

## **USER INSTRUCTION**

### **uvex aXess one:**

Active earmuffs with Bluetooth® function for communication, audio streaming and a listening through function called RAL (Real Active Listening). The uvex aXess one limits the sound pressure level of the audio signal for entertainment purposes to 82dB(A). The perceptibility of warning signals at certain workplaces may be impaired when using the sound reproduction system.

The uvex aXess one is equipped with foldable headband and continuous length adjustment.

This is a category III, harmful noise, PPE product.

### **Warning:**

This hearing protection serves to protect against harmful noise when used in accordance with these instructions for use. Wear the hearing protection during the entire time you are in the noise area. The hearing protection must be checked before each use. Sealing pads may show signs of age, look for defects or cracks and check the flexibility of the sealing pads. If damaged, do not use the hearing protection. Replace sealing cushions twice a year to maintain seal, hygiene and comfort. Brush long hair to the side and remove jewelry or other objects that interfere with the acoustic seal. The fitting of hygiene covers to the cushions may affect the acoustic performance.

This earmuff is equipped with a communication device. The user should check for proper operation before use. If distortion or failure is detected, the user should follow the manufacturer's recommendations for maintenance. Warning: The output sound pressure level of the communication device of this hearing protector may exceed the daily limit. This earmuff is equipped with level-dependent sound attenuation. The user should verify proper operation before use. If battery displacement or failure is detected, the user should follow the manufacturer's advice for battery maintenance and replacement. Warning: performance may deteriorate due to battery wear. The typical duration of continuous use that can be expected from the earmuff battery is 50 hours. Warning: Sound output from the sound regeneration circuitry may exceed the external sound level. Failure to follow the instructions may adversely affect the effectiveness of the earmuffs, resulting in hearing damage.

### **Storage:**

Storage location, in original packaging, dry, clean, protected from light, UV and heat.

heat protected in the temperature range -10° to 55 °C, humidity max. 85%.

Storage period 5 years, from date of manufacture. Date of manufacture see product

or packaging. Make sure that during storage the headband is not stretched and the sealing cushions are not compressed. In case of longer storage, the battery must be charged intermediately.

### **Useful life:**

Useful life, 5 years from date of manufacture. Recommendation regular replacement of the sealing cushions extends the useful life. Dispose of the product after expiry or immediately if it is damaged or can no longer be cleaned.

### **User instruction:**

1. Pull apart and put on hearing protection capsule (fig. 1)
2. Positioning the capsule by sliding it up or down at the temple ends. The ears must be completely covered and sealed. (fig. 2)
3. Note right/left direction, the voice microphone must face forward to get good voice quality during communication
4. Correct fit (fig. 3)

### **Cleaning, disinfection:**

Do not use disinfectants, solvents or chemical substances for cleaning, this product may be adversely affected by certain chemical substances. Further information should be requested from the manufacturer. Clean with damp cloth with mild soapy water, allow to dry before reuse.

Do not immerse hearing protection in water!

### **Maintenance:**

Replace sealing cushion, pull off old sealing cushion (Fig. 5a).

Position new sealing cushion, cushion vent downwards (Fig. 5b)

Press sealing cushion firmly all around (Fig. 5c)

### **Accessories:**

Hygiene kit Art. No: 2599.972

Microphone covers Art. No: 259.2640

Comfort pad Art. No: 259.9978

Earmuff bag Art. No: 200.0002

### **Components:**

Headband: Stainless steel /PVC/PUR-foam

Cup: ABS  
Sealing cushion: PVC/PUR-foam  
Absorptive faom: PE

**Authorization:**

The product mmets the harmonized standard EN 352-1:2020, EN 352-4, EN 352-6, EN 352-8, ANSI S-3.19-1974, CSA Z94.2-02, AS/NZS 1270:2002 and complies with the PPE regulation (EU)2016/425 and 2014/53/EU, RED 2014/53/EU and FCC.

The applicable jurisdiction can be found in the Declaration of Conformity; this can be found at:

[www.uvex-safety.com/ce](http://www.uvex-safety.com/ce)

for UK: [www.uvex-safety.co.uk/en/media/uk-declarations-of-conformity/](http://www.uvex-safety.co.uk/en/media/uk-declarations-of-conformity/)

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## Instruction manual for electronic functions:

See also: uvex aXess one - Quick Start Guide



### Charge the battery:

Charge the battery before using it for the first time. The entire system is switched off during the charging process. The battery is permanently installed and cannot be replaced. During the charging process, the LED display lights up red; when fully charged, the LED display changes to green. Never leave the uvex aXess one unattended during charging.

### Bluetooth pairing:

Press and hold the  button for 5 seconds until the LED status indicator flashes RED/BLUE and you hear "power on". The automatic pairing mode starts and "pairing" sounds. The uvex aXess one appears in the Bluetooth menu on the external device, now select and activate it, now "connected" sounds. The hearing protector is now connected to the Bluetooth device.

### Bluetooth pairing second device:

Um ein Zweites Gerät zu koppeln, ist einmalig folgender Schritt nötig, deaktivieren Sie Bluetooth am ersten Gerät, er ertönt „disconnected“. Bluetooth am zweiten Gerät aktivieren, es erscheint die uvex aXess one am zweiten Gerät, diese nun auswählen und aktivieren. Nun kann am ersten Gerät wieder Bluetooth aktiviert werden und auch hier die uvex aXess one auswählen. Nun sind beide Geräte mit der uvex aXess one verbunden.

### Bluetooth disconnect/delete connections:

Press  and hold the key  and the key together for 3 seconds. To clear the memory completely, press and hold both keys for 5 seconds.

Automatic shutdown without pairing: 5min

### Real Active Listening RAL:

The RAL function is a stand-alone function. To ensure that the ambient sounds are permanently perceived, there is no automatic switch-off. Note, RAL always requires a switch-off by the user.

The RAL function is equipped with a level limiter that cuts off the maximum output level at 82dB. The volume below 82dB can be adjusted in 5 steps. This allows a slight amplification for soft sounds.

**Einschalten / Ausschalten:** Taste (1)  und (2)  für 3 Sekunden gedrückt halten, es ertönt „RAL on“ und die grüne Status LED leuchtet.

RAL leiser: Taste  und  zusammen einmal drücken, es ertönt ein Bestätigungston.

RAL lauter: Taste  und  zusammen einmal drücken, es ertönt ein Bestätigungston.

**Switch on / switch off:**

Press key (1) ▼ and (2) ● for 3 seconds, you will hear "RAL on" and the green status LED will light up.

RAL quieter: Press key ● and ▼ together once, a confirmation tone sounds.

RAL louder: Press key ● and ▲ together once, a confirmation tone sounds.

**Phone mode:**

Answer / end call: Press key ●

Reject call: Press ● and hold the key for 2 seconds

Call back last dialed number: Press key ● 2 times in quick succession

Adjust volume during call with louder with ▲ or quieter with ▼

**Audio streaming:**

Titel Vorwärts/Rückwärts: Taste oder Taste für 2 Sekunden gedrückt halten

Switch on uvex aXess one, press ● and hold for 5 seconds. Start music playback on the external device.

Play/pause: press key ●

Volume, louder/quieter: press key ▲ or key ▼

Track forward/backward: press key ▲ and hold key ▼ for 2 seconds

**Connection via AUX cable:**

Connect the external device with the supplied AUX cable. Note the AUX function has priority and disables the Bluetooth connection.

uvex aXess one:

Weight: 364g

Size Range: S/M/L

Tested according to European Standard **EN 352-1:2020**

**SNR:31dB**

Freq. Hz	63	125	250	500	1000	2000	4000	8000	H	M	L	SNR
Mean att. dB	18.8	16.3	21.0	27.3	37.1	37.8	44.2	43.2	39.1	30.3	22.8	32.8
Std. dev. dB	2.9	2.5	1.7	2.5	2.3	2.9	4.2	4.4	2.3	1.7	1.9	1.7
APV	15.9	13.7	19.2	24.9	34.8	35.0	40.0	38.8	37	29	21	31

EN 352-4: Pegelabhängigkeit H= 115 dB, M= 104dB, L= 87 dB

EN352-6: 82dBA Kriteriumspegel = -4,6dBV oder 587.2mV

Tested according to Australian Standard **AS/NZS 1270:2002**

**SLC80: 27dB** Class 5

Freq. Hz	125	250	500	1000	2000	4000	8000
Mean att. dB	14.8	16.3	23.5	33.1	34.3	41.4	40.1
Std. dev. dB	3.5	3.3	3.7	3.5	3.4	5.6	4.2
APV	11.3	13.0	19.8	29.6	30.9	35.8	35.9

Clamping force: 11.1N, 10.2N, 10.7N

**Hearing protector class 5 tested to AS/NZS 1270.** When selected, used and maintained as specified in AS/NZS 1269, this protector may be used in noise up to 110dB(A) assuming an 85 dB(A) criterion. A lower criterion may require a higher protector class.

Tested according to American Standard **ANSI S-3.19-1974**

**NRR: 23dB**

CSA Class A

Freq. Hz	125	250	500	1000	2000	4000	8000
Mean att. dB	16.4	18.4	26.5	34.6	35.4	43.3	39.2
Std. dev. dB	3.0	2.6	2.8	3.5	3.5	3.6	4.4

Headband Force: lbs 2.5

### Information required by E.P.A. (US)

The level of noise entering a person's ear, when hearing protectors are worn as directed, is closely approximated by the difference between the A-weighted environmental noise level and the NRR. For example:

1. The environmental noise level as measured at the ear is 92 dBA.
2. The NRR is 29 decibels (dB).
3. The level of noise entering the ear is approximately equal to 63 dBA.

**Caution:** For noise environments dominated by frequencies below 500 Hz, the C-weighted environmental noise level should be used. Improper fit of this device will reduce its effectiveness in attenuating noise. Consult the enclosed instructions for proper fit. Although hearing protectors can be recommended for protection against the harmful effects of impulsive noise, the Noise Reduction Rating (NRR) is based on the attenuation of continuous noise and may not be an accurate indicator of the protection attainable against impulsive noise such as gunfire. Constant or repetitive exposure to impulsive noise may lead to serious injury, including temporary or permanent deafness. The Noise Reduction Rating (NRR) calculated from the attenuation data is 29 dB. Earplugs must be fitted to attenuate noise effectively. Refer to instructions.

### FCC Compliance Statement

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

Test Institute, Michael & Associates, Inc., 2766 W. College Ave Suite 1, State College, PA 16801

Notified body No. 2797: BSI Group The Netherlands B.V. Say Building, John M. Keynesplein 9, 1066 EP, Amsterdam, Netherlands

Freq. - Frequency

Mean att. - Mean value of attenuation

Std. dev. - Standard deviation

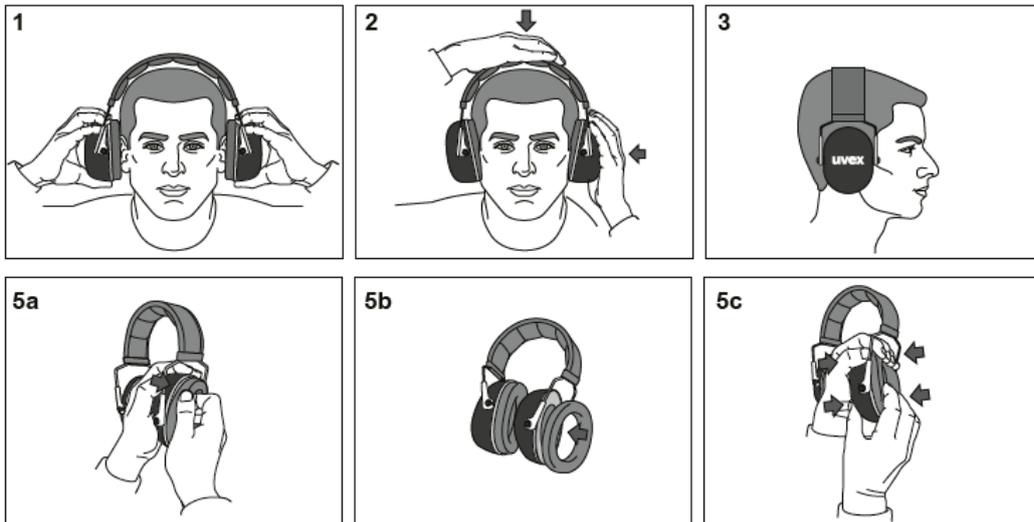
APV - Assumed protective effect

SNR - Attenuation value according to single number rating

H - attenuation value at high frequencies

M - attenuation value at medium frequencies

L - attenuation value at low frequencies



**Technical data:**

Operating voltage: 5V DC via USB

Battery: 3.7V lithium polymer battery, 750mA

Charging time: 2.5 hours

Operating time: 50 hours

Bluetooth® 5.0

Profile support: A2DP, AVRCP, HSP,HFP

**Waste management:**

This product falls under the Waste Electrical and Electronic Equipment (WEEE) Directive 2012/19/EU Do not dispose of with normal household waste. The rechargeable batteries must be disposed of in accordance with national regulations. Proper disposal at an official recycling center.



CAUTION! Explosion hazard! Do not throw the product into a fire.



**FCC Caution:**

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.

Any Changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

**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 television 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.

The device has been evaluated to meet general RF exposure requirement. The device can be used in portable exposure condition without restriction.