

ZOHAN EM054

ZOHAN EM054 Electronic Hearing Protection User Manual

MODEL: EM054

Brand: ZOHAN

1. INTRODUCTION

The ZOHAN EM054 Electronic Hearing Protection is designed to safeguard your hearing while enhancing situational awareness. These earmuffs provide active noise reduction and sound amplification, making them suitable for environments such as shooting ranges, hunting, and other noisy activities. With a Noise Reduction Rating (NRR) of 22 dB, they offer reliable protection against harmful sound levels.



Figure 1: ZOHAN EM054 Electronic Hearing Protection Earmuffs

2. KEY FEATURES

- **Noise Reduction:** Achieves active noise reduction through chip processing. Two high-gain microphones actively pick up sound and reduce noise within 0.01 seconds when ambient noise exceeds 82dB. NRR: 22 dB.
- **Sound Amplification:** Amplifies ambient sounds for improved communication and situational awareness, allowing you to hear conversations or subtle animal footsteps.
- **Volume Adjustment:** Features a convenient volume adjustment knob for easy manual control.

- **Durable Construction:** Made of high-quality rubber paint and ABS shell for enhanced durability.
- **Ergonomic Comfort:** Designed with a comfortable, adjustable headband and replaceable ear pads for extended wear.
- **Compact Design:** Foldable for easy storage and portability.
- **AUX Interface:** Includes an AUX jack for connecting external audio devices.

WHY CHOOSE ZOHAN BRAND?



**0.001s
Fast Response**



**4X Sound Amplification
(for situational awareness)**



**Clear
communication**



**27dB SNR(22dB NRR)
Hearing Protection**

Sound < 82dB

The microphone collects sound and then reduces the noise to below 82 decibels

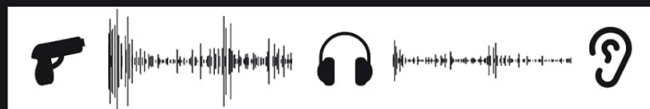


Figure 2: Overview of ZOHAN EM054 Noise Reduction and Sound Amplification

4X SOUND AMPLIFICATION

Built-in with 2 Omnidirectional Microphones



Gear Up for Hunting Season Adventure

60 75 E 105 120 ES 150 165 S 195 210

Figure 3: Sound Amplification for Hunting Applications



Figure 4: Benefits of using ZOHAN EM054 Hearing Protection

3. SETUP

1. **Battery Installation:** The earmuffs require two (2) AAA alkaline batteries (not included). Locate the battery compartment on one of the earcups, open it, insert the batteries according to the polarity indicators, and close the compartment securely.
2. **Adjusting the Headband:** Extend or retract the headband by sliding the earcups up or down along the metal wires until a comfortable and secure fit is achieved over your ears.
3. **Ear Pad Replacement:** For optimal hygiene and comfort, ear pads should be replaced approximately every three months. Gently pull off the old ear pads and snap the new ones into place.

COMFORTABLE FOR ALL-DAY WEAR

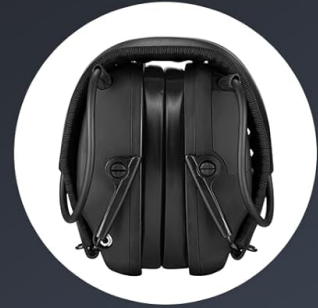
Ease of removal and installation

Snap-in Ear Cushions Design

(2 AAA Batteries
(Not Included))

Battery Installation Area

Compact & Portable Design



Waterproof Padded Headband

Adjustable Design

Replaceable Ear Cushion

2 Omnidirectional Microphones

Durable ABS Shell

Soft Thicken Ear Pads



Figure 5: Battery Installation and Adjustable Features

4. OPERATING INSTRUCTIONS

- 1. Power On/Off and Volume Control:** Rotate the volume adjustment knob located on the earcup to turn the device on or off. Continue rotating the knob to increase or decrease the amplification volume to your desired level.
- 2. Using the AUX Interface:** To connect an external audio device (e.g., MP3 player, radio), plug a 3.5mm audio cable (included) into the AUX jack on the earcup. This allows you to listen to audio while maintaining hearing protection.

Video 1: ZOHAN EM054 Electronic Ear Protection Overview and Operation. This video demonstrates the features and basic operation of the ZOHAN EM054 earmuffs, including the volume knob, AUX jack, and microphones.

5. MAINTENANCE

- Cleaning:** The earmuffs should be cleaned by hand washing only. Do not machine wash or use harsh chemicals.

- **Ear Pad Care:** Regularly inspect ear pads for wear and tear. Replace ear pads every three months or as needed to maintain optimal comfort and acoustic seal.
- **Storage:** When not in use, fold the earmuffs into their compact form and store them in a dry, clean place, preferably in a range bag or tactical backpack to protect them from damage.

6. TROUBLESHOOTING

If you experience any issues with your ZOHAN EM054 Electronic Hearing Protection, please consider the following general troubleshooting steps:

- **No Sound/Low Volume:** Check if the batteries are correctly installed and have sufficient charge. Ensure the volume knob is turned up.
- **Distorted Sound:** Replace batteries if they are low. Ensure the ear pads are properly sealed around your ears.
- **Intermittent Functionality:** Check battery connections. Ensure no debris is obstructing the microphones or speakers.

For further assistance, please contact ZOHAN customer support.

7. SPECIFICATIONS

Feature	Detail
Noise Reduction Rating (NRR)	22 dB
Power Source	2 AAA Alkaline Batteries (not included)
Approximate Battery Life	350 hours
Microphones	2 Omnidirectional High-Gain Microphones
Material	PU Leather Headband, ABS Shell, Soft Pad
Care Instructions	Hand Wash Only
Department	Unisex-Adult

8. WARRANTY AND SUPPORT

ZOHAN is committed to providing high-quality products. For any questions, concerns, or warranty inquiries regarding your EM054 Electronic Hearing Protection, please refer to the contact information provided with your product packaging or visit the official ZOHAN website for customer support.

