ZOHAN EM054

ZOHAN EM054 Electronic Shooting Ear Protection User Manual

1. Introduction

Thank you for choosing the ZOHAN EM054 Electronic Shooting Ear Protection. This device is designed to provide effective hearing protection in noisy environments while allowing for clear communication and situational awareness. It features active noise reduction and sound amplification capabilities, making it suitable for various applications such as shooting ranges, hunting, and industrial settings.



Image 1.1: ZOHAN EM054 Electronic Shooting Ear Protection, showing both brown and pink units.

2. Important Safety Information

Please read all instructions carefully before using this product. Failure to follow these instructions may result in hearing damage or product malfunction.

- Always ensure the earmuffs are properly fitted to achieve the stated Noise Reduction Rating (NRR).
- This device is intended for hearing protection. Do not modify or use it for purposes other than its intended use.
- Keep batteries out of reach of children. If swallowed, seek immediate medical attention.
- Do not expose the earmuffs to extreme temperatures or direct sunlight for extended periods.
- Replace batteries promptly when performance degrades to ensure continuous protection.

3. Product Features

The ZOHAN EM054 Electronic Shooting Ear Protection offers a range of features designed for optimal performance and user comfort:

- **Sensitive Active Earmuffs:** Noise Reduction Rating (NRR) of 22 dB. Actively reduces noise exceeding 82dB within 0.01 seconds.
- **Ambient Sound Application:** Equipped with 2 omnidirectional microphones and an advanced chip to amplify

low-level sounds up to 4X, enhancing communication and situational awareness.

- **Ergonomic Design:** Features vertically designed volume control buttons for easy access and a comfortable, stable fit during extended use.
- **Durable Construction:** Made with high-quality rubber paint and an artificial leather headband, resistant to water, sweat, and stains.
- **Portability:** Lightweight and foldable design for easy transport and storage.
- **Certifications:** ANSI S3.19-1974 (US standard) and CE EN352-1; EN352-4, EN352-6 (European standard) certified for effective hearing protection.



Image 3.1: Detailed view of the brown ZOHAN EM054 earmuff, highlighting the built-in omnidirectional microphone, audio input jack, and vertically oriented volume control knob.

4. Setup

4.1 Battery Installation

1. Locate the battery compartment cover on one of the earmuff cups.
2. Gently slide or unclip the cover to open the compartment.

3. Insert two (2) AAA batteries, ensuring correct polarity (+/-) as indicated inside the compartment.
4. Close the battery compartment cover securely.



Image 4.1: The pink ZOHAN EM054 earmuff demonstrating the battery compartment with two AAA batteries inserted, and an audio input jack connected to a mobile device.

4.2 Adjusting the Headband

For optimal comfort and hearing protection, adjust the headband to fit snugly over your ears.

1. Hold the earmuffs with both hands.
2. Slide the ear cups up or down along the metal wires until the headband rests comfortably on your head and the ear cups fully enclose your ears.
3. Ensure there are no gaps around your ears that could compromise noise reduction.



Image 4.2: The brown ZOHAN EM054 earmuff illustrating its convenient folding design and adjustable headband for a customized fit.

5. Operating Instructions

5.1 Power On/Off and Volume Control

1. To power on the earmuffs, rotate the vertically positioned volume control knob clockwise until you hear a click.
2. Continue rotating the knob clockwise to increase the amplification of ambient sounds.
3. Rotate the knob counter-clockwise to decrease the amplification.
4. To power off the earmuffs, rotate the knob counter-clockwise until you hear a click.

5.2 Active Noise Reduction

The EM054 features active noise reduction. When the surrounding noise level exceeds 82dB, the earmuffs will automatically and rapidly reduce the sound to a safe level within 0.01 seconds, protecting your hearing from sudden loud impulses.



Image 5.1: A woman wearing the pink ZOHAN EM054 earmuffs during a shooting activity, illustrating the automatic noise reduction feature.

5.3 Ambient Sound Amplification

The two omnidirectional microphones amplify low-level sounds up to 4X, allowing you to hear conversations and environmental cues clearly while still being protected from harmful noises. This feature enhances communication and situational awareness.



Image 5.2: Two people wearing ZOHAN EM054 earmuffs in a shooting environment, highlighting the ability to amplify surrounding sounds for better communication.

5.4 Using the Audio Input Jack

The EM054 includes an audio input jack, allowing you to connect external audio devices such as smartphones or MP3 players for listening to music or other audio content. Connect a standard 3.5mm audio cable (not included) from your device to the earmuff's audio input jack.

6. Maintenance

6.1 Cleaning

- Wipe the exterior surfaces of the earmuffs with a soft, damp cloth.
- Do not use abrasive cleaners or solvents, as these may damage the finish.
- Ensure no moisture enters the microphone openings or battery compartment.

6.2 Storage

- When not in use, store the earmuffs in a cool, dry place.
- The foldable design allows for compact storage. Fold the ear cups inward towards the headband.
- Remove batteries if the earmuffs will not be used for an extended period to prevent leakage.

7. Troubleshooting

Problem	Possible Cause	Solution
No sound or low sound amplification.	Batteries are dead or incorrectly installed.	Check battery polarity and replace with fresh AAA batteries.
Intermittent sound or static.	Loose battery connection or faulty audio cable.	Ensure batteries are secure. If using audio input, check cable connection or try a different cable.
Earmuffs do not reduce loud noises.	Earmuffs not powered on or improper fit.	Ensure earmuffs are powered on. Adjust headband for a snug fit around the ears.
Distorted sound.	Volume set too high or low battery.	Adjust volume. Replace batteries if low.

8. Specifications

- **Model:** EM054
- **Noise Reduction Rating (NRR):** 22 dB
- **Power Source:** 2 x AAA batteries (not included)
- **Battery Life:** Approximately 350 hours
- **Microphones:** 2 Omnidirectional
- **Sound Amplification:** Up to 4X
- **Noise Reduction Threshold:** >82dB (reduces within 0.01 seconds)
- **Material:** High-quality rubber paint, artificial leather headband, Stainless Steel components
- **Certifications:** ANSI S3.19-1974 (US), CE EN352-1; EN352-4, EN352-6 (European)

9. Warranty and Support

For warranty information or technical support, please refer to the documentation included with your purchase or visit the official ZOHAN website. If you encounter any issues not covered in this manual, please contact ZOHAN customer service for assistance.

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.

Name

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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.

Submit question