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> Sena R1-EVO Smart Cycling Helmet User Manual

Sena R1-EVO

Sena R1-EVO Smart Cycling Helmet User Manual

Model: R1-EVO | Brand: Sena

1. INTRODUCTION

Welcome to the user manual for your Sena R1-EVO Smart Cycling Helmet. This guide provides comprehensive instructions for setting up, operating, maintaining, and troubleshooting your helmet to ensure a safe and enjoyable riding experience. Please read this manual thoroughly before using your helmet.

1.1 Safety Information

Always prioritize safety. Improper use can lead to serious injury or death. Adhere to all local traffic laws and regulations. Ensure the helmet fits correctly and is securely fastened before each ride. Do not attempt to repair or modify the helmet's electronic components yourself.

- Always wear the helmet correctly and securely.
- Do not use the communication features in situations where it could distract you from safe riding.
- Keep the helmet away from extreme temperatures and moisture.
- Use only Sena-approved charging cables and adapters.

2. PRODUCT OVERVIEW

The Sena R1-EVO is a smart cycling helmet designed to enhance your riding experience with integrated communication features, including Mesh Intercom and Bluetooth connectivity, along with an integrated tail light for increased visibility.



Figure 2.1: The Sena R1-EVO Smart Cycling Helmet in Matte Black.



Figure 2.2: Integrated microphone and built-in speakers for communication.



Figure 2.3: Side view of the helmet with control buttons for easy access to functions.



Figure 2.4: Rear view highlighting the integrated tail light and USB charging port.

2.1 Comparison with R1 and R1 EVO CS

The R1-EVO features Mesh Intercom technology, offering virtually limitless users and an included visor, distinguishing it from the R1 model which uses Bluetooth and has a separate visor. It shares Mesh Intercom capabilities with the R1 EVO CS, but the R1 EVO CS has speakers attached to helmet straps.

	 R1	 R1 EVO	 R1 EVO CS
Communication Type	Bluetooth	Mesh	Mesh
Max Intercom Users	4	Virtually limitless	Virtually limitless
LED Tail Light	—	✓	✓
Visor	Sold Separate	Included	Included
Speakers	Built-in	Built-in	Attached to Helmet Straps

Figure 2.5: Feature comparison across Sena R1 series helmets.

3. SETUP

3.1 Charging the Helmet

Before first use, fully charge the helmet. Connect the provided USB charging cable to the helmet's charging port (located at the rear, near the tail light) and plug the other end into a USB power source. The LED indicator will show charging status.

3.2 Powering On/Off

- **Power On:** Press and hold the **Center Button** and **Plus Button** for 1 second.
- **Power Off:** Press and hold the **Center Button** and **Plus Button** for 1 second.

3.3 Pairing with Your Smartphone (Bluetooth)

1. With the helmet powered off, press and hold the **Center Button** for 5 seconds until you hear "Phone pairing."
2. On your smartphone, go to Bluetooth settings and select "Sena R1-EVO" from the list of available devices.
3. Once paired, you will hear "Your headset is paired."

3.4 Mesh Intercom Pairing

The R1-EVO uses Mesh Intercom for communication with other Sena Mesh-enabled devices. Simply press the **Mesh Intercom Button** to enter Open Mesh mode and connect with nearby riders.

4. OPERATING INSTRUCTIONS

4.1 Volume Control

- **Volume Up:** Tap the **Plus Button**.
- **Volume Down:** Tap the **Minus Button**.

4.2 Music Playback

- **Play/Pause:** Press the **Center Button** for 1 second.
- **Next Track:** Press the **Plus Button** for 1 second.
- **Previous Track:** Press the **Minus Button** for 1 second.

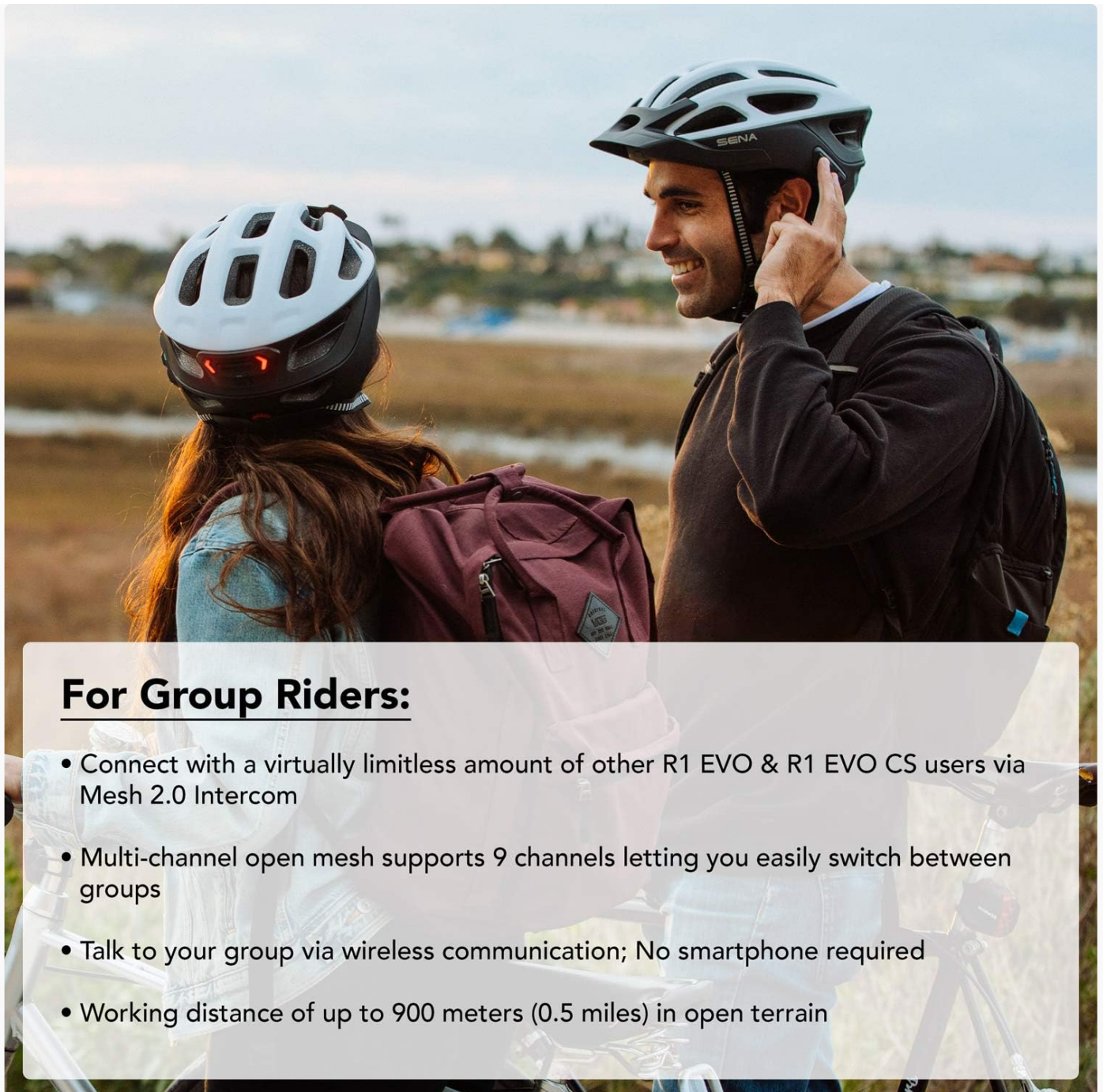
4.3 Phone Calls

- **Answer Call:** Tap the **Center Button**.
- **End Call:** Press the **Center Button** for 2 seconds.
- **Reject Call:** Press the **Center Button** for 2 seconds when ringing.

4.4 Mesh Intercom Usage

The R1-EVO utilizes Mesh 2.0 Intercom, allowing for communication with a virtually limitless number of other R1 EVO & R1 EVO CS users. It supports multi-channel open mesh with 9 channels.

- **Start/End Mesh Intercom:** Tap the **Mesh Intercom Button**.
- **Channel Switching:** Use the Sena Cycling App to switch between the 9 available channels.



For Group Riders:

- Connect with a virtually limitless amount of other R1 EVO & R1 EVO CS users via Mesh 2.0 Intercom
- Multi-channel open mesh supports 9 channels letting you easily switch between groups
- Talk to your group via wireless communication; No smartphone required
- Working distance of up to 900 meters (0.5 miles) in open terrain

Figure 4.1: Seamless group communication via Mesh Intercom.

4.5 Voice Commands

The R1-EVO supports voice commands for hands-free control of helmet features. Simply say "Hello Sena" followed by a command. Refer to the full Sena R1-EVO manual online for a complete list of commands.

4.6 Tail Light Operation

The integrated tail light has three lighting settings to enhance your visibility to others.

- **LED On and Solid:** Constant illumination.
- **Night Flash:** Slower, rhythmic flashing for night visibility.
- **Day Flash:** Faster, irregular flashing for daytime visibility.



Built-In Taillight

Use the built-in taillight's three lighting settings to indicate your position to other cyclists and motorists



LED On and Solid



Night Flash



Day Flash

Figure 4.2: Built-in taillight with multiple modes for enhanced safety.

5. MAINTENANCE

5.1 Cleaning the Helmet

Clean the helmet shell with a soft, damp cloth and mild soap. Do not use harsh chemicals or abrasive cleaners. The inner padding can be removed and hand-washed with mild detergent.

5.2 Storage

Store the helmet in a cool, dry place away from direct sunlight and extreme temperatures. Ensure the helmet is clean and dry before storing.

5.3 Battery Care

To prolong battery life, charge the helmet at least once every 3-6 months, even if not in use. Avoid fully discharging the battery frequently.

6. TROUBLESHOOTING

If you encounter issues with your Sena R1-EVO helmet, refer to the table below for common problems and solutions.

Problem	Solution
Helmet does not power on.	Ensure the battery is charged. Connect to a power source and try again.
Cannot pair with smartphone.	Ensure the helmet is in phone pairing mode. Turn off and on your phone's Bluetooth.
No audio from speakers.	Check volume level. Ensure helmet is connected to audio source.
Mesh Intercom not connecting.	Ensure all devices are in Open Mesh mode. Check range and obstacles.
Tail light not working.	Check battery level. Ensure the tail light is activated via controls or app.

7. SPECIFICATIONS

- **Brand:** Sena
- **Model:** R1-EVO
- **Color:** Matte Black
- **Age Range:** Adult
- **Special Feature:** Universal Phone Control
- **Communication Type:** Mesh Intercom, Bluetooth
- **Safety Certification:** 16 CFR Part 1203 certified

8. WARRANTY AND SUPPORT

8.1 Warranty Information

Sena products are covered by a limited warranty against defects in materials and workmanship. Please refer to the official Sena website or your purchase documentation for specific warranty terms and conditions applicable to your region.

8.2 Customer Support

For technical assistance, troubleshooting beyond this manual, or warranty claims, please contact Sena Customer Support through their official website or the contact information provided with your product packaging. Online resources, including FAQs and firmware updates, are also available on the Sena website.

ASK A QUESTION ABOUT THIS MANUAL

Ask about setup, troubleshooting, compatibility, parts, safety, or missing instructions. Manuals+ will review the question

and use this page's manual context to help answer it.

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Question

Example: How do I reset this device or fix this error?

Details

Model number, symptoms, what you tried, or the section of the manual you are using.

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