EARMOR M300T & M300A

EARMOR M300T & M300A Electronic Hearing Protection Earmuffs User Manual

Models: M300T (Bluetooth) & M300A (No Bluetooth)

1. INTRODUCTION

Thank you for choosing EARMOR M300T/M300A Electronic Hearing Protection Earmuffs. These earmuffs are designed to protect your hearing from harmful noise while allowing you to hear important ambient sounds and communicate effectively. The M300T model includes Bluetooth connectivity for enhanced functionality.

Image 1.1: EARMOR M300T Electronic Hearing Protection Earmuffs (Black, Bluetooth model shown).

2. Key Features

- **Advanced Hearing Protection:** Suppresses harmful noises above 82 dB in less than 1 millisecond, providing a Noise Reduction Rating (NRR) of 23dB.
- **Environmental Sound Amplification:** Enhances situational awareness by capturing and amplifying low-level ambient sounds.
- **Multiple Scanning Modes:** Offers three distinct ambient sound modes to adapt to various environments.
- **Ergonomic Design:** Features comfortable gel cushions and an adjustable padded headband for a secure and comfortable fit across various head sizes.
- **Integrated Controls (M300T & M300A):** A single, continuously adjustable knob controls power and volume.
- **Bluetooth 5.4 Connectivity (M300T only):** Allows connection to mobile devices for music and calls, even in noise-canceling mode.
- **Durable and Waterproof:** IPX5 waterproof rating ensures performance in various conditions.
- **Automatic Shutdown:** Unit automatically powers off after 4 hours of inactivity to conserve battery

life.

Image 2.1: Illustration of active noise suppression, highlighting the 23dB NRR and rapid suppression of sounds over 82dB.

Image 2.2: Close-up view of the ergonomic gel pads and adjustable padded headband, designed for comfort and fit.

3. SETUP

3.1. Battery Installation

1. Locate the battery compartments on each earcup.
2. Open the battery compartment covers.
3. Insert **2 x AAA batteries** into each compartment, ensuring correct polarity (+/-). Batteries are not included.
4. Securely close the battery compartment covers.

3.2. Adjusting Fit

1. Extend the headband by pulling the earcups downwards.
2. Place the earmuffs over your ears, ensuring the earcups fully cover your ears and create a tight seal.
3. Adjust the headband by sliding the earcups up or down until a comfortable and secure fit is achieved. The padded headband and gel cushions are designed to adapt to various head shapes.

4. OPERATING INSTRUCTIONS

4.1. Power On/Off and Volume Control

1. To power on, rotate the single control knob clockwise until you hear a click.

2. Continue rotating the knob clockwise to increase the volume of ambient sounds.

3. Rotate the knob counter-clockwise to decrease the volume.

4. To power off, rotate the knob counter-clockwise until you hear a click.

Image 4.1: The single control knob on the earcup manages both power and volume settings.

4.2. Bluetooth Pairing (M300T only)

1. Ensure the earmuffs are powered on.

2. Activate Bluetooth on your mobile device.

3. Search for available devices and select "EARMOR M300T" from the list.

4. Once paired, you can stream audio and manage calls through the earmuffs.

Image 4.2: A user demonstrating Bluetooth connectivity with a mobile device for music and calls.

4.3. Ambient Sound Modes

The earmuffs feature three ambient pickup modes to customize your situational awareness. Refer to the specific button or control on your model (M300T or M300A) to cycle through these modes. Each mode adjusts the level of ambient sound amplification.

Image 4.3: Illustration of active voice tracking and the three ambient pickup modes for customized situational hearing.

4.4. Call Management (M300T only)

When connected via Bluetooth, you can accept or reject incoming calls directly through the earmuffs. Consult your device's Bluetooth settings or the earmuffs' specific controls for detailed call management instructions.

5. MAINTENANCE

5.1. Cleaning

- Wipe the exterior of the earmuffs with a damp cloth. Do not submerge in water.
- Clean the gel cushions with a mild soap solution and a soft cloth. Ensure they are completely dry before use.
- Avoid using harsh chemicals or abrasive cleaners.

5.2. Storage

- The earmuffs feature a foldable design for easy storage. Fold them compactly when not in use.
- Store in a cool, dry place away from direct sunlight and extreme temperatures.
- Remove batteries if storing for extended periods to prevent leakage.

5.3. Water Resistance

The earmuffs are rated IPX5 waterproof, meaning they are protected against low-pressure water jets from any direction. They are not designed for submersion.

6. TROUBLESHOOTING

- **No Power:** Ensure batteries are correctly installed and not depleted. Replace with fresh AAA batteries.
- **No Ambient Sound:** Check if the earmuffs are powered on and the volume is adjusted appropriately.
- **Poor Sound Clarity:** Ensure earcups form a tight seal around your ears. Adjust fit if necessary. Check for debris in microphones.
- **Bluetooth Connection Issues (M300T only):** Ensure earmuffs are in pairing mode and within range of your device. Forget the device on your phone and re-pair.
- **Automatic Shutdown:** This is a feature to conserve battery. If it occurs unexpectedly, ensure there is activity or adjust settings if available.

7. SPECIFICATIONS

Feature	Specification
Noise Reduction Rating (NRR)	23dB
Noise Suppression Threshold	Harmful noises over 82dB suppressed in <1ms
Bluetooth Version (M300T)	5.4
Power Source	2 x AAA batteries (not included)
Waterproof Rating	IPX5
Automatic Shutdown	After 4 hours of inactivity
Department	Unisex Adult
Origin	Imported

8. WARRANTY AND SUPPORT

For warranty information, technical support, or service inquiries, please refer to the documentation included with your purchase or contact EARMOR customer service directly. Keep your proof of purchase for warranty claims.

Related Documents - M300T & M300A

EARMOR M300T	[EARMOR M300T Electronic Hearing Protector with Bluetooth 5.3 - User Manual & Specifications](#) Comprehensive user manual for the EARMOR M300T Electronic Hearing Protector. Learn about its features, safety guidelines, operation instructions for ambient listening and Bluetooth connectivity, battery replacement, specifications, approvals, FCC compliance, and warranty. Protect your hearing effectively with advanced noise-canceling technology.
EARMOR M20T	[EARMOR M20T Wireless BT5.3 Earbuds Hearing Protection User Manual](#) User manual for EARMOR M20T Wireless BT5.3 earbuds, detailing safety, features, operation, installation, and warranty. Provides guidance on using these electronic hearing protectors for noise reduction and communication in harsh environments.
EARMOR M20/M20T PRO	[EARMOR M20/M20T PRO Electronic Hearing Protection Earbuds User Manual](#) Comprehensive user manual for EARMOR M20/M20T PRO electronic hearing protection earbuds, covering assembly, installation, operation, charging, troubleshooting, specifications, safety, and warranty information.
EARMOR M20T	[EARMOR M20T Wireless BT5.3 Earbuds Hearing Protection User Manual](#) User manual for EARMOR M20T Wireless BT5.3 Earbuds Hearing Protection, detailing safety information, features, specifications, operating instructions, installation, and warranty.
EARMOR M33	[EARMOR M33 MilPro Headset User Manual: Tactical Communication & Hearing Protection](#) Comprehensive user manual for the EARMOR M33 MilPro Headset, detailing its features, operation, safety guidelines, installation, and specifications for tactical communication and hearing protection.
EARMOR C30	[EARMOR C30 Bluetooth Hearing Protection Headset User Manual](#) Comprehensive user manual for the EARMOR C30 Bluetooth Hearing Protection Headset, detailing features, operation, safety information, specifications, and warranty. Protects users from harmful noise in various industrial environments.