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3M | PELTOR™ Technical Data Specification

3M™ PELTOR™ WS™ ALERT™ XPI Headset

Hearing protection with Bluetooth® MultiPoint Technology



MRX21AWS6



MRX21P3EWS6

Product Description

The 3M™ PELTOR™ WS™ ALERT™ XPI Headset is the next generation protective communication solution. With Bluetooth® wireless communication, noise-cancelling boom microphone, integrated FM-Radio and level-dependent function for ambient listening, the WS™ ALERT™ XPI Headset not only helps 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 connection 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 (limited to 82 dB)
- 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 station search
- Ability to store up to 4 favorite stations
- Auto power off: The headset will turn off after 4 hrs of non-use to save battery
- 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
- Rechargeable option with NiMH batteries
- Replaceable cushions and foam liners

Applications

The 3M™ PELTOR™ WS™ ALERT™ XPI Headset offers Bluetooth® wireless communication in noisy environments or in and out of noise. Useful when users need to be connected to their cell phone throughout the day (e.g. handymen in construction companies, private contractors driving their own machines, farmers in agriculture business, maintenance workers in industrial applications etc.); everywhere hands-free communication and hearing protection could be of benefit.

Standards and Approvals

Hereby, 3M Svenska AB declares that the radio equipment type Radio broadcast receiver is in compliance with Directive 2014/53/EU and other appropriate directives to fulfill the requirements for the CE marking. The full text of the EU 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 can also be obtained by contacting 3M in the country of purchase. For contact information, see last pages of the user instruction. 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.
Notified Body Statement of Opinion offered by: FIOH, Finnish Institute of Occupational Health, Topeliuksenkatu 41 b, FI-00250, Helsinki, Finland. Notified body #0403.



Bluetooth® MultiPoint technology for connection 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



Built-in FM-Radio

Headset Models and Accessories

Article number	Description	3M ID	SAP ID
MRX21AWS6	3M™ PELTOR™ WS™ ALERT™ XPI, headband	UU008197954	7100114032
MRX21P3EWS6	3M™ PELTOR™ WS™ ALERT™ XPI, helmet attachment	UU008197970	7100114035
MRX21AWS6-ACK	3M™ PELTOR™ WS™ ALERT™ XPI, incl. ACK (FR09,FR08, LR6NM), headband	UU008197939	7100113386
MRX21P3EWS6-ACK	3M™ PELTOR™ WS™ ALERT™ XPI, incl. ACK (FR09,FR08, LR6NM), helmet attachment	UU008197962	7100114033

Article number	Description	3M ID	SAP ID
HY82	3M™ PELTOR™ HY82 Hygiene kit	UU008567388	7100122439
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 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	XH001651328	7100064281

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Technical data specifications

Materials:	**Headband MRX21AWS6** 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 MRX21P3EWS6** Cup supporting arm: stainless steel
Battery type:	2xAA batteries (Alkaline)
Operating time:	Approximately 58 hours (FM radio and level-dependent) Approximately 78 hours (Bluetooth® streaming and level-dependent)
Weight (batteries incl.):	MRX21AWS6 (headband): 411 g MRX21P3EWS6 (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

MRX21AWS6*

EN352-1:2002

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



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

MRX21P3EWS6*

EN352-3:2002

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



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

In the box

1 x Headset
2 x AA batteries
1 x User Instruction

In the box (ACK-version)

1 x Headset
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 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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