

SENA



R2 EVO

SMART ROAD CYCLING HELMET

USER'S GUIDE

TABLE OF CONTENTS

1.	ABOUT THE R2 EVO	5
1.1	Product Features	5
1.2	Helmet Information	6
1.3	Product Details	7
1.4	Package Contents	8
2.	WEARING THE HELMET	9
2.1	How to Wear The Helmet	9
2.2	Helmet Fitment Check	11
3.	GETTING STARTED	13
3.1	Downloadable Sena Software	13
3.1.1	Sena Cycling App	13
3.1.2	Sena Device Manager	13
3.1.3	Firmware Upgrades	13
3.2	Charging	14
3.3	Legend	14
3.4	Powering On and Off	14
3.5	Checking the Battery Level	15
3.6	Volume Adjustment	15
4.	PAIRING THE BLUETOOTH SYSTEM WITH OTHER BLUETOOTH DEVICES	16
4.1	Phone Pairing	16
4.1.1	Initially Pairing the R2 EVO	16
4.1.2	Pairing When the R2 EVO is Turned Off	17
4.1.3	Pairing When the R2 EVO is Turned On	17
4.2	Second Mobile Phone Pairing - Second Mobile Phone and GPS	18

5.	MOBILE PHONE USAGE	19
5.1	Making and Answering Calls	19
5.2	HD Voice (Always On)	19
6.	STEREO MUSIC	20
6.1	Bluetooth Stereo Music	20
7.	MESH INTERCOM	21
7.1	What is Mesh Intercom?	21
7.2	Starting Mesh Intercom	22
7.3	Channel Setting (Default: channel 1)	22
7.3.1	Using the Button	22
7.3.2	Using the Sena Cycling App	23
7.4	Enable/Disable Mic (Default: Enable)	23
8.	LED TAILLIGHT	24
8.1	Using the SENA Button	24
8.2	Using the Sena Cycling App	24
9.	FUNCTION PRIORITY	25
10.	CONFIGURATION SETTING	26
10.1	Bluetooth System Configuration Menu	26
10.2	Software Configuration Setting	26
10.2.1	Headset Language	27
10.2.2	Voice Prompt (Default: Enable)	27
10.2.3	Advanced Noise Control™ (Always on)	27

11. TROUBLESHOOTING 28

11.1 Fault Reset 28

11.2 Factory Reset 28

12. MAINTENANCE AND CARE 29

1. ABOUT THE R2 EVO

1.1 Product Features



Bluetooth® 5.2



Mesh Intercom up to 900 m (0.6 mi)*



Taillight



Advanced Noise Control™



Fast Charging

* in open terrain

1.2 Helmet Information

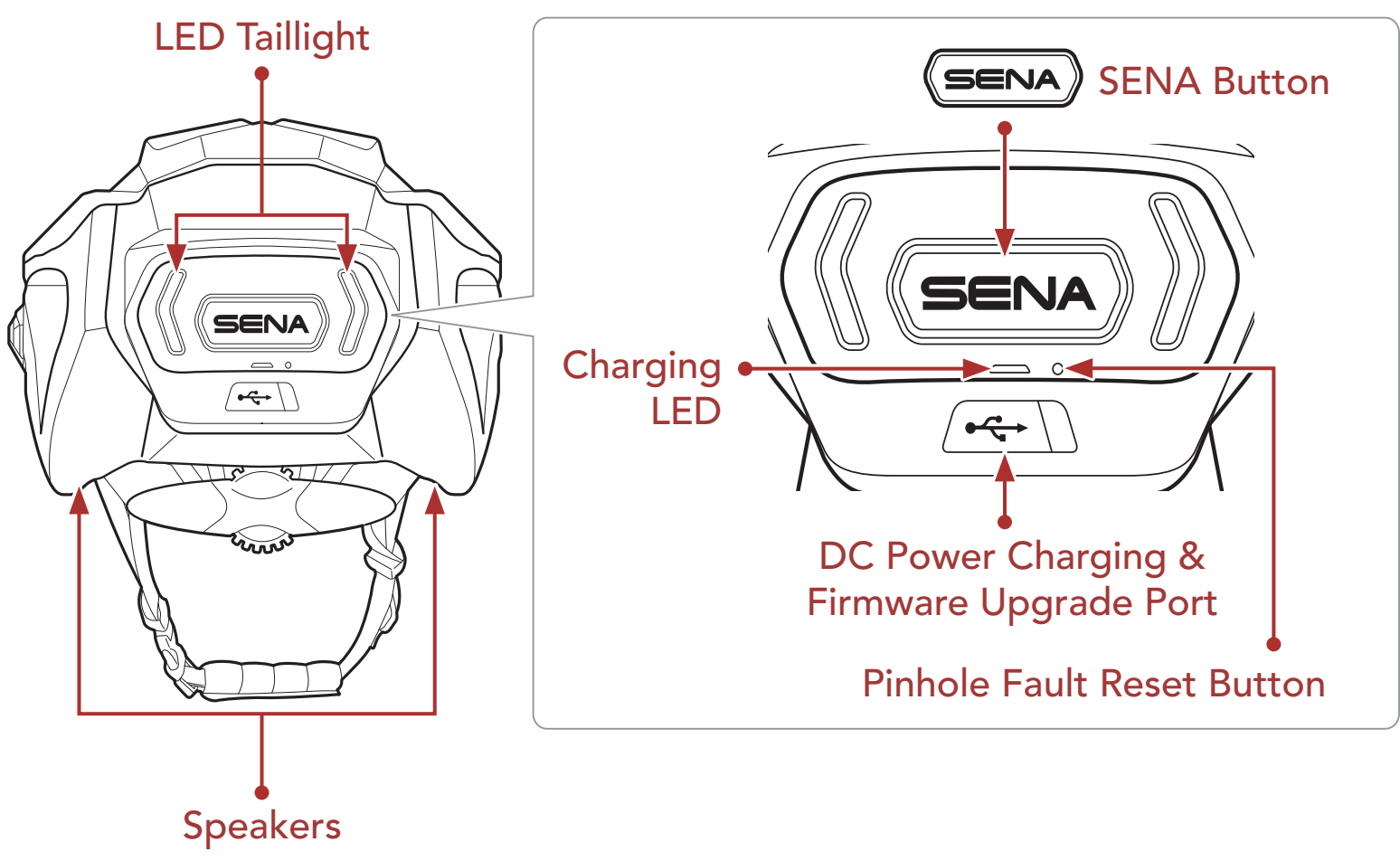
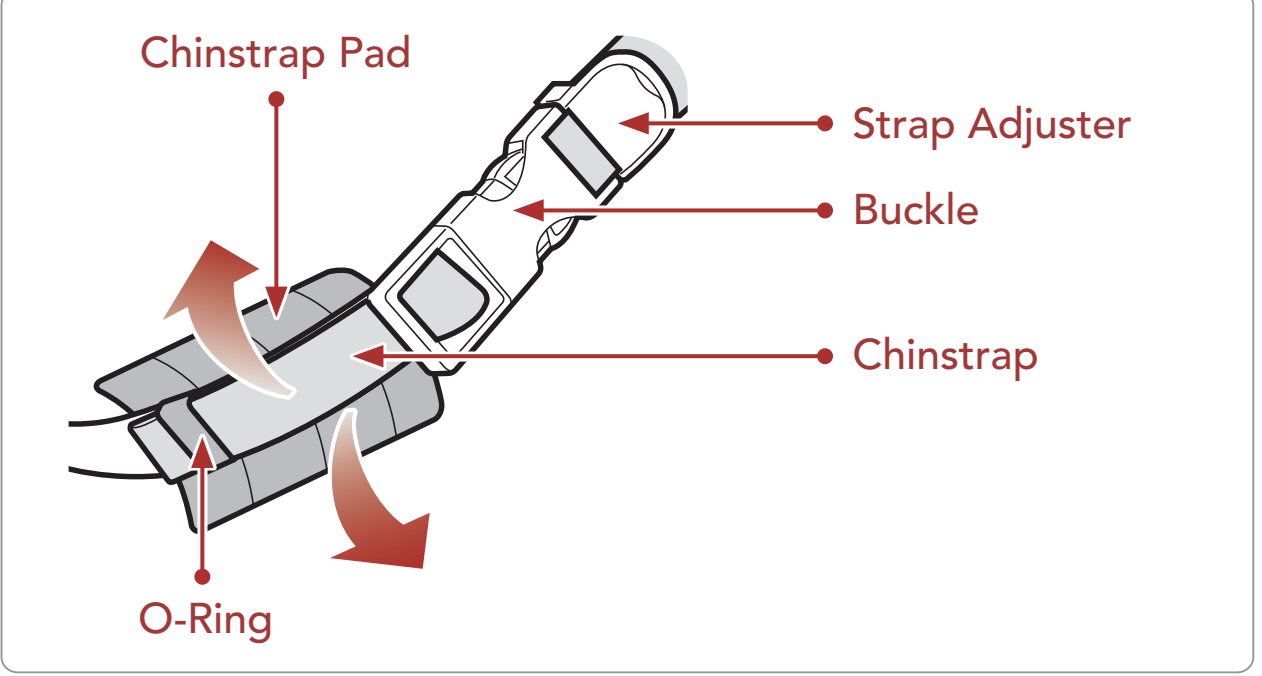
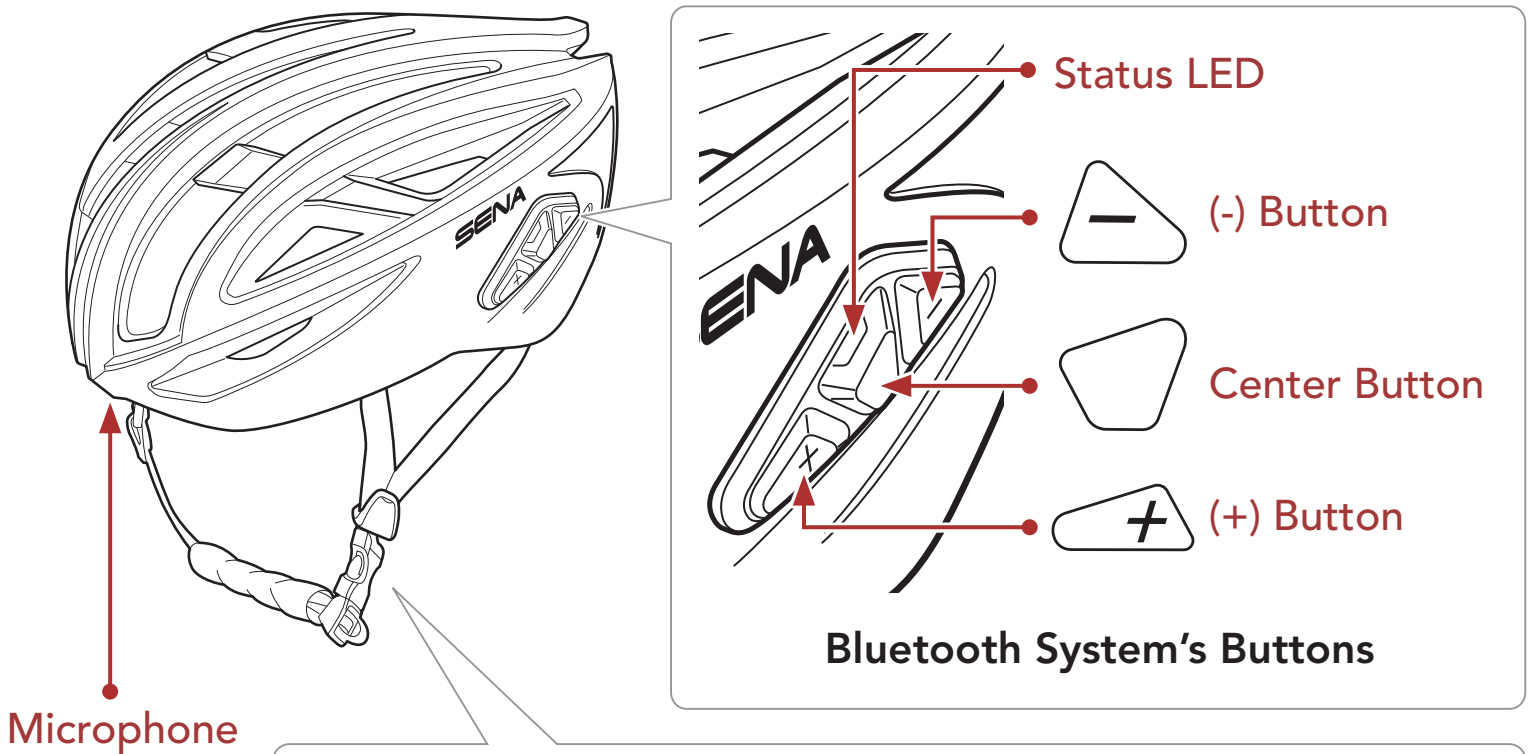
This product is a road cycling helmet. Do not use it for any other purpose than riding a bicycle. If you use the helmet for anything else, it may not provide sufficient protection in an accident.

Sena recommends that you choose a helmet which provides the most coverage, as a helmet that covers more of your head may provide additional protection. Always wear your road cycling helmet low in the front to protect the forehead, as this area is most likely to be impacted in a bicycle crash. Make sure the helmet fits comfortably and is tightly fastened at all times.

WARNING

- Your helmet will not protect against injury in all types of accidents. Even while wearing a helmet, low speed accidents may result in serious head injury or death. A road cycling helmet will not protect against injuries to the spine, neck or face. In the event of any impact, do not use this helmet. There may be damage invisible to you, which may reduce the ability of the helmet to reduce the harmful effects of a blow to the head. Such helmet should be returned to Sena for inspection, or destroyed and replaced.
- Do not modify or remove any original part of the helmet. Do not use heat damaged helmets. Heat damaged helmets will appear to have uneven or have bubbly surfaces.
- This User's Guide and the stickers inside your helmet contain many instructions and warnings about your helmet. It is important for you to understand everything communicated in them before your first ride. If you do not, please contact your authorized Sena Retailer with any questions you may have. Failure to follow any of the provided instructions or warnings could void your warranty, and most importantly, could result in severe personal injury or death. If you are a parent or guardian and this helmet is for your child, please take the time to read this manual as you should make sure your child understands everything in this User's Guide.

1.3 Product Details



1.4 Package Contents



R2 EVO Helmet



USB Power & Data Cable
(USB-C)



Helmet Pouch

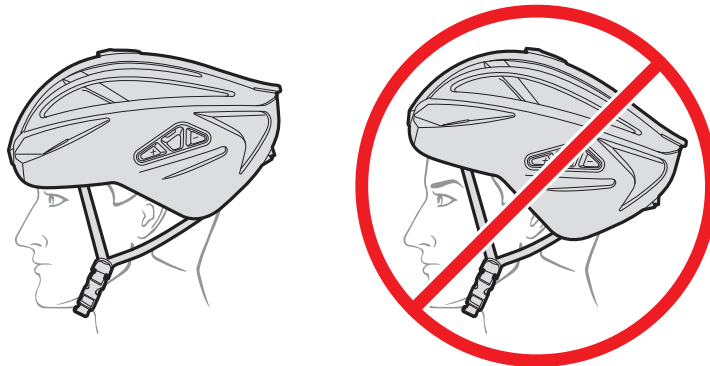
2. WEARING THE HELMET

2.1 How to Wear The Helmet

For proper use, the helmet must sit level on the head and low on the forehead. The Sena helmet uses a simple, quick-release buckle system that, once adjusted, can be buckled and unbuckled without changing the adjustment. For proper use, the straps must be tight and evenly tensioned.

To properly wear your helmet:

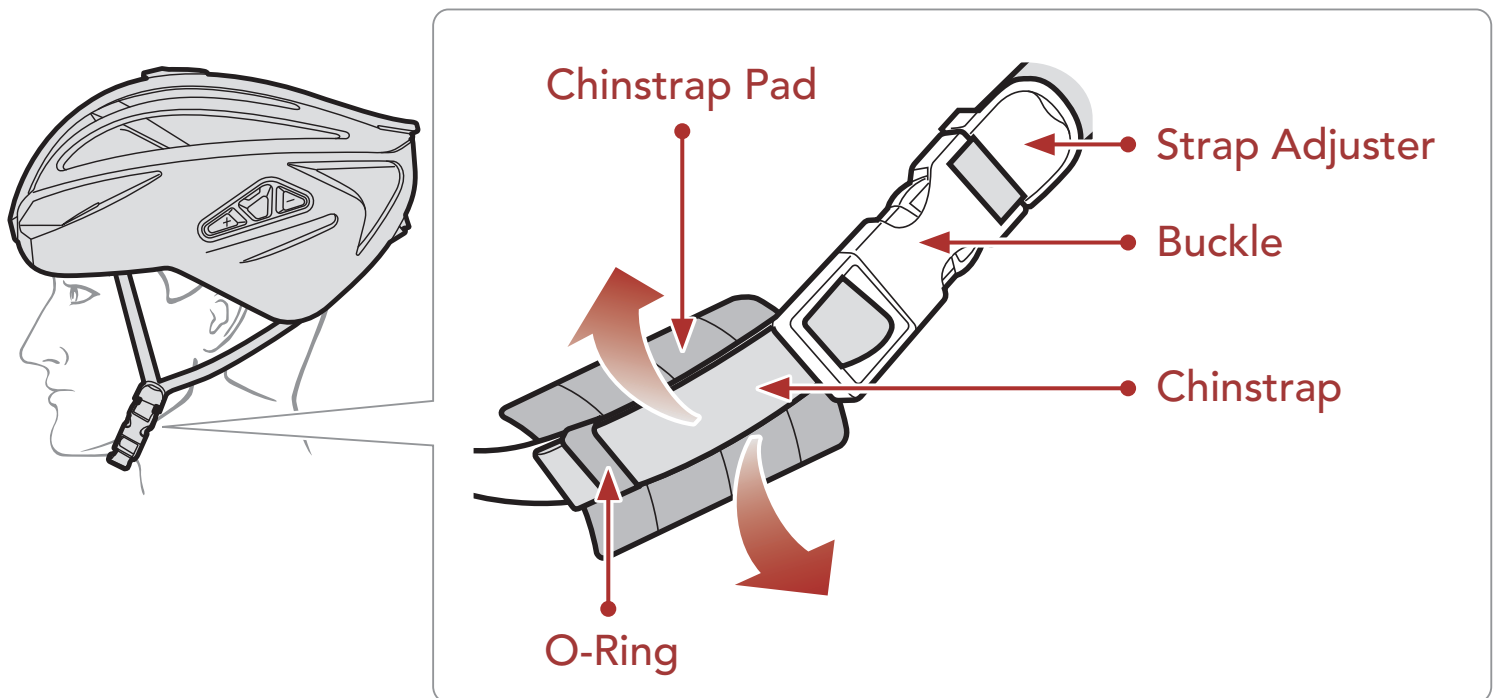
1. Position the helmet on your head with the front covering your forehead. If the helmet is tipped back and is not covering your forehead then the helmet is not in the proper position.
2. Position the strap adjuster centered, just below your ears.



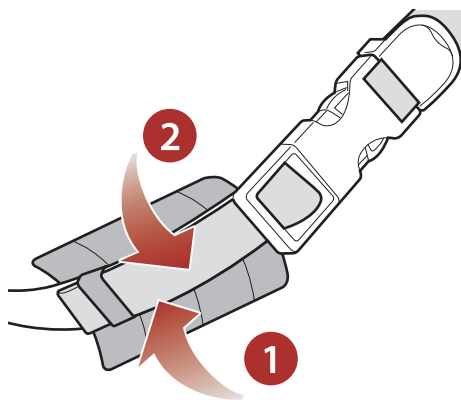
⚠ WARNING: Always wear the helmet in the proper position on your head with the front of the helmet covering your forehead for maximum protection. Never wear the helmet tipped back as the helmet will be in the improper position causing your forehead to be exposed. All fitment adjustments need to be made with the helmet in the proper position.

3. Position the helmet low on your forehead with the buckle under the chin and back against the throat. The straps should fit comfortably around both ears.

4. After removing the chinstrap pad, adjust the chinstrap tension at the buckle with the strap adjuster in the proper position. Adjust the tension so the chinstrap is tight and comfortable by pulling the chinstrap end through the buckle to either tighten or loosen as needed.

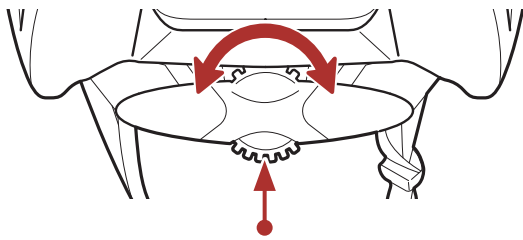


5. Secure the excess strap with O-ring and then attach the chinstrap pad. Always wear the helmet with the chinstrap buckle fastened and the chinstrap pulled tight and positioned back against the throat. With the strap buckled and the helmet positioned, you should feel the chinstrap pull firmly against your chin as you open your mouth. When properly adjusted the helmet will wrap around your head and cradle it with firm, but comfortable pressure.

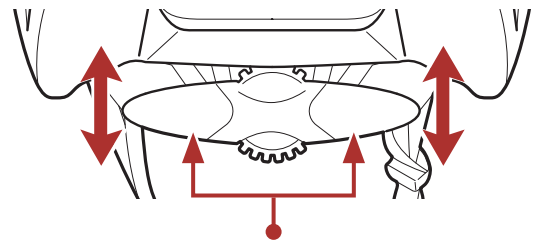


6. Your helmet is equipped with an adjustable retention system which helps stabilize the helmet in the correct position when you ride. When wearing the helmet, turn the retention system knob clockwise to tighten the helmet or counterclockwise to loosen the helmet.

7. To change the height of the retention system, firmly pull or push the retention system upward or downward to a different position.



Retention System Knob



Retention System

⚠ WARNING: For maximum protection, this helmet must be fitted and attached properly to the wearer's head in accordance with the following instructions. If after adjustment the helmet does not fit properly, do not use the helmet. Return it to the retailer or Sena.

2.2 Helmet Fitment Check

With the retention system knob turned clockwise until comfortably tight and the chinstrap buckled under the chin and back against the throat, grab the helmet with both hands and try to remove it by rolling the helmet forward and backward as far as you can. This is an important test to ensure that the helmet fits correctly. When you do this, you should feel the chinstrap pull against the underside of your chin and the helmet will resist any movement. If this isn't the case, tighten the chinstrap and try it again until this happens. If you cannot achieve the proper fit, **DO NOT USE THIS HELMET**. Replace it with a different size until the correct fit is achieved.

Also, for a proper **Helmet Fitment Check** if you can roll the helmet forward such that it blocks your vision or if you can roll the helmet backwards such that your forehead is not covered, tighten the chinstrap and the retention system and try again until you cannot roll the helmet forward or backwards.

⚠ WARNING

- Do not wear anything underneath your helmet, such as a cap, hood, bundled hair, headphones, or barrettes, as the helmet may loosen or come off. Do not wear anyone else's helmet and don't loan your helmet to anyone else.
- Always make sure the buckle is properly fastened before you ride. Failure to follow this instruction could result in serious personal injury, as the helmet may not stay in position while riding or during a fall. For proper use, make sure the loose end of the chinstrap is tucked through the rubber "O" ring.
- Check for proper fit and adjustment often, including each time you wear it, and periodically during use.
- This helmet has been designed for recreational bicycling. This helmet has not been approved and is not intended for extreme uses such as downhill racing at high speeds, jumping or leaping with a fully suspended bicycle, snow sports, water sports, motor sports, street hockey, playground activities, or other activities where face, ear, or greater protection or coverage is desired.
- Always wear a helmet when bicycling. When you get off your bicycle, remove your helmet. Do not wear a helmet while climbing trees, in play areas, on playground equipment, or, at any time while not riding a bicycle. Parents: Instruct children to follow this warning. Failure to follow this warning could result in serious personal injury, death or death by strangulation.

3. GETTING STARTED

3.1 Downloadable Sena Software

3.1.1 Sena Cycling App

By simply pairing your phone with your Bluetooth system, you can use the **Sena Cycling App** for quicker, easier set up and management.



- Download the **Sena Cycling App** on **Google Play Store** or **App Store**.

3.1.2 Sena Device Manager

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



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

3.1.3 Firmware Upgrades

You can upgrade firmware using the **Sena Device Manager**.

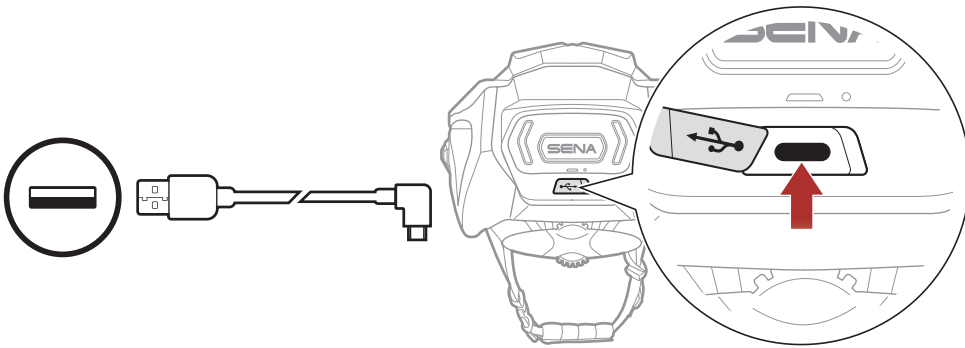
The **USB Power & Data Cable** must be connected to your PC to upgrade firmware using the **Sena Device Manager**.

NOTICE

- This **User Guide (Version 2.0.0 or higher)** explains how to operate the R2 EVO with **firmware version 2.0 or higher**.
- For operating the R2 EVO with **a firmware version lower than 2.0**, refer to the **R2 EVO User Guide** that is available when you connect the R2 EVO to the Cycling App.

3.2 Charging

Charging the Bluetooth System



Depending upon the charging method, the Bluetooth system will be fully charged in about 3 hours.

Note:

- The Bluetooth system includes a **Fast Charging** feature which allows it to charge quickly over a short period of time. For example, a user can get up to 2.0 hours of Mesh communication after charging the Bluetooth system for 20 minutes.
- Please make sure to take off your helmet while charging. The Bluetooth system automatically turns off during charging.
- Any 3rd party USB charger can be used with Sena products if the charger is approved by either the FCC, CE, IC, or other locally approved agencies.
- Use of a non-approved charger may cause fire, explosion, leakage, and other hazards which may also reduce the life time or performance of the battery.

3.3 Legend



Tap button the specified number of times



Press and Hold button for the specified amount of time

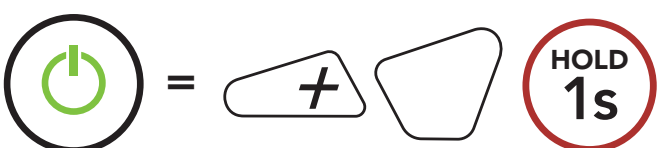


"Hello"

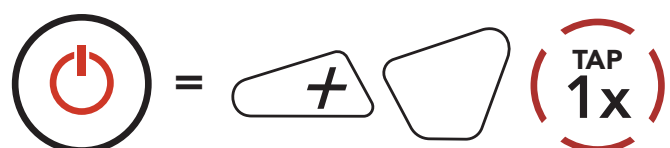
Audible prompt

3.4 Powering On and Off

Powering On



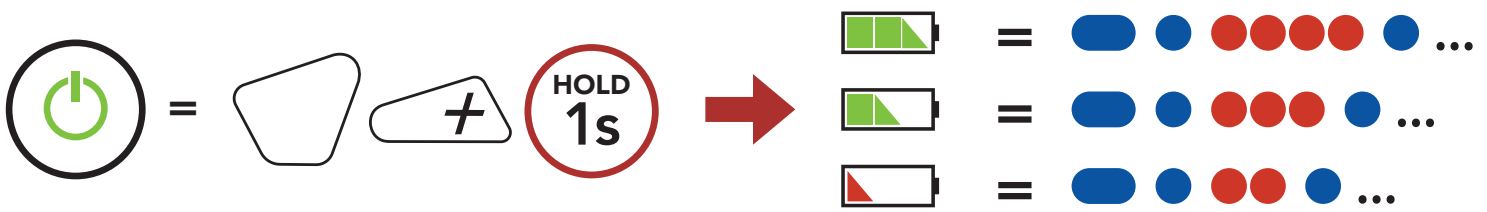
Powering Off



3.5 Checking the Battery Level

Instruction is for when powering the Bluetooth system on.

Powering On



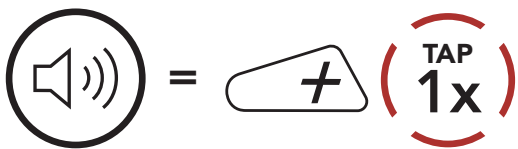
Note:

- The battery performance may be reduced over time with usage.
- Battery life may vary depending on conditions, environmental factors, functions of the product in use, and devices used with it.

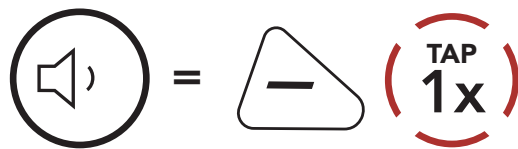
3.6 Volume Adjustment

Volume is set and maintained independently at different levels for each audio source, even when the Bluetooth system is rebooted.

Volume Up



Volume Down



4. PAIRING THE BLUETOOTH SYSTEM WITH OTHER BLUETOOTH DEVICES

When using the Bluetooth system with other Bluetooth devices for the first time, they will need to be “paired.” This enables them to recognize and communicate with one another whenever they are within range.

The pairing operation is required only once for each Bluetooth device. The Bluetooth system can pair with multiple Bluetooth devices such as a mobile phone or GPS via **Mobile Phone Pairing** and **Second Mobile Phone Pairing**.

4.1 Phone Pairing

There are three ways to pair the phone.

4.1.1 Initially Pairing the R2 EVO

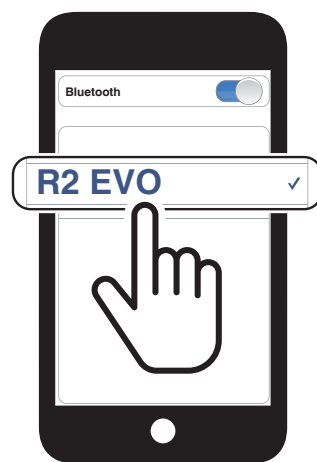
The Bluetooth system will automatically enter the phone pairing mode when you initially turn on the Bluetooth system or in the following situation:

- Rebooting after executing **Factory Reset**

1. Press and hold the **Center Button** and the **(+) Button** for **1 second**.



2. Select **R2 EVO** in the list of Bluetooth devices detected. If your mobile phone asks for a PIN, enter 0000.



Note:

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

4.1.2 Pairing When the R2 EVO is Turned Off

1. While the Bluetooth system is off, press and hold the **Center Button** and the **(+) Button** until the LED flashes red and blue alternately and you hear a voice prompt, **"Phone pairing"**.



2. Select **R2 EVO** in the list of Bluetooth devices detected. If your mobile phone asks for a PIN, enter 0000.

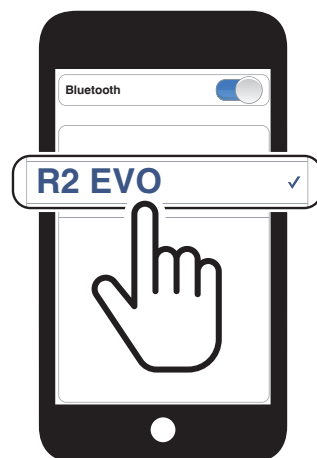


4.1.3 Pairing When the R2 EVO is Turned On

1. While the Bluetooth system is on, press and hold the **Center Button** for **5 seconds**.



2. Select **R2 EVO** in the list of Bluetooth devices detected. If your mobile phone asks for a PIN, enter 0000.



4.2 Second Mobile Phone Pairing - Second Mobile Phone and GPS

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



2. Tap the **(+) Button**.



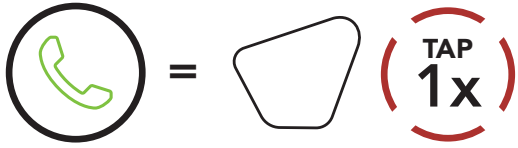
3. Select **R2 EVO** in the list of Bluetooth devices detected. If your Bluetooth device asks for a PIN, enter 0000.



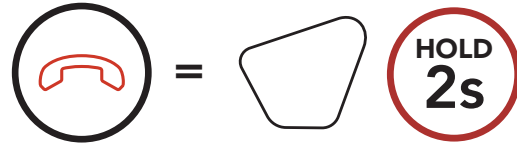
5. MOBILE PHONE USAGE

5.1 Making and Answering Calls

Answer a Call



End/Reject a Call



Call a Voice Assistant



5.2 HD Voice (Always On)

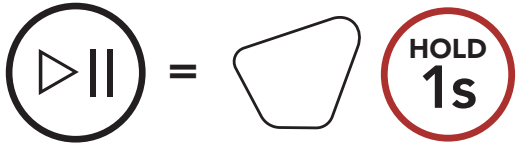
HD Voice allows you to communicate in high-definition during phone calls. This feature increases the quality so that the audio will be crisp and clear during phone call conversations.

Note: Refer to the manufacturer of your Bluetooth device that will be connected to the Bluetooth system to see if it supports **HD Voice**.

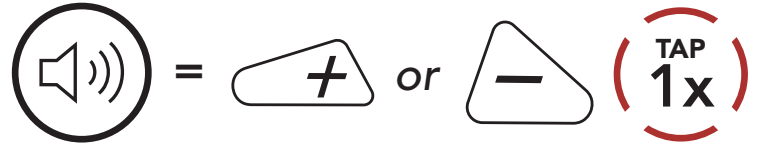
6. STEREO MUSIC

6.1 Bluetooth Stereo Music

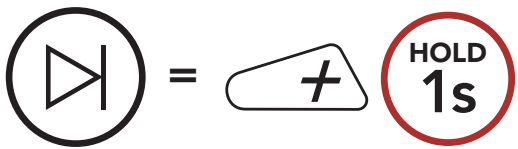
Play/Pause Music



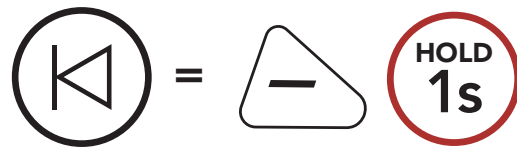
Volume Up/Down



Next Track



Previous Track



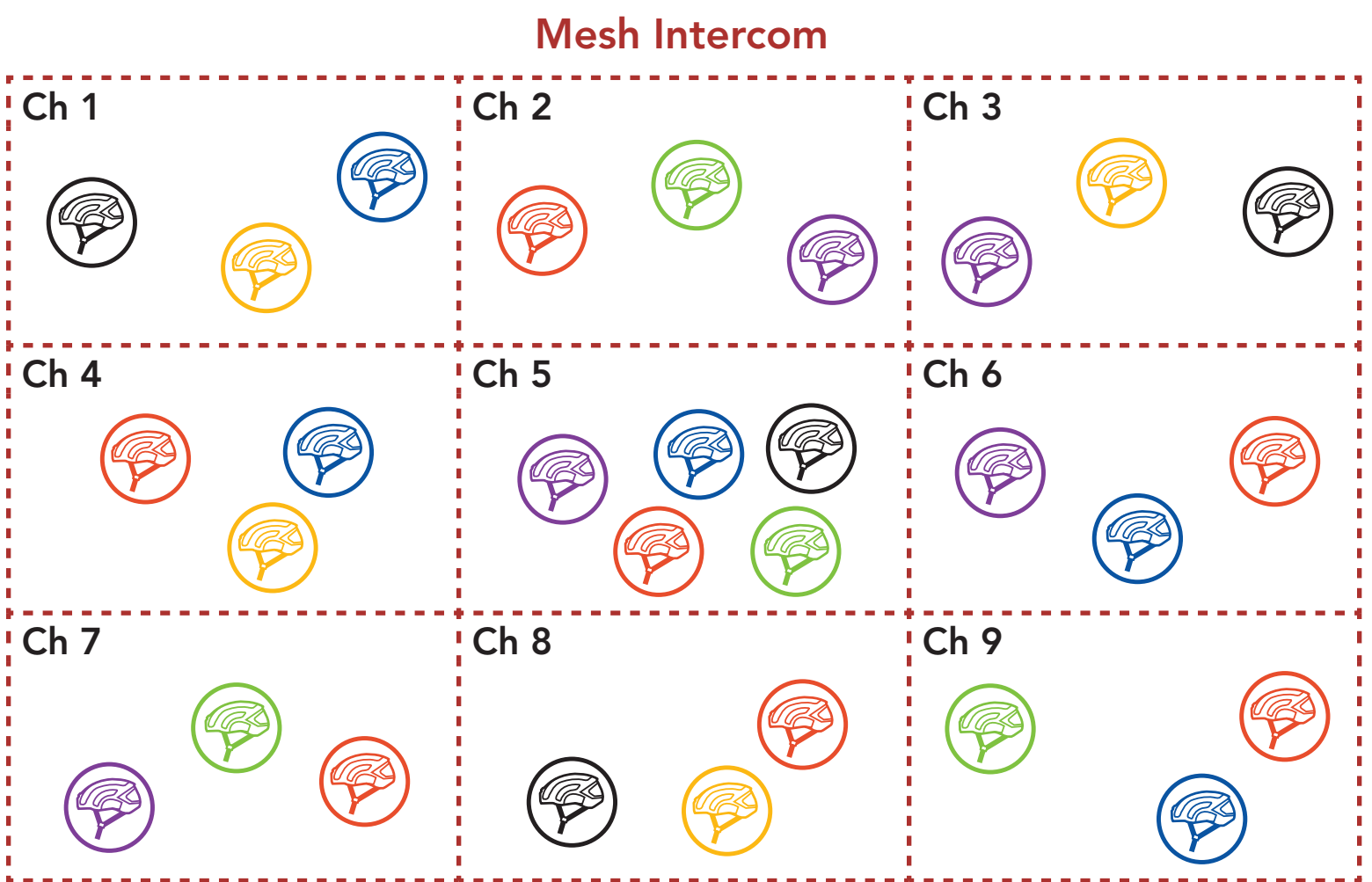
7. MESH INTERCOM

7.1 What is Mesh Intercom?

Sena proposes using **Mesh Intercom™**, which provides instant and Effortless communication without a pre-grouping process. **Mesh Intercom** allows users to connect and communicate with nearby users without the need to pair each Bluetooth system together.

The working distance between each **R2 EVO** in **Mesh Intercom** can be up to 900 m (0.5 mi) in open terrain. In open terrain, the **Mesh** can be extended up to 3.6 km (2.0 mi) between a minimum of 6 users.

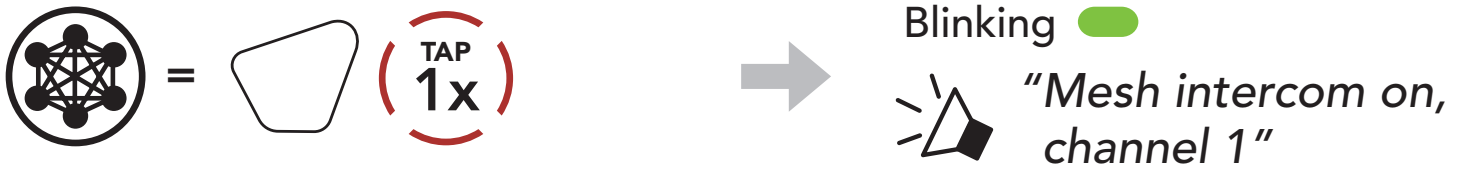
A user can select with channel to use (1-9) using the Bluetooth system. It can connect with a virtually unlimited number of users in each channel.



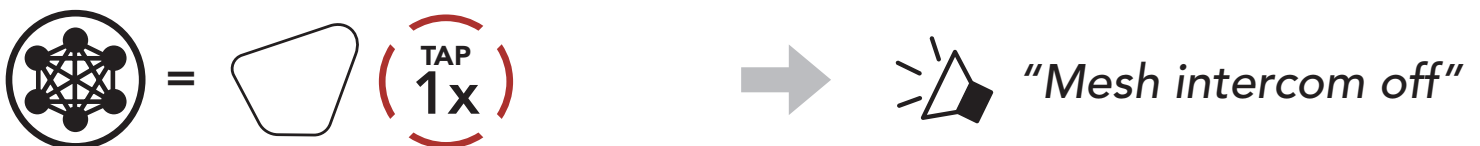
7.2 Starting Mesh Intercom

When **Mesh Intercom** is enabled, the **R2 EVO** will automatically connect to nearby **R2 EVO** users and allow them to talk to each other.

Mesh Intercom On



Mesh Intercom Off

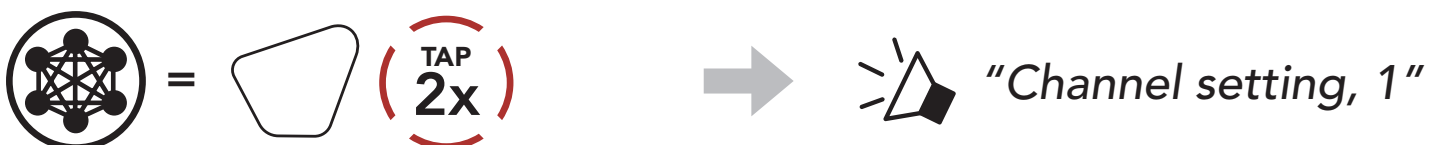


7.3 Channel Setting (Default: channel 1)

If **Mesh Intercom** communication experiences interference because other groups are also using **channel 1 (default)**, change the channel. You can select from channels 1 to 9.

7.3.1 Using the Button

1. Double tap the **Center Button**.



2. Navigate between channels.

(1 → 2 → ... → 8 → 9 → Exit → 1 → ...)



3. Save the channel.



Note:

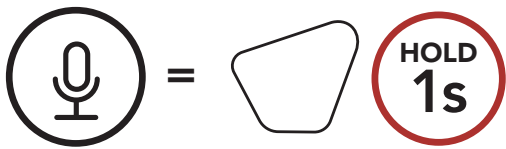
- **Channel Setting** always starts with channel 1.
- If you do not press any button for approximately **10 seconds** in a specific channel, the channel is automatically saved.
- The channel will be remembered even if you turn off the **R2 EVO**.

7.3.2 Using the Sena Cycling App

You can select the channel through the **Sena Cycling App**.

7.4 Enable/Disable Mic (Default: Enable)

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



8. LED TAILLIGHT

There is a Red LED on the back of the helmet to ensure you stand out on the road.

8.1 Using the SENA Button

LED On and Solid



Night Flash



Day Flash



LED Off



Note: Do not tap the button continuously.

8.2 Using the Sena Cycling App

You can control the LED Taillight through the **Sena Cycling App**.

9. FUNCTION PRIORITY

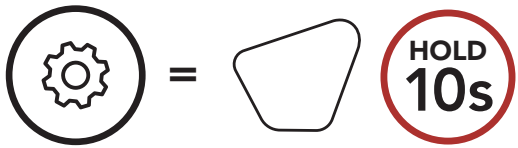
- (highest)** Mobile phone
Mesh Intercom
- (lowest)** Bluetooth stereo music

A lower priority function is always interrupted by a higher priority function.

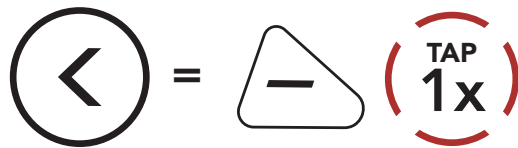
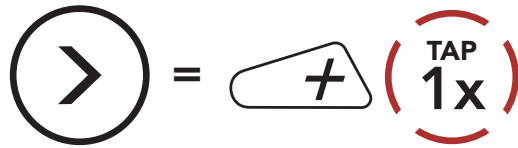
10. CONFIGURATION SETTING

10.1 Bluetooth System Configuration Menu

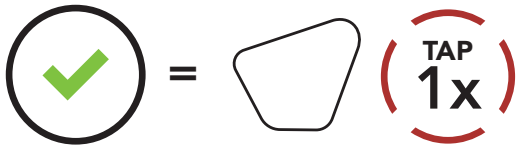
Accessing the Configuration Menu



Navigating Between Menu Options



Execute Menu Options



Bluetooth System Configuration Menu

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

10.2 Software Configuration Setting

You can change the settings of the Bluetooth system through the **Sena Device Manager** or the **Sena Cycling App**.



10.2.1 Headset Language

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

10.2.2 Voice Prompt (Default: Enable)

You can disable **Voice Prompts** by software configuration settings, but the following voice prompts are always on.

- Bluetooth system configuration settings menu, battery level indicator

10.2.3 Advanced Noise Control™ (Always on)

The background noise is reduced during an intercom conversation.

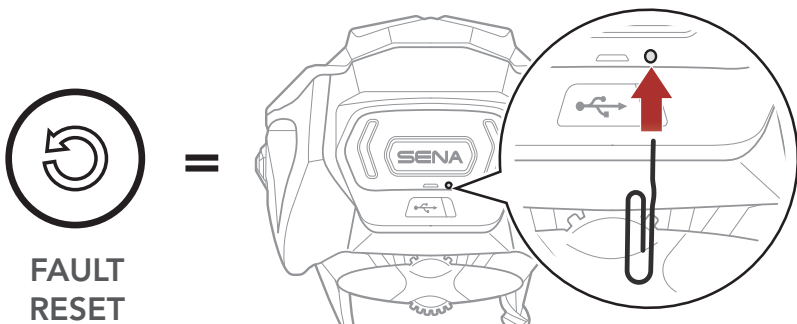
11. TROUBLESHOOTING

Please visit [sena.com](https://www.sena.com) for more troubleshooting information.

11.1 Fault Reset

When the Bluetooth system is not working properly, you can easily reset the unit:

1. Locate the **Pinhole Fault Reset Button** below Sena logo at the back side of the helmet.
2. Gently insert a paper clip into the hole and press the **Pinhole Fault Reset Button** with light pressure.















3. The Bluetooth system will shut down.

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

11.2 Factory Reset

To erase all of your settings and start fresh, the Bluetooth system can be restored to factory default settings using the **Factory Reset** feature.

1.  =   →  "Configuration menu"
2.  =   →  "Factory reset"
3.  =   →  "Headset reset, good-bye"

12. MAINTENANCE AND CARE

The inner lining of the helmet is completely removable. Its headliner can be washed by hand using only water, mild soap, at a maximum temperature of 30°C (86°F), and non-abrasive cloths to clean the helmet's shell, pads and retention system. Allow the padding to dry at room temperature. Store the helmet in a dry, dark, well-ventilated location, out of the reach of children and animals. High temperatures (above 110°F, 43°C) may melt the helmet's shell.

WARNING

- Never use gasoline, diesel fuel, thinners or solvents to clean the helmet. These substances can cause serious damage to the helmet, even though the resulting damage may not be visible. This helmet can be damaged by contact with common substances (for example, certain solvents (ammonia), cleaners (bleach), paints, abrasives) and this damage may not be visible to the wearer. Do not use this helmet if it has been exposed to such substances. The full safety function of the helmet can no longer be guaranteed if exposed to damaging substances.
- Do not store your helmet in your car or anywhere else near a heat source. Do not use if the shell has been melted or deformed. Always position the helmet so that it cannot fall to the floor. Damage that occurs in this way is not covered by the warranty.
- Do not attach anything to your helmet, including mirrors or lights.

The shell of this helmet is constructed of expanded polystyrene foam. Ventilation holes may allow harmful objects to pass in the helmet interior.

The protective capability of your helmet will diminish over time, dependent upon many factors such as dents, dings, and exposure to pollution, harmful chemicals and long term exposure to the sun. Sena recommends that helmets be replaced after five years.

Note: The useful life of your helmet may be less than five years as a result of exposure to sunlight, rough, handling/storage that results in dents or cuts or as a result of heavy use.



Copyright © 2023 Sena Technologies Co., Ltd.
All rights reserved.

© 1998–2023 Sena Technologies Co., Ltd. All rights reserved.

Sena Technologies Co., Ltd. reserves the right to make any changes and improvements to its product without providing prior notice.

Sena™ is a trademark of Sena Technologies Co., Ltd. or its subsidiaries in the USA and other countries. SF1™, SF2™, SF4™, SFR™, SRL™, SRL2™, SRL3™, SRL-EXT™, SRL-Mesh™, Momentum™, Momentum INC™, Momentum Lite™, Momentum Pro™, Momentum INC Pro™, Momentum EVO™, Cavalry™, Latitude SR™, Latitude SX™, Latitude S1™, 30K™, 33i™, 50S™, 50R™, 50C™, 5S™, 5R™, 5R LITE™, 20S EVO™, 20S™, 10S™, 10C™, 10C PRO™, ProRide EVO™, 10C EVO™, 10U™, 10Upad™, 10R™, ACS10™, ACS-RAM™, C1™, C10™, CAST™, 3S™, 3S PLUS™, SMH5™, SMH5-FM™, SMH5 MultiCom™, SMH10™, SMH10R™, SPH10™, SPH10H-FM™, Savage™, Prism Tube WiFi™, Prism™, Bluetooth Audio Pack for GoPro®, IMPULSE™, FURY™, R1™, R1 EVO™, R1 EVO CS™, R2™, R2 EVO™, R2X™, M1™, M1 EVO™, RUMBA™, RC1™, RC3™, RC4™, STRYKER™, Handlebar Remote™, Wristband Remote™, PowerPro Mount™, Powerbank™, FreeWire™, WiFi Docking Station™, WiFi Sync Cable™, WiFi Adapter™, +mesh™, +Mesh Universal™, MeshPort Blue™, MeshPort Red™, MeshPort Black™, Econo™, OUTLANDER M™, OUTRUSH™, OUTRUSH R™, OUTSTAR™, OUTSTAR S™, OUTFORCE™, OUTRIDE™, OUTRUSH M™, EcoCom™, Parani A10™, Parani A20™, Parani M10™, pi™, Snowtalk™, Snowtalk2™, SR10™, SR10i™, SM10™, SPIDER RT1™, SPIDER ST1™, X1™, X1 Pro™, X1S™, EXPAND™, EXPAND BOOM™, EXPAND MESH™, Bluetooth Mic & Intercom™, Tufftalk™, Tufftalk Lite™, Tufftalk M™, NAUTITALK Bosun™, NAUTITALK N2R™ are trademarks of Sena Technologies Co., Ltd. or its subsidiaries. These trademarks may not be used without the express permission of Sena.

GoPro® is a registered trademark of Woodman Labs of San Mateo, California. Sena Technologies Co., Ltd. ("Sena") is not affiliated with Woodman Labs, Inc. The Sena Bluetooth Pack for GoPro® is an aftermarket accessory specially designed and manufactured by Sena Technologies Co., Ltd. for the GoPro® Hero3 and Hero4 allowing for Bluetooth capabilities.

The Bluetooth® word mark and logos are owned by the Bluetooth SIG, Inc. and any use of such marks by Sena is under license. iPhone® and iPod® touch are registered trademarks of Apple Inc.

Address: 152 Technology Drive Irvine, CA 92618