



USER GUIDE

Firmware Version: 1.1.x

Last updated on Jan 28, 2026


LATITUDE S2


SMART SNOW HELMET WITH COMMUNICATION SYSTEM



The firmware version 1.1.x indicates that this manual is applicable to all firmware updates within the version 1.1 series.

























QUICK REFERENCE

 : (+) button

 : (-) button

 : Mesh Intercom button

 : Multi-function button

Type	Operation	Button	Duration
Basic operations	Power on	 & 	Press for 1 second
	Power off	 & 	Single tap
	Volume up/down	 or 	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	 or 	Press for 1 second
Mesh Intercom™	Mesh Intercom on/off		Single tap
	Mute/unmute mic		Press for 1 second
	Channel selection		Double tap
	Mesh grouping		Press for 5 seconds
	Mesh Reach-Out request		Triple tap
	Reset mesh		Press for 8 seconds
Troubleshooting	Factory reset		Press for 10 seconds
	Fault reset	 & 	Press for 8 seconds

BEFORE GETTING STARTED

I Sena Outdoor App

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



CLICK ANY SECTION TO BEGIN



ABOUT THE
LATITUDE S2



BASIC OPERATION



USING WITH A
SMARTPHONE



MESH INTERCOM



AUDIO
MULTITASKING



FIRMWARE UPDATE



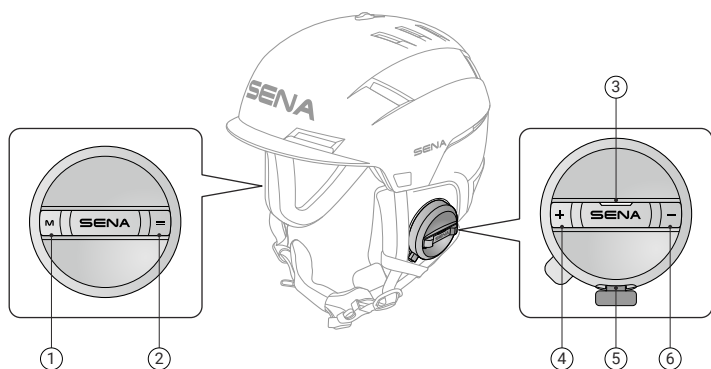
TROUBLESHOOTING



01 ABOUT THE LATITUDE S2

Key Features

- Mesh Intercom 3.0 with improved sound quality, a more robust connection, and extended talk time
- Dual version Mesh: Mesh 2.0 for backward compatibility
- Professional studio quality sound with integrated speakers
- Advanced Noise Control™
- Bluetooth version 5.2
- Over-the-Air (OTA) firmware update



① Mesh Intercom button

③ Status & charging LED

⑤ USB-C charging port

② Multi-function button

④ (+) button

⑥ (-) button

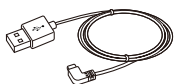
Package Contents



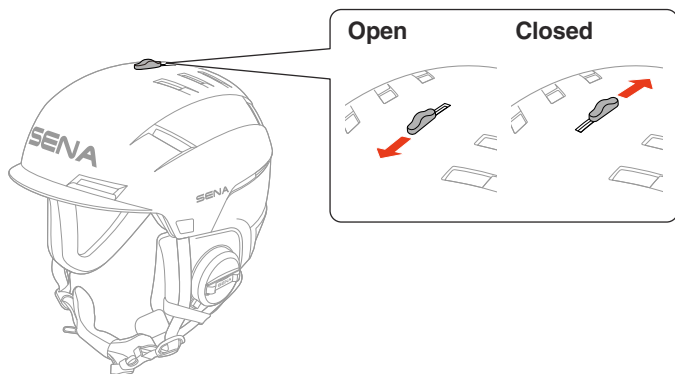
LATITUDE S2







Microphone sponges



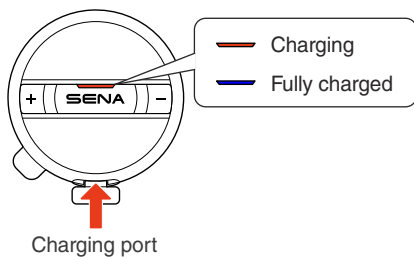
USB-C charging cable



02 BASIC OPERATION

	Tap Tap the button the specified number of times
	Press and Hold Press and hold the button for the specified amount of time
	Voice Prompt
	LED

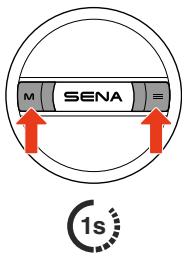
Charging



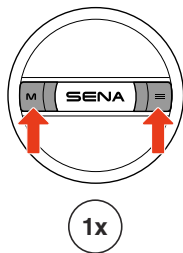
It takes 2.5 hours to fully charge.

- Safe power mode provides continuous power without battery charging to ensure safe, uninterrupted use on the road.
- 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.

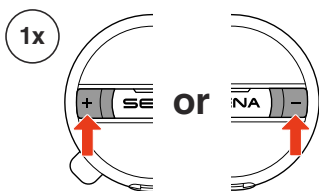
Power On



Power Off



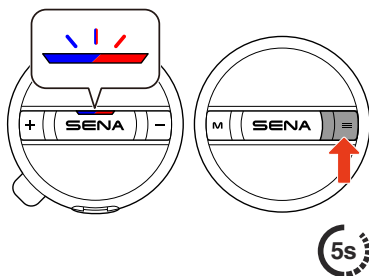
Volume



03 USING WITH A SMARTPHONE

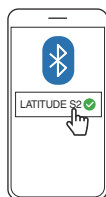
Phone Pairing

1.



 "Phone pairing"

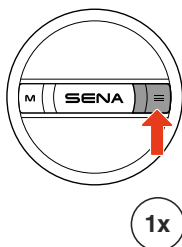
2.



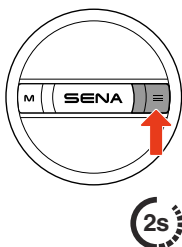
- When you turn on the LATITUDE S2 for the first time or reboot it after a factory reset, the LATITUDE S2 will automatically enter phone pairing mode.
- To cancel phone pairing, press any button.

Making and Answering Calls

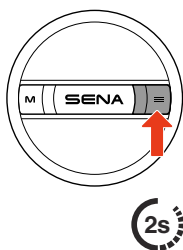
Answer a Call



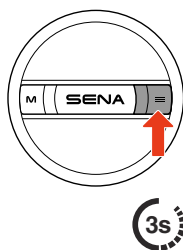
End a Call



Reject a Call



Activate Voice Assistant



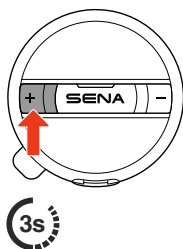
Speed Dial

Assign Speed Dial Presets

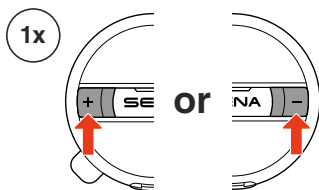
Speed dial presets can be assigned using the Sena Outdoor app.

Use Speed Dial Presets

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

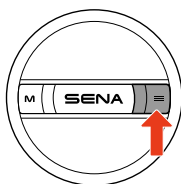


"Speed dial"



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

3. Tap the multi-function button to confirm.

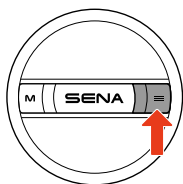


"Speed dial(#)"

1x

Music

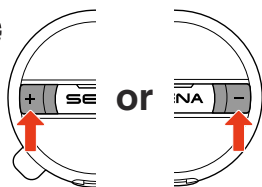
Play/Pause Music



1s

Track Forward/Backward

1s

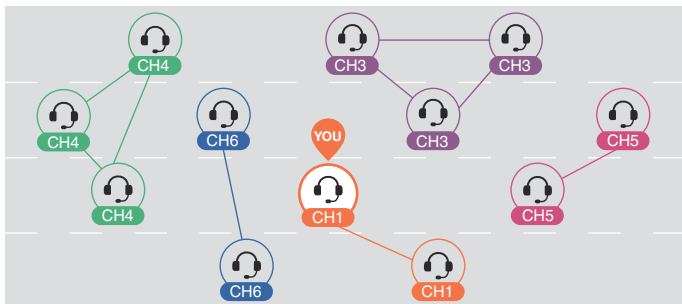


04 MESH INTERCOM

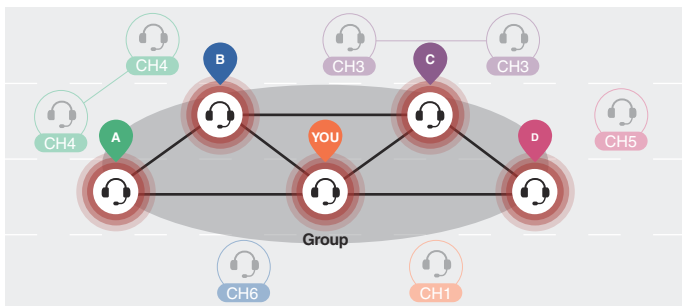
The LATITUDE S2 provides two Mesh Intercom modes:

- Open Mesh™ for open group intercom conversations.
- Group Mesh™ for private group intercom conversations.

Open Mesh



Group Mesh



Mesh Version Switch

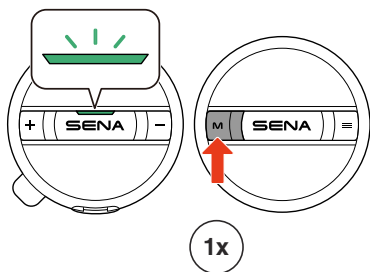
Switch to Mesh 2.0 for Backward Compatibility

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 Outdoor app.

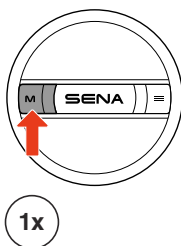
Open Mesh

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



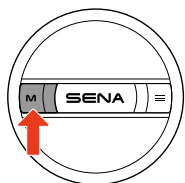
On: "Mesh intercom on,
Open Mesh, channel 1"



Off: "Mesh intercom off"

Mute/Unmute Mic

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

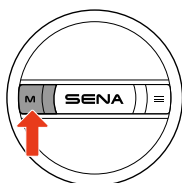


Mute: "Mic off"

Unmute: "Mic on"

Channel Selection

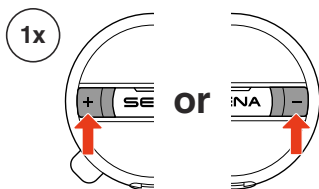
1. Enter the channel setting.



2x

"Channel setting, 1"

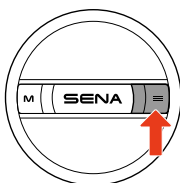
2. Navigate between channels.



1x

"#"

3. Confirm and save the channel.



1x

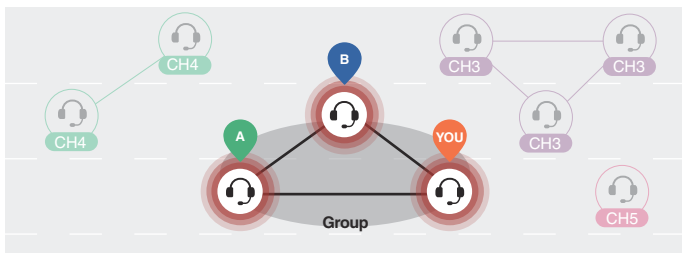
"Channel is set, channel #"

- 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 LATITUDE S2 is turned off.

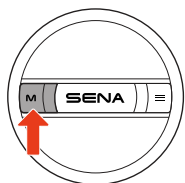
Group Mesh

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.



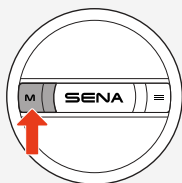
"Mesh grouping"



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.

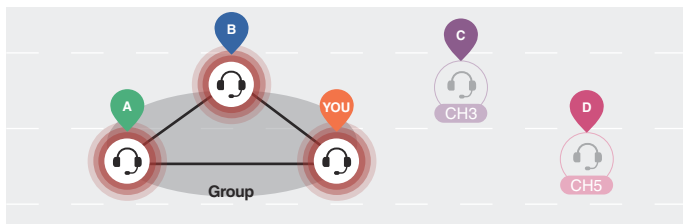


1x

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

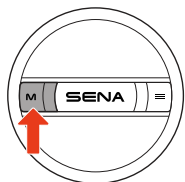
Join an Existing Group Mesh

When 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.



"Mesh grouping"

5s

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

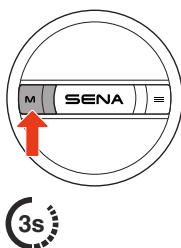
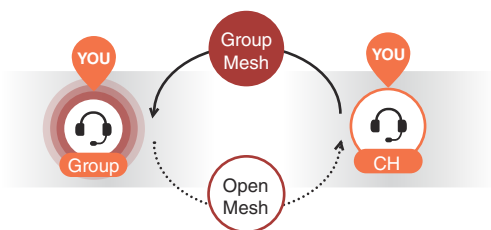
🔊 "Group Mesh"

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"

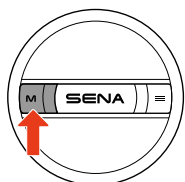
- If you have never participated in group mesh, you cannot toggle between open mesh and group mesh. You will hear a voice prompt saying, "No group available."

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 Outdoor app.
2. You can send a Mesh Reach-Out request using the Mesh Intercom button or the Sena Outdoor app.

Caller



3x

Caller: "Mesh reach-out request"

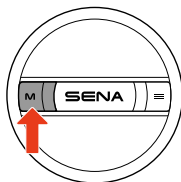
Nearby Friends: "Mesh intercom requested"

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 LATITUDE S2 resets the mesh while in open mesh or group mesh, it will automatically return to open mesh, channel 1.



8s

"Reset Mesh"

05 AUDIO MULTITASKING

Audio multitasking on the LATITUDE S2 allows you to listen to music while having a Mesh Intercom conversation.

For more details, go to Device Settings on the Sena Outdoor 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'.

06 FIRMWARE UPDATE

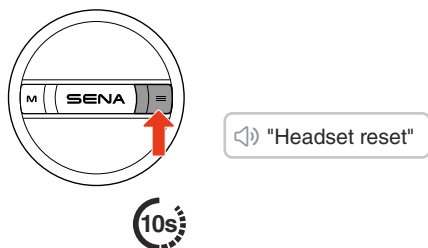
Over-the-Air (OTA) Update

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

07 TROUBLESHOOTING

Factory Reset

To restore the LATITUDE S2 to its factory default settings, simply use the factory reset feature.

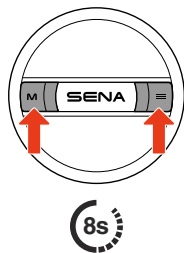


Fault Reset

If the LATITUDE S2 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 multi-function and Mesh Intercom button simultaneously for 8 seconds until it restarts.

All settings will remain unchanged.





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