USER MANUAL



EARMOR®

SENSITIVE FOR LIFE

M31 MOD3

ELECTRONIC HEARING PROTECTOR

Protect your hearing, make listening safe

People run a high risk of hearing loss due to exposure to damaging levels of ambient sounds. Guns are exceptionally loud and a single gunshot can cause damage to a shooter's hearing. Construction workers might impair their hearing because of noisy working conditions. Therefore, awareness of hearing protection is the key.

We at EARMOR™ understand this situation and we are dedicated to providing the best hearing protection products on the market. Safety always comes first no matter what short of adventure you go on.



Use double hearing protection if worn in high noise environments





Low noise / frequency tuned for natural sound clarity

150 dB

140 dB

120 dB

110 dB

100 dB

90 dB

80 dB

70 dB



Rock music peak



Firearms, jet engine



Amplified rock music at 4-6 ft. / car stereo



Remote-controlled plane



Chainsaw / pneumatic drill / power drill



Lawnmower



Blender



Conversation

FEATURES


Slides
Microphones
Easy-access battery cap
ON/OFF and volume control
EARMOR

Folding Headband



Cushioned sealing rings

Easy-access battery cap

3.5mm Stereo audio input jack



INSTRUCTIONS

Installing Batteries

With an amazing bolt-lock battery cap design, simply twists the cap 30 degree to open/tighten the cap.

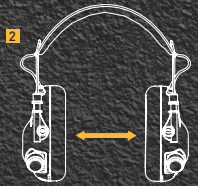


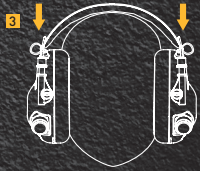


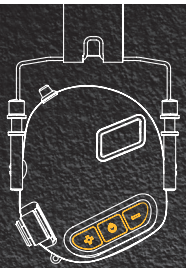
Fitting Headset

Fully extend sliders and place cups over ears so that microphones are facing forward. Then tighten headband using sliders.









Power and volume

Anti-false triggering: Press and hold the ⏻ button for 3 seconds to power on/off, press "+" "-" button to adjust volume.



Audio input

Connect device using 3.5mm stereo audio cable supplied.

Turn on headset:

- Use headset to control ambient volume.
- Use device to control input volume.

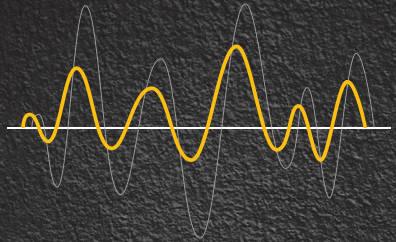


Auto shut-off

After 4 hours of non-activity, the hearing protector will automatically powers down with 3 times beep. Simply press ON/OFF button again to turn it back on when necessary.

Variable amplification levels:

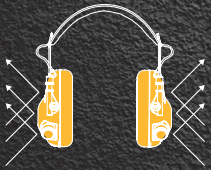
Developed to help reduce echoes and reverberations when shooting in indoor and outdoor environments, there are 4 levels of amplification level, indicated by beeps as the volume is changed: 1st amplifier level is 0DB, 2nd level is +3DB, 3rd level is +6DB, 4th level is +9DB.



Dynamic voice tracking

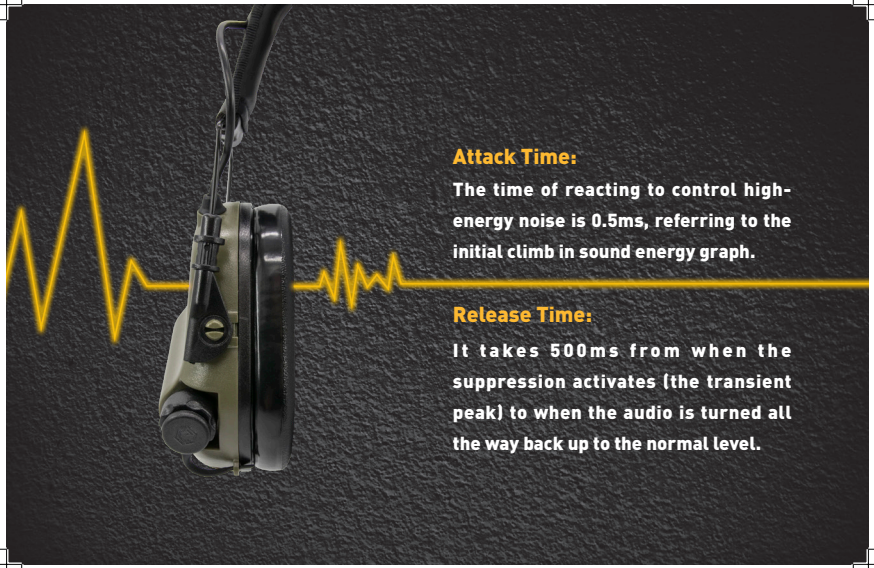
Voice Noise

Clear voice tracking seeks voice in background/environmental noise and reduces the noise to improve speech intelligibility.



Increased RF immunity for EMI environments

EMI (Electromagnetic Interference)/RFI (Radio Frequency Interference) Filter can suppress interference generated by the device or other equipment, making the M31 MOD3 more immune to electromagnetic interference signals presented in the environment.



Attack Time:

The time of reacting to control high-energy noise is 0.5ms, referring to the initial climb in sound energy graph.

Release Time:

It takes 500ms from when the suppression activates (the transient peak) to when the audio is turned all the way back up to the normal level.

IMPORTANT USER INFORMATION



For the best protection, ear cushion sealing ring should seal firmly against head, Anything that interferes with the seal - such as long hair(pull back to the extent possible), thick or poorly fitting eyeglass temples, pencils or caps - will lessen the protection.



Earmuffs must be regularly inspected for cracks or worm parts, it may affect the acoustic performance of the earmuffs. Typical life for foam cushion sealing rings is 12 months.



Clean the exterior of the hearing protector regularly with soap and warm water. Do not immerse the whole headset in water.



Do not store the hearing protector behind a windshield or at temperatures above 131°F (55°C).



Certain chemical substances may damage this product. Contact the manufacturer for more information.

CAUTION

To reduce the risks associated with harmful noise or chemicals:

If instructions are not followed, bodily injury may result or protection may be severely affected.

When interference increases or the sound level becomes too weak, it is time to change the batteries.

Do not store the batteries installed. A leaking battery may cause bodily injury or damage to the hearing protector.

These hearing protectors help reduce exposure to hazardous noise and other loud sounds. Misuse or failure to wear hearing protectors at all times when you are exposed to noise may result in hearing loss or injury.

If there is any drainage from your ear or if you have an ear infection, consult with your physician before wearing hearing protection. Failure to do so may result in hearing loss or injury.

For proper use, see user instructions or contact EARMOR Technical Service via Email: CS@OPSMEN.COM

APPROVAL

Earmor M31 MOD3 is tested and approved in accordance with ANSI S3.19-1974 Standard at Guangzhou OPSMEN Tech Co., Ltd. China.

Internal level dB(A)

Earmor M31 MOD3 Attenuation data according to American National Standards Institute Specifications ANSI S3.9-974(in passive mode, electronics switched off)

TEST FREQ.(HZ)	125	250	500	1000	2000	3150	4000	6300	8000	NRR
MEAN ATTENUATION(DB)	17.7	19.1	24.7	29.6	30.1	37.6	40.0	41.7	40.5	22
STANDARD DEVEATION(DB)	3.1	1.9	2.3	2.3	2.2	3.2	3.4	2.7	3.1	

Audio input level

The audio level in the hearing protector is dependent on the audio input level. To prevent harmful noise levels, the hearing protector audio level is limited to 82dB(A) when connected to a Personal Music Player. If the hearing protector is connected to a PMP or other device with a very high output level, it is the user's responsibility to set the audio input level to a safe level.

WARRANTY

The EARMOR M31 MOD3 electronic hearing protector is warranted to be free of defects in material and workmanship for a period of 1 year from the date of original purchase. OPSMEN will, at its option, repair or replace without charge, except for the transportation costs, parts that fail under normal use and service when operated and maintained in accordance with our instructions.

The warranty is nullified in all of the following situations:

1. The product(s) is/are broken down, reconstructed and/or modified by unauthorized parties.
2. The product(s) is/are damaged through improper use.
3. The product(s) is/are damaged by leakage of batteries.

CONTACT

For the latest information on OPSMEN/EARMOR products and services, please contact a local OPSMEN distributor/dealer or send an email to cs@opsmen.com

The OPSMEN official website WWW.OPSMEN.COM shall prevail in case of any product data changes.

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