

## PROHEAR 022

# PROHEAR 022 Electronic Ear Protection User Manual

Model: 022

Brand: PROHEAR

## INTRODUCTION

The PROHEAR 022 Electronic Ear Protection is designed to safeguard your hearing while enhancing ambient sounds for improved situational awareness. These earmuffs provide 29dB SNR noise reduction, effectively blocking harmful loud sounds. They also offer 5X sound amplification to enhance ambient sounds such as voices and footsteps. Equipped with 4 omnidirectional microphones and HD speakers, they deliver clear directional audio, making them suitable for environments like shooting ranges, hunting, and loud workplaces. The device incorporates advanced sound-activated compression technology for instant noise blocking.



Figure 1: Multi-scenario applications for PROHEAR 022 Electronic Ear Protection.

## PRODUCT FEATURES

- **29dB SNR Noise Reduction:** Effectively blocks harmful loud noises, such as gunshots.
- **5X Sound Amplification:** Enhances ambient sounds like voices and footsteps for improved awareness.

- **0.0005s Instant Noise Blocking:** Sound-activated compression rapidly suppresses loud impulses.
- **4 Omnidirectional Microphones:** Provides clear directional audio.
- **HD Speakers:** Delivers natural, distortion-free sound.
- **Comfort System:** Padded headband and soft ear cushions reduce pressure for extended wear.
- **Adjustable Telescopic Fit:** Accommodates various head sizes for a secure fit.
- **Recessed Volume Knob:** Allows for easy and precise adjustments, even with gloves.
- **3.5mm Audio Jack:** Enables connection to external devices like phones or radios.
- **Durable ABS Shell:** Constructed for resilience in rugged conditions.
- **Compact & Foldable Design:** Facilitates easy storage and transport.

# Excellent hearing protection

Rigid ABS Acoustic Chamber,  
Ergonomic Memory Foam Seal,  
Advanced Filter(Reduces gunfire, preserves speech)

Contoured ear cushions conform to your head shape,  
creating a passive noise-blocking barrier

**SNR 29dB**

Standard muffs insufficient? SNR 29dB reduction blocks 40% more impulse noise than basic range gear.

CE  
ANSI

Figure 2: Internal design for excellent hearing protection with 29dB SNR.

## SETUP

### Battery Installation

The PROHEAR 022 requires two AAA batteries (not included) for electronic functions. To install:

1. Gently remove the battery compartment cover located on one of the ear cups.
2. Insert two AAA batteries, ensuring correct polarity (+/-).

3. Replace the battery compartment cover securely.

# Premium shooting ear protection



Soft headband fits comfortably

Adjustable headband fits all sizes

Thick memory foam cushions

Durable ABS shell

Weight: 0.71 lb

Stay comfortable all day while tracking your prey

Figure 3: Location of the battery compartment and volume control knob.

### Adjusting the Headband

For optimal comfort and noise reduction, adjust the headband to fit your head snugly. The telescopic design allows for easy adjustment:

1. Extend or retract the metal wires on each side of the headband until the ear cups comfortably cover your ears.
2. Ensure a tight seal around your ears to maximize noise reduction.

# SLIM & PORTABLE READY FOR ANY ADVENTURE



Ultra-Slim Folded



Fits in Any Bag

Go further with gear that won't weigh you down -  
ultra-thin profile fits where others can't.



Hunting



Shooting



Manufacturing

Figure 4: Adjustable headband and comfortable ear cushions for extended wear.

## OPERATING INSTRUCTIONS

### Power On/Off and Volume Control

The PROHEAR 022 features a recessed volume knob for easy operation:

1. To power on, rotate the volume knob clockwise until you hear a click.
2. Continue rotating the knob to adjust the amplification level of ambient sounds.
3. To power off, rotate the volume knob counter-clockwise until you hear a click.

## Superior sound quality and versatile connectivity

Compatible with cell phones, MP3s, and other electronic devices that contain a 3.5mm jack.



Figure 5: Recessed volume control knob for easy and precise sound adjustment.

### Sound Amplification and Noise Reduction

The earmuffs are designed to amplify low-level sounds while instantly suppressing loud noises. This allows for clear communication and environmental awareness without compromising hearing protection.

- The 4 omnidirectional microphones capture sounds from all directions.
- The 5X amplification feature makes quiet sounds audible.
- When loud noises (e.g., gunshots) occur, the sound-activated compression system reacts in 0.0005 seconds to reduce them to a safe level.

## Pinpoint Sounds Around You

4 strategically placed mics work like sonar to locate sounds around you  
4-Mic Sonar System + 5X Sound Boost  
Pinpoint sounds while amplifying faint cues, with 0.0005s instant protection when shots fire.

Deer moving

Partner whispering

**VS**

Standard Muffs:  
Distorted Sound, No Directional Clue

Figure 6: Instant noise suppression in 0.0005 seconds for optimal hearing protection.

## Why Choose PROHEAR 022?

Engineered for Your Shooting Journey - From Practice to Competition.

- SNR 29dB**  
Tested noise reduction for shooting
- 0.0005s Instant Protection**  
Automatically suppresses sudden noises >85dB to protect hearing during shooting
- 5X Sound Boost**  
Amplify faint sounds like footsteps
- 4 Omni Mics**  
Capture voices & ambient sounds
- HD Audio**  
Balanced sound profile

Figure 7: 360-degree sound capture with 5X amplification and a 4-way microphone system.

## CONNECTIVITY

The PROHEAR 022 earmuffs include a 3.5mm audio jack, allowing you to connect to various external devices such as mobile phones, MP3 players, or two-way radios. This feature enables you to listen to music or communicate while maintaining hearing protection.



Figure 8: Connectivity options via 3.5mm audio jack for external devices.

## MAINTENANCE

### Ear Pad Replacement

The ear pads are designed for easy replacement to ensure continued comfort and hygiene. Replacement gel ear pads are available for enhanced comfort.

1. To remove an old ear pad, gently pry it off from the ear cup, detaching it from the plastic clips.
2. Align the new ear pad with the ear cup and press firmly around the edges until it snaps securely into place.

### General Care

- Clean the earmuffs with a soft, damp cloth. Do not use harsh chemicals or abrasive cleaners.
- Store in a cool, dry place when not in use. The foldable design allows for compact storage in the included carrying bag.
- Remove batteries if storing for extended periods to prevent leakage.



Figure 9: Ultra-slim and portable design for easy transport and storage.

## SPECIFICATIONS

Feature	Detail
Noise Reduction Rating (SNR)	29dB
Sound Amplification	5X
Noise Blocking Reaction Time	0.0005s
Microphones	4 Omnidirectional
Power Source	2 AAA Batteries (not included)
Connectivity	3.5mm Audio Jack
Material	Durable ABS shell, ultra-soft and extremely lightweight material
Certifications	ANSI-certified
Weight	0.71 lb (approx.)

## SAFETY INFORMATION

Always ensure the earmuffs are properly fitted and functioning before entering noisy environments. Regular inspection of ear pads and battery levels is recommended. These earmuffs are designed to protect against harmful noise levels but do not eliminate all sound. Maintain awareness of your surroundings.

## WARRANTY AND SUPPORT

For warranty information, product support, or to purchase replacement parts, please refer to the official PROHEAR website or contact their customer service directly. Keep your purchase receipt for warranty claims.