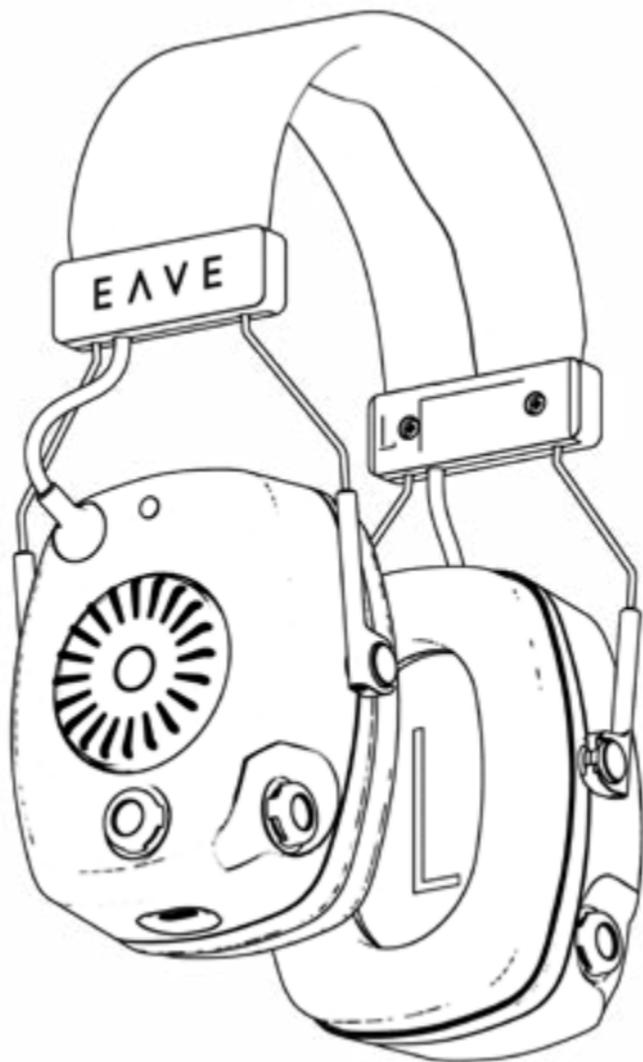


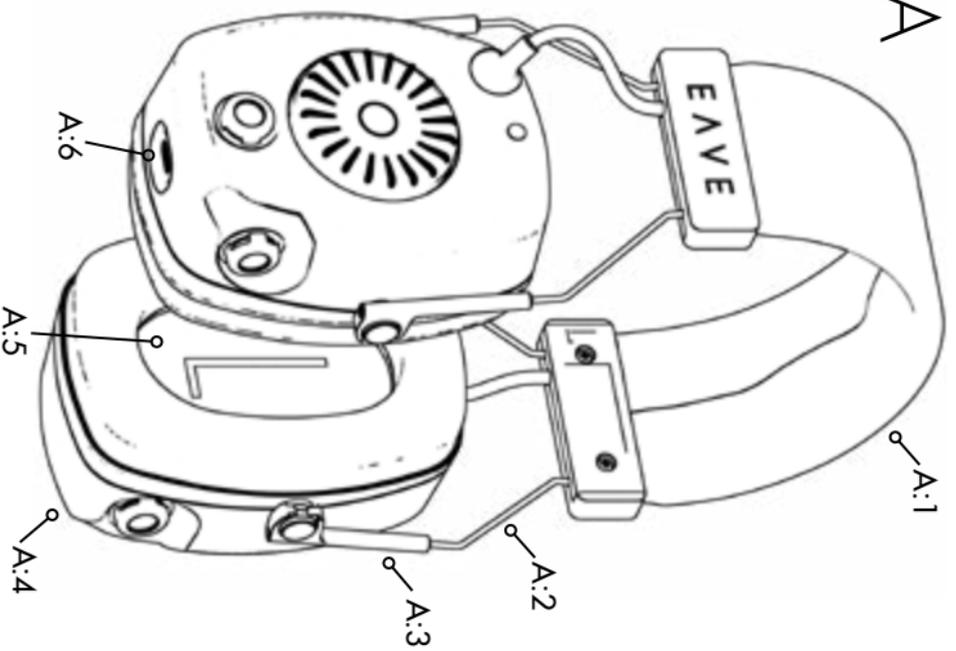
EAVE WORK MKI

User Manual

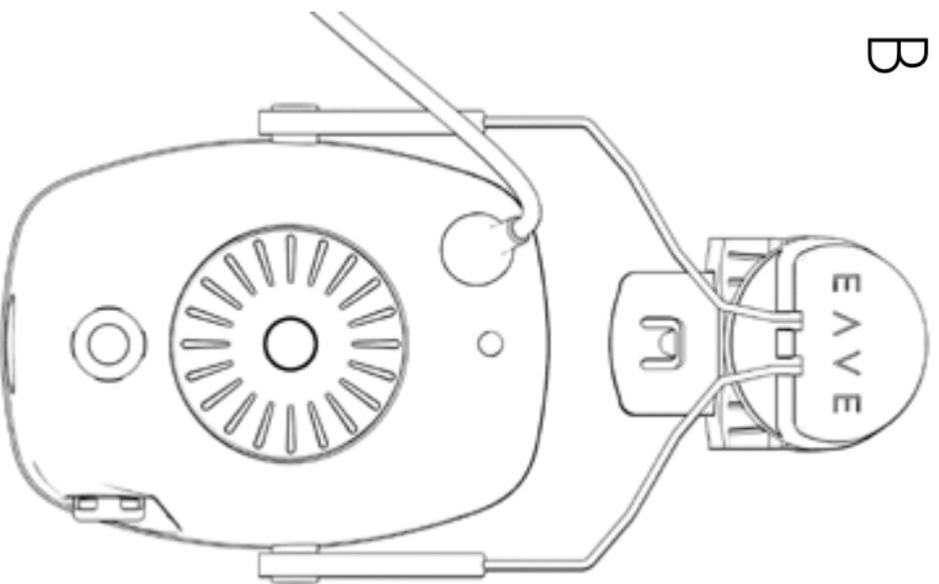


IMPORTANT: Please read this instruction manual carefully before using the EAVE WORK MKI Ear Defenders, and save it for future reference. Failure to follow the instructions contained in this manual may adversely affect your health.

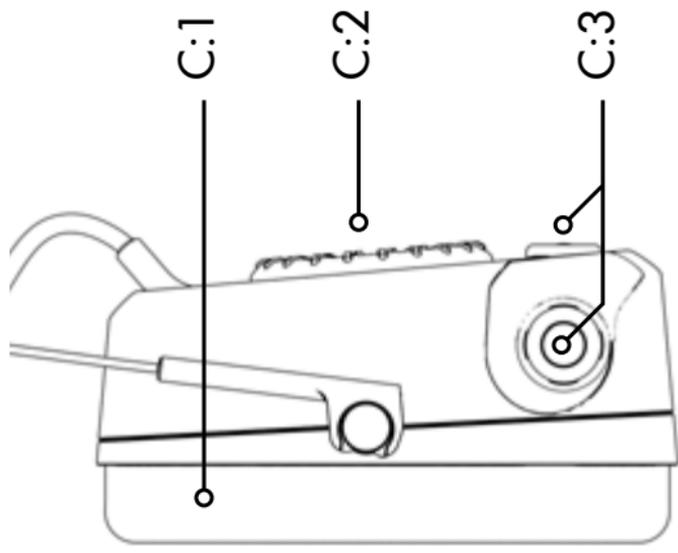
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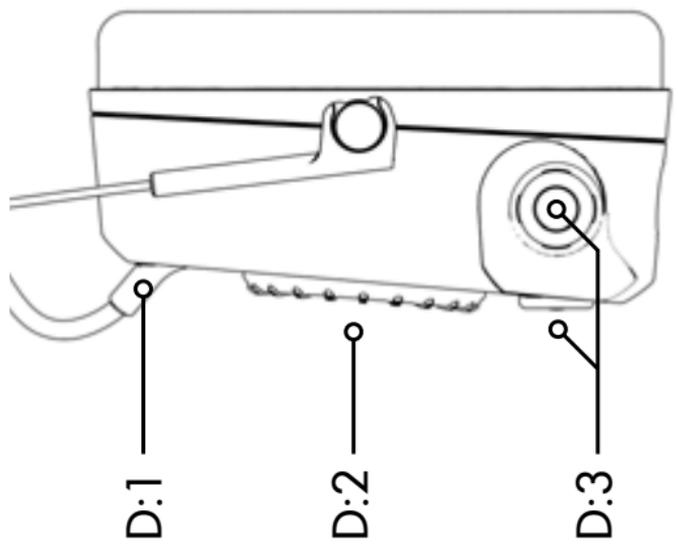
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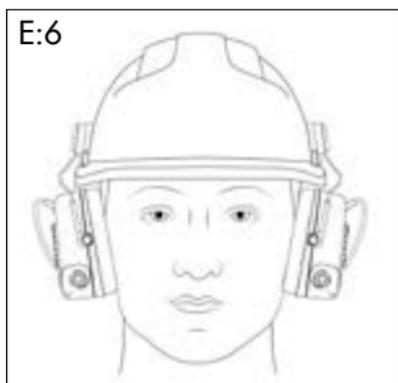
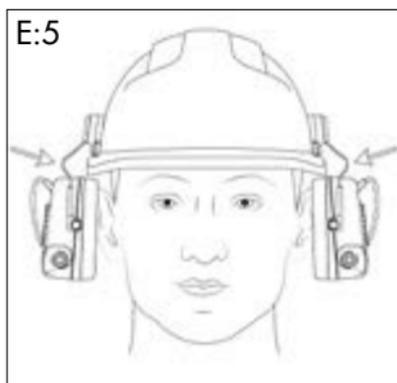
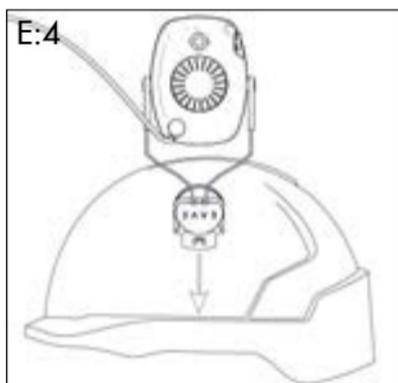
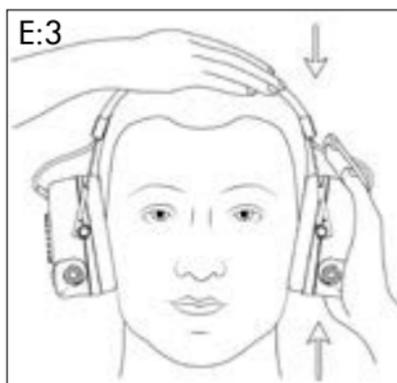
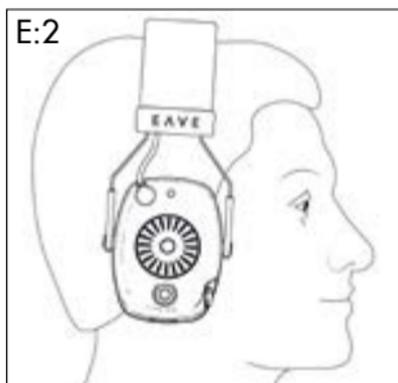
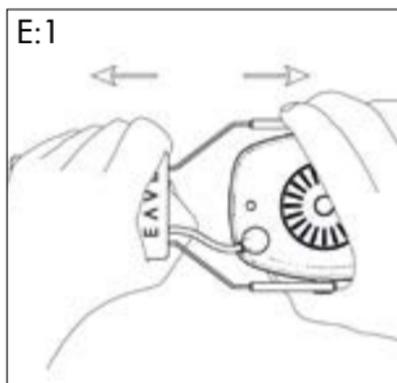


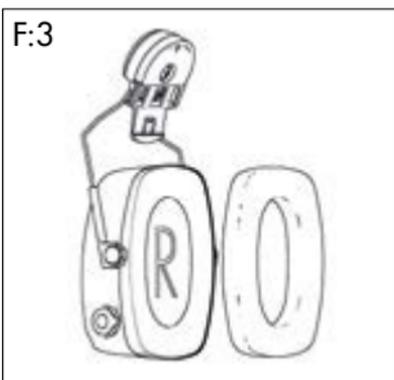
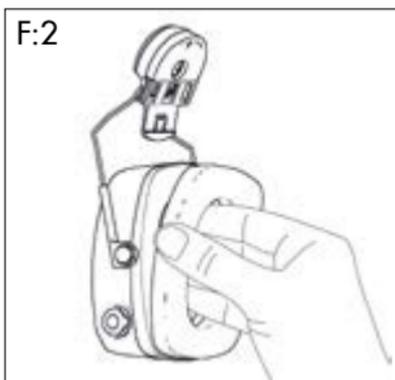
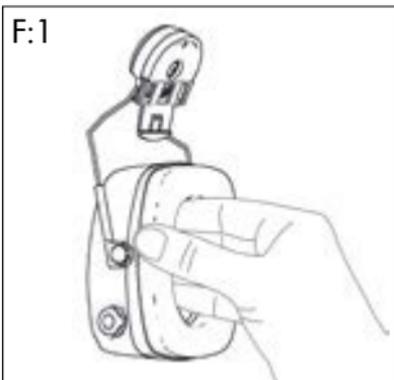
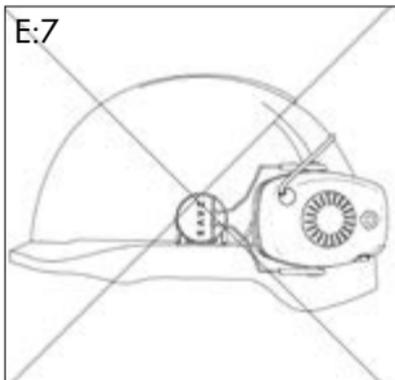
C



D







GB, IE, ZA, AE, AU, NZ

Hearing protector with level-dependent function for ambient listening, Bluetooth connection for hands-free/headset or A2DP and external equipment. Read these instructions carefully before use and save for future reference.

Components/Parts

- A:1 Headband (Vegan Leather, ABS, PP)
- A:2 Headband wire (Stainless Steel)
- A:3 Snap-in attachment (POM)
- A:4 Ear cup (ABS, TPU)
- A:5 Replaceable ear pad (Foam)
- A:6 USB socket

B Helmet mount

- C:1 Replaceable ear cushion (TPU Film, PU foam, Silicone gel)
- C:2 Volume dial (ABS)
- C:3 Beam forming microphones

- D:1 LED indicator (PC)
- D:2 Multifunction button and volume dial (ABS)
- D:3 Beam forming microphones

Fitting and adjustment

Note: Before wearing the ear defenders, clear the space around the ears so the ear cushions fit snugly. Spectacle frames should be as thin as possible and fit close to the head to minimise acoustic leakage.

Headband

- (E:1) Slide out the ear cups from the headband.
- (E:2) Wear the ear defenders with the headband across the top of the head.
- (E:3) The length of the Headband wire can be changed by holding the headband against the head and adjusting the position of the ear cup until it produces a comfortable and complete seal with the head.

Helmet mount

- (E:4) Insert the helmet mount in the slot on the helmet and push until it clicks into place.
- (E:5) Working mode: To switch the unit from ventilation mode to working mode, press the headband wire inwards until a click is made from both sides. Make sure the ear cups and the headband wire do not press on the edge of the helmet when in working mode as this can cause noise leakage.

(E:6) Ventilation mode.

(E:7) Avoid placing the ear cups against the helmet as this prevents ventilation and may cause additional strain on the neck.

EAVE WORK MKI ear defenders are certified for use with the helmet detailed in table K of this document.

Usage/Functions

Switching the headset on and off

Press and hold the multifunction button for 1 second to switch the headset ON or OFF. A voice prompt will confirm with the message “power on” followed by “battery status” – “low” or “high”. The current settings are saved when the headset is switched off.

Passthrough volume

The passthrough volume setting adjusts the level-dependent function for ambient sound passthrough. It is adjustable by turning the volume dial on either the left or right ear cup, forwards for an increase in volume and backwards for a decrease in volume. The volume is limited to 82 dB(A) which allows for 8 hours of operation at maximum sound exposure.

Bluetooth function

Bluetooth is the name of a technical standard for short range wireless transmission, with a working range of approximately 10 metres. This headset can be used with other Bluetooth units that support the following profiles: headset profile (HSP), hands-free (HFP), or streaming audio (A2DP).

Bluetooth pairing (Linking two Bluetooth devices)

Pairing mode can only be reached from the OFF state. Turn on the headset by holding the multifunction button for 4 seconds. After 1 second a voice will prompt “power on”, and after a further 3 seconds a three note scale will be played indicating Bluetooth pairing mode.

Perform a search for new devices on the remote Bluetooth unit. Select “EAVE XXXX”. A voice prompt will confirm with the message “Your headset is connected” the first time the devices are paired and “Paired” every time the devices are reconnected. The headset will remember the last paired device and automatically re-pair until Bluetooth pairing mode is re-entered. Ensure a reliable connection has been made before relying on bluetooth for safety critical information.

Bluetooth volume

The Bluetooth volume setting adjusts the volume level from the Bluetooth source. It is adjustable by turning the volume dial on either the left or right side ear cup. The volume is limited to 82 dB(A) which allows for 8 hours of operation at maximum sound exposure.

Managing telephone calls

To manage a phone call, the headset must be paired with a phone with Bluetooth capability. See above Bluetooth pairing (Linking two Bluetooth devices).

Answer a phone call

Press the multifunction button.

Reject a phone call

Press the multifunction button twice.

End a phone call

Press the multifunction button.

Batteries

Charging the battery

1. Plug the small end of the Micro USB cable into the USB socket located on the right ear cup (A:6).
2. Plug the other end into a USB wall charger or computer that is powered on.

Checking the battery

While charging, the LED indicator holds solid red. When fully charged the LED indicator holds solid blue. The ear defender functions for different lengths of time in different modes:

Charge time: 3 hours for a full charge.

Passthrough mode: 50 hours on a full charge.

Bluetooth streaming mode: 20 hours on a full charge.

Phone call mode: 30 hours on a full charge.

Each time the ear defenders are powered on, a voice prompt will confirm the battery status as "battery low" or "battery high".

Note: The EAVE WORK MKI contains a rechargeable battery. Removal of the rechargeable lithium-polymer 1400 mAh battery in this product should be conducted only by a qualified professional. Please contact EAVE for further information.

Illuminated LED description

The current status of the headset can be determined by the state of the LED indicator (Light Emitting Diode).

1. LED indicator holds solid aqua - Power on/off.
2. LED indicator flashes green and blue - Bluetooth Pairing mode.
3. LED indicator flashes green - Able to be connected to the last paired device.
4. LED indicator flashes blue - Connected to a Bluetooth Device.
5. LED indicator holds solid red - Charging.
6. LED indicator holds solid blue - Fully Charged.
7. LED indicator alternates red and blue/green - On and Charging
(Note it is not recommended to use the headset while it is charging).

Important user information

In environments with more than 85 dB noise level, hearing protection must be worn. The hearing receptors in the inner-ears may be irreparably damaged if hearing protectors are partially removed for even a very short time in a noisy environment.

The headset must be worn, adjusted, cleaned and maintained in accordance with this manual. As with any hearing protector, incorrect use or failure to follow the instructions supplied with this product could result in permanent disability due to exposure to noise.

This ear defender is provided with level-dependent attenuation. The wearer should check correct operation before use. If distortion or failure is detected, the wearer should refer to the manufacturer's advice for maintenance. Do not turn down environmental passthrough below a sensible level such that any warning sound for the given environment can still be heard.

For best protection, brush aside excess hair around the ears to ensure the cushions fit snugly against the head. The arms of any spectacles or goggles worn should be as thin as possible to allow the hearing protector to fit closely to the head, minimising any acoustic leakage. The acoustic seal may be adversely affected by wearing other PPE such as respirators, If in doubt, contact your safety officer or EAVE. Do not put excessive force on the ear cushion as it may damage the cushion.

This hearing protector is provided with electrical audio input. The wearer should check correct operation before use. If distortion or failure is detected, the wearer should refer to the manufacturers advice. When passthrough is switched off, ambient sounds may not be heard, which could be hazardous. Other than for broadcast signal receivers, the range of input signal levels for which this limitation is maintained.

Warning!

Performance may deteriorate with battery usage. It is not recommended to use the headset while it is charging. The output of the level-dependent circuit of this hearing protector may exceed the external sound level. The output of the electrical audio circuit of this hearing protector may exceed the daily limit sound level. The audibility of warning signals at a specific workplace may be impaired while using the entertainment facility.

Maintenance

Replacing ear cushion and ear pad

(F:1) Place fingers under the edge of the ear cushion and pull straight out.

(F:2) Remove replacement ear cushion from adhesive paper and place on ear cushion holder(F:3).

(F:4) Press down firmly on the ear cushion to ensure robust contact between the ear cushion and the ear cushion holder.

Cleaning

After prolonged use, or other situations in which the headset attracts moisture inside the cups, remove the ear cushions and ear pads to allow the hearing protector to dry before the next use.

Do not store the headset in temperatures exceeding +50 °C, for example on a car dashboard or windowsill.

The headset (and/or the ear cushions) can eventually degrade from normal wear and tear. Inspect regularly for signs of any physical damage and replace if necessary. This product may be adversely affected by certain chemical substances. Further information should be sought from EAVE. The fitting of hygiene covers to the cushions may affect the acoustic performance of the ear defenders.

Use and storage conditions

Do not store the hearing protector at temperatures above +50 °C (for example on a dashboard or window sill), or at temperatures below -20 °C. Do not use the hearing protector at temperatures above +50 °C, or below -20 °C.

Disposal of headset

This product is covered by the WEEE directive 2002/96/EC and is recyclable. Dispose of the product in accordance with national regulation. See a local recycling system for electronic products or return your headset back to EAVE for recycling.



Technical Data

Standard and approval

EAVE hereby declares that the EAVE™ WORK MKI™ Headset, is tested as a hearing protector in accordance with (EU) 2016/425 PPE Regulation, the EMC directive 2004/108/EC and the RoHS directive 2011/65/EU. It thereby fulfils the requirements for CE marking.

EN 352-1:2002, EN 352-3:2002, EN 352-4:2001, EN 352-6:2002 and EN 352-8. PZT GmbH, An der Junkerei 48 F, 26389 Wilhelmshaven, Germany (Notified Body number 1974).

EN 61000-6-2:2005, EN 61000-6-3:2007
EMC Test Club,
126 Great North Road,
Hatfield,
Hertfordshire,
AL9 5JN, United Kingdom

Accessories & Spare Parts

EAVE USB cable

USB cable used to charge the headset.

EAVE Smart Hub

A USB Hub used to charge the headset and transfer noise monitoring data to EAVE.

WORK MKI is a trade mark owned by EAVE, 48 Kingsway Place, London EC1R 0LU
Bluetooth® is a trade mark owned by Bluetooth Special Interest Group, Inc. Kirkland, Washington, SA

As a manufacturer, EAVE guarantees that with normal use, the products work without any problem for a period of one year from the date of purchase, in accordance with instructions and technical specifications of the product. The labels affixed on the products with serial numbers shall not be removed, in any case. If the label of the product is removed, the warranty is no longer valid.

Industrial safety helmet attachment (Table K):

EAVE WORK MKI ear defenders are certified for use with the helmet detailed in table K of this document.

Explanation of the industrial safety helmet attachment table:

1. Helmet manufacturer
2. Helmet model
4. Head size: S = Small, M = Medium, L = Large

Explanation of the attenuation data table (Table L):

1. Frequency (Hz)
2. Mean attenuation (dB)
3. Standard deviation (dB)
4. Assumed Protection Value, APV ($\alpha = 1$)(dB)

Explanation of electrical audio input level (Table M):

1. Input signal level U (mV, RMS)
2. Mean sound pressure level (dB(A))
3. Sound pressure level standard deviation (dB)
4. Input signal level for which the mean plus one standard deviation equals 82 dB(A)

Explanation of criterion levels (Table N):

Criterion level is the sound pressure level in dB(A) of the noise environment resulting in a sound level of 85 dB(A) effective to the ear while wearing the hearing protectors. Three different criterion levels are defined related to the frequent content of the noise.

H = criterion level for high frequency noise.

M = criterion level for medium frequency noise.

L = criterion level for low frequency noise.

K) Helmet certified for use with EAVE WORK MKI ear defenders

Helmet Manufacturer	Helmet Model	Head size
JSP	EVO Lite	S / M / L

L) Attenuation

EAVE WORK MKI (Headband, 147g MEAN MASS TO THE NEAREST GRAM)

Frequency (Hz)	63	125	250	500	1000	2000	4000	8000
Mean attenuation (dB)	19.0	14.1	22.2	31.1	39.7	36.6	37.0	37.09
Standard Deviation (dB)	4.5	2.2	2.1	2.7	3.2	3.2	3.7	3.4
APV	14.5	11.9	20.1	28.4	36.6	33.5	33.3	34.5
SNR = 31 dB	H = 34 dB		M = 29 dB			L = 20 dB		

EAVE WORK MKI (Helmet attachment, 147g)

Frequency (Hz)	63	125	250	500	1000	2000	4000	8000
Mean attenuation (dB)	19.0	14.1	22.2	31.1	39.7	36.6	37.0	37.09
Standard Deviation (dB)	4.5	2.2	2.1	2.7	3.2	3.2	3.7	3.4
APV	14.5	11.9	20.1	28.4	36.6	33.5	33.3	34.5
SNR = 31 dB	H = 34 dB		M = 29 dB			L = 20 dB		

M) External input

RMS Voltage U (mV)	Mean sound Pressure (dBA)	Standard Deviation (dBA)
9	69.7	1.6
15	74.4	1.6
30	80.5	1.3
53	85.4	1.3
99	90.1	1.3

The electrical input level for which the sound pressure level is equal to 82 dB(A): 30mV

N) Criterion levels

EAVE WORK MKI	H = 105 dB(A)
	M = 105 dB(A)
	L = 102 dB(A)

Warranty

The warranty for purchased units covers replacement of an EAVE headset that fails under normal working conditions and that can be returned to EAVE.

Accidental damage to the EAVE headset(s) that occurs during normal use is covered in as far as if the EAVE headset failed when in use in accordance with this instruction manual.

Lost or stolen items are not covered under the warranty.

Lost or stolen leased headsets will be charged for at purchase price.

Important Notice

EAVE does not accept liability of any kind, be it direct or consequential (including, but not limited to, loss of profits, business and/or goodwill) arising from reliance upon any information herein provided by EAVE. The user is responsible for determining the suitability of the products for their intended use. Nothing in this statement will be deemed to exclude or restrict EAVE's liability for death or personal injury arising from its negligence.

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