

3M™ Peltor™ WS™ Alert™ X Headset

Technical Data Sheet

Description

Hearing protection with Bluetooth® technology and Mobile App interface.

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 syncs to a mobile app so users can easily set-up and adjust the headset.

Key Features

- Dual cup protection
- 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



MRX214AWS6



MRX21P3E4WS6

Standards

These hearing protectors have been produced to comply with the requirements of the Australian /New Zealand Standard AS/NZS 1270:2002.

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.

Maintenance/cleaning

Hearing protectors should be inspected prior to use for damage or deterioration. Damaged or worn parts should be replaced prior to use.

The noise reduction will only be obtained if the earmuffs are in good order and worn as directed.

Mild detergent and hygiene wipes can be used on this product, however some products may harden or damage the cushion.

Hygiene kit/cushions should be replaced when the cushion show signs of damage or hardening.

Specifications

3M™ Peltor™ WS™ Alert™ X Headset

Materials:	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
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 electric 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)

Use limitation: Never modify or alter this product.

Laboratory Attenuation Data

MRX21A4WS6

AS/NZS 1270:2002

Frequency (HZ)	125	250	500	1000	2000	4000	8000	SLC80	Class	Force Clamp (N)
Mean Attenuation (dB)	16.7	19.4	29.2	33.9	36.0	40.2	39.8	30dB	5	11.3
Standard Deviation (dB)	4.4	2.9	2.9	3.2	2.9	3.4	2.7			
Means minus SD (dB)	12.3	16.5	26.3	30.7	33.1	36.8	37.1			

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 105dB(A) to less than 110dB(A), assuming an 85dB(A) criterion.

MRX21P3E4WS6

AS/NZS 1270:2002

Frequency (HZ)	125	250	500	1000	2000	4000	8000	SLC80	Class	Force Clamp (N)
Mean Attenuation (dB)	16.9	18.1	27.3	31.7	34.9	39.9	38.4	29dB	5	9.0
Standard Deviation (dB)	3.5	2.9	3.6	3.9	3.5	4.2	4.3			
Means minus SD (dB)	13.4	15.2	23.7	27.8	31.4	35.1	34.1			

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 105dB(A) to less than 110dB(A), assuming an 85dB(A) criterion.

* These earmuffs were tested in combination with the HC600 industrial safety helmet using the P3G adapter, and may give different levels of protection if fitted to different helmets.

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.

Mean = Mean attenuation value derived from testing in accordance with AS/NZS 1270:2002

SD = Standard Deviation derived from testing in accordance with AS/NZS 1270:2002

Mean - SD = Mean attenuation value minus Standard Deviation

SLC(80) = Single number rating commonly used in Australia and New Zealand to compare acoustic performance of hearing protectors. The subscript '80' indicates that in well managed hearing protector programs, the protection provided is expected to equal or exceed the SLC(80) in 80% of protector-wearer noise spectrum combinations.

Class = A simplified process for selecting hearing protectors based on the wearers 8-hour equivalent continuous A-weighted sound pressure level.

Storage

Store in an area free of contamination.

Do not leave your hearing protection device in areas or locations where it can be exposed to damage or contamination.

Sunlight is particularly damaging as UV light can have a detrimental effect on the materials the product is made from.

Chemical contamination can also have a serious effect on product integrity and decontamination after use is recommended.

Use a suitable storage container especially if left in a vehicle. This will protect the hearing protection device from damage and extend its working life.

Disposal

If the product is to be disposed of, it should be disassembled and disposed of as solid waste. Please see local authority regulations for disposal advice and locations.

Ordering Information

3M Code	Model #	Description
UU011469580	MRX21A4WS6	3M™ Peltor™ WS™ Alert™ X Headset, App, bright yellow, headband
UU011469598	MRX21P3E4WS6	3M™ Peltor™ WS™ Alert™ X Headset, App, bright yellow, helmet attachment

Box includes: 1 x Headset, 2 x AA Batteries, 1 x User Instruction

Accessories:

3M Code	Model #	Description
UU008567388	HY82	3M™ Peltor™ HY82 Hygiene kit (cushion and foamliner)
UU011321153	210300-664-OR/1	3M™ Peltor™ Covers for WS™ Alert™ Headsets, orange, 1 pair (left+right)
UU011321138	210300-664-RE/1	3M™ Peltor™ Covers for WS™ Alert™ Headsets, pink, 1 pair (left+right)
UU010322590	210300-664-SV/1	3M™ Peltor™ Covers for WS™ Alert™ Headsets, black, 1 pair (left+right)
UU011614862	MT53N-14/1	3M™ Peltor™ Electret boom microphone, 240mm with plug incl windshield M995/2
XH001679154	M995/2	3M™ Peltor™ M995 Wind shield for speech microphone
XH001651351	HY100A	3M™ Peltor™ HY100A Clean Hygiene Pad
AT010580697	HYM1000	3M™ Peltor™ HYM1000 Microphone protection (5 meters)

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



3M™ Connected Equipment



3M™ Connected Equipment
App Store (iOS)



3M™ Connected Equipment
Google Play (Android)

Important Notice

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Warning

Performance will be reduced by anything that impairs the seal of the cushions against the head eg. thick spectacle frames, balaclavas, etc.

The reported attenuation (noise reduction) will only be obtained if the earmuffs are in good working order and worn as directed.

These hearing protectors help reduce exposure to hazardous noise and other loud sounds. Misuse or failure to wear hearing protectors at all times that you are exposed to noise may result in hearing loss or injury. For proper use, see supervisor, User instructions, or call 3M TechAssist Helpline 1800 024 464.



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