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Caldwell E-MAX Pro

Caldwell E-MAX Pro Electronic Hearing Protection User Manual

Model: E-MAX Pro

Brand: Caldwell

1. INTRODUCTION

The Caldwell E-MAX Pro Electronic Hearing Protection earmuffs are designed to provide high-quality hearing protection while maintaining situational awareness. These earmuffs feature a low-profile design for comfort and compatibility with shooting activities, along with electronic sound amplification and noise reduction capabilities.



Figure 1: Caldwell E-MAX Pro Electronic Hearing Protection Earmuffs.

Key Features:

- **Noise Reduction Rating (NRR):** 23-24 dB for effective hearing protection.
- **Low-Profile Design:** Ensures an uninterrupted cheek weld for shooting.
- **Adjustable Headband & Padded Ear Cups:** Provides a comfortable and secure fit.
- **Electronic Sound Amplification:** Dual microphones enhance ambient sounds for improved communication and awareness.
- **Push Button Controls:** Easy adjustment of volume.
- **Compact Folding Design:** Facilitates convenient storage and transport.
- **Power Source:** Operates on 2 AAA batteries (included).

2. SETUP

2.1 Battery Installation

1. Locate the battery compartment cover on one of the ear cups.
2. Gently slide or unclip the cover to open the compartment.
3. Insert 2 AAA batteries, ensuring correct polarity (+/-) as indicated inside the compartment.
4. Close the battery compartment cover securely.

Note: For optimal performance, use fresh alkaline batteries. Rechargeable battery packs compatible with Caldwell products are sold separately.

2.2 Adjusting Fit

1. Extend the headband by pulling the ear cups downwards until they fit comfortably over your ears.
2. Position the ear cups so they fully cover your ears, creating a tight seal around them.
3. Adjust the headband to rest on the top of your head, ensuring a snug but comfortable fit. The low-profile design is intended to minimize interference with shooting form.

3. OPERATION

3.1 Power On/Off

- To power on the earmuffs, press and hold the power button (usually located on one of the ear cups) for a few seconds until you hear an audible indication or see an LED indicator light up.
- To power off, press and hold the power button again until the device shuts down.

3.2 Volume Control

- Use the '+' and '-' push buttons on the ear cup to adjust the amplification volume of ambient sounds.
- Increase the volume to enhance communication and environmental awareness.
- Decrease the volume if ambient sounds are too loud or distracting.

The electronic circuitry automatically compresses loud noises (e.g., gunshots) to a safe level while amplifying quieter sounds.

4. MAINTENANCE

4.1 Cleaning

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

4.2 Storage

- When not in use, fold the earmuffs into their compact position.

- Store them in a cool, dry place, away from direct sunlight and extreme temperatures.
- Remove batteries if the earmuffs will not be used for an extended period to prevent leakage.

5. TROUBLESHOOTING

Problem	Possible Cause	Solution
No sound or power.	Dead or incorrectly installed batteries.	Check battery polarity. Replace with fresh AAA batteries.
Muffled or distorted sound.	Microphones obstructed or dirty. Low battery.	Clean microphone openings. Replace batteries.
Earmuffs do not fit securely.	Headband not adjusted properly.	Adjust the headband and ear cups for a snug fit around the ears.
Constant hiss or static.	Interference or inherent electronic noise.	Ensure no strong electromagnetic interference sources are nearby. This can sometimes be an inherent characteristic of electronic hearing protection.

6. SPECIFICATIONS

- **Noise Reduction Rating (NRR):** 23-24 dB
- **Power Source:** 2 x AAA batteries (included)
- **Microphones:** Dual, for directional sound amplification
- **Design:** Low-profile, folding
- **Controls:** Push button volume adjustment
- **Color:** Aqua (for this specific variant)

7. WARRANTY & SUPPORT

This Caldwell E-MAX Pro Electronic Hearing Protection product is covered by **alimited lifetime warranty** provided by Caldwell.

For warranty claims, technical assistance, or any product-related inquiries, please contact Caldwell customer service. Refer to the official Caldwell website for the most current contact information and detailed warranty terms.

Caldwell Official Website: www.caldwellshooting.com