PELTOR™
Protection & Communication

Technical Data Sheet
June 2025

3M™ PELTOR™ WS™ ALERT™ X+ Headset

Product Description





The Bluetooth® MultiPoint headset with noise-cancelling microphone that connects to a mobile app to more easily set-up and adjust the headset. The headset helps to protect you against hazardous noise, but also makes it easy to make phone calls hands-free in noisy environments. It has built-in Li-Ion battery that you charge via a USB-C connector.

Key Features

- Noise-cancelling boom microphone for clear speech transmission in noisy environments
- Music and Pod Mode
- Support Qualcomm® aptX™ HD
- Level-dependent function for ambient listening to help promote auditory situational awareness
- Push-to-Listen feature to listen to your surroundings easily and instantaneously
- Voice-guided menu system
- Auto power off: The headset will turn off after 4 hours of non-use to save battery
- Low-battery warning at low battery level
- Replaceable cushions (hygiene kit)
- Connection compatible mobile app to more easily set-up, adjust settings, and view power status of the headset
- OTA (Over the Air) firmware update

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.

Applications

The 3M™ PELTOR™ WS™ ALERT™ X+ Headset offers Bluetooth® wireless communication useful in noisy environments. This is 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.), and everywhere simultaneous hands-free communication and hearing protection could be of benefit.

Headset Models and Accessories

Table 1: X+ Headset Models

Part Number	Description	3M ID
MRX21A3WS7	3M™ PELTOR™ WS™ ALERT™ X+ Headset, App, bright yellow, headband	7100382424
MRX21P3E3WS7	3M™ PELTOR™ WS™ ALERT™ X+ Headset, App, bright yellow, helmet attachment	7100382375

Table 2: X+ Headset Accessories

Article Number	Description	SAP ID
HY82	3M™ PELTOR™ HY82 Hygiene kit (cushion and foamliner)	7100122439
MT53N-14/1	3M™ PELTOR™ Electret boom microphone, 240 mm with plug incl windshield M995/2	7100264326
M995/2	3M™ PELTOR™ M995 windshield for speech microphone, 2 ea	7010044372
HYM1000	3M™ PELTOR™ HYM1000 Microphone protection, 4.5 meters	7100064281
ACK012/1	3M™ PELTOR™ Lithium Ion battery pack	7100379263
HY100A	3M™ PELTOR™ HY100A Clean hygiene pads, single-use "gasket" protectors for ear cushions, self- adhesive, 100 ea/case	7100064410

Laboratory Noise Attenuation Standard EN 352-1:2020 and EN 352-3:2020

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 and guidance on how to adjust attenuation label value(s). In the absence of applicable regulations, it is recommended that the attenuation label value(s) be reduced to better estimate typical protection. The attenuation rating (SNR) was obtained with the device powered off.

Table 3: MRX21A3WS7 Headband earmuffs with foam cushions

	f(Hz)											
	125	**250**	**500**	**1000**	**2000**	**4000**	**8000**	**H**	**M**	**L**	**SNR**	**Weight**
MV (dB)	13.3	18.5	31.0	33.9	36.7	40.1	37.5	37.1	28.8	20.1	31.0	379 g
SD (dB)	3.7	2.4	2.4	2.7	3.1	3.6	4.1	2.2	1.7	2.6	1.6	
APV = MV - SD . (dB)	9.6	16.1	28.6	31.3	33.6	36.5	33.4	35	27	18	29	

Table 4: MRX21A3WS7 Headband earmuffs with gel cushions

	f(Hz)											
	125	**250**	**500**	**1000**	**2000**	**4000**	**8000**	**H**	**M**	**L**	**SNR**	**Weight**
MV (dB)	12.7	18.6	31.1	34.5	37.3	42.6	38.3	37.9	29.0	19.9	31.2	440 g
SD (dB)	2.8	1.7	2.3	2.0	2.7	4.0	3.2	1.5	1.4	2.2	1.4	
APV = MV - SD . (dB)	9.8	16.8	28.8	32.5	34.6	38.6	35.1	36	28	18	30	

Table 5: MRX21P3E3WS7 Carrier attachment earmuffs with foam cushions

	f(Hz)											
	125	**250**	**500**	**1000**	**2000**	**4000**	**8000**	**H**	**M**	**L**	**SNR**	**Weight**
MV (dB)	12.8	18.5	30.6	31.1	35.6	40.8	37.2	35.9	28.1	19.8	30.4	398 g
SD (dB)	3.7	2.1	2.3	2.6	2.9	2.8	4.0	1.9	1.7	2.5	1.6	
APV = MV - SD . (dB)	9.1	16.4	28.2	28.6	32.7	38.0	33.2	34	26	17	29	

Table 6: MRX21P3E3WS7 Carrier attachment earmuffs with gel cushions

	f(Hz)											
	125	**250**	**500**	**1000**	**2000**	**4000**	**8000**	**H**	**M**	**L**	**SNR**	**Weight**
MV (dB)	11.5	18.7	30.4	32.3	36.0	42.0	38.0	36.6	28.2	19.1	30.4	460 g
SD (dB)	3.3	1.7	1.5	1.9	3.5	2.8	4.1	2.2	1.3	2.1	1.4	
APV = MV - SD . (dB)	8.2	17.0	28.9	30.4	32.4	39.2	33.9	34	27	17	29	

Technical Data Specifications

Materials

- **Headband:** TPE and TPU
- **Headband wire:** Stainless steel
- **Two-point fastener:** POM
- **Cushion:** PVC foil and PUR foam
- **Foam liner:** PUR foam
- **Cup:** ABS
- **Shells:** ABS, TPE
- **Level-dependent microphone for ambient listening:** PET foam
- **Wind shield for speech microphone:** PUR, TPE, PA
- **Wind shield:** foam

Power / Electrical Characteristics

- **Battery Type:** Polymer Li-Ion, Rechargeable
- **Operating Time:** Up to 68 hours with stream
- **Battery Weight:** 18g
- **Battery Class:** PLB

Bluetooth® Technology

- **Bluetooth version:** 5.2
- **Bluetooth headset profile (HSP):** 1.2
- **Bluetooth hands-free profile (HFP):** 1.8
- **Bluetooth Advanced Audio Distribution Profile (A2DP):** 1.3.2
- **Audio/Video Remote Control Profile (AVRCP):** 1.6.2
- **Bluetooth range:** Up to 10m

Physical Characteristics

- **Boom microphone type:** Noise-cancelling electret microphone
- **Operating temperature:** -20°C to 50°C
- **Storage temperature:** -20°C to 40°C, <90% humidity
- **Charging temperature:** 0 to 50°C
- **Product lifetime:** Up to 5 years (excludes batteries)
- **Weight:** Approximately 366g headband, 385g helmet version

3M Connected Equipment QR Code



Warranty and Important Notice

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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