SENA

USER GUIDE

Firmware Version: 1.0.x

Last updated on Dec 17, 2024

60S

MOTORCYCLE MESH COMMUNICATION SYSTEM

SOUND BY harman/kardon®

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

QUICK REFERENCE

P : Phone button
M : Mesh Intercom button
J : Jog dial
F : Flashlight button

Type	Operation	Button	Duration
Basic Operations	Power on	P & J	Press for 1 second
	Power off	P & J	Single tap
	Volume up/down	J	Rotate
Flashlight	Flashlight on/off	F	Single tap
Phone	Phone pairing	P	Press for 5 seconds
	Answer phone call	P or J	Single tap
	End phone call	P	Single tap
		J	Press for 2 seconds
	Reject phone call	J	Press for 2 seconds
	Speed dial	P	Double tap
	Play/Pause music	J	Press for 1 second
	Track forward/back	J	Rotate while pressing
Siri or Google Assistant	Activate Siri or Google Assistant	P	Single tap
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		J	Press for 10 seconds
Factory reset		P	Press for 10 seconds
To confirm		J	Single tap
To cancel		P	Single tap
Fault reset		P & J	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.

Find the Wave Intercom User Guide in the WAVE Intercom app or download it from sena.com.

CLICK ANY SECTION TO BEGIN

ABOUT THE 60S

INSTALLATION

BASIC OPERATION

FLASHLIGHT

RIDEGLOW LED

PAIRING WITH BLUETOOTH DEVICES

USING WITH A SMARTPHONE

MESH INTERCOM™

BLUETOOTH INTERCOM

UNIVERSAL INTERCOM

INTERCOM GATEWAY

AUDIO MULTITASKING

FM RADIO

VOICE COMMAND

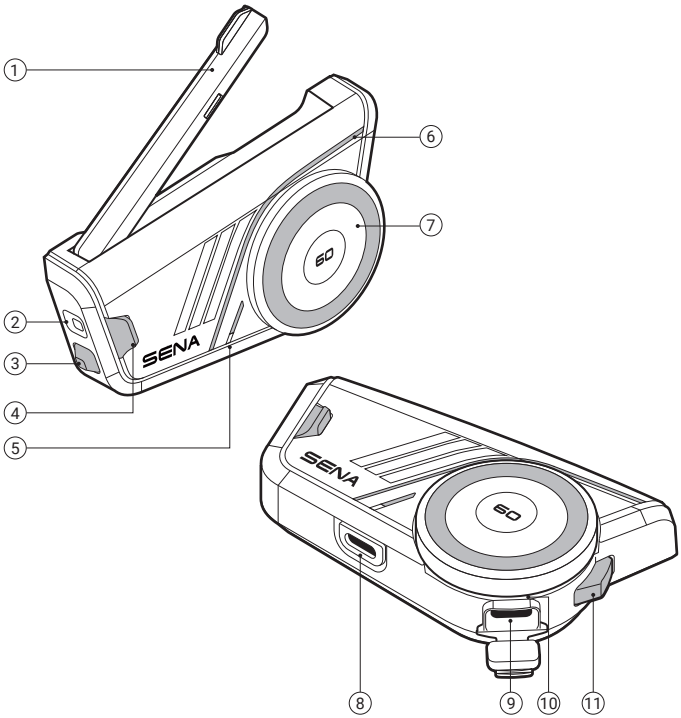
FIRMWARE UPDATE

TROUBLESHOOTING

01 ABOUT THE 60S

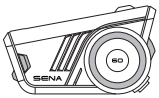
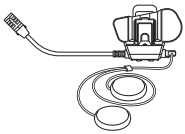
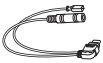
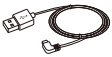
Key Features

- 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
- Dual-core CPU with parallel architecture - maximizes performance for simultaneous connections to multiple devices and enhances audio multitasking capabilities
- AI-based noise cancellation
- Enhanced voice command
- Second-generation premium audio by Harman Kardon
- Two sets of helmet clamp kits include two sets of speakers and three sets of microphones
- Interchangeable faceplates
- Dynamic LED and integrated flashlight
- Magnetic mount
- IPx7 waterproof rating
- Bluetooth version 5.3
- Over-The-Air (OTA) firmware update



①	Mesh Intercom antenna
②	Flashlight
③	Flashlight button
④	Mesh Intercom button
⑤	Status LED
⑥	Dynamic LED
⑦	Jog dial
⑧	Speakers & microphone connection
⑨	USB-C charging port
⑩	Charging LED
⑪	Phone button

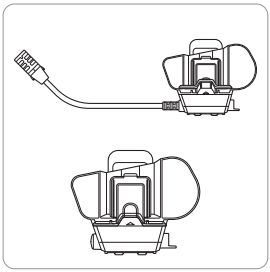
Package Contents

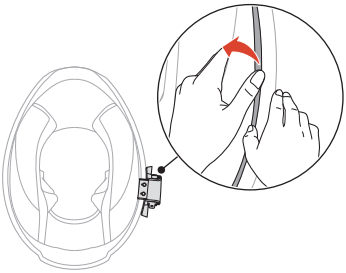
 60S	× 3 Interchangeable faceplates	 Helmet clamp #1	Helmet clamp #2
Glued surface mounting plate	Double sided adhesive tapes	× 2 Speaker pads	× 4 Velcro pads for speakers
Wired-boom microphone	Wired microphone	× 4 Microphone sponges	Velcro pad for wired-boom microphone
Velcro pad for wired microphone	Wired-boom microphone holder	Velcro pad for wired-boom microphone holder	Magnetic cover for helmet clamp
 3.5 mm audio adapter	 USB-C charging cable		

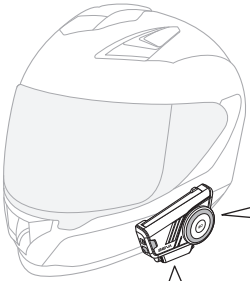
02 INSTALLATION

Main Unit & Clamps

Helmet Clamp







Installation

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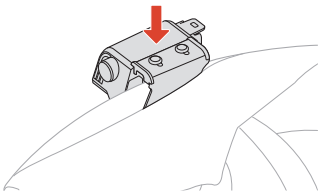

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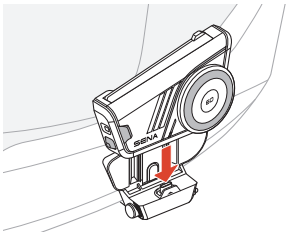
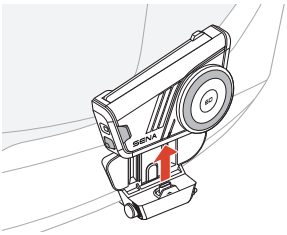


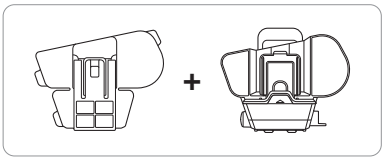
Removal



Simply push the main unit upward firmly.

The main unit easily attaches using magnets.

Glued Surface Mounting Plate



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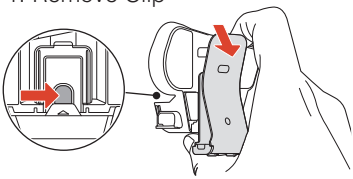
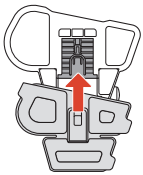
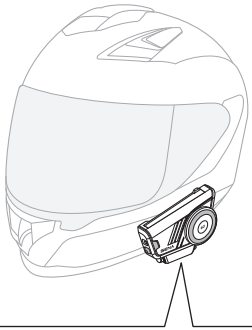


2. Insert Plate





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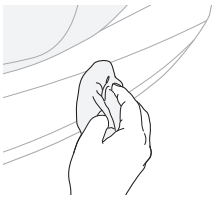

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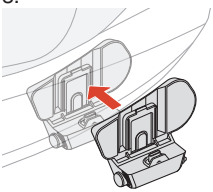
3.



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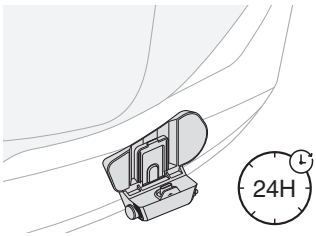

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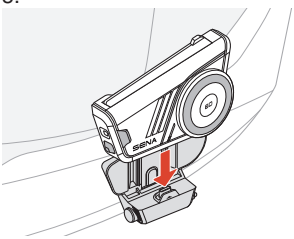
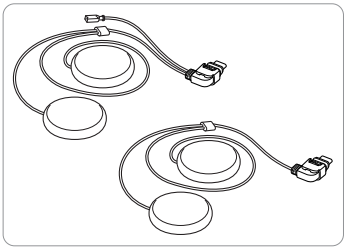


Speakers



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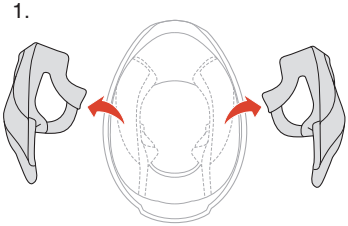

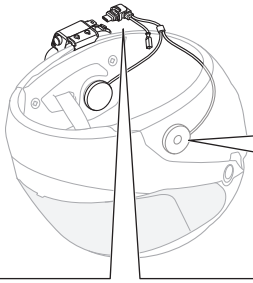

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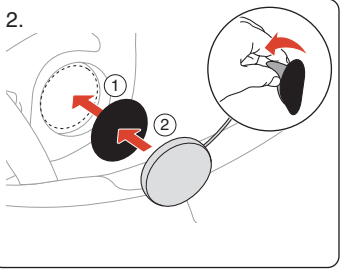
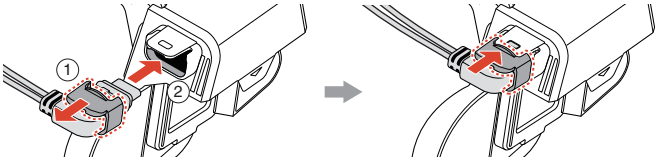


Installation



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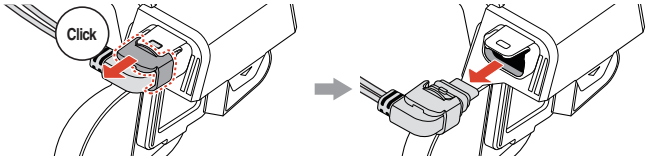
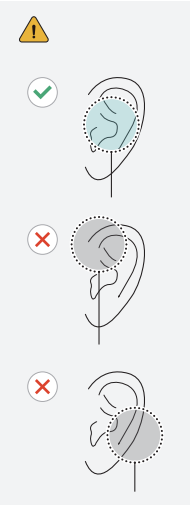
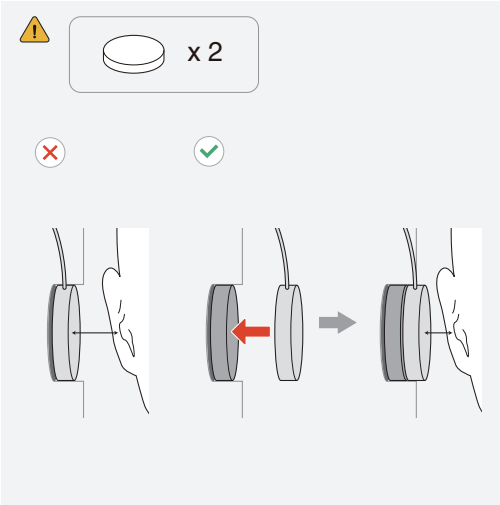
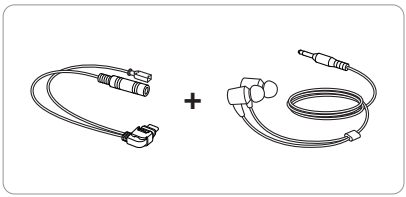


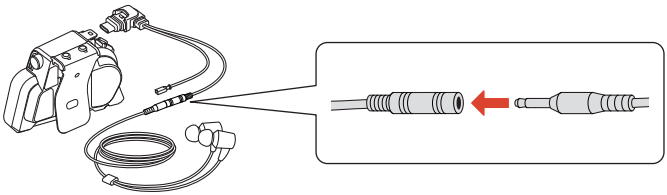




3.5 mm Audio Adapter



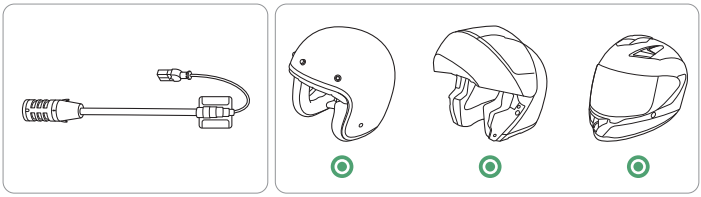
Earbuds with 3.5 mm audio connector (Not included)

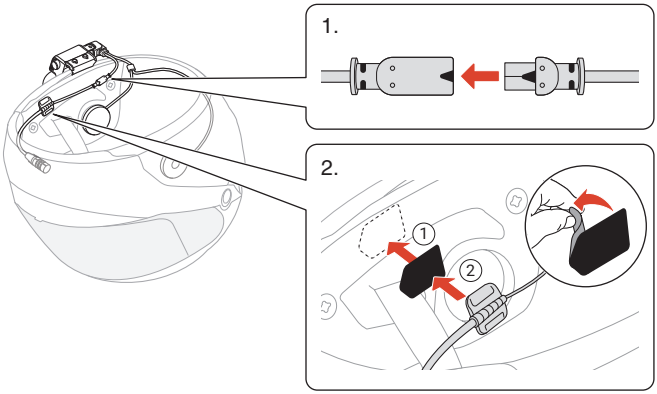


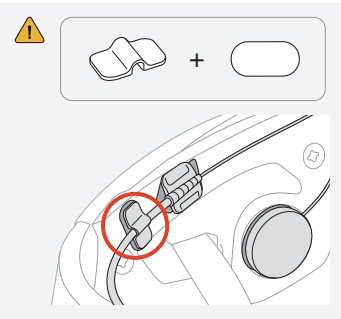
- Compatible Active Noise Cancellation (ANC) earbuds are available for separate purchase. For more information, visit sena.com.

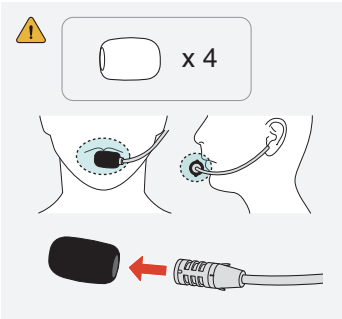
Microphone

Wired-Boom Microphone

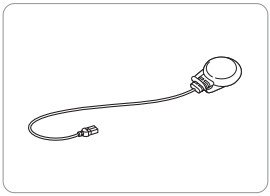


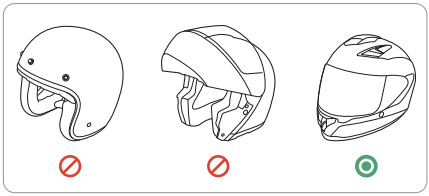


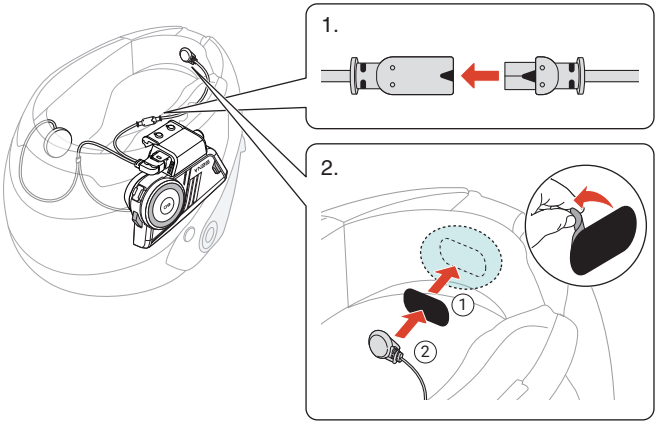




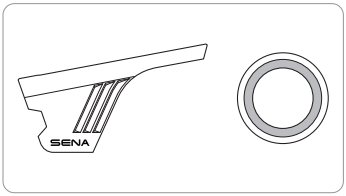
Wired Microphone







Interchangeable Faceplates



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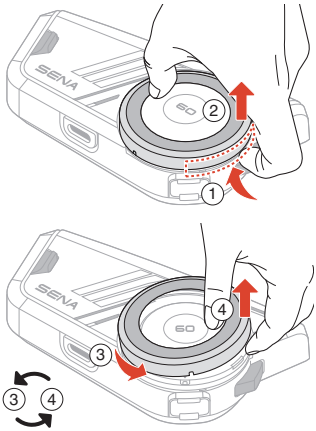
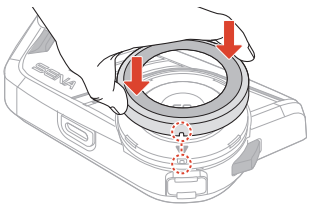
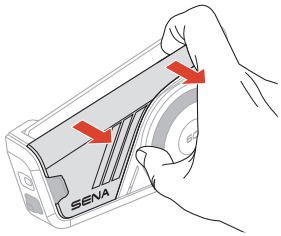


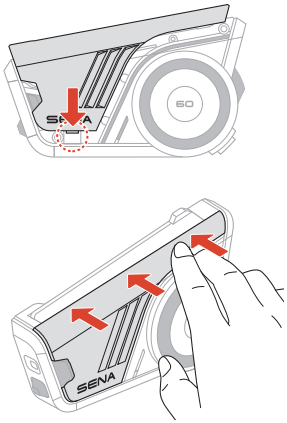
Installation

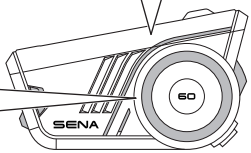


Removal



Installation

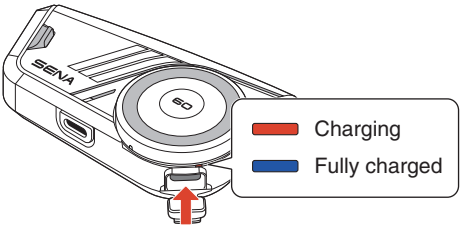




03 BASIC OPERATION

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
/	Rotate Rotate the jog dial
/	Rotate while Pressing Rotate while pressing the jog dial
" "	Voice Prompt
" "	Voice Command
NA	LED

Charging

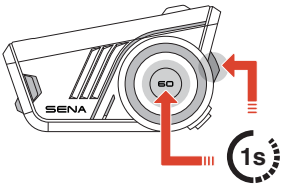


Charging port

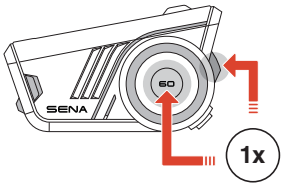
It takes 1.5 hours to fully charge.

- The 60S features fast charging, delivering 4.0 hours of Mesh Intercom and 6.0 hours of Bluetooth intercom with just a 20-minute charge.
- 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.

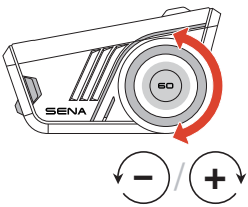
Power On



Power Off

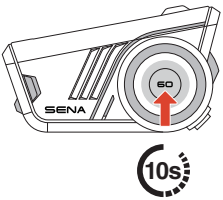


Volume



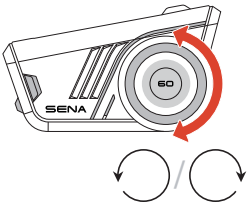
Configuration

Enter Configuration

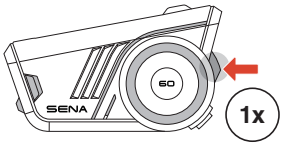


"Configuration menu"

Navigate



Confirm

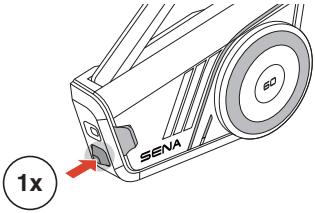


04 FLASHLIGHT

⚠

In some regions, local laws and regulations restrict the use of LEDs on helmets. Therefore, ensure you are familiar with and comply with the relevant laws and regulations in the area where you use the helmet.

Flashlight On/Off



On: "Flashlight On"

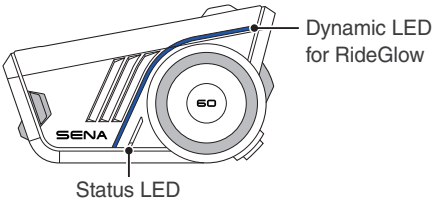
Off: "Flashlight Off"

- The flashlight will automatically turn off approximately 5 minutes after being turned on.

05 RIDEGLOW LED

The RideGlow feature of the 60S elevates your riding experience with dynamic LED lights that clearly indicate the device's current status and user inputs.

You can easily customize the brightness and behavior of the RideGlow LEDs through the Sena Motorcycles app, allowing you to tailor the experience to your preferences.

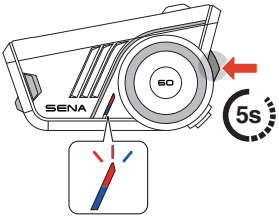


06 PAIRING WITH BLUETOOTH DEVICES

When using the 60S with other Bluetooth devices for the first time, they need to be paired. The 60S 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.

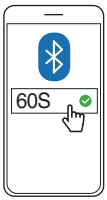
Phone Pairing

1.



"Phone pairing"

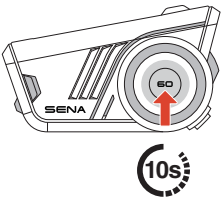
2.



- When you turn on the 60S for the first time or reboot it after a factory reset, the 60S will automatically enter phone pairing mode.
- To cancel phone pairing, press any button.

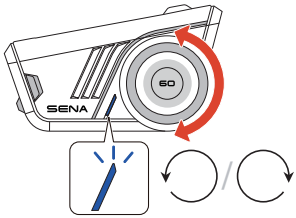
Second Mobile Phone Pairing

1.



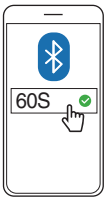
"Configuration menu"

2.



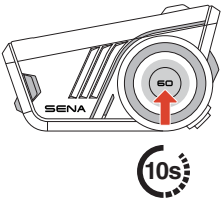
"Second mobile phone pairing"

3.



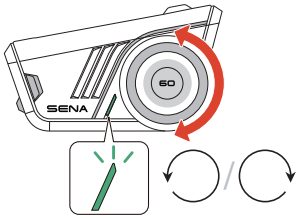
GPS Pairing

1.



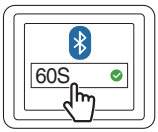
"Configuration menu"

2.



"GPS pairing"

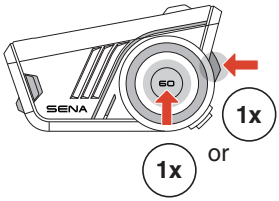
3.



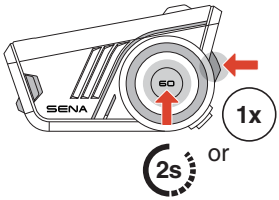
07 USING WITH A SMARTPHONE

Making and Answering Calls

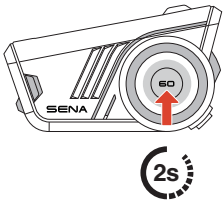
Answer a Call



End a Call



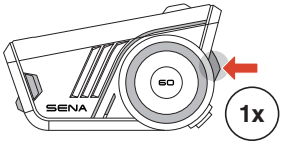
Reject a Call



Siri or Google Assistant

Say “Hey Siri”, “Hey Google,” or tap the phone button to activate Siri or Google Assistant.

"Hey Google" or "Hey Siri" or



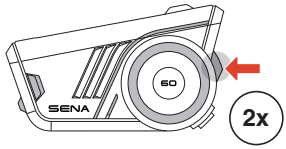
Speed Dial

Assign Speed Dial Presets

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

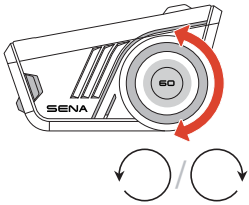
Use Speed Dial Presets

1. Enter into the speed dial menu.



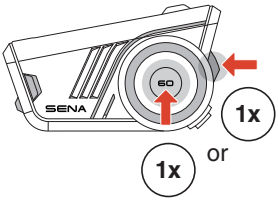
"Speed dial"

2. Navigate forward or backward through speed dial preset.



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

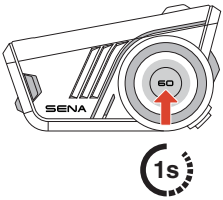
3. Tap the phone button or jog dial to confirm.



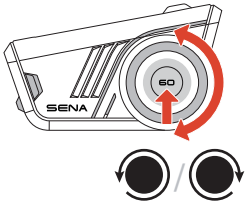
"Speed dial(#)"

Music

Play/Pause Music



Track Forward/Backward

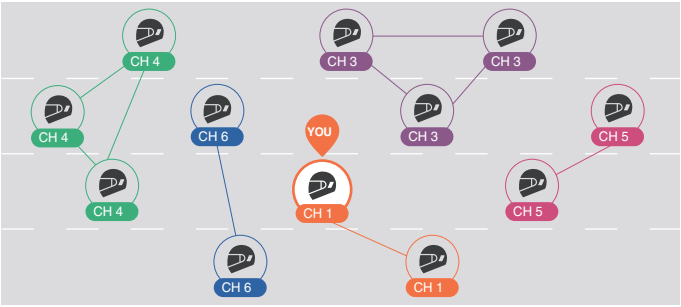


08 MESH INTERCOM™

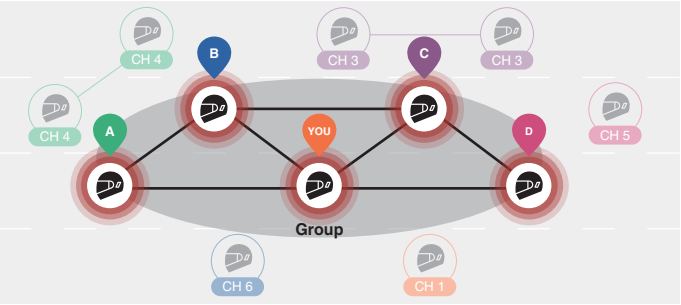
The 60S provides two Mesh Intercom modes:

- 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

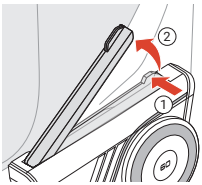
Mesh 3.0 is the latest Mesh Intercom technology, but to communicate with legacy products using Mesh 2.0, please switch to Mesh 2.0 using the Sena Motorcycles app.

Open Mesh

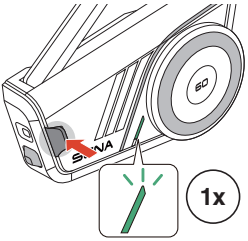
You can freely communicate with virtually unlimited users in each of the 6 available channels. The default Mesh Intercom channel is 1.

Mesh Intercom Antenna

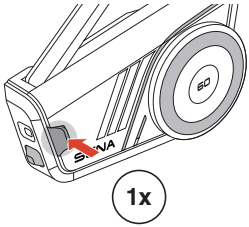
Unfold the antenna before using the Mesh Intercom.



Mesh Intercom On/Off



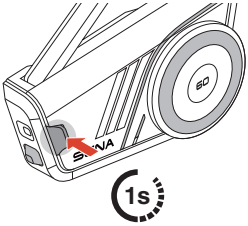
On: "Mesh intercom on, Open Mesh, channel 1"



Off: "Mesh intercom off"

Mute/Unmute Mic

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

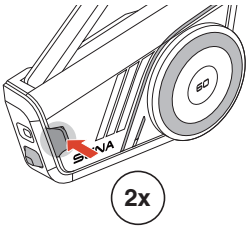


Mute: "Mic off"

Unmute: "Mic on"

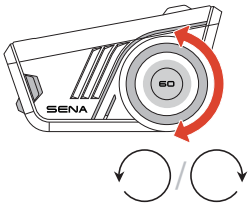
Channel Selection

1. Enter into the channel setting.



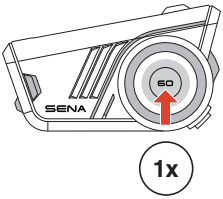
"Channel setting, 1"

2. Navigate between channels.



"#"

3. Confirm and save the channel.



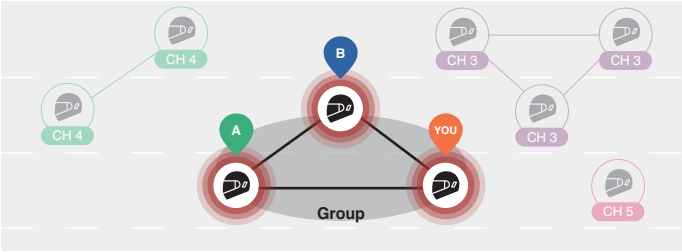
"Channel is set, channel #"

- 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 60S is turned off.

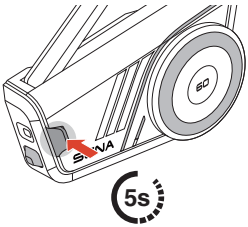
Group Mesh

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.

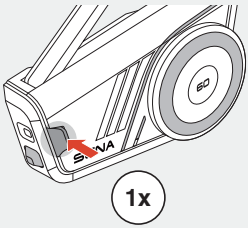


"Mesh grouping"

2. When mesh grouping is completed, it automatically switches from open mesh to group mesh.

"Group Mesh"

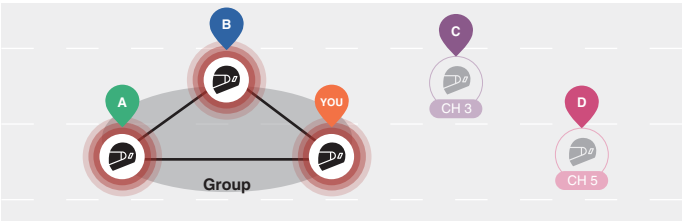
- If you want to cancel mesh grouping, tap the Mesh Intercom button.



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

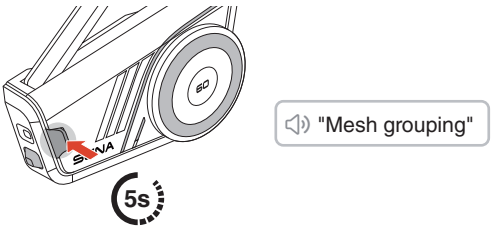
Join an Existing Group Mesh

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.

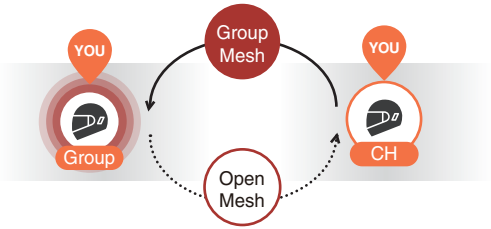
"Group Mesh"

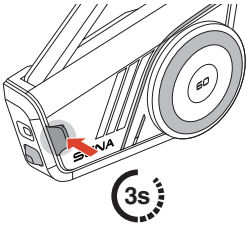
New participants (C and D)

- 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.





Open mesh

"Open Mesh"

Group mesh

"Group 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.”

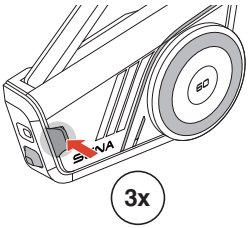
Mesh Reach-Out Request

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.

Caller



Caller: "Mesh reach-out request"

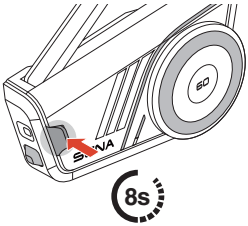
Nearby Friends: "Mesh intercom requested"

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 60S resets the mesh while in open mesh or group mesh, it will automatically return to open mesh, channel 1.



"Reset Mesh"

09 BLUETOOTH INTERCOM

Bluetooth Intercom Pairing

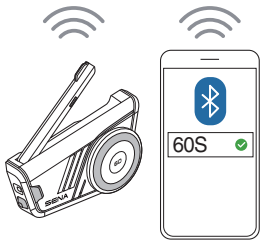
To have a Bluetooth intercom conversation, you need to pair with the other Sena headset users. The other user's headset will be added to the intercom pairing list of your 60S, and vice versa.

You can add up to 3 headsets to the Bluetooth intercom pairing list, regardless of the headset model.

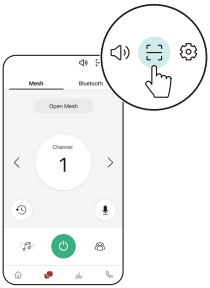
Using Smart Intercom Pairing (SIP)

SIP allows you to quickly pair with your friends for intercom communication by scanning a QR code on the Sena Motorcycles app.

1. Pair the mobile phone with the 60S.



2. Open the Sena Motorcycles app and tap for both users.



3. Scan the QR code on the other user's app screen.

4. Tap Save and go to the Pairing List tab on the app screen to check if the other headset is listed correctly.

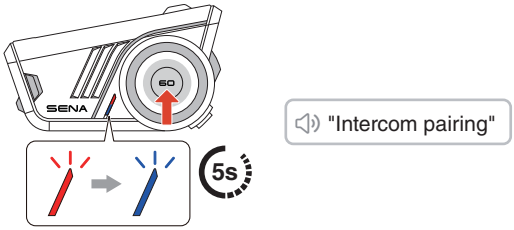
5. Go back to the Scan QR Code tab and repeat the process to pair with another Sena headset.

- Smart Intercom Pairing (SIP) is compatible with product models featuring Bluetooth version 3.0 or later. For more information, visit sena.com.

Using Buttons

Bluetooth intercom pairing by SIP is highly recommended, but you can also pair with the other headsets using the button on the 60S.

1. You and the other user enter intercom pairing mode by pressing the jog dial for 5 seconds.



2. Wait for a moment until both headsets are paired automatically. It can take some time depending on the surrounding wireless signals, such as Wi-Fi.

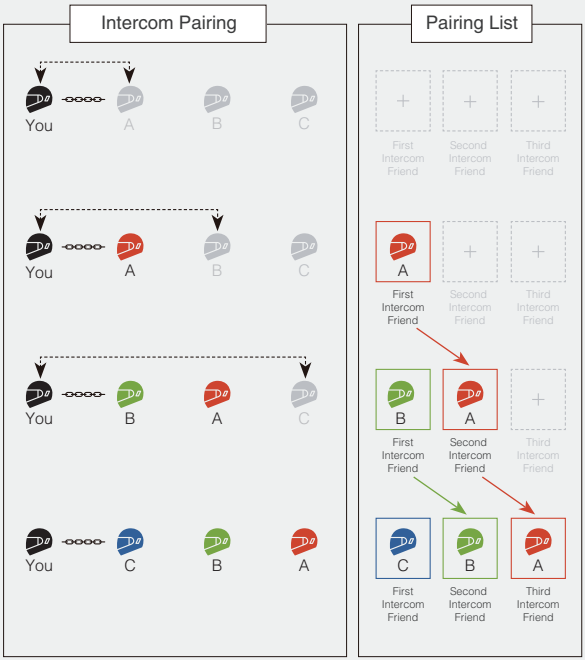
3. To cancel the intercom pairing, press the jog dial on the 60S.

4. A Bluetooth intercom conversation is automatically established as soon as both headsets are paired successfully.

5. To pair with another headset, please repeat the process above.

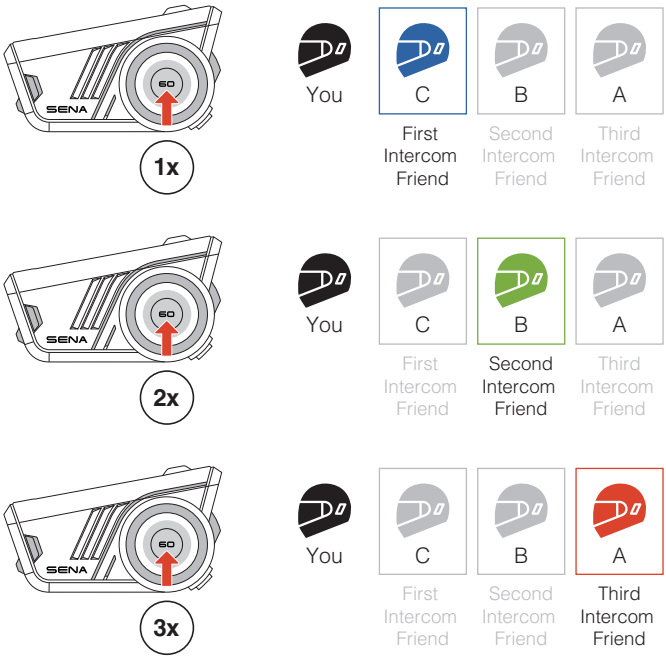
Bluetooth Intercom Pairing List

- Paired headsets are added to the Bluetooth intercom pairing list of your 60S. Tap on the Sena Motorcycles app to check the list.
- The intercom pairing list queue operates on a last-come, first-served basis. If your 60S has multiple paired headsets for intercom conversations, the last paired headset is set as the first intercom friend.



Two-Way Intercom

Start/End Conversation with the Intercom Friend



HD Intercom

Two-way Bluetooth intercom always operates in HD mode to enhance the intercom audio quality. The HD mode will be temporarily disabled when you enter a multi-way intercom.

Multi-Way Intercom

Multi-way intercom enables conference-call-style conversations with up to three other intercom friends simultaneously.

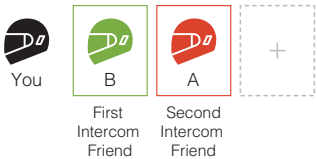
Technically, a multi-way intercom combines a series of two-way intercoms and shares audio. For example, the three-way intercom combines two independent two-way intercoms, while the four-way intercom combines three.

The 60S maintains a phone connection during multi-way intercom, setting it apart from previous Sena models.

Start a Three-Way Intercom

To start a three-way intercom, one participant has to establish two independent two-way intercoms simultaneously.

1. You already have two other users, A and B, added to your Bluetooth intercom pairing list.



2. You can start an intercom conversation with the first intercom friend, B, by tapping the jog dial once.

3. While maintaining the intercom conversation, you can establish another intercom conversation with the second intercom friend, A, by double-tapping the jog dial. Alternatively, the second intercom friend, A, can start an intercom connection to you.

4. Now you and your two intercom friends, A and B, are having a three-way intercom.

Start a Four-Way Intercom

You can create only up to two independent two-way intercoms. Therefore, to create a four-way intercom, two participants must establish two independent two-way intercoms and combine them.

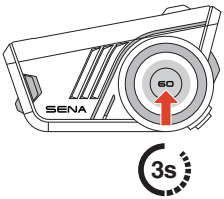
While you, A, and B are having a three-way intercom as described in the section above, one of the participants, A, must create a two-way intercom with another user, C.

You and three other users, A, B, and C, now have a four-way intercom.

End Multi-Way Intercom

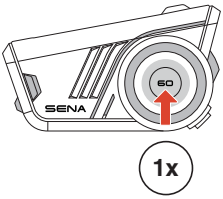
You can completely terminate the multi-way intercom or disconnect just a specific intercom connection with one of the participants.

Terminate All Intercom Connections

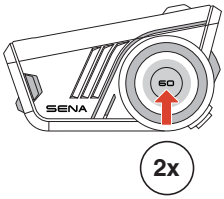


Disconnect a Specific Intercom Connection with One of the Participants

[Disconnect B,
First Intercom Friend]



[Disconnect A,
Second Intercom Friend]



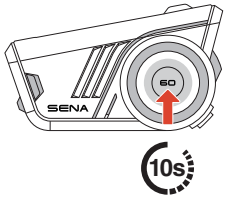
- When you disconnect the second intercom friend, A, during the four-way intercom, you will also be disconnected from the third participant, C. This is because the third participant, C, is connected to you via the second intercom friend, A.

10 UNIVERSAL INTERCOM

Universal intercom allows you to have intercom conversations with headsets from other brands as long as they support Bluetooth Hands-Free Profile (HFP).

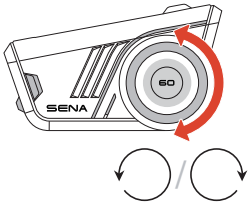
Universal Intercom Pairing

1.



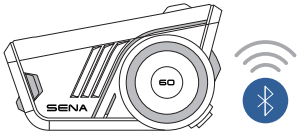
"Configuration menu"

2.



"Universal intercom pairing"

3.



4. Put the headset from another brand in phone pairing mode and wait a moment until the 60S automatically pairs with it.

The universal intercom conversation is automatically established as soon as both headsets are paired successfully.

Start/End Universal Intercom Conversation

The headset from another brand has now been added to your 60S intercom pairing list, allowing you to start and end universal intercom conversations just as easily as you would with Sena headsets.

A headset from another brand can join a multi-way intercom, but only one non-Sena headset can have a direct intercom connection with the 60S.

Below are examples of the four-way Bluetooth intercoms with universal intercom included.

Case 1. Three Sena headsets and one from another brand.

Case 2. Two Sena headsets and two from other brands.

- Not all headsets from other brands support multi-way intercom. For details, please refer to the manual for headsets from other brands.

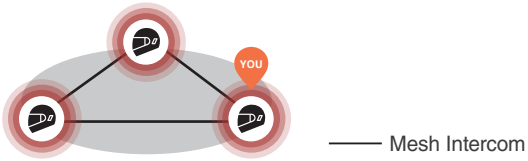
11 INTERCOM GATEWAY - A BRIDGE TO MESH INTERCOM

The 60S serves as a gateway to bridge Mesh Intercom with other intercom types, such as Bluetooth intercom or universal intercom. It supports two simultaneous connections: Mesh Intercom plus either Bluetooth intercom or universal intercom.

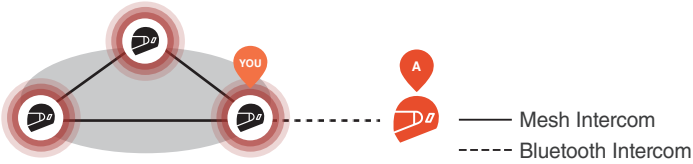
While in open or group Mesh Intercom, you can easily initiate a bridge to either Bluetooth intercom or universal intercom.

Mesh Intercom with Bluetooth Intercom

1. Tap the Mesh Intercom button to turn on the Mesh Intercom and join the open Mesh Intercom. You can stay in open mesh or create a group Mesh Intercom.

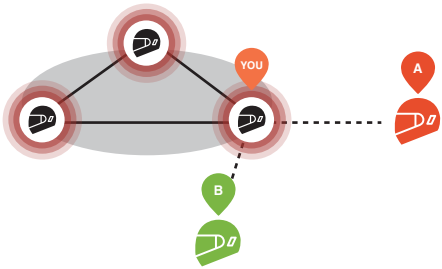


2. Start a Bluetooth intercom with your friend, A.

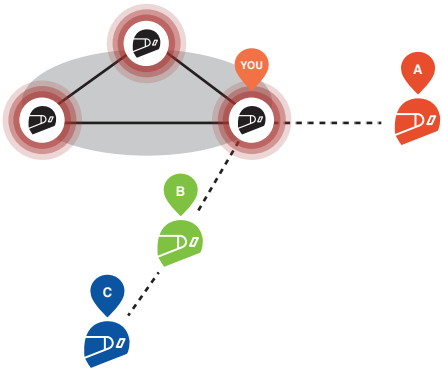


Mesh Intercom and Two-Way Bluetooth Intercom

3. You can establish a multi-way intercom. The audio quality will be reduced in multi-way intercom while staying in Mesh Intercom.



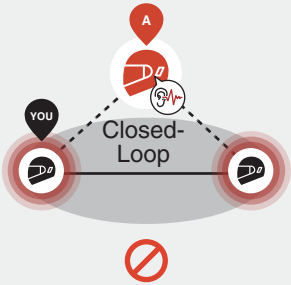
Mesh Intercom and Three-Way Intercom



Mesh Intercom and Four-Way Intercom

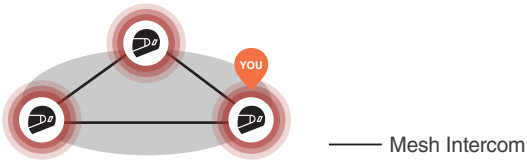
A Closed-Loop Warning

- When the 60S serves as a gateway, a closed-loop intercom can be mistakenly created by connecting two Mesh Intercom participants with one Bluetooth intercom user. This will cause excessive audio noise for all participants.
- Please be aware not to create a closed-loop connection under any circumstances.

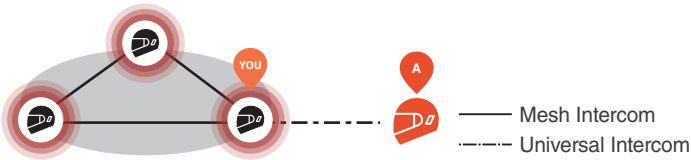


Mesh Intercom with Universal Intercom

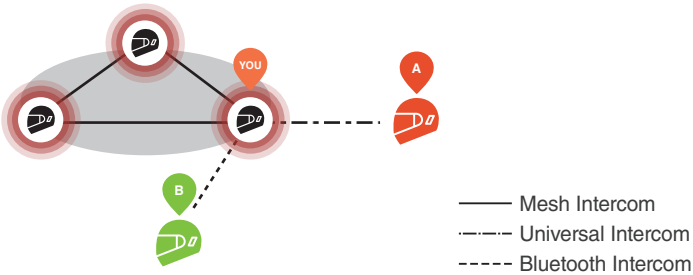
1. Tap the Mesh Intercom button to turn on the Mesh Intercom and join the open Mesh Intercom. You can stay in open mesh or create a group Mesh Intercom.



2. Start a universal intercom with the headset of another brand, B.



3. You can establish a multi-way intercom. The audio quality will be reduced in multi-way intercom while staying in Mesh Intercom.



Mesh Intercom and Three-Way Universal Intercom

12 AUDIO MULTITASKING

Audio multitasking on the 60S allows you to listen to music, GPS turn-by-turn instructions, and FM radio while having a Mesh Intercom or Bluetooth intercom.

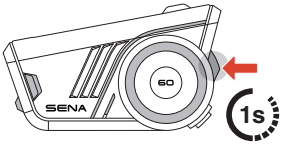
For more details, go to Device Settings on the Sena Motorcycles app to configure the settings.

Background Volume

Background audio, such as music playback, will automatically lower in volume during an active intercom conversation. You can adjust the volume reduction percentage in the app under ‘Background Volume’.

13 FM RADIO

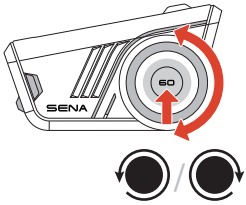
FM Radio On/Off



On: "FM Radio On"

Off: "FM Radio Off"

Seek Stations

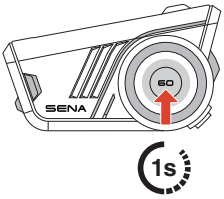


Save to Preset

You can use the Sena Motorcycles app to save the station to your preset stations.

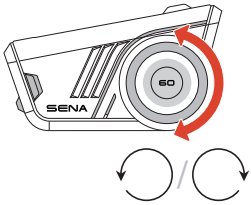
Select Station from Preset

1. Enter into the station selection mode.



"Station Selection Mode"

2. Navigate forward or backward through preset stations.



"Preset (#)"

- If you do not press any button for approximately 10 seconds, or if you press and hold the jog dial for 1 second while in the station selection mode, the headset will exit the station selection mode.

14 VOICE COMMAND

The 60S offers multi-language voice commands in eight different languages, which can be easily set through the Sena Motorcycles app. A complete list of available voice commands is also provided in the Sena Motorcycles app.

To activate voice commands, simply say, “Hey Sena.”

"Hey Sena"

Voice Command List

“Answer”

“Ignore”

“Hey Sena, Check Battery”

“Hey Sena, Volume Up”

“Hey Sena, Volume Down”

“Hey Sena, Phone Pairing”

“Hey Sena, Redial Number”

“Hey Sena, End Call”

“Hey Sena, Play Music”

“Hey Sena, Stop Music”

“Hey Sena, Previous Track”

“Hey Sena, Next Track”

“Hey Sena, FM Radio On”

“Hey Sena, FM Radio Off”

“Hey Sena, End Intercom”

“Hey Sena, Intercom One”

“Hey Sena, Intercom Two”

“Hey Sena, Intercom Three”

“Hey Sena, Mesh On”

“Hey Sena, Mesh Off”

15 FIRMWARE UPDATE

Over-The-Air (OTA) Update

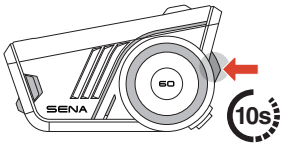
You can update the firmware via Over-The-Air (OTA) directly from the settings in the Sena Motorcycles app.

16 TROUBLESHOOTING

Factory Reset

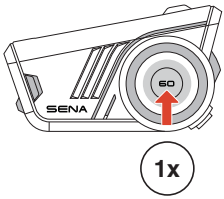
To restore the 60S to its factory default settings, simply use the factory reset feature.

1.



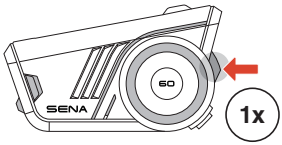
"Factory reset"

2.



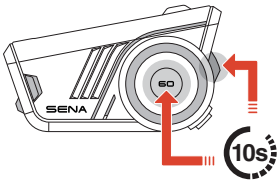
"Headset reset, good-bye"

or



"Cancel"

Fault Reset



If the 60S is on but not responding, you can perform a fault reset to restore normal functionality.

Ensure the USB-C charging cable is disconnected, then press the jog dial and phone button simultaneously for 10 seconds.

All settings will remain unchanged.

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