBLESHOOTING

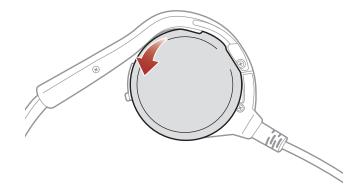
Please visit **sena.com** for more troubleshooting information.

• Customer Support: <a href="mailto:sena.com">sena.com</a>

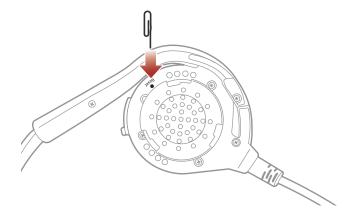
### 10.1 Fault Reset

When the Sena **Expand Mesh** is not working properly or is faulty for any reason, you may reset it by pushing the Pinhole Fault Reset Button at the back of the headset main unit.

1. Rotate the speaker pad of the left headset counter-clockwise to detach it.



2. Insert a paper clip into the hole and tap the Pinhole Fault Reset Button for a second using light pressure. The Sena Expand Mesh will be switched off, and you have to turn the system back on and try again.



Note: Fault Reset will not restore the headset to factory default settings.

# 10.2 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.









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