



PELTOR™
Protection & Communication

COMHEAD®
PROTECTIVE EAR TO EAR COMMUNICATION



Keep connected while protected.

3M™ PELTOR™ WS™ ALERT™ X Headset

Conduct all your business from inside your headset. You can now clearly hear incoming callers in your earmuffs by connecting one device using Bluetooth® technology. By using the noise-cancelling boom microphone, you can speak to others at a normal volume even in noisy environments and they can hear you without the surrounding noise interfering with your conversation.

3M Science. Applied to life.™

Keep working while conversing.

Turn your hearing protection into a quiet office you wear to work. In low noise, the ambient/environmental microphones can increase your ability to communicate with nearby colleagues and hear warning signals, approaching vehicles and other machine sounds or processes when needed.



Large buttons and voice-guided menus

The large function buttons are glove friendly. No need to remove the headset for any adjustments. Get immediate voice confirmation after every setting adjustment, including “low battery” voice alert.

Push-to-Listen function

The Push-to-listen (PTL) feature instantly pause your Bluetooth® streaming while increasing your ambient/environmental listening ability, without being tempted to remove your headset.

Hearing protection with enhanced situational awareness

Ambient microphones help you hear oncoming vehicles, alerts, and other warning signals while providing hearing protection when you need it.

Bluetooth® connectivity

Simultaneous, seamless connection to Bluetooth® devices allows for flexibility and mobility. While keeping your hearing protection on, you can easily setup and adjust the headset functions using the iOS and Android compatible mobile 3M™ Connected Equipment App on your phone.

Carry on conversations

Since the headset comes with a noise-cancelling boom microphone, you can stop shouting and now speak in a normal volume.



Durable, practical electronics

To help reduce corrosion caused by sweat, the electronics are located in the outer part of the cup. The dual-shell design helps protect the electronics from moisture.

Two models: Headband or helmet attachment

Both feature long-lasting, stainless steel wire bands that can help provide consistent wear.

Power saving options

Auto-OFF after 4 hours of non-use. Uses two AA alkaline batteries (or optional LR6NM NiMH rechargeable)

“I often work outside in dirty environments and I need to make calls several times a day. With this headset, it is easy to both call and pick up calls, even with my gloves on. I don’t need to stop and use my mobile phone. I can do it all in the headset!”

Julia, excavator & land clearing



Get your app, using the QR codes below...



3M™ Connected Equipment



You can download the 3M™ Connected Equipment app, which provides ready access to:

- Easily navigate the headset’s menus to set and adjust all of its settings.
- Hygiene kit reminder to let you know when it is time to change the cushions and foamliners.
- User Instructions (both as text and videos)
- Guides
- FAQs
- Tech support contacts
- Important tech data sheet information



App Store (iOS)



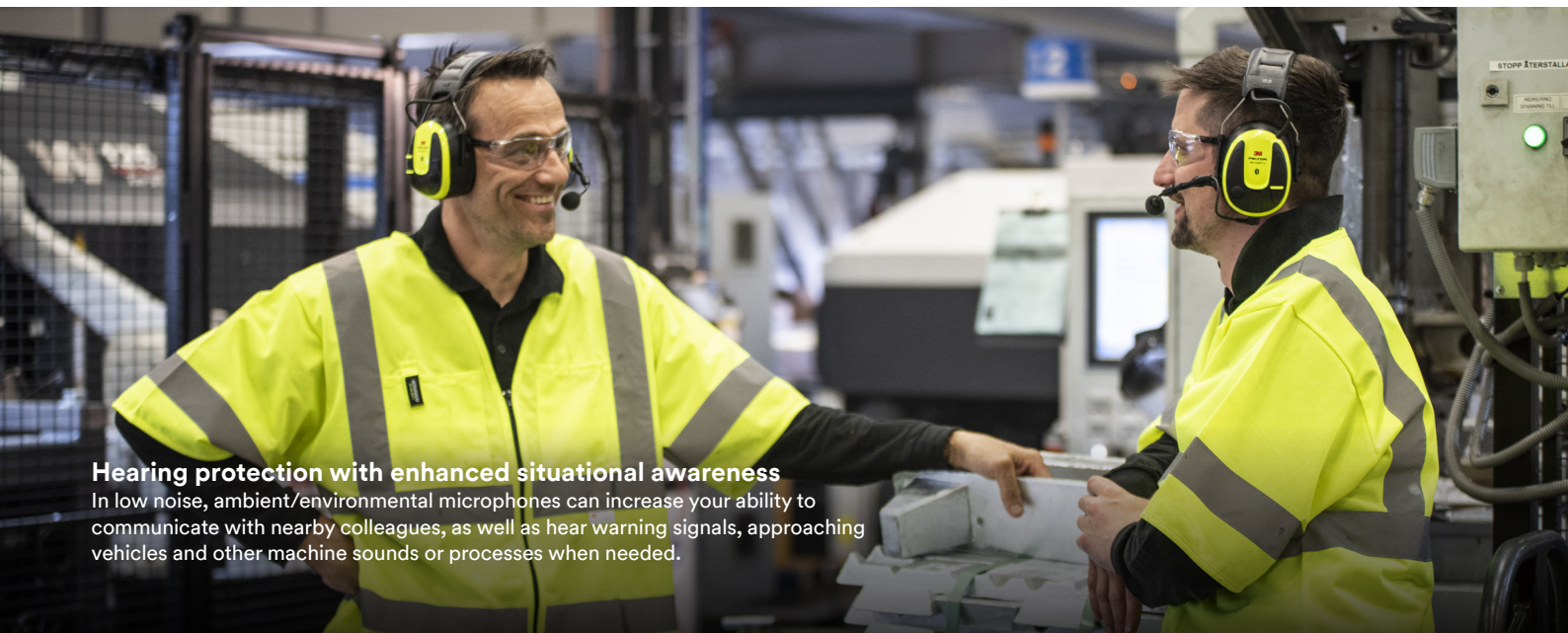
Google Play (Android)

This mobile app is free of charge and is part of 3M™ Connected Equipment suite, which enables users to manage, operate and view the status of all your 3M Connected personal protective equipment in one place.

The headset app comes in English as well as several other language options and is iOS and Android compatible.

Hearing protection with enhanced situational awareness

In low noise, ambient/environmental microphones can increase your ability to communicate with nearby colleagues, as well as hear warning signals, approaching vehicles and other machine sounds or processes when needed.



3M™ PELTOR™ WS™ ALERT™ X Headset (CE version)

Hearing protection with Bluetooth® technology and Mobile App interface

Product Description

The Bluetooth® headset with noise-cancelling boom microphone connects to your mobile phone for hands free calls and streaming in noisy environments. The headset helps to protect against hazardous noise and at the same time helps promote your situational awareness via the level-dependent function for ambient listening. The headset also synchs to a mobile app so users can easily set-up and adjust the headset.

Key Features

- Attenuating hearing protector comes in two models: headband or a safety helmet attachment
- Bluetooth® technology for connection to an external Bluetooth® device allows for hands-free talking and streaming
- Noise-cancelling boom microphone for clear speech transmission in noisy environments
- Level-dependent function for ambient listening to help promote auditory situational awareness
- Connection to an iOS and Android compatible mobile app, 3M™ Connected Equipment™, to more easily set-up and adjust the headset. The app is available to download from App Store and Google Play.
- Mobile app allows you to receive reminders when to change replacement cushions (hygiene kit) and choose the frequency of these alerts
- Push-to-Listen feature to easily and instantaneously listen to your surroundings
- Voice guided feedback after setting adjustment. No need to remove the headset for any adjustments
- The headset will automatically turn off after four hours of non-use to save battery life
- Low-battery warning at low battery level
- To reduce the corrosion caused by sweat the electronics are located in the outer part of the cup
- Replaceable cushions (hygiene-kit)
- Replaceable covers so you can change to your own choice of colour

Applications

The 3M™ PELTOR™ WS™ ALERT™ X Headset offers Bluetooth® wireless communication in continuous or intermittent noisy environments. Essential when users need to be connected to their mobile phone throughout the day (e.g. handymen in construction industries, private contractors operating their own equipment, farmers, maintenance workers in industrial applications etc.); everywhere hands-free communication and hearing protection could be of benefit.

Approvals

Hereby, 3M Svenska AB declares that the product is in compliance with appropriate Directives or Regulations to fulfill the requirements for the CE and/or UKCA marking.

The full text of the Declaration of Conformity is available at the following internet address:
www.3M.com/PELTOR/DOC

A copy of the Declaration of Conformity and additional information required in the Directives or Regulations can also be obtained by contacting 3M in the country of purchase.



MRX214AWS6



MRX21P3E4WS6



Bluetooth® technology for connection to one external device for hands free talk and streaming



Connect the headset with the "3M™ Connected Equipment™" mobile app supporting both Android and iOS



Noise cancelling boom microphone for clear speech transmission in noisy environments



Level-dependent function for ambient listening to help improve auditory situational awareness

“This headset protects my hearing. I can easily talk with my colleagues as well as streaming my favorite music right in the headset. And besides that, they are comfortable!”

Martin, Electrician



Technical data specifications

| | |
|----------------------------------|---|
| Materials: | Headband MRX21A4WS6 Headband: PVC, PA Headband wire: stainless steel Two-point fastener: POM Cushion: PVC foil and PUR foam Foam liner: PUR foam Cup: ABS Level-dependent microphone for ambient listening: PUR foam Wind shield for speech microphone: ABS, PA Wind Shield: foam Helmet attachment/Hardhat MRX21P3E4WS6 Cup supporting arm: stainless steel |
| Battery type: | 2xAA Alkaline batteries (or optional NiMH rechargeables) |
| Operating time: | Approximately 78 hours (Bluetooth® streaming and level-dependent) |
| Weight (batteries incl.): | MRX21A4WS6 (headband): 393 g MRX21P3E4WS6 (helmet attachment): 413 g |
| Bluetooth® technology: | Bluetooth version: 4.2 |
| | Bluetooth headset profile (HSP): 1.2 |
| | Bluetooth hands-free profile (HFP): 1.6 |
| | Bluetooth Advanced Audio Distribution Profile (A2DP): 1.3 |
| | Audio/Video Remote Control Profile (AVRCP): 1.6 |
| | Bluetooth Range: Up to 10m (class 2) |
| Speakers: | 27 mm diameter, 100 Ohm |
| Boom microphone type: | Noise-cancelling electret microphone |
| Operating temperature: | -20°C (-4°F) to +55°C (131°F) (battery dependent) |
| Storage temperature: | -20°C/-4°F to 40°C/122°F <90% humidity |
| Product lifetime: | Up to 5 years (excl. batteries) |

Attenuation

Headband model: SNR=30 dB H=35 dB M=27 dB L=18 dB

Helmet attachment model: SNR=30 dB H=34 dB M=27 dB L=18 dB

Attenuation Europe

MRX21A4WS6

EN 352-1:2002



Headband with foam cushion

| Frequency (Hz) <i>f</i> | 125 | 250 | 500 | 1000 | 2000 | 4000 | 8000 | SNR |
|--|------|------|------|------|------|------|------|-----|
| Mean Attenuation <i>M_y</i> (dB) | 13.8 | 19.3 | 30.4 | 34.5 | 37.7 | 39.5 | 36.2 | 30 |
| Standard deviation <i>s_y</i> (dB) | 2.7 | 2.4 | 2.7 | 3.6 | 2.3 | 2.7 | 4.1 | |
| Assumed Protection Value <i>APV_y</i> (dB) | 11.1 | 16.9 | 27.7 | 30.9 | 35.4 | 36.8 | 32.1 | |

MRX21A4WS6: 393 g

H=35 dB M=27 dB L=18 dB

MRX21P3E4WS6

EN 352-3:2002



Helmet Attachment with foam cushion

| Frequency (Hz) <i>f</i> | 125 | 250 | 500 | 1000 | 2000 | 4000 | 8000 | SNR |
|--|------|------|------|------|------|------|------|-----|
| Mean Attenuation <i>M_y</i> (dB) | 14.2 | 19.7 | 29.6 | 33.4 | 36.3 | 39.5 | 34.6 | 30 |
| Standard deviation <i>s_y</i> (dB) | 3.9 | 1.9 | 2.5 | 1.8 | 2.5 | 2.7 | 4.9 | |
| Assumed Protection Value <i>APV_y</i> (dB) | 10.3 | 17.8 | 27.1 | 31.6 | 33.8 | 36.8 | 29.7 | |

MRX21P3E4WS6: 413 g

H=34 dB M=27 dB L=18 dB

MRX21A4WS6

EN 352-1:2002



Headband with gel cushion

| Frequency (Hz) <i>f</i> | 125 | 250 | 500 | 1000 | 2000 | 4000 | 8000 | SNR |
|--|------|------|------|------|------|------|------|-----|
| Mean Attenuation <i>M_y</i> (dB) | 12.6 | 19.6 | 30.4 | 32.4 | 40.1 | 40.5 | 38.0 | 30 |
| Standard deviation <i>s_y</i> (dB) | 2.9 | 2.0 | 3.0 | 2.8 | 3.3 | 3.3 | 2.8 | |
| Assumed Protection Value <i>APV_y</i> (dB) | 9.7 | 17.6 | 27.4 | 29.6 | 36.8 | 37.2 | 35.2 | |

MRX21A4WS6: 454 g

H=36 dB M=27 dB L=18 dB

MRX21P3E4WS6

EN 352-3:2002



Helmet Attachment with gel cushion

| Frequency (Hz) <i>f</i> | 125 | 250 | 500 | 1000 | 2000 | 4000 | 8000 | SNR |
|--|------|------|------|------|------|------|------|-----|
| Mean Attenuation <i>M_y</i> (dB) | 11.8 | 18.6 | 28.4 | 33.2 | 37.9 | 39.1 | 36.9 | 29 |
| Standard deviation <i>s_y</i> (dB) | 2.3 | 2.0 | 2.0 | 2.7 | 2.4 | 3.2 | 4.1 | |
| Assumed Protection Value <i>APV_y</i> (dB) | 9.5 | 16.6 | 26.4 | 30.5 | 35.5 | 35.9 | 32.8 | |

MRX21P3E4WS6: 474 g

H=35 dB M=26 dB L=17 dB

3M strongly recommends personal fit testing of hearing protectors. Research suggests that users may receive less noise reduction than indicated by the attenuation label value(s) on the packaging due to variation in fit, fitting skill, and motivation of the user. Refer to applicable regulations or guidance on how to adjust attenuation label values. In the absence of applicable regulations, it is recommended that the attenuation rating be reduced to better estimate typical protection.

+49 40 500 580 20

In the box

- 1 x Headset
- 2 x AA batteries
- 1 x User Instruction

Please recycle. Printed in Sweden.

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In Europe, 3M PELTOR products may also be appropriate for certain non-work uses.

Always read and follow User Instructions.

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Get your app, using the QR codes below...



3M™ Connected Equipment



App Store (iOS)



Google Play (Android)

Warranty

The warranty does not cover any damage caused by neglected maintenance or careless handling. For more information on maintenance, please see the User Instruction. For complete warranty condition, contact your dealer or local 3M office.

Important Notice

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