Manuals+ — User Manuals Simplified.

SENA CAVALRY-2 Smart Half Helmet With Mesh Communication User Guide

Contents

SENA CAVALRY-2 Smart Half Helmet With Mesh Communication

Product Usage Instructions

- The CAVALRY 2 helmet comes equipped with various buttons for different functions such as volume control, phone pairing, music playback, and mesh intercom activation.
- The basic operations of the helmet include powering on/off, adjusting volume, and accessing the configuration menu by pressing specific buttons for defined durations as mentioned in the manual.
- To pair the CAVALRY 2 with Bluetooth devices like mobile phones or GPS, follow the step-by-step instructions provided in the manual for phone pairing, second mobile phone pairing, and GPS pairing.
- Utilize the helmet for making and answering calls, activating voice assistants, setting up speed dial presets, and controlling music playback using the designated buttons and gestures as outlined in the manual.
- The Mesh Intercom feature allows riders to connect with other riders using compatible helmets, offering channel selection, mesh grouping, and other communication options for enhanced riding experiences.

FAQ

- **How long does it take to fully charge the helmet?**
  - The CAVALRY 2 helmet takes approximately 2.5 hours to reach a full charge.
- **Can the helmet be paired with multiple devices simultaneously?**
  - Yes, the helmet can pair with multiple devices including two mobile phones and one GPS device. However, only one additional device can be connected alongside a mobile phone at the same time.

The firmware version 1.0.x indicates that this manual applies to all firmware updates within the version 1.0 series.

QUICK REFERENCE

+ : (+) button   **−** : (−) button
M : Mesh Intercom button   **C** : Center button

Type	Operation	Button	Duration
Basic operations	Power on	C & +	Press for 1 second
	Power off	C & +	Single tap
	Volume up/down	+ or −	Single tap
Phone	Phone pairing	C	Press for 5 seconds
	Answer phone call	C	Single tap
	End phone call	C	Press for 2 seconds
	Reject phone call	C	Press for 2 seconds
	Activate voice assistant	C	Press for 3 seconds
	Speed dial	+	Press for 3 seconds
	Play/Pause music	C	Press for 1 second
	Track forward/back	+ or −	Press for 1 second
Mesh Intercom	Mesh Intercom on/off	M	Single tap
	Mute/unmute mic	M	Press for 1 second
	Channel selection	M	Double tap
	Mesh grouping	M	Press for 5 seconds
	Mesh Reach-Out request	M	Triple tap
	Reset mesh	M	Press for 8 seconds
Configuration menu		C	Press for 10 seconds

BEFORE GETTING STARTED

Sena Motorcycles App

- Download the Sena Motorcycles app from the Google Play Store or the App Store.

ABOUT THE CAVALRY 2

Key Features

- Mesh Intercom 3.0 – delivers improved sound quality, a more robust connection, and extended talk time
- Dual version Mesh – Mesh 2.0 for backward compatibility
- Advanced Noise Control™
- Bluetooth® version 5.2
- Over-The-Air (OTA) firmware update
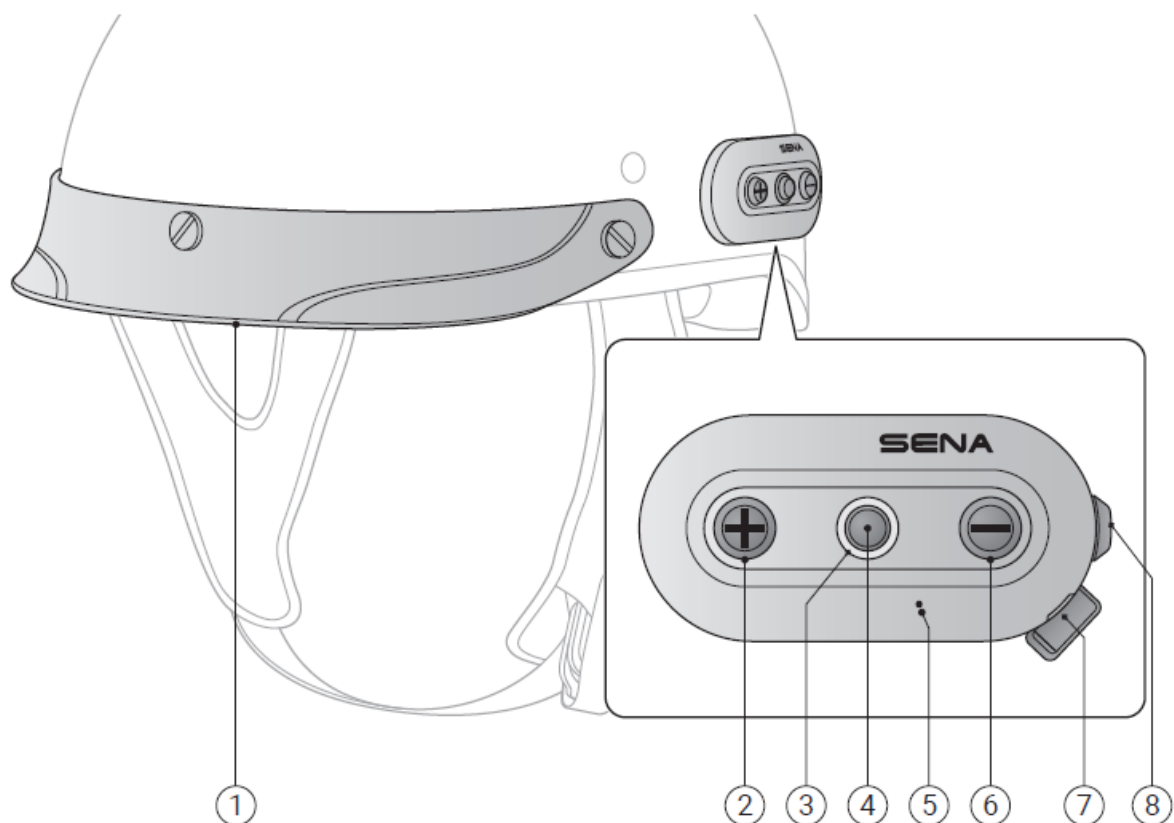
1. Visor
2. (+) button
3. Status & charging LED
4. Center button
5. Reset pinhole
6. (−) button
7. USB-C charging port
8. Mesh Intercom button

Package Contents

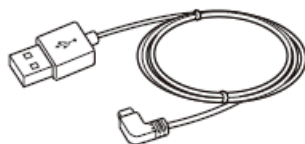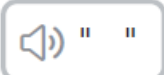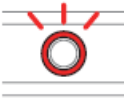|	
CAVALRY 2	USB-C charging cable	Helmet pouch

BASIC OPERATION

1x	**Tap** Tap the button the specified number of times
1s	**Press and Hold** Press and hold the button for the specified amount of time
◁)) " "	Voice Prompt
☀	LED

Charging

Charging port
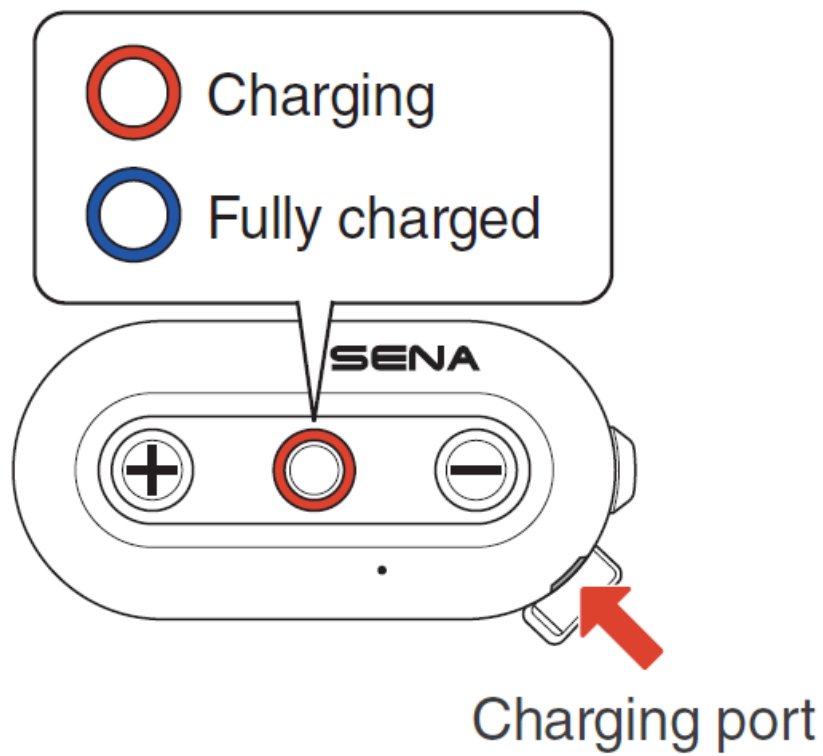
It takes 2.5 hours to fully charge.

- The CAVALRY 2 automatically powers off during charging for safety reasons.
- Any third-party USB charger can be used, as long as it is approved by the FCC, CE, IC, or other locally recognized regulatory agencies.
- Using a non-approved charger may cause fire, explosion, leakage, and other hazards, potentially reducing the battery's lifespan or performance.

▌ Power On
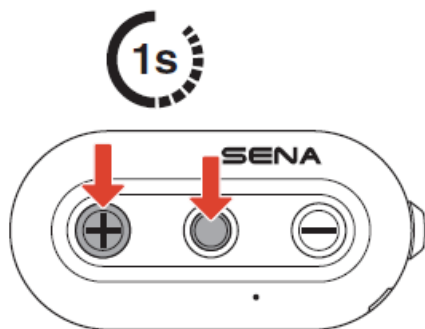
▌ Power Off
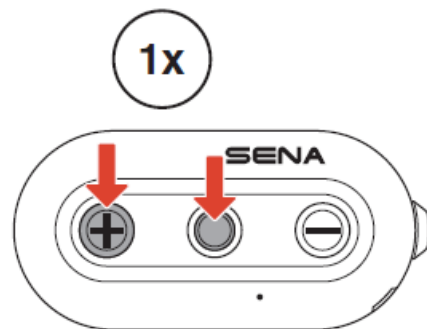
▌ Volume

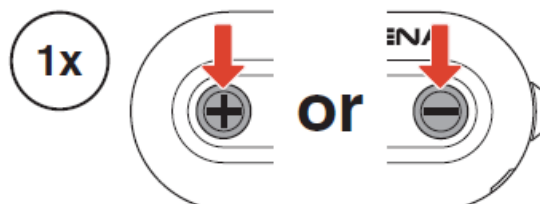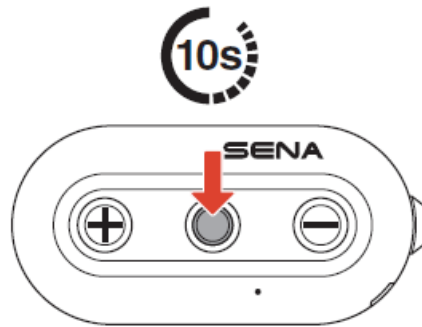**Configuration**

Enter Configuration

🔊 "Configuration menu"

Navigate

1x

or

Confirm

1x
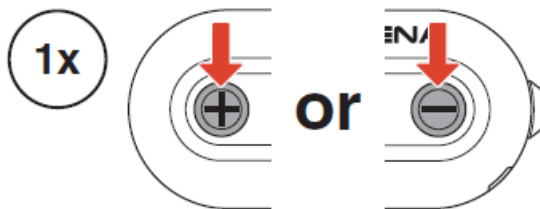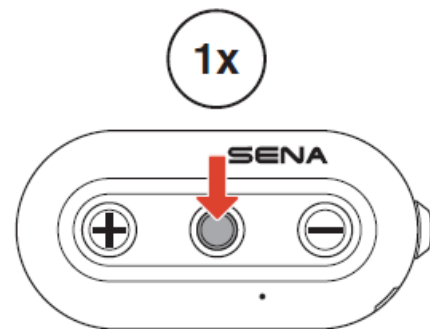
PAIRING WITH BLUETOOTH DEVICES

- When using the CAVALRY 2 with other Bluetooth devices for the first time, they need to be paired.
- The CAVALRY 2 can pair with multiple devices, including two mobile phones and one GPS.
- However, it supports only one additional device, alongside a mobile phone, for simultaneous connection.

Phone Pairing

1.
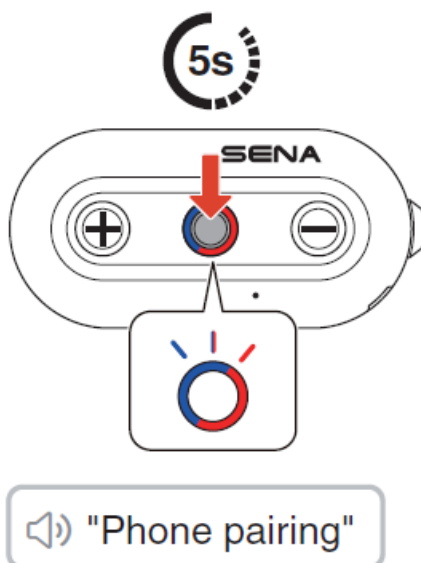
🔊 "Phone pairing"

2.
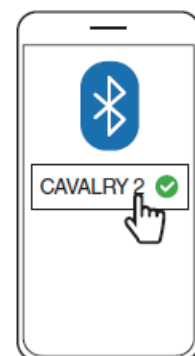
- When you turn on the CAVALRY 2 for the first time or reboot it after a factory reset, the CAVALRY 2 will automatically enter phone pairing mode.

- To cancel phone pairing, press any button.

Second Mobile Phone Pairing

1.
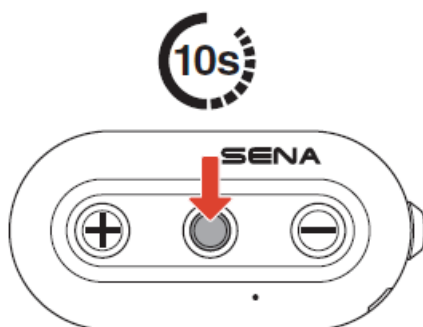
🔊 "Configuration menu"

2.
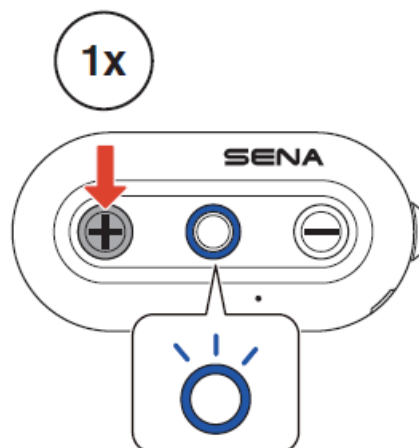
🔊 "Second mobile phone pairing"

3.

CAVALRY 2 ✓
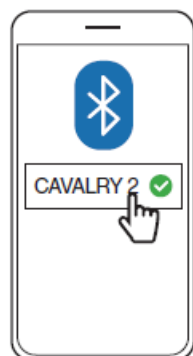
GPS Pairing

1.
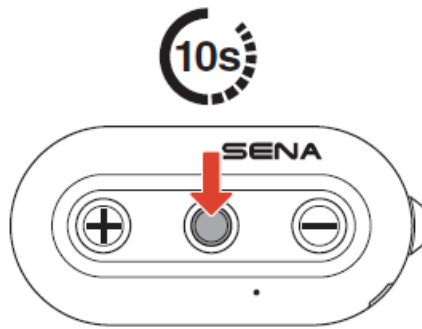
🔊 "Configuration menu"

2.
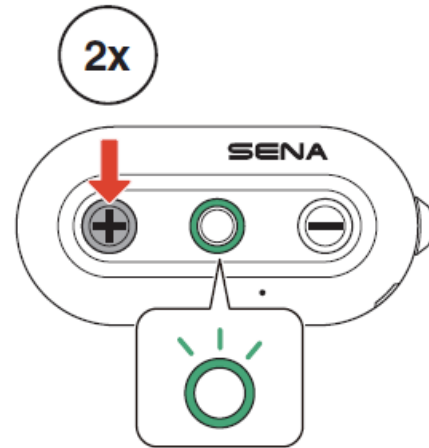
🔊 "GPS pairing"

3.
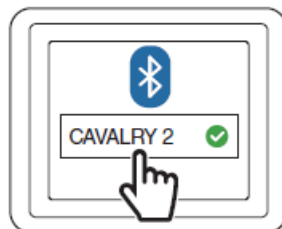
USING WITH A SMARTPHONE

Making and Answering Calls

Answer a Call

1x

End a Call

2s

Reject a Call

2s

Activate Voice Assistant

3s
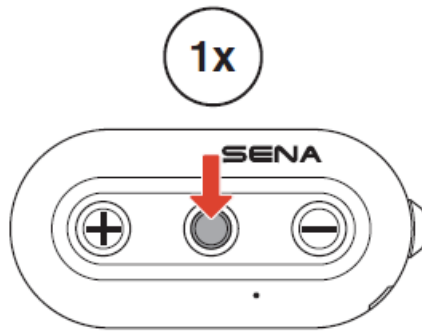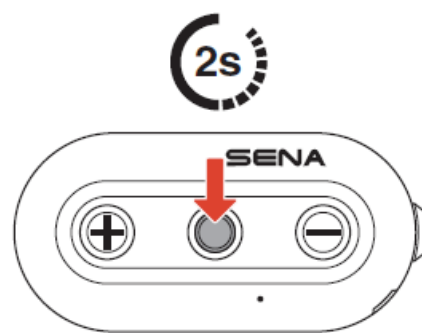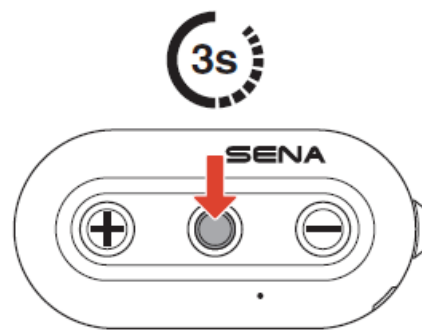
Speed Dial

Assign Speed Dial Presets

- Speed dial presets can be assigned using the Sena Motorcycles app.

Use Speed Dial Presets

1. Enter into the speed dial menu.

3s

🔊 "Speed dial"

2. Navigate forward or backward through speed dial preset.

1x

or
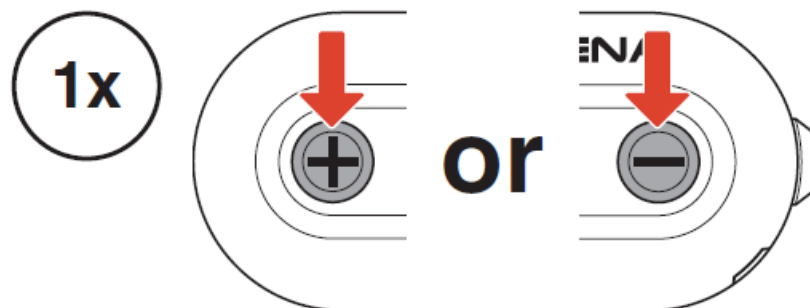
① Last number redial
② Speed dial (1→2→3)
③ Cancel

3. Tap the center button to confirm.

1x
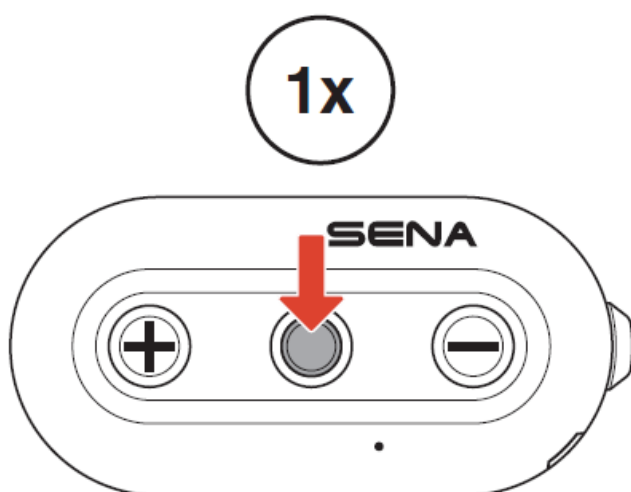
🔊 "Speed dial(#)"

Music

❙ Play/Pause Music

1s

❙ Track Forward/Backward

1s   **or**
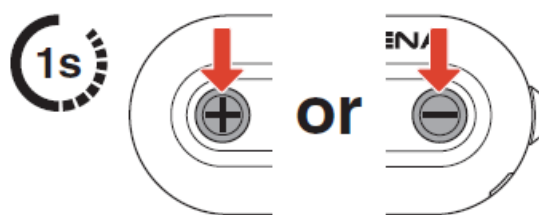
MESH INTERCOM™

The CAVALRY 2 provides two Mesh Intercom modes:

- Open Mesh™ for open group intercom conversations.

- Group Mesh™ for private group intercom conversations.

Open Mesh
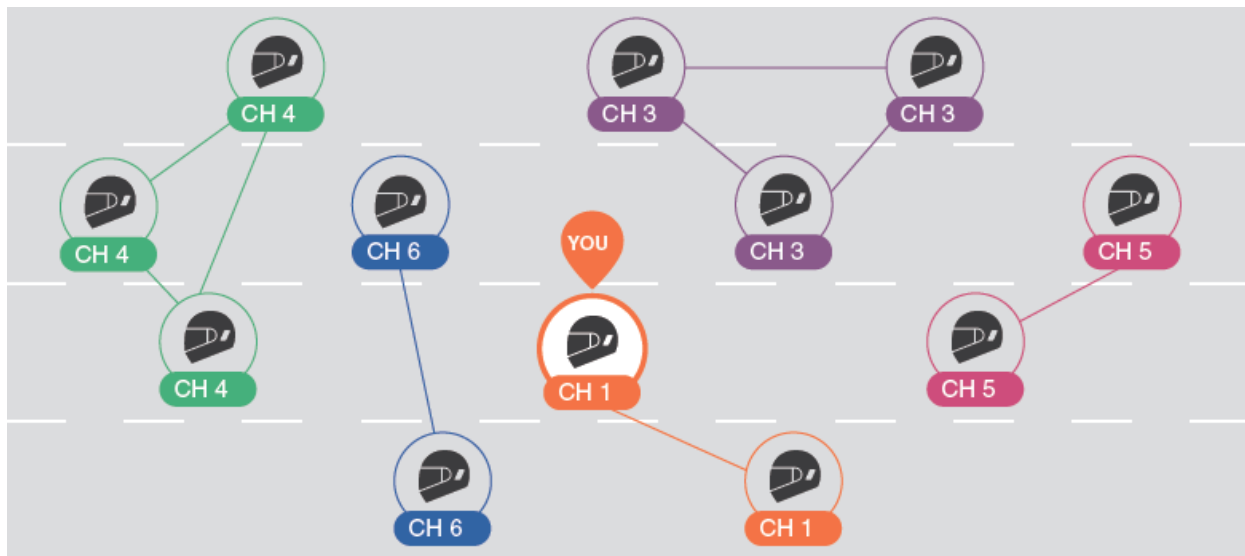
Group Mesh
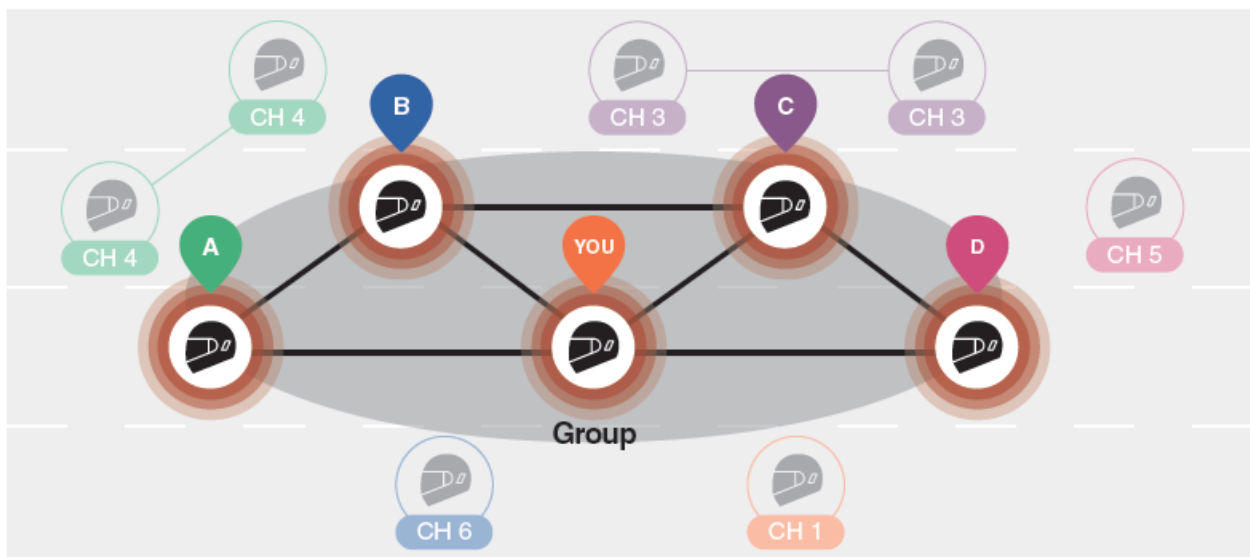
Mesh Version Switch

Switch to Mesh 2.0 for Backward Compatibility

- Mesh 3.0 is the latest Mesh Intercom technology, but to communicate with legacy products using Mesh 2.0, please switch to Mesh 2.0 using the Sena Motorcycles app.

Open Mesh

- You can freely communicate with virtually unlimited users in each of the 6 available channels. The default Mesh Intercom channel is 1.

Mesh Intercom On/Off
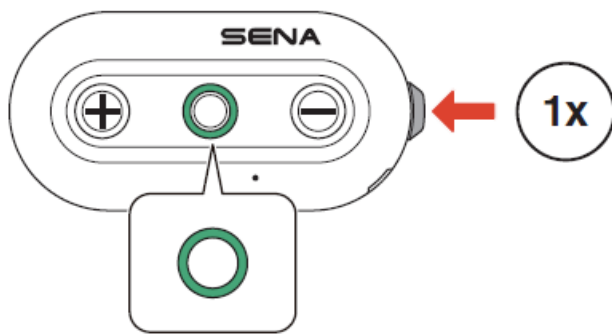
On: "Mesh intercom on, Open Mesh, channel 1"
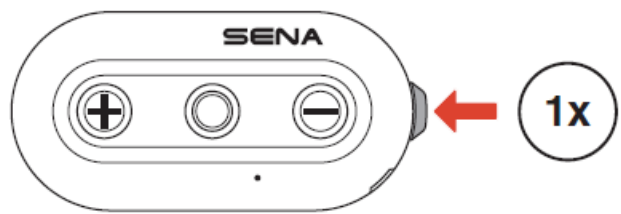
Off: "Mesh intercom off"

Mute/Unmute Mic

- Press the Mesh Intercom button for 1 second to mute/unmute the microphone during Mesh Intercom communication.
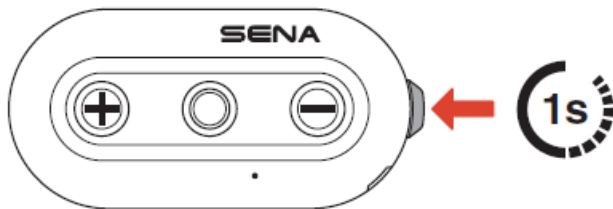
Mute: "Mic off"

Unmute: "Mic on"

Channel Selection

1. Enter into the channel setting.

"Channel setting, 1"

"#"
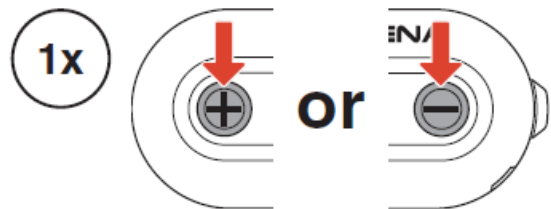
2. Navigate between channels.
3. Confirm and save the channel.
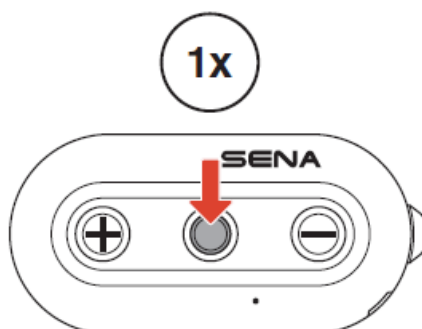
"Channel is set, channel #"

- The channel will be automatically saved if no buttons are pressed for 10 seconds on a specific channel.

- The channel will be saved even if the CAVALRY 2 is turned off.

Group Mesh

- By using group mesh, a private conversation group can be created for up to 24 participants.

Create a Group Mesh
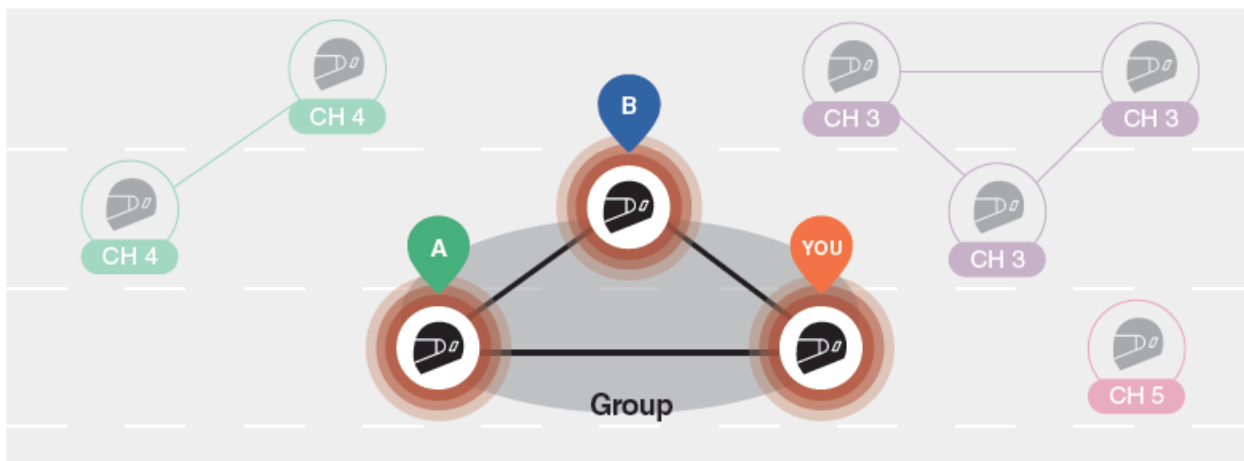
1. Users (You, A, and B) enter the mesh grouping by pressing the Mesh Intercom button for 5 seconds while staying in the open mesh. They don't need to be on the same open mesh channel to create a group mesh together.

2. When mesh grouping is completed, it automatically switches from open mesh to group mesh.
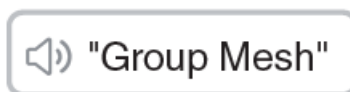
- If you want to cancel mesh grouping, tap the Mesh Intercom button.

- If the mesh grouping is not completed within 30 seconds, users will hear a voice prompt saying, "Grouping failed."

Join an Existing Group Mesh

- While you are in a group mesh, you can invite other users in open mesh to join the group.
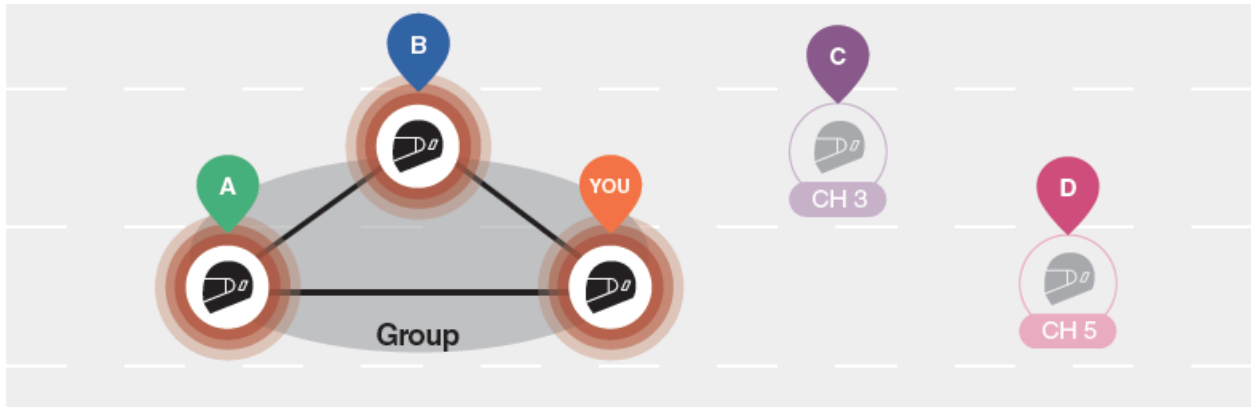
- You are already in group mesh with A and B, and the other users, C and D, are in open mesh.

1. You and the other users, C and D, enter mesh grouping by pressing the Mesh Intercom button for 5 seconds.

2. When mesh grouping is completed, the other users, C and D, automatically join the group mesh while leaving the open mesh.

New participants (C and D)

- 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 (C and D) will hear a voice prompt saying, "Grouping failed."

Toggle Open/Group Mesh

- You can toggle between open mesh and group mesh without resetting the mesh.

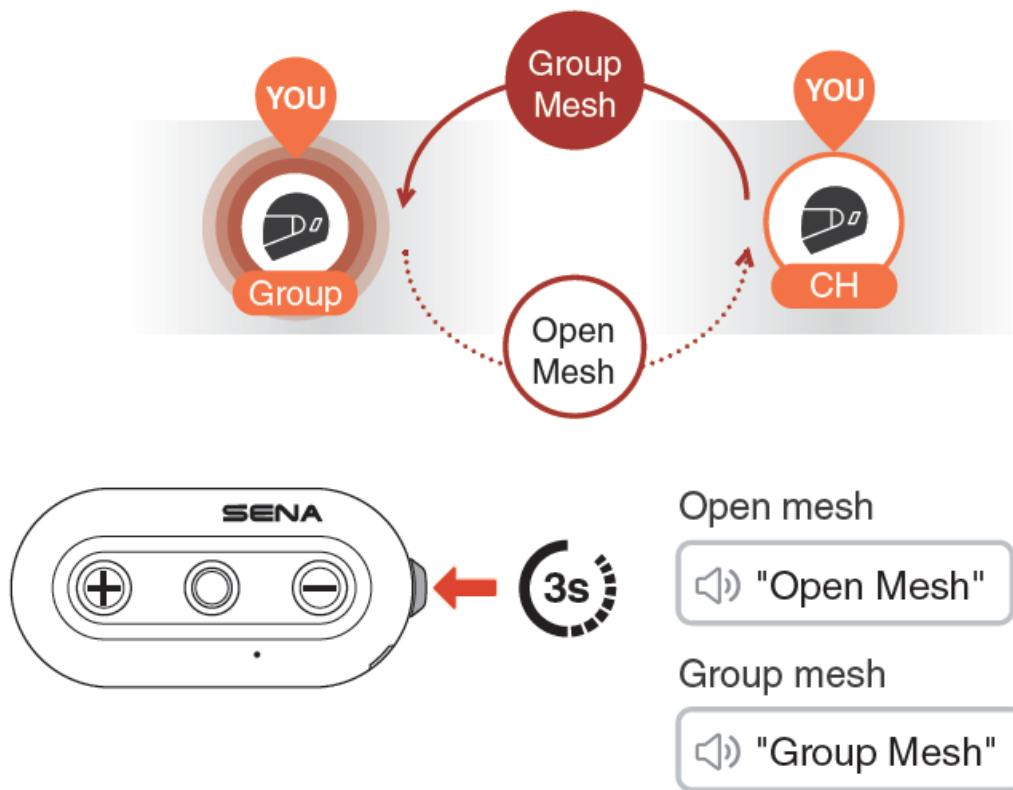- If you have never participated in group mesh, you cannot toggle between open mesh and group mesh. You will hear a voice prompt saying, "No group available."

Mesh Reach-Out Request
You (caller) can send a Mesh Reach-Out request to turn on Mesh Intercom to nearby* friends who have it turned off.

1. If you want to send or receive a Mesh Reach-Out request, you need to enable it in the Sena Motorcycles app.
2. You can send a Mesh Reach-Out request using the Mesh Intercom button or the Sena Motorcycles app.
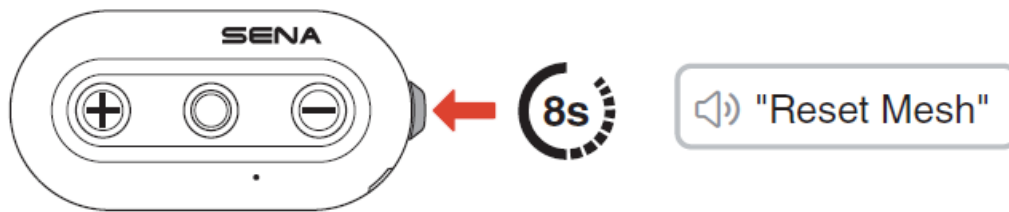

3. Friends who receive the Mesh Reach-Out request need to manually turn on their Mesh Intercom.

Up to 330 ft in open terrain

Reset Mesh
If the CAVALRY 2 resets the mesh while in open mesh or group mesh, it will automatically return to open mesh, channel 1.

8s → 🔊 "Reset Mesh"

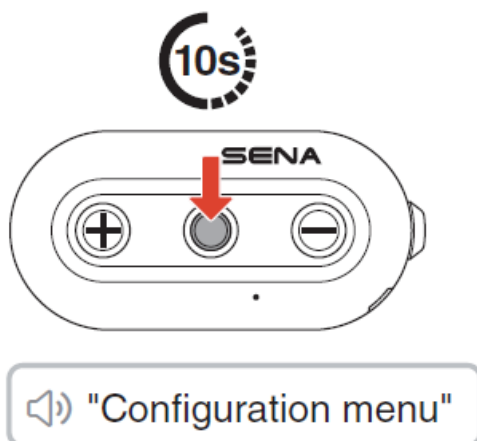## FIRMWARE UPDATE

Over-The-Air (OTA) Update

- You can update the firmware via Over-The-Air (OTA) directly from the settings in the Sena Motorcycles app.
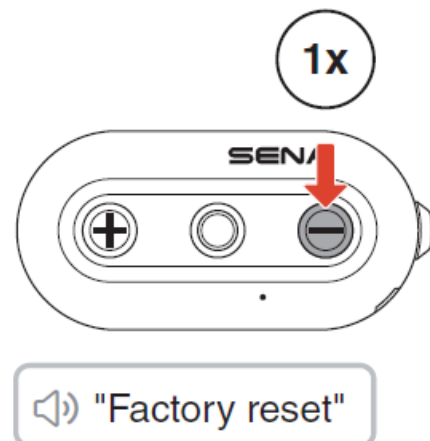
TROUBLESHOOTING

Factory Reset

- To restore the CAVALRY 2 to its factory default settings, simply use the factory reset feature.

1.

10s

🔊 "Configuration menu"

2.

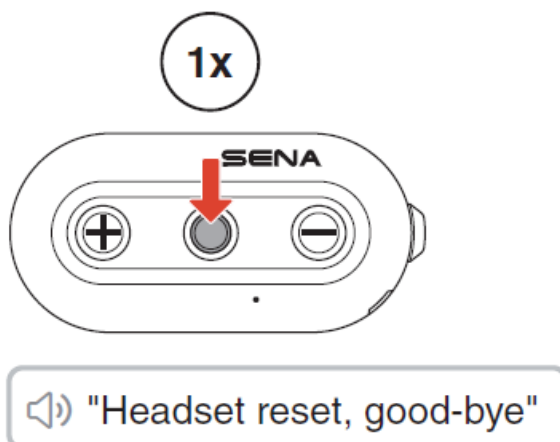
1x

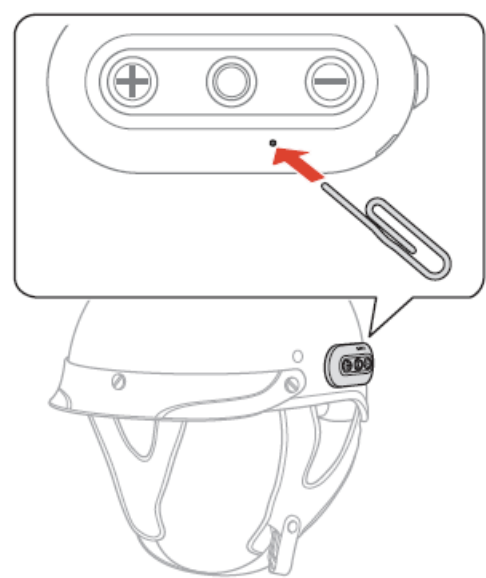🔊 "Factory reset"

3.

1x

🔊 "Headset reset, good-bye"

Fault Reset

- If the CAVALRY 2 is on but not responding, you can perform a fault reset to restore normal functionality.
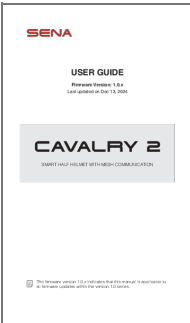- Use a clip to press the reset pinhole below the center button.

- All settings will remain unchanged.

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Documents / Resources

	[**SENA CAVALRY-2 Smart Half Helmet With Mesh Communication**](#) [pdf] User Guide CAVALRY-2 Smart Half Helmet With Mesh Communication, CAVALRY-2, Smart Half Helmet With Mesh Communication, Helmet With Mesh Communication, Mesh Communication

References

- [**User Manual**](#)