



## 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](http://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     |
|-------------------------|----------------------------------------------------------------------------------------|-------------|------------|
| <b>MRX21A3WS6</b>       | 3M™ PELTOR™ WS™ ALERT™ XPI, App, blue, headband                                        | UU010322590 | 7100205302 |
| <b>MRX21P3E3WS6</b>     | 3M™ PELTOR™ WS™ ALERT™ XPI, App, blue, helmet attachment                               | UU010321964 | 7100205304 |
| <b>MRX21A3WS6-ACK</b>   | 3M™ PELTOR™ WS™ ALERT™ XPI, incl. ACK (FR09,FR08, LR6NM), App, blue, headband          | UU010322723 | 7100205299 |
| <b>MRX21P3E3WS6-ACK</b> | 3M™ PELTOR™ WS™ ALERT™ XPI, incl. ACK (FR09,FR08, LR6NM), App, blue, helmet attachment | UU010322947 | 7100205297 |

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

## Technical data specifications

|                                  |                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
|----------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Materials:</b>                | <b>Headband MRX21A3WS6</b><br>Headband: PVC, PA<br>Headband wire: stainless steel<br>Two-point fastener: POM<br>Cushion: PVC foil and PUR foam<br>Foam liner: PUR foam<br>Cup: ABS<br>Level-dependent microphone for ambient listening: PUR foam<br>Wind shield for speech microphone: ABS, PA<br>Antenna: PE, ABS, TPE<br>Wind Shield: foam<br>Charger jack: stainless steel<br><b>Helmet attachment/Hardhat MRX21P3E3WS6</b><br>Cup supporting arm: stainless steel |
| <b>Battery type:</b>             | 2xAA Alkaline batteries (or optional NiMH rechargeables)                                                                                                                                                                                                                                                                                                                                                                                                              |
| <b>Operating time:</b>           | Approximately 58 hours (FM radio and level-dependent)<br>Approximately 78 hours (Bluetooth® streaming and level-dependent)                                                                                                                                                                                                                                                                                                                                            |
| <b>Weight (batteries incl.):</b> | MRX21A3WS6 (headband): 411 g<br>MRX21P3E3WS6 (helmet attachment): 431 g                                                                                                                                                                                                                                                                                                                                                                                               |
| <b>Bluetooth® Technology:</b>    | 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)                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| <b>Speakers:</b>                 | 27 mm diameter, 100 Ohm                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| <b>Boom microphone type:</b>     | Noise-cancelling electret microphone                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| <b>Operating temperature:</b>    | -20°C (-4°F) to +55°C (131°F) (battery dependent)                                                                                                                                                                                                                                                                                                                                                                                                                     |
| <b>Storage temperature:</b>      | -20°C (-4°F) to +55°C (131°F)                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| <b>Shelf life:</b>               | 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<sub>f</sub></i> (dB)           | 13.8 | 19.3 | 30.4 | 34.5 | 37.7 | 39.5 | 36.2 | 30  |
| Standard deviation <i>s<sub>f</sub></i> (dB)         | 2.7  | 2.4  | 2.7  | 3.6  | 2.3  | 2.7  | 4.1  |     |
| Assumed Protection Value <i>APV<sub>f</sub></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<sub>f</sub></i> (dB)           | 14.2 | 19.7 | 29.6 | 33.4 | 36.3 | 39.5 | 34.6 | 30  |
| Standard deviation <i>s<sub>f</sub></i> (dB)         | 3.9  | 1.9  | 2.5  | 1.8  | 2.5  | 2.7  | 4.9  |     |
| Assumed Protection Value <i>APV<sub>f</sub></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<sub>f</sub></i> (dB)           | 12.6 | 19.6 | 30.4 | 32.4 | 40.1 | 40.5 | 38.0 | 30  |
| Standard deviation <i>s<sub>f</sub></i> (dB)         | 2.9  | 2.0  | 3.0  | 2.8  | 3.3  | 3.3  | 2.8  |     |
| Assumed Protection Value <i>APV<sub>f</sub></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<sub>f</sub></i> (dB)           | 11.8 | 18.6 | 28.4 | 33.2 | 37.9 | 39.1 | 36.9 | 29  |
| Standard deviation <i>s<sub>f</sub></i> (dB)         | 2.3  | 2.0  | 2.0  | 2.7  | 2.4  | 3.2  | 4.1  |     |
| Assumed Protection Value <i>APV<sub>f</sub></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

#### 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



3M™ Connected Equipment  
App Store (iOS)



3M™ Connected Equipment  
Google Play (Android)



**3M Personal Safety Division**  
3M Svenska AB, Box 2341  
SE-331 02 Värnamo  
Sweden  
Internet: www.3M.com

Please recycle. Printed in Sweden.

© 3M 2020. All rights reserved.

The Bluetooth® word mark and logos are registered trademarks owned by Bluetooth SIG, Inc. and any use of such marks by 3M Company is under license.

3M, PELTOR, WS and ALERT are trademarks of 3M Company, used under license in Canada.

3M PSD Products are occupational use only.

#### 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

3M 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 3M.

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 3M's liability for death or personal injury arising from its negligence.