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ZOHAN EM054

ZOHAN EM054 Electronic Shooting Ear Protection User Manual

Model: EM054 | Brand: ZOHAN

1. Introduction

The ZOHAN EM054 Electronic Shooting Ear Protection earmuffs are designed to provide superior hearing protection while enhancing situational awareness. Featuring advanced sound amplification and active noise reduction technology, these earmuffs are ideal for environments with intermittent loud noises such as shooting ranges, hunting, and industrial settings. Their slim profile and comfortable design ensure extended wear without discomfort.



Figure 1: ZOHAN EM054 Electronic Shooting Ear Protection, Army Green model. These earmuffs feature a comfortable headband and slim earcups designed for active use.

2. Key Features

- **Sensitive Active Earmuffs:** Noise Reduction Rating (NRR) of 22 dB. Actively reduces noise exceeding 82dB within 0.01 seconds.
- **Ambient Sound Amplification:** Equipped with 2 omnidirectional microphones and an advanced chip to amplify low-level sounds up to 4X, providing natural listening and enhanced communication.
- **Ergonomic Design:** Features vertically designed volume control buttons for easy access, artificial leather headband stitched by hand for comfort, and a lightweight, foldable structure for portability.
- **Durable Construction:** Made of high-quality rubber paint and durable ABS shell, resistant to water, sweat, and stains.
- **Certifications:** ANSI S3.19-1974 CERTIFIED by US standard. CE EN352-1; EN352-4, EN352-6 CERTIFIED by European standard.



Figure 2: Illustration of the advanced noise reduction technology, demonstrating how sounds above 82dB are suppressed to protect hearing.

3. Package Contents

- ZOHAN EM054 Electronic Shooting Earmuffs (1 pair)
- Auxiliary Audio Cable (1)
- User Manual (1)
- Carrying Bag (1) - *Implied from customer reviews*

4. Setup

4.1 Battery Installation

The earmuffs are powered by 2 AAA batteries (not included). To install:

1. Locate the battery compartment on the side of one earcup.
2. Gently lift the battery lid to open.
3. Insert 2 AAA batteries, ensuring correct polarity (+/-).
4. Close the battery lid securely until it clicks into place.



Figure 3: The battery compartment located on the earcup, designed for two AAA batteries. Ensure correct polarity during installation.

4.2 Adjusting Headband and Wearing

For optimal comfort and protection, adjust the headband to fit your head snugly.

1. Unfold the earcups from their compact position.
2. Place the earmuffs over your ears, ensuring the earcups fully cover your ears.
3. Adjust the headband by sliding the earcups up or down along the metal wires until a comfortable and secure fit is achieved. The headband should rest comfortably on top of your head.



Figure 4: The earmuffs feature a convenient folding design for easy storage and transport.



Figure 5: The earmuffs are designed for comfortable wear, with soft ear cushions that contour to the shape of the ears.

5. Operating Instructions

5.1 Power On/Off and Volume Control

The earmuffs feature a recessed volume control knob on the side of the earcup.

- To power on, rotate the volume control knob clockwise until you hear a click.
- To adjust the volume of amplified sounds, continue rotating the knob clockwise to increase volume or counter-clockwise to decrease volume.
- To power off, rotate the volume control knob counter-clockwise until you hear a click.



Figure 6: Close-up of the earcup showing the vertically oriented volume control knob and the audio input jack.

5.2 Sound Amplification and Noise Reduction

The earmuffs are equipped with omnidirectional microphones that amplify low-level sounds (up to 4X) while simultaneously reducing loud impulse noises (above 82dB) within 0.01 seconds. This allows for clear communication and awareness of your surroundings without compromising hearing protection.



Figure 7: The earmuffs amplify surrounding sounds, enabling clear communication even in noisy environments.



Figure 8: The high-fidelity audio system captures subtle sounds, allowing users to accurately judge sound sources and distances.

5.3 Audio Input

The earmuffs include a 3.5mm audio input jack, allowing you to connect external audio devices such as MP3 players or smartphones.

- Connect one end of the provided auxiliary audio cable to the audio input jack on the earcup.
- Connect the other end of the cable to your audio device.
- Adjust the volume using the earmuff's volume control knob and your audio device's volume settings.

6. Maintenance

6.1 Cleaning

To maintain hygiene and prolong the life of your earmuffs:

- Wipe the earcups and headband with a damp cloth.
- Do not immerse the earmuffs in water.
- Avoid using harsh chemicals or abrasive cleaners.

6.2 Replacing Ear Pads

The ear pads are replaceable to ensure continued comfort and hygiene. It is recommended to clean or change ear pads every 3 months for optimal experience.

- Gently peel off the old ear pads from the earcups.
- Align the new ear pads with the earcups and press firmly around the edges until securely attached.

7. Troubleshooting

Problem	Possible Cause	Solution
No sound or low sound amplification.	Batteries are dead or incorrectly installed. Volume knob is too low.	Replace batteries, ensuring correct polarity. Increase volume using the control knob.
Static noise.	Volume turned up too quickly.	Turn the volume up slowly.
Earmuffs feel uncomfortable after prolonged use.	Improper fit or worn-out ear pads.	Adjust the headband for a better fit. Consider replacing ear pads if they are worn.

8. Specifications

- **Model:** EM054
- **Noise Reduction Rating (NRR):** 22 dB
- **Power Source:** 2 x AAA Batteries
- **Battery Life:** Approximately 350 hours
- **Sound Amplification:** Up to 4X
- **Noise Reduction Reaction Time:** 0.01 seconds (for sounds > 82dB)
- **Material:** Durable ABS shell, artificial leather headband, noise-canceling foam.
- **Certifications:** ANSI S3.19-1974 (US), CE EN352-1; EN352-4, EN352-6 (European)

9. Safety Information

Always ensure proper fit of the earmuffs to achieve the stated Noise Reduction Rating. Do not modify the earmuffs. Store in a cool, dry place away from direct sunlight and extreme temperatures. Remove batteries if storing for extended periods.

10. Official Product Video

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Video 1: Official ZOHAN EM054 Electronic Shooting Ear Protection overview. This video highlights the key features, design, and functionality of the earmuffs, including sound amplification and noise reduction capabilities.

11. Warranty and Support

Our products are guaranteed to be free from defects in material and workmanship for a period of **ONE YEAR** from the date of purchase. If you have any issues, concerns, or suggestions, please feel free to contact ZOHAN Inc. support.

Support Email: support@zohantech.com

Alternative Email: euzohan@outlook.com

Brand Store: ZOHAN Amazon Store

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