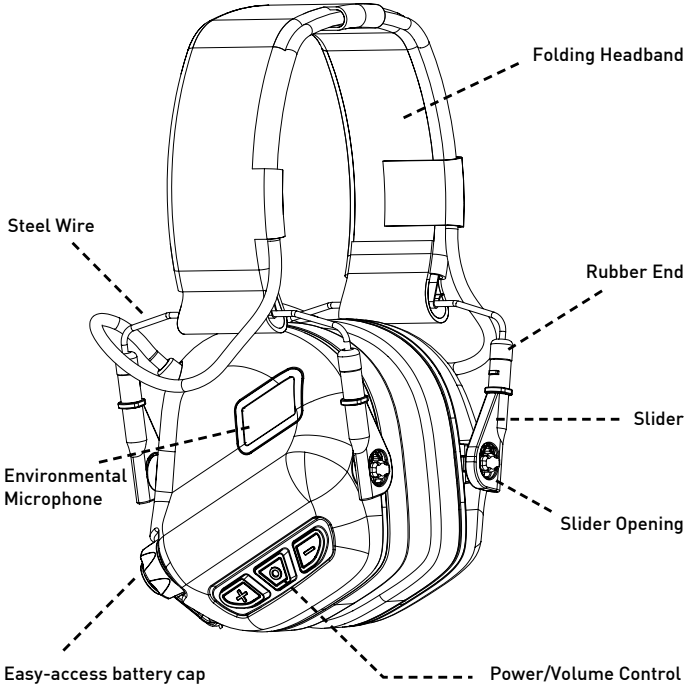
M31 PLUS

Usermanual

Congratulations and thanks for your choosing EARMOR®
EARMOR® Hearing Protectors designed to protect users from harmful noise.

FEATURES



APPROVALS

EARMOR® M31 Plus Headset are tested and certified according to the following standards:
ANSI S3.19-1974
EN 352-1: 2020 / EN 352-4: 2020 / EN 352-6: 2020 / EN 352-8: 2020

Noise Reduction Rating: 22 dB

EARMOR® M31 Plus Headset Attenuation data, American National Standards Institute specifications:
ANSI S3.19-1974

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	

Single Nmber Rating: 29dB

EARMOR®M31 Plus Headset Appendix A Attenuation DataIndividual and Summary Attenuation Date for Hearing Protective Devices EN352-1:2020 | SNR^{m}=30.3 / SNR^{s}=1.2 / SNR(dB)=29

SUBJECT	63	125	250	500	1000	2000	4000	8000	SNR(dB)
MEANS	20.5	16.4	21.5	25.4	29.7	30.2	41.6	41.3	29
STD.DEV	3.6	2.8	2.6	1.9	2.2	2.5	3.0	3.0	
MEAN-SD	16.9	13.6	18.9	23.5	27.5	27.7	38.6	37.9	

DESCRIPTION

The EARMOR M31 Plus is an electronically enhanced noise-canceling headset designed for specialized tasks. It features communication capabilities and is capable of enhancing subtle environmental sounds, tracking human voices with high fidelity optimization, while also blocking dangerous noises exceeding 82 decibels (such as explosions and gunshots). It not only protects hearing, enhances conversation clarity, but also increases situational awareness of the surrounding environment. The built-in EMI filtering system effectively eliminates electromagnetic interference generated by other electronic devices. The M31 Plus is equipped with an AUX interface, allowing connection to smartphones, tablets, computers, and other players using a compatible 3.5mm audio cable, meeting individual entertainment needs. The newly added quick-detach function also allows for easy switching of accessory attachments in hazardous environments.

INFORMATIONS

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 and replaced as needed. 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.
- The product is suitable for transport in original packaging.
- The earmuffs passes small, meduim and large size ranges, compliant to EN 352- 1:2020.

CAUTION

Failure to follow usage instructions may result in personal injury or significant impact on the headset's performance, such as increased interference or weakened volume. In such cases, the batteries should be replaced promptly. Wearing a headset helps reduce the risk of exposure to noisy environments, and any misuse or failure to wear the headset can lead to hearing impairment or loss.

If you have any discomfort or infection in your ear, please consult a relevant doctor before wearing the headset to avoid causing hearing impairment or loss.

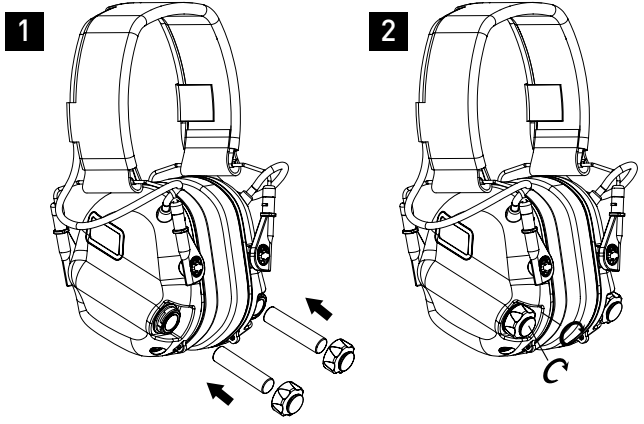
For proper use, see user instructions or contact EARMOR® customer service Email: cs@earmor.com

TO REDUCE THE SAFETY RISK WHEN USING THE PRODUCT

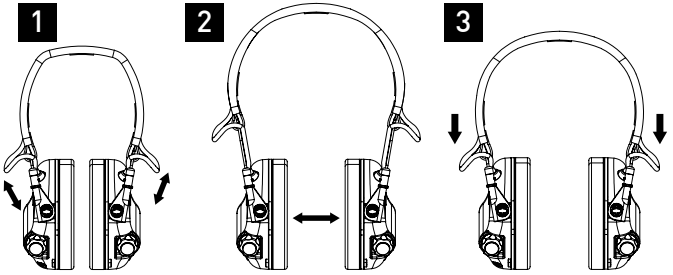
- Only use the specified type of battery provided by OPSMEN.
- If the headset is not to be used for a long time, please remove the batteries to prevent leakage that may damage the headset or cause personal injury.
- If the microphone or any accessory is damaged or malfunctioning, please cease usage immediately.
- Contact OPSMEN official after-sales mailbox cs@earmor.com for maintenance service.

OPERATING INSTRUCTIONS

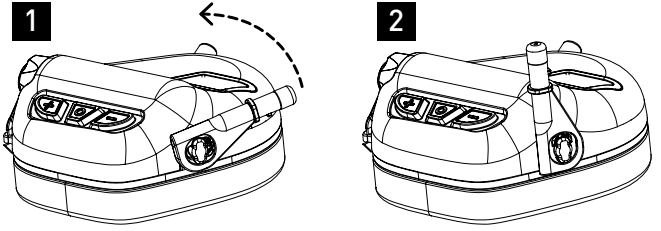
1. **Battery Installation**
   Twist counterclockwise to open the battery cover and insert AAA batteries, then twist clockwise to securely close the battery cover.



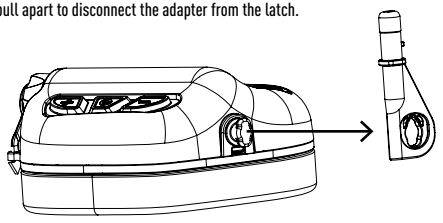
2. **Adjusting the Headband**
   Slide out the earcups to ensure the earcups fully cover the ears, then adjust the height of the cups by sliding them up or down while holding the headbandcin place. Ensure the ear fits within the ear cushion.



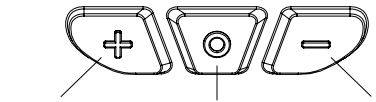
3. **Quick Release for Headband Adapter**
   Step 1. Rotate the plastic slider of adapter perpendicular to the earcups.



Step 2. Gently pull apart to disconnect the adapter from the latch.



Button Operations:



Volume Up (+) Button Power/On-Off Button Volume Down (-) Button

Operation List:

Action	Button	Headset Status	Sound Prompt
Power On	Press and hold the Power Button for 2 seconds	Off State	"Power On"
Power Off	Press and hold the Power Button for 2 seconds	On State	"Power Off"
Volume Adjustment	Click Volume+/- Button	On State	Five volume levels available.If at the maximum/minimum level, sound prompts "DeDe" (max volume)/ "DuDu" (min volume)
Auto-off after 4 hours	Auto power-off after 4 hours without any operations	Standby State	
Low Battery Alert	Battery voltage at 2.55V signals a low battery alert	On State	"Battery Low"
Low Battery Shutdown	Battery voltage below 2.45V triggers auto shutdown	On State	"Power Off"

Product Specifications	Model/Specification	Parameter
Pick-up Characteristics	Activation Noise Reduction Level	82db
	Noise Reduction Value	22dB
	Microphone Sensitivity	-42dB±2dB
	Pick-up Pattern	Omnidirectiona
Speaker and Microphone Components	Speaker	Dynamic Coil
	Speaker Impedance	32 OHM
	Speaker Size	30mm
	Speaker Rated Power	≈ 30mW
	Speaker Frequency Response Range	20Hz-20KHz
	Audio Plug	3.5mm AUX Input
Operating Time	Duration	60 hours
	Working Temperature Range	-20~60°C
	Storage Temperature Range	-40~70°C (Use after returning to operational temperature)
Power Source	2 x AAA Batteries	
Materials	ABS+POM+Metal	
Net Weigh	295g±10g	

FCC WARNING

This device complies with part 15 of the FCC Rules. Operation is subject to the following two conditions: (1) This device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

Note: This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or tele- vision reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

Note: The Grantee is not responsible for any changes or modifications not expressly approved by the party responsible for compliance. such modifications could void the user's authority to operate the equipment. The device has been evaluated to meet gen eral RF exposure requirement.
To maintain compliance with FCC's RF exposure guidelines, the distance must be at least 20 cm between the radiator and your body, and fully supported by the operating and installation configurations of the transmitter and its antenna(s).

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

WARRANTY

EARMOR ® M31 Plus is warranted to be free of defects in material and workmanship for a period of 1 year from the date of original purchase.
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.

CE 2797	Mandatory conformity marking.CE mark below by Notified Body Number,The variouscomponents of the CE marking must have the same verticaldimension, and may not be smaller than 5 mm.
M31 Plus	Model Name/Number.
EN 352	EN 352-1, Hearing protectors - General requirements - Part 1:Earmuffs EN 352-4, Hearing protectors - Safety requirements - Part 4:Level-dependent earmuffs EN 352-6, Hearing protectors - Safety requirements - Part 6:Earmuffs with safety-related audio input EN 352-8, Hearing protectors - Safety requirements - Part 8:Entertainment audio earmuffs
EARMOR OPSMEN®	Manufacturer's logo
	This product contains electrical and electronic componentsand must not be disposed of using standard refuse collectionPlease consult local directives for disposal of electrical andelectronic equipment.

EARMOR®

FC CE EN352 ANSI S3.19-1974 RoHS

CONTACT

For the latest information on EARMOR® products and services
Please contact a local distributor or email:
info@earmor.com / cs@earmor.com
EARMOR® official website http://www.earmor.com/
shall prevail in case of any product data changes.

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