



# 3M™ PELTOR™ WS™ ALERT™ XPV Solar Powered Headset

## Product Description



Bluetooth® MultiPoint headset with noise-cancelling microphone is self-charging by photovoltaic power and 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 with both hands free in noisy environments.

## Key Features

- Multifunction Button (Choose between pre-defined functions)
- Music and Pod Mode
- Support Qualcomm® aptX™ HD
- WAP (Work Audio Profiles)
- Bluetooth® MultiPoint technology for connection to one or two external Bluetooth 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 promote auditory situational awareness
- Self-charging consisting of a seamlessly integrated solar cell material that converts all forms of light, both indoors and outdoors into sustainable electrical energy
- Connection to an iOS and Android compatible mobile app to more easily set-up, adjust settings, and view power status of the headset. The 3M™ Connected Equipment mobile app is available to download from App Store and Google Play
- Over the Air (OTA) firmware update
- 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)

## Applications

The 3M™ PELTOR™ WS™ ALERT™ XPV 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 hands-free communication and hearing protection could be of benefit.

## Headset Models and Accessories

**Table 1: XPV Solar Powered Headset Models**

Part number	Description	Legacy 3M ID	SAP ID
MRX21A1WS7-NA	3M™ PELTOR™ WS™ ALERT™ XPV Headset with Powerfoyle™ Solar Cell Technology, Multipoint, headband	UU013077837	7100333745

**Table 2: XPV Solar Powered Headset Accessories**

Article Number	Description	Legacy 3M ID	SAP ID
HY82	3M™ PELTOR™ HY82 Hygiene kit (cushion and foamliner)	UU008567388	7100122439
MT53N-14/1	3M™ PELTOR™ Electret boom microphone, 240 mm with plug incl windshield M995/2	UU011614862	7100264326
M995/2	3M™ PELTOR™ M995 windshield for speech microphone, 2 ea	XH001679154	7010044372
HYM1000	3M™ PELTOR™ HYM1000 Microphone protection, 4.5 meters	XH001651328	7100064281
ACK012/1	3M™ PELTOR™ Lithium Ion battery pack	-	-
FR16/1	3M™ PELTOR™ Charging cable USB A® to USB C®	-	-
HY100A	3M™ PELTOR™ HY100A Clean hygiene pads, single-use "gasket" protectors for ear cushions, self-adhesive, 100 ea/ case	XH001651351	7100064410

## Laboratory Noise Attenuation Standard ANSI S3.19-1974

**Table 3: MRX21A1WS7-NA Headband with foam cushion**

MRX21A4WS6: Headband earmuffs with foam cushions										ANSI S3.19-1974	
Frequency (Hz) <i>f</i>	125	250	500	1000	2000	3150	4000	6300	8000	NRR	CSA Class
Mean Attenuation <i>M<sub>f</sub></i> (dB)	14.0	18.9	28.6	34.1	36.2	39.1	40.5	39.0	40.2	22	A
Standard deviation <i>s<sub>f</sub></i> (dB)	3.5	3.4	3.3	2.7	2.1	3.4	2.4	5.3	4.3		

## Technical Data Specifications

### Materials

- **Headband:** TPE
- **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:** PUR foam
- **Wind shield for speech microphone:** ABS, PA
- **Wind shield:** foam

### Power / Electrical Characteristics

- **Battery Type:** Lithium-Ion
- **Operating Time:** Up to 78 hours with stream

### Bluetooth® technology

- **Bluetooth version:** 5.2
- **Bluetooth headset profile (HSP):** 1.2
- **Bluetooth hands-free profile (HFP):** 1.8
- **Bluetooth Advanced Auto Distribution Profile (A2DP):** 1.3.2
- **Audio/Video Remote Control Profile (AVRCP):** 1.6.2
- **Bluetooth range:** Up to 10m/32.8ft (+4 dBm)

### Physical Characteristics

- **Boom microphone type:** Noise-cancelling electret microphone
- **Operating temperature:** -20°C (-4°F) to 50°C (122°F)
- **Storage temperature:** -20°C (-4°F) to 40°C (104°F), <90% humidity
- **Charging temperature:** 0°C (32°F) to 50°C (122°F)
- **Product lifetime:** Up to 5 years (excludes batteries)

## 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.

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