

## **USER GUIDE**

Firmware Version: 1.2.x Last updated on Oct 13, 2025

## CAVALRY 2

SMART HALF HELMET WITH MESH COMMUNICATION





## **QUICK REFERENCE**

Туре	Operation	Button	Duration
Basic operations	Power on	© & <b>+</b>	Press for 1 second
	Power off	© & <b>+</b>	Single tap
	Volume up/down	<b>→</b> or <b>⊝</b>	Single tap
Phone	Phone pairing	©	Press for 5 seconds
	Answer phone call	©	Single tap
	End phone call	©	Press for 2 seconds
	Reject phone call	©	Press for 2 seconds
	Activate voice assistant	©	Press for 3 seconds
	Speed dial	•	Press for 3 seconds
	Play/Pause music	©	Press for 1 second
	Track forward/back	<b>•</b> or <b>-</b>	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
Wave Intercom™	Wave Intercom on	M	Double tap
	Wave Intercom off	M	Single tap
	Switch to Mesh Intercom	©	Single tap
Configuration menu		©	Press for 10 seconds



## **BEFORE GETTING STARTED**

#### Sena Motorcycles App

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





#### WAVE Intercom App

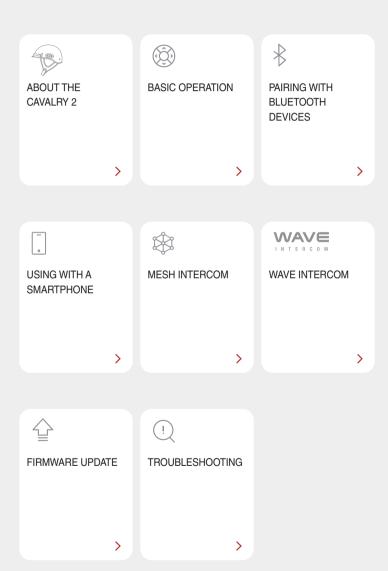
Download the WAVE Intercom app from the Google Play Store or the App Store.





For detailed information on the Wave Intercom, please refer to the Wave Intercom User Guide at  $\underline{\text{sena.com}}$ .

## CLICK ANY SECTION TO BEGIN

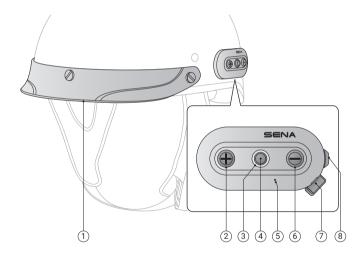




## **11** ABOUT THE CAVALRY 2

#### **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
- Wave Intercom Compatible
- 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
- ® Mesh Intercom button



## Package Contents



CAVALRY 2



USB-C charging cable



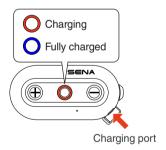
Helmet pouch



## **02 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	
O	LED	

#### Charging



It takes 2.5 hours to fully charge.

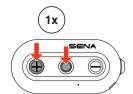
- The CAVALRY 2 automatically powers off during charging for safety reasons.
- Any third-party USB charger can be used, as long as it is approved by the FCC, CE, IC, or other locally recognized regulatory agencies.
- Using a non-approved charger may cause fire, explosion, leakage, and other hazards,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



#### Power On



#### Power Off



#### Volume



## Configuration

#### **Enter Configuration**

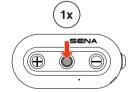


## ্ৰ) "Configuration menu"

#### **Navigate**



#### Confirm



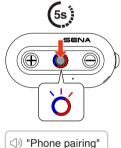


# PAIRING WITH BLUETOOTH DEVICES

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.



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.



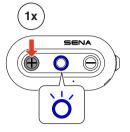
## **Second Mobile Phone Pairing**

1.



() "Configuration menu"

2.



⟨⟩⟩ "Second mobile phone pairing"

3.



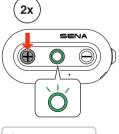
#### **GPS Pairing**

1.



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2.



্ৰ) "GPS pairing"

3.

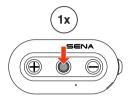




## **04 USING WITH A SMARTPHONE**

## **Making and Answering Calls**

Answer a Call



End a Call



Reject a Call



Activate Voice Assistant





#### **Speed Dial**

#### Assign Speed Dial Presets

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

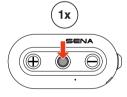
#### Use Speed Dial Presets

- 1. Enter the speed dial menu.
- 2. Navigate forward or backward through speed dial preset.





- ① Last number redial
- ② Speed dial  $(1\rightarrow2\rightarrow3)$
- ③ Cancel
- 3. Tap the center button to confirm.



্ৰ) "Speed dial(#)"

#### Music

#### ■ Play/Pause Music



#### Track Forward/Backward



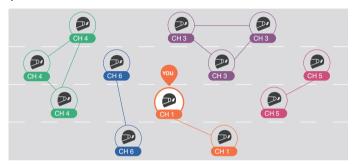


## **05 MESH INTERCOM**

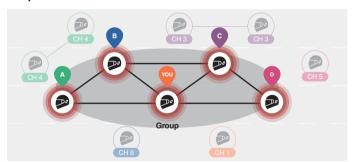
The CAVALRY 2 provides two Mesh Intercom modes:

- Open Mesh<sup>™</sup> for open group intercom conversations.
- Group Mesh<sup>™</sup> for private group intercom conversations.

#### **Open Mesh**



#### **Group Mesh**





#### **Mesh Version Switch**

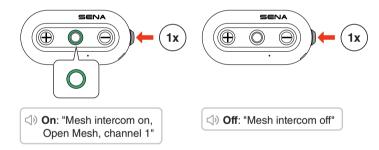
#### Switch to Mesh 2.0 for Backward Compatibility

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



#### Mute/Unmute Mic

Press the Mesh Intercom button for 1 second to mute/unmute the microphone during Mesh Intercom communication.





#### Channel Selection

1. Enter the channel setting.



3. Confirm and save the 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



 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.

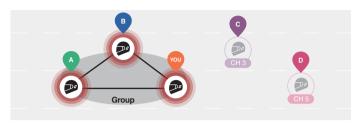


 If the mesh grouping is not successfully completed within 30 seconds, users will hear a voice prompt saying, "Grouping failed."



#### 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.



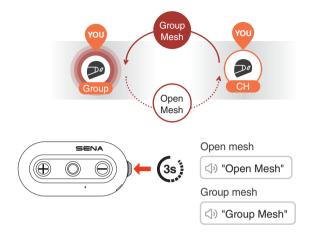
New participants (C and D)

 If the mesh grouping is not successfully 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.





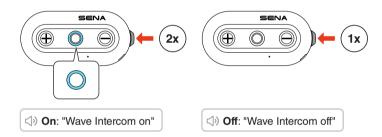
## **06 WAVE INTERCOM**

Wave Intercom enables open communication using cellular data. For detailed information, please refer to the Wave Intercom User Guide on sena.com.

#### Wave Intercom On/Off

Open the WAVE Intercom app, then double-tap the Mesh Intercom button to join Wave Intercom.

• You must open the app before starting Wave Intercom.



When you start Wave Intercom, you will automatically connect with users in the Wave Zone. The Wave Zone covers a 1-mile radius in North America and a 1.6-km radius in Europe.

To end Wave Intercom, single-tap the Mesh Intercom button.



#### Switch between Wave Intercom and Mesh Intercom

You can easily switch between Mesh Intercom and Wave Intercom with a single tap on the center button.



- ()) Wave to Mesh: "Wave Intercom off. Mesh Intercom on."
- (1) Mesh to Wave: "Mesh Intercom off. Wave Intercom on."

## **07 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.

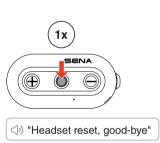
1.



2.



3.

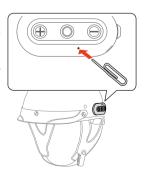


#### Fault Reset

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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