



3M™ PELTOR™ WS™ ALERT™ XPI Headset

Hearing protection with Bluetooth® MultiPoint Technology and Mobile App interface

Product Description

The Bluetooth® MultiPoint headset with noise-cancelling microphone connects to a mobile app to more easily set-up and adjust the headset as it wirelessly connects to two Bluetooth enabled devices, such as mobile phones and two-way radio. The headset helps to protect you against hazardous noise, but also makes it easy to make phone calls with both hands free in noisy environments.

Key Features

- High attenuating hearing protector in two models: stand-alone headband or safety helmet attachment (SNR 30 dB)
- Bluetooth® MultiPoint Technology for connecting to one or two external devices for hands-free talk and streaming
- Noise-cancelling boom microphone for clear speech transmission in noisy environments
- Level-dependent function for ambient listening to help improve your situational awareness
- Connection to an iOS and Android compatible mobile App to more easily set-up and adjust the headset. The 3M™ Connected Equipment App is available to download from App Store and Google Play.
- Push-to-Listen feature to easily and instantaneously listen to your surroundings
- Built-in FM-Radio with radio volume limited to 82dB
- Voice guided menu system with announced FM-Radio frequencies
- Digital FM-radio station search
- Ability to store your favorite FM-radio stations
- Auto power off: The headset will turn off after 4 hours of non-use to save battery
- Low-battery warning at low-battery level
- To help reduce corrosion caused by sweat the electronics are located in the outer part of the cup
- Rechargeable option with NiMH batteries
- Replaceable cushions and foam liners

Applications

The 3M™ PELTOR™ WS™ ALERT™ XPI 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 radiobroadcast receiver and Bluetooth® radio communication is in compliance with Directive 2014/53/EU and other appropriate directives to fulfill the requirements for the CE marking. 3M Svenska AB also declares that the PPE type headset is in compliance with Regulation (EU) 2016/425.

The applicable legislation can be determined by reviewing the Declaration of Conformity (DoC) at www.3M.com/peltor/doc. The DoC will also show if some other type-approvals are also applicable. When retrieving your DoC, please locate your part number. The part number of your earmuffs can be found at the bottom of one cup. These PPE products are audited annually by SGS Fimko Ltd., Takomotie 8, FI-00380 Helsinki, Finland, Notified Body No. 0598, and type approved by PZT GmbH, Notified Body No. 1974, Bismarckstrasse 264 B, 26389, Wilhelmshaven, Germany.

The product has been tested and approved in accordance with EN 352-1:2002 / EN 352-3:2002, EN 352-4:2001/A1:2005, EN 352-6:2002, EN 352-8:2008 or EN 352-1:2020, EN 352-3:2020, EN 352-4:2020, EN 352-6:2020, EN 352-8:2020. The applicable version can be found in the DoC.

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



MRX21A3WS6



MRX21P3E3WS6



Bluetooth® MultiPoint technology for connection to one or two external devices 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 situational awareness



Built-in FM-radio

Headset Models and Accessories

Article number	Description	3M ID	SAP ID
MRX21A3WS6	3M™ PELTOR™ WS™ ALERT™ XPI, App, blue, headband	UU010322590	7100205302
MRX21P3E3WS6	3M™ PELTOR™ WS™ ALERT™ XPI, App, blue, helmet attachment	UU010321964	7100205304
MRX21A3WS6-ACK	3M™ PELTOR™ WS™ ALERT™ XPI, incl. ACK (FR09,FR08, LR6NM), App, blue, headband	UU010322723	7100205299
MRX21P3E3WS6-ACK	3M™ PELTOR™ WS™ ALERT™ XPI, incl. ACK (FR09,FR08, LR6NM), App, blue, helmet attachment	UU010322947	7100205297

Article number	Description	3M ID	SAP ID
HY82	3M™ PELTOR™ HY82 Hygiene kit (cushion and foamliner)	UU008567388	7100122439
HY80	3M™ PELTOR™ HY80 Replacement Gel Cushions	70071524139	7000127268
FR08	3M™ PELTOR™ FR08 Power supply with USB connector	XH001680194	7000108521
FR09	3M™ PELTOR™ FR09 Battery charger with USB connector	XH001680616	7100075611
LR6NM	3M™ PELTOR™ LR6NM NiMH rechargeable AA batteries	XH001659693	7100064688
M995/2	3M™ PELTOR™ M995 Wind shield for speech microphone	XH001679154	7010044372
HY100A	3M™ PELTOR™ HY100A Clean Hygiene Pad	XH001651351	7100064410
HYM1000	3M™ PELTOR™ HYM1000 Microphone protection (4.5 meters)	XH001651328	7100064281

Technical data specifications

Materials:	Headband MRX21A3WS6 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 Antenna: PE, ABS, TPE Wind Shield: foam Charger jack: stainless steel Helmet attachment/Hardhat MRX21P3E3WS6 Cup supporting arm: stainless steel
Battery type:	2xAA Alkaline batteries (or optional NiMH rechargeables)
Operating time:	Approximately 58 hours (FM radio and level-dependent) Approximately 78 hours (Bluetooth® streaming and level-dependent)
Weight (batteries incl.):	MRX21A3WS6 (headband): 411 g MRX21P3E3WS6 (helmet attachment): 431 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 +55°C (131°F)
Shelf life:	5 years excl. batteries

Use limitation: Never modify or alter this product

Attenuation Europe

MRX21A3WS6

EN 352-1:2002



Headband with foam cushion HY82

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

MRX21A3WS6: 411 g

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

MRX21A3WS6-ACK: 411 g

MRX21P3E3WS6

EN 352-3:2002



Helmet Attachment with foam cushion HY82

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

MRX21P3E3WS6: 431 g

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

MRX21P3E3WS6-ACK: 431 g

MRX21A3WS6

EN 352-1:2002



Headband with gel cushion HY80

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

MRX21A3WS6: 473 g

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

MRX21P3EWS6

EN 352-3:2002



Helmet Attachment with gel cushion HY80

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

MRX21P3EWS6: 495 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 for guidance on how to adjust attenuation label values. In the absence of applicable regulations, it is recommended that the SNR be reduced to better estimate typical protection.

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



3M™ Connected Equipment



3M™ Connected Equipment
App Store (iOS)



3M™ Connected Equipment
Google Play (Android)

In the box

- 1 x Headset
- 1 x Pair of extra Covers
- 2 x AA batteries
- 1 x HY82 Hygiene kit (cushion and foamliner)
- 1 x HYM1000-100 Microphone protection (1 meter)
- 1 x User Instruction

In the box (ACK-version)

- 1 x Headset
- 1 x Pair of extra Covers
- 2 x NiMH rechargeable AA batteries (LR6NM)
- 1 x Battery charger with USB connector (FR09)
- 1 x Power supply with USB connector (FR08)
- 1 x HY82 Hygiene kit (cushion and foamliner)
- 1 x HYM1000-100 Microphone protection (1 meter)
- 1 x User Instruction



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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.

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