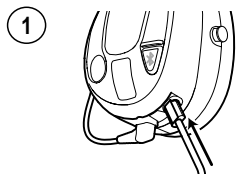# WS™ ALERT™ XPV Headset
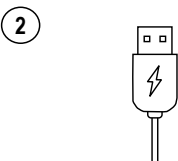# Casque antibruit WS™ ALERT™ XPV

Bluetooth®

A) QUICK GUIDE / GUIDE RAPIDE

(A:1) Wake up headset / Activer le casque antibruit
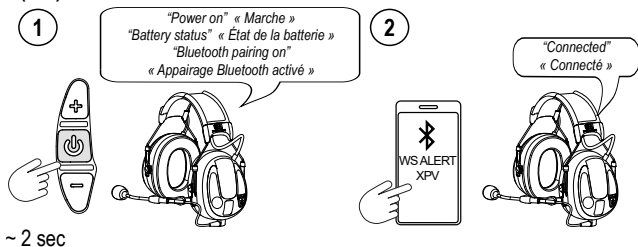**NOTE:** USB-C cable not included. **/ REMARQUE :** Câble USB-C non inclus.

Connect the USB-C connector to the headset
Raccordez le connecteur USB-C au casque antibruit

Connect the other USB connector to power source
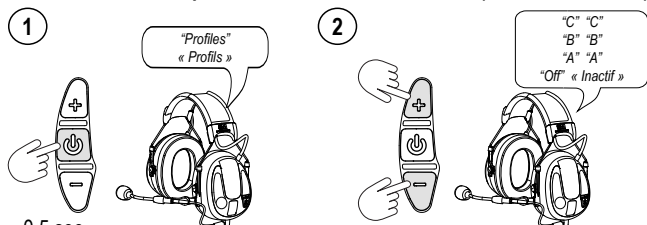Raccordez l'autre connecteur USB à une source d'alimentation

(A:2) Power on / Marche

"Power on" « Marche »
"Battery status" « État de la batterie »
"Bluetooth pairing on"
« Appairage Bluetooth activé »

"Connected"
« Connecté »

WS ALERT XPV

~ 2 sec

(A:3) Multifunction button
(A:3) Bouton Multifunction

(A:4) Select ambient listening profile (attention level) /
Sélectionner le profil écoute des sons ambiants (niveau d'attention).

"Profiles"
« Profils »

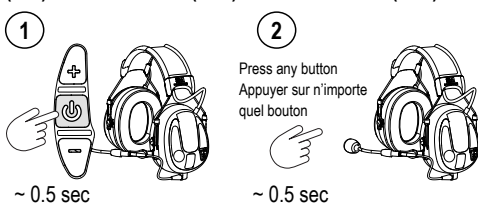*"C" "C"*
"B" "B"
"A" "A"
"Off" « Inactif »

~ 0.5 sec
Repeat pressing until "Profiles" is announced
Répéter la pression jusqu'à ce que « Profils » soit indiqué

Repeat pressing until the desired audio profile is announced
Répéter la pression jusqu'à ce que le profil audio désiré soit indiqué
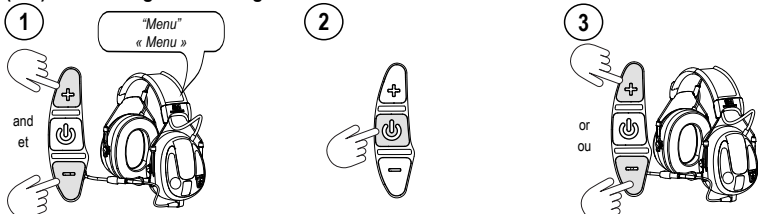
(A:5) Push-To-Listen (PTL) / Push-To-Listen (PTL)

Press any button
Appuyer sur n'importe quel bouton

~ 0.5 sec

~ 0.5 sec

Double press Double pression

(A:6) Menu navigation / Navigation dans le menu
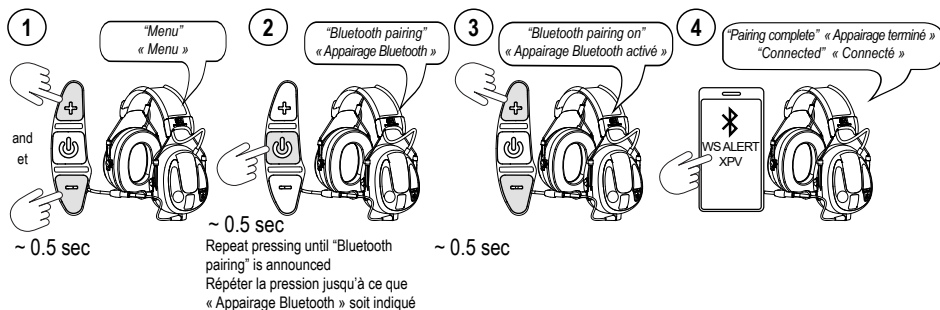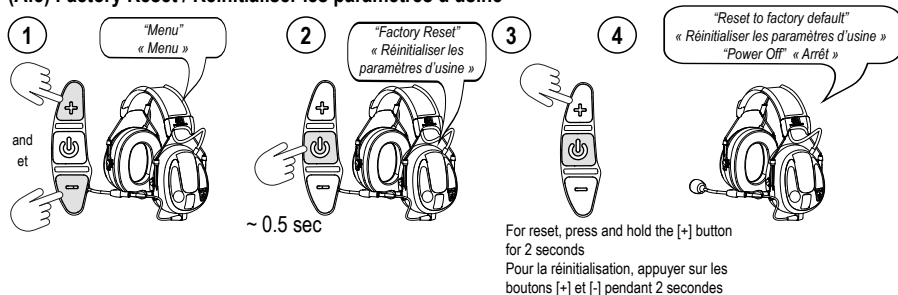
"Menu"
« Menu »

and
et

or
ou

~ 0.5 sec

Use the "Power on/off" button to navigate the menu
Utiliser le bouton « Marche/Arrêt » pour naviguer dans le menu.

Use [+] and [-] buttons to adjust the settings
Utiliser les boutons [+] et [-] pour régler les paramètres

(A:7) Pairing by using the menu / Appairage à l'aide du menu

1 *"Menu"* / *« Menu »*

and et

~ 0.5 sec

2 *"Bluetooth pairing"* / *« Appairage Bluetooth »*

~ 0.5 sec
Repeat pressing until "Bluetooth pairing" is announced
Répéter la pression jusqu'à ce que « Appairage Bluetooth » soit indiqué

3 *"Bluetooth pairing on"* / *« Appairage Bluetooth activé »*

~ 0.5 sec

4 *"Pairing complete"* / *« Appairage terminé »* / *"Connected"* / *« Connecté »*

WS ALERT XPV

(A:8) Factory Reset / Réinitialiser les paramètres d'usine

1 *"Menu"* / *« Menu »*

and et

2 *"Factory Reset"* / *« Réinitialiser les paramètres d'usine »*

~ 0.5 sec

3

For reset, press and hold the [+] button for 2 seconds
Pour la réinitialisation, appuyer sur les boutons [+] et [-] pendant 2 secondes

4 *"Reset to factory default"* / *« Réinitialiser les paramètres d'usine »* / *"Power Off"* / *« Arrêt »*

(A:9) Download the 3M™ Connected Equipment App / Télécharger l'application 3M™ Connected Equipment App

iOS   Android™

B) STANDARDS ANSI S3.19-1974 (US) AND CSA 22.2 (CANADA) ANSI S3.19-1974
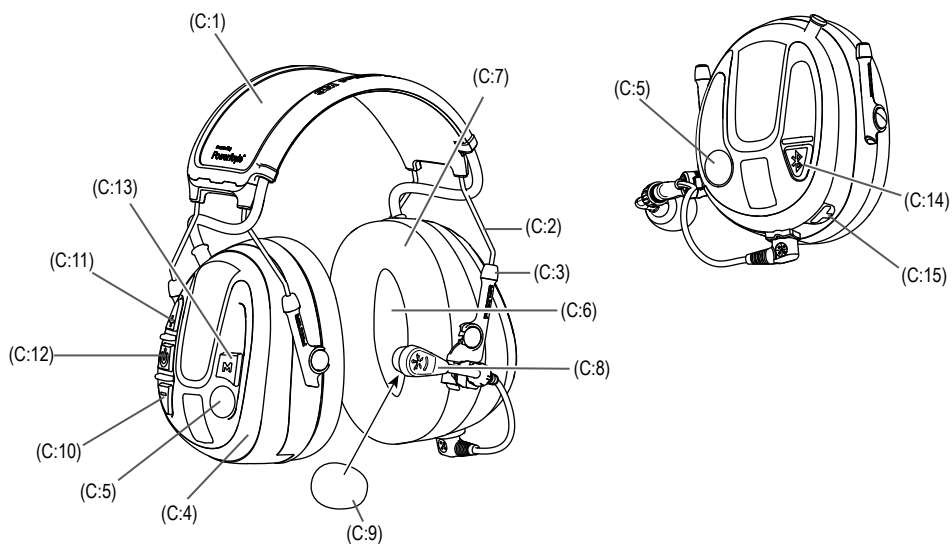**B) NORMES ANSI S3.19-1974 (US) ET CSA 22.2 (CANADA) ANSI S3.19-1974**

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.

3M recommande vivement un test d'ajustement personnel des protections auditives. Des études semblent démontrer que la réduction du bruit sera moindre que celle indiquée par les valeurs d'atténuation en raison des variations au niveau de l'ajustement, de l'habileté d'ajustement et de la motivation de l'utilisateur. Reportez-vous aux réglementations applicables ou aux conseils sur la manière d'ajuster la-les valeur(s) des étiquettes et estimer l'atténuation. En l'absence de réglementation applicable, il est recommandé de réduire la/les valeur(s) d'affaiblissement du bruit pour mieux estimer la protection type.
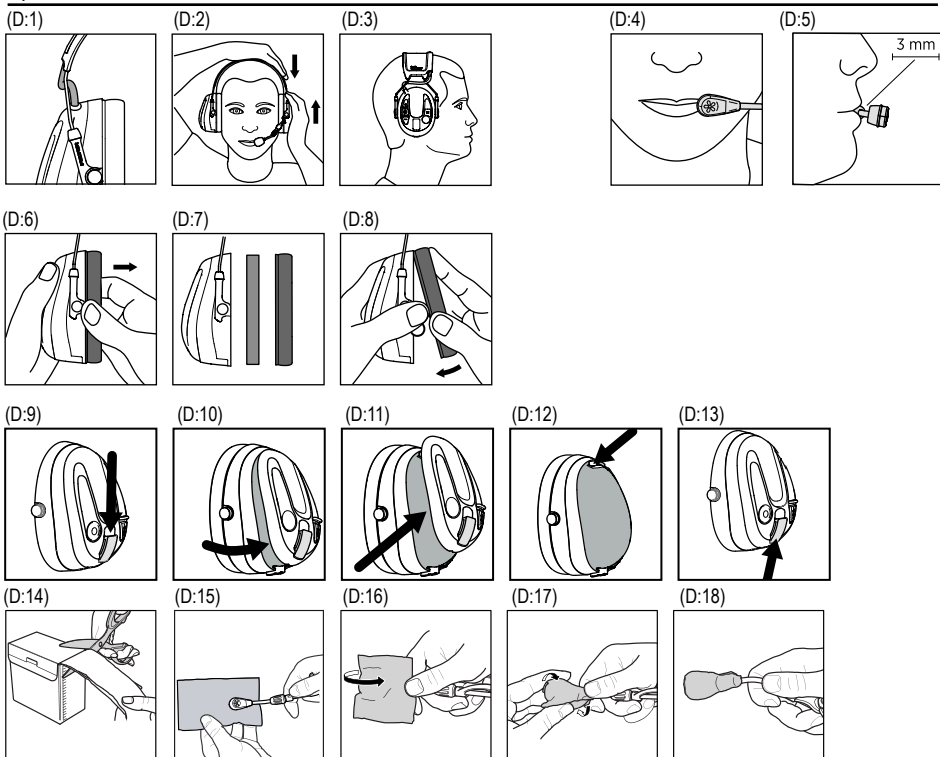
B:A Headband earmuffs with foam cushions
B:A Coquilles version serre-tête avec coussinets en mousse
MRX21A1WS7-NA

	B:1 f (Hz) B:1 f (Hz)										B:5 CSA Class B:5 Classe CSA
	125	250	500	1000	2000	3150	4000	6300	8000	B:4 NRR	
B:2 Mean attenuation (dB) (M$_f$) **B:2** Atténuation moyenne (dB) (M$_f$)	14.0	18.9	28.6	34.1	36.2	39.1	40.5	39.0	40.2	22	A
B:3 Standard deviation (dB) (s$_f$) **B:3** Écart type (dB) (s$_f$)	3.5	3.4	3.3	2.7	2.1	3.4	2.4	5.3	4.3		

C) COMPONENTS / COMPOSANTS

(C:1)
(C:7)
(C:5)
(C:13)
(C:11)
(C:2)
(C:3)
(C:12)
(C:6)
(C:14)
(C:8)
(C:15)
(C:10)
(C:5)
(C:4)
(C:9)
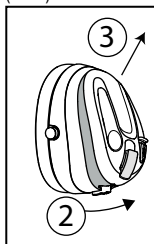
D) ILLUSTRATIONS / ILLUSTRATIONS

(D:1)
(D:2)
(D:3)
(D:4)
(D:5)
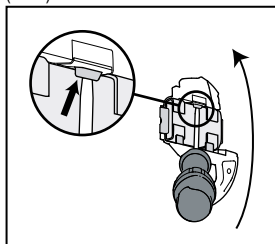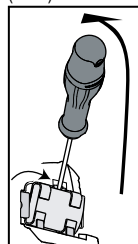
3 mm

(D:6)
(D:7)
(D:8)

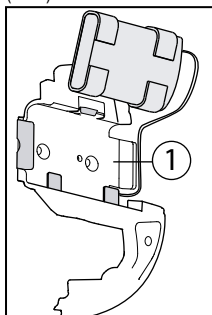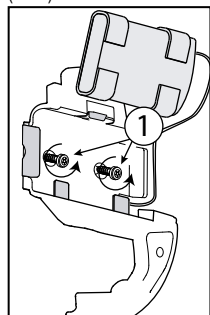(D:9)
(D:10)
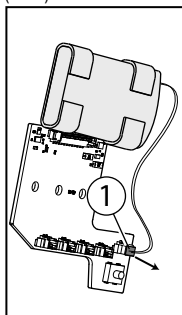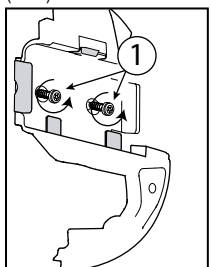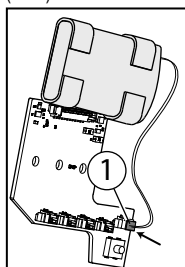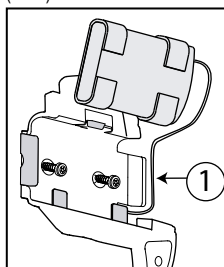(D:11)
(D:12)
(D:13)

(D:14)
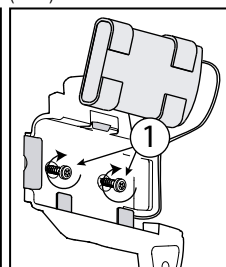(D:15)
(D:16)
(D:17)
(D:18)

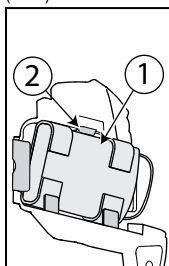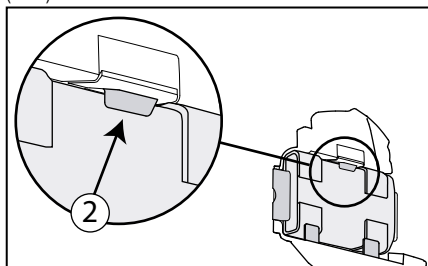(D:19) (D:20) (D:21) (D:22)

(D:23) (D:24) (D:25)

(D:26) (D:27) (D:28) (D:29)

(D:30) (D:31) (D:32) (D:33)

3M™ PELTOR™ WS™ ALERT™ XPV Headset
Casque antibruit 3M™ PELTOR™ WS™ ALERT™ XPV

EN	1-10
ES	11-21
FR	22-32

3M™ PELTOR™ WS™ ALERT™ XPV Headset
MRX21A1WS7*
*Designates product variants

1. INTRODUCTION

Congratulations and thank you for choosing this communication solutions headset!

1.1. INTENDED USE

These headsets are intended to provide workers with protection against hazardous noise levels while allowing the user to communicate with built-in Bluetooth technology and hear the surroundings via the ambient microphones. It is expected that all users read and understand the provided user instructions as well as be familiar with the use of this device.

3M PSD products are occupational use only. In Europe, some 3M PELTOR products may also be appropriate for certain non-work uses. Always read and follow User Instructions.

2. SAFETY

2.1. IMPORTANT

Please read, understand, and follow all safety information in these instructions prior to use. Retain these instructions for future reference. For additional information or any questions, contact 3M Technical Services (contact information listed on the last page).

⚠ WARNING

This hearing protector helps reduce exposure to hazardous noise and other loud sounds. Misuse or failure to wear hearing protection at all times when exposed to hazardous noise may result in hearing loss or injury. For correct use, consult supervisor and User Instructions, or call 3M Technical Services. If your hearing seems dulled or you hear a ringing or buzzing during or after any noise exposure (including gunfire), or for any other reason you suspect a hearing problem, leave the noisy environment immediately and consult a medical professional and/or your supervisor.

Failure to follow these instructions may result in serious injury or death:

a. This hearing protector provides an entertainment audio facility. Listening to music or other audio communication may reduce your situational awareness and ability to hear warning signals at a specific workplace. Stay alert and adjust the audio volume to the lowest acceptable level.

b. To reduce the risks associated with igniting an explosion, do not use non-intrinsic safe products and accessories in a potentially explosive atmosphere.

Failure to follow these instructions may reduce the protection provided by the earmuffs and may result in hearing loss:

a. U.S. EPA specifies the NRR as the measure of hearing protector noise reduction. However, 3M makes no warranties as to the suitability of the NRR for this purpose. 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). It is recommended that the NRR be reduced by 50% to better estimate typical protection.

b. Ensure the hearing protector is properly selected, fit, adjusted, and maintained. Improper fit of this device will reduce its effectiveness in attenuating noise. Consult the enclosed instructions for proper fit.

c. Inspect the hearing protector before each use. If damaged, select an undamaged hearing protector or avoid the noisy environment.

d. When additional personal protective equipment is necessary (e.g. safety glasses, respirators, etc.), select flexible, low profile temples or straps to minimize interference with the earmuff cushion. Remove all other unnecessary articles (e.g. hair, hats, jewelry, headphones, hygiene covers, etc.) that could interfere with the seal of the earmuff cushion and reduce the protection of the earmuff.

e. Do not bend or reshape the headband or neckband, and ensure there is adequate force to hold the earmuffs firmly in place.

f. Earmuffs, and in particular cushions, may deteriorate with use and should be examined at frequent intervals for cracking and leakage, for example. When used regularly, replace the ear cushions and foam liners at least twice a year to maintain consistent protection, hygiene, and comfort.

g. The output of the electrical audio circuit of this hearing protector may exceed the daily limit sound level. Adjust the audio volume to the lowest acceptable level. Sound levels from any connected external device such as 2-way radios and phones may exceed safe levels and must be appropriately limited by the user. Always use external devices at the lowest sound level possible for the situation and limit the amount of time you are exposed to unsafe levels as determined by your employer and applicable regulations. If your hearing seems dulled or you hear a ringing or buzzing during or after any sound exposure (including gunfire), or for any other reason you suspect a hearing problem, go to a quiet environment immediately and consult a medical professional and/or your supervisor.

2.2. CAUTION

• Risk of explosion if battery is replaced by an incorrect type.

• Do not charge batteries in temperatures above 45°C (113°F).

• Use only 3M™ PELTOR™ rechargeable batteries.

• With Lithium ion batteries, there is a risk of fire and burns. Do not open, crush, heat above 55°C (131°F), or incinerate.

• Keep the product away from direct sunlight when stored, for instance, in the windshield.

• Always use product-specific 3M replacement parts. Use of unauthorized replacement parts may reduce the protection you receive from this product.

2.3. NOTE

• When worn according to these User Instructions, this hearing protector helps reduce exposure to both continuous noises, such as industrial noises and noises from vehicles and aircraft, as well as impulse noises, such as gunfire. It is difficult to predict the required and/or actual hearing protection obtained during exposure to impulse noises. For gunfire, the weapon type, number of rounds fired, proper selection, fit and use of hearing protection, proper care of hearing protection, and other variables will impact performance. To learn more about hearing protection for impulse noise, visit www.3M.com.

• This hearing protector is provided with level-dependent attenuation. The user should check correct operation before use. If distortion or failure is detected, the user should refer to the manufacturer's advice for maintenance and replacement of the battery.

• This hearing protector is provided with safety-related audio input. The user should check correct operation before use. If distortion or failure is detected, the user should refer to the manufacturer's advice for maintenance.

• This hearing protector limits the entertainment audio signal to 82 dB(A) effective to the ear.

• Attention – Product imagery is for illustration only.

2.4. U.S. EPA REQUIRED STATEMENTS

Improper fit of this device will reduce its effectiveness in attenuating noise. Consult the enclosed instructions for proper fit.

Although hearing protectors can be recommended for protection against the harmful effects of impulsive noise, the Noise Reduction Rating (NRR) is based on the attenuation of continuous noise and may not be an accurate indicator of the protection attainable against impulsive noise such as gunfire (wording required by EPA).

The level of noise entering a person's ear, when hearing protector is worn as directed, is closely approximated by the difference between the A-weighted environmental noise level and the NRR.

Example

1. The environmental noise level as measured at the ear is 92 dB(A).

2. The NRR is 22 decibels (dB).

3. The level of noise entering the ear is approximately equal to 70 dB(A).

CAUTION: For noise environments dominated by frequencies below 500 Hz the C-weighted environmental noise level should be used.

3. APPROVALS

All the approvals referred in this section might not apply to your product. If some approvals don't apply to your product, this can be seen on the label(s) on the product.

3.1. FCC AND ISED INFORMATION

This device complies with Part 15 of the FCC rules and ISED Canada license-exempt Radio Standards Specifications. Operation is subject to the following two conditions: (1) This device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

NOTE: This device has been tested and found to comply with the limits for a Class B digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasona-ble protection against harmful interference in a residential installation. This device generates, uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this device does cause harmful interference, which can be determined by turning the device off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

• Reorient or relocate the receiving antenna.

• Increase the separation distance between the two interfering devices.

• Consult 3M Technical Services.

FCC ID: Y9ZMRX21A1WS7
IC: 4406A-MRX21A1WS7

This portable device with its antenna complies with FCC / ISED RF Exposure limits for general population / uncontrolled exposure. Changes or modifications to the equipment not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

4. EXPLANATION OF STANDARD TABLES

The attenuation rating was obtained with the device powered off.

4.1. STANDARDS ANSI S3.19-1974 (US) AND CSA 22.2 (CANADA)

U.S. EPA specifies the NRR as the measure of hearing protector noise reduction. However, 3M makes no warranties as to the suitability of the NRR for this purpose. 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). It is recommended that the NRR be reduced by 50% to better estimate typical protection.

Table ref.	Description
B:A	Headband earmuffs with foam cushions
B:1	Frequency (Hz)
B:2	Mean Attenuation (dB)
B:3	Standard Deviation (dB)
B:4	NRR = Noise Reduction Rating (dB)
B:5	CSA Class (CSA = Canadian Standard Association)

5. OVERVIEW

5.1. COMPONENTS
(Figure C)
C:1 Headband (TPE, TPU)
C:2 Headband wire (stainless steel)
C:3 Two-point fastener (POM)
C:4 Cup (ABS)
C:5 Microphone for ambient listening (PET foam)
C:6 Dampening pad (PUR foam)
C:7 Ear cushion (PVC foil, PUR foam)
C:8 Speech microphone (PUR, TPE, PA)
C:9 Windshield (PUR foam)
C:10 [-] button on keypad (TPE)
C:11 [+] button on keypad (TPE)
C:12 Power button (TPE)
C:13 Multifunction (M) button (TPE)
C:14 Bluetooth button (TPE)
C:15 USB Jack (TPE, ABS)

6. SETUP

6.1. GENERAL
The following points cover the main actions to make the product ready for operation.
NOTE: USB-C cable not included to reduce waste.

6.2. WAKE UP HEADSET
(Figure A:1)
If the product is inactive for a long period of time it will enter "shipping mode" to reduce self-discharge, it will not start until a charger is connected.

6.3. CHARGE BATTERIES
Make sure you have read and understand the contents of Chapter 2. Safety before charging the battery/batteries.

6.3.1. CHARGING WITH CABLE
(Figure C)
1. Connect the USB-C connector to the headset (C:15).
2. Connect the other USB connector to an USB power source.

6.3.2. SELF-CHARGING WITH SOLAR CELL/ POWERFOYLE™
The Powerfoyle™ in the headband will prolong the battery life by absorbing and converting the light around you to electrical energy.

Charging performance	
Great	
Good	
Some	
None	

7. FITTING INSTRUCTIONS

Inspect the hearing protector before each use. If damaged, select an undamaged hearing protector or avoid the noisy environment.

7.1. HEADBAND
(Figure D)

D:1 Slide out the cups and tilt the top of the shell out, as the cable must be on the outside of the headband.

D:2 Adjust the height of the cups by sliding them up or down while holding the headband in place.

D:3 The headband should be positioned across the top of the head as shown and should support the weight of the headset.

7.2. MICROPHONE
(Figure D)

To maximize the performance of the speech microphone in noisy areas, position the microphone very close to your mouth (less than 3 mm or 1/8 inch). See Figure D:4 and D:5.

8. OPERATING INSTRUCTIONS

8.1. OPERATING TEMPERATURE
–20°C (–4°F) to 50°C (122°F).

8.2. POWER ON AND OFF
(Figure A:2 and Figure C)
Long press (2 s) the Power button to power the headset on or off.
A voice message will notify "Power on" or "Power off".
The first time the headset is powered on, it automatically enters pairing mode.

NOTE: If no button has been pressed for 4 hours, the headset will automatically be powered off. A voice message will notify "Automatic power off".

8.3. ADJUST AND SELECT SOUND SOURCE VOLUME LEVEL
(Figure C)

Change the active sound source by short pressing (0.5 s) the Power button.
An audio message will announce each active sound source.

The sound source can either be:
• Profiles / Volumes (Ambient Listening)
• Bluetooth radio
• Streaming
• Phone

To adjust the active sound volume level, short press (0.5 s) the [+] or [-] button.

Each quick press adjusts volume by one step (0-6 steps where 0 is off). Maximum/minimum volume is indicated by a beep. Detailed information is provided in the menu description.

8.3.1. AMBIENT LISTENING
(Figure A:4 and Figure C)

This headset is intended to help protect the user's hearing in noise, which results in the dampening of sounds. To help maintain auditory awareness, the headset can or may amplify the environmental sounds based on settings.

To assist the user in a variety of acoustical environments, two listening modes are available: Profiles (Work Audio Profiles, WAP) (default) and Volumes.

Four different audio profiles are available to optimize listening in different acoustic environments.
Select desired audio profile by short pressing the [+] or [-] buttons.

8.3.2. WORK AUDIO PROFILES (WAP)
The headset can be set to different ambient listening profiles depending on the acoustical environment and auditory needs. Regardless of the ambient listening setting, sounds above 82 dB are compressed to limit the output.
The ambient listening profiles provide advanced ambient listening types that allow access to a variety of gain settings, but with frequency shaping, to promote auditory performance in different conditions.

Audio profile	Symbol	Situation	Intended use	Sound level to ear
Off		For comfort in noise	Suitable in high noise when you want to be isolated from noise or other situations where you want to turn off the environmental listening technology	Only through cups
A (Default)		For being attentive in noise	Suitable in environments with constant noise where you want to stay attentive to environmental sounds	
B		For balance between situational awareness and comfort in noise	Suitable in varying noise levels where you need to hear environmental sounds	
C		For being attentive in silence	Suitable in low noise environments, when you need to hear speech and environmental sounds or when you talk on the phone/stream music but still want to stay attentive to environmental sounds	

8.3.3. BLUETOOTH RADIO
Adjusts Bluetooth two-way radio listening volume.

8.3.4. STREAMING
Adjusts streaming listening volume.

8.3.5. PHONE
Adjusts ongoing phone call listening volume.

8.4. COMMUNICATION FACE-TO-FACE (PUSH-TO-LISTEN, PTL)
(Figure A:5 and Figure C)
The Push-To-Listen feature enables you to instantly listen to your environment by muting the Bluetooth audio volume and activating the level-dependent microphones.
Short press (0.5 s) the Power button two times to activate Push-To-Listen. Short press (0.5 s) on any button to deactivate Push-To-Listen.

8.5. PUSH-TO-TALK (PTT)
(Figure A and Figure C)
When connected to a two-way radio that supports the PELTOR Push-To-Talk protocol, you will be able to Push-To-Talk with the Bluetooth button on the headset.

8.6. BLUETOOTH SETTINGS AND OPERATION
(Figure A and Figure C)

8.6.1. PAIRING A BLUETOOTH DEVICE
The first time the headset is powered on, it automatically enters pairing mode. A voice message confirms, "Bluetooth pairing on". Pairing mode can also be entered from the menu. This is necessary for pairing a second device, refer to chapter 9.2. Bluetooth pairing.

Make sure that Bluetooth communication is activated on your Bluetooth device. Search and select "WS ALERT XPV" on your Bluetooth device. A voice message confirms when the pairing is complete, "Pairing complete" and "Connected".

NOTE: You can always stop the pairing process by a long press (2 s) on the Bluetooth button or on the M-button (Figure C and figure A).

NOTE: When a 3rd Bluetooth device is successfully paired, one of the previously paired devices is removed from the headset. If one of the devices is connected, the unconnected device is removed. Otherwise, the 1st paired device is removed.

8.6.2. BLUETOOTH INTEROPERABILITY
WS ALERT XPV is a Bluetooth headset, and can be paired with most Bluetooth enabled phones, two-way radios and other devices.

When connected to a two-way radio that supports the PELTOR Push-To-Talk protocol, you will be able to Push-To-Talk with the Bluetooth button or the M-button on the headset.
NOTE: Only one of the two paired devices can be a two-way radio.

NOTE: Your PELTOR product's ability to interface with external devices (such as cell phones or radios) via Bluetooth and/or cable might be affected by the software in the external device. Some described functionality may not work with all external devices and may be impacted by software and hardware updates on that particular device.

8.6.3. RECONNECTING BLUETOOTH DEVICES
When the headset is powered on, it tries to reconnect to all paired devices during 5 minutes. A voice message will confirm the connection "Connected".
NOTE: If the link is lost, the headset will try to reconnect during 30 seconds. A voice message will inform you if you get link loss, "Disconnected".

8.6.4. BLUETOOTH MULTIPOINT TECHNOLOGY
This headset supports Bluetooth Multipoint technology. Use Bluetooth Multipoint technology to connect your headset to two Bluetooth devices at the same time. Depending on the type of Bluetooth devices connected and their current activities, the headset controls the Bluetooth devices in different ways. The headset prioritizes and coordinates activities from the connected Bluetooth devices.

8.6.5. CONTROLLING CONNECTED DEVICES
The headset can have one or two devices connected via Bluetooth.
The latest paired device becomes the primary device.
To control the connected device or devices, the headset reacts to the device's current state, such as incoming call, active call or streaming.
If more than one device is connected simultaneously, the headset must determine which device to control. This is done by the headset checking the state of the connected devices. If there are multiple devices in the same state, the headset will control the last paired device (primary device). Otherwise, the headset will control the last active device.

NOTE: The operation is dependent on the phone(s) interoperability with the headset.

8.6.6. OPERATING ONE CONNECTED PHONE

Bluetooth button	State	Action
Short press	No activity	Play (Depends on phone and/or App.)
	Streaming	Pause
	Incoming call	Answer
	Outgoing call/Call in progress	End call
Long press	No activity/ Streaming	Voice control
	Incoming call	Reject
	Call in progress	Transfer call between phone/headset
Double press	Streaming	Next track
Triple press	Streaming	Previous track

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8.6.7. OPERATING TWO CONNECTED PHONES

Bluetooth button	State	Action
Short press	No activity	Play (Depends on phone and/or App.)
	Streaming	Pause
	Incoming call	Answer
	Outgoing call/Call in progress	End call
	Call in progress on one phone, incoming call on second phone	End ongoing call, answer incoming call
Long press	No activity/ Streaming	Voice control on the last paired device (primary device)
	Incoming call	Reject
	Call in progress on one phone, incoming call on second phone	Reject incoming call
Double press	Streaming	Next track
Triple press	Streaming	Previous track

8.6.8. OPERATING CONNECTED TWO-WAY RADIO

Bluetooth button	State	Action
Press	No activity/ Streaming	PTT. Start transmitting on two-way radio
Release	Transmitting on two-way radio	PTT. Stop transmitting on two-way radio

8.6.9. OPERATING CONNECTED PHONE WHEN CONNECTED TO TWO-WAY RADIO SIMULTANEOUSLY

Bluetooth button	State	Action
Short press	Incoming call	Answer
	Outgoing call/Call in progress	End call
	Ongoing reception on two-way radio and incoming call	Answer
	Ongoing phone call and reception on two-way radio	End call
Long press	Incoming call	Reject
	Call in progress	Transfer call between phone/headset

NOTE: When connected to a phone and a two-way radio you cannot control the audio playback unit from the headset.

NOTE: If you have an ongoing phone call, you will hear two beeps for incoming calls on the two-way radio. To end the call and switch to the incoming two-way radio call, short press (0.5 s) the Bluetooth button. Short press (0.5 s) the Bluetooth button one more time to listen to the two-way radio or wait for the next incoming two-way radio message.

NOTE: Streaming will be automatically paused when a phone call or a two-way radio communication is in progress. After ending the call / two-way radio communication, the streaming will automatically start again.

8.7. 3M™ CONNECTED EQUIPMENT (APP)
Connect your headset with the "3M Connected Equipment" mobile application supporting both Android™ and iOS. When connected to the mobile application you will have access to settings, configurations, user instruction etc.

NOTE: For more information go to the "App Store" or "Google Play" and download the "3M Connected Equipment" application. For support on the "3M Connected Equipment", please see information in the mobile application.

NOTE: To keep your headset up to date, download the app and accept any updates currently available.

8.8. MULTIFUNCTION BUTTON (M)
(Figure A and E)
The Multifunction button (M) located on the right earcup (see figure A:3 and C:13) can be customized to be used for different pre-defined features in the 3M Connected Equipment app.
(Default: announces current time when pressed).

9. MENU FUNCTIONS

Menu options:
- Bluetooth pairing
- Streaming profiles
- Bluetooth side tone volume
- Microphone
- Ambient listening mode
- Factory reset

9.1. TO ENTER THE MENU
(Figure A:6)
To enter the menu, short press (0.5 s) on the [+] and [-] buttons simultaneously.
Use the Power button to navigate through the menu and the [+] and [-] buttons to adjust the settings.
After 10 seconds of inactivity, the headset will exit the menu. The options in the Main Menu are described in the following chapters.

9.2. BLUETOOTH PAIRING
(Figure A:7)
When the voice message says "Bluetooth pairing", short press (0.5 s) the [+] button to start pairing. A voice message will confirm, "Bluetooth pairing on". Search and select "WS ALERT XPV" on your Bluetooth device. A voice message will confirm when pairing is complete, "pairing complete" and "connected".

Short press (0.5 s) the [+] button to cancel the pairing. A voice message will confirm, "Bluetooth pairing off".

9.3. STREAMING PROFILES
Select between two different streaming profiles for music or podcast.
Options:
- Music (default)
- Pod

Short press (0.5 s) the [+] or [-] button to change the streaming profile.

9.4. BLUETOOTH SIDE TONE VOLUME
Sidetone is audible feedback to the headset user during a conversation. Short press (0.5 s) the [-] or [+] button to change the sidetone.
Options:
- High
- Normal (default)
- Low
- Off

9.5. MICROPHONE
This menu is used to set the current installed microphone. Short press (0.5 s) the [-] or [+] button to change the microphone model.
Options:
- Electret (default)
- Dynamic

9.6. AMBIENT LISTENING MODE
The ambient listening function is available in two different modes: Profiles and Volumes.
Options:
- Profiles (default)
- Volumes

Short press (0.5 s) the [-] or [+] button to change the ambient listening mode.

9.7. FACTORY RESET
(Figure A:8)
1. Enter the menu, short press (0.5 s) on the [+] and [-] buttons simultaneously.
2. Use the Power button to navigate through the menu until "Factory Reset" is announced.
3. Press and hold the [+] button for (2s).
4. The headset will announce "Reset to factory default" and "Power off".

10. TROUBLESHOOTING

Problem	Possible Issue/Solution
The headset will not power on.	Make sure the battery in the headset is fully charged.
	Poor battery. Replace the battery.
	Connect a charging cable to activate the headset at first use or after replacement of the battery.
Pairing failed.	Make sure the Bluetooth device to pair is set to pairing mode and ready for pairing.
	The Bluetooth device to pair is out of range.
	1. Remove all Bluetooth devices that are synchronized to your phone. 2. Restart the phone (power on/off your phone). 3. Do a factory reset on the headset. 4. Pair your headset to your phone. 5. If the problem remains, try to pair another phone to see if it helps.

11. PRODUCT LIFETIME

It is recommended that you replace your product within 5 years from date of manufacture. The lifetime of the product will be highly dependent on the environment in which the product is stored, used, serviced, and maintained. The user must regularly inspect the product to determine when it has reached its end of life. Examples that the product may have reached its end of life are:

- Visible defects such as cracks, deformations, loose or missing parts.
- Experience of a deterioration in the hearing protector's attenuation performance, strange noise or abnormal high sound volumes from the product's electronic sound reproduction.

NOTE: Product lifetime does not include batteries.

12. CLEANING AND MAINTENANCE

Carry out a visual battery condition check. Replace if battery leakage or defects are detected.

Use a cloth wetted with soap and warm water to clean the outer shells, headband including the solar cell surface and ear cushions.
NOTE: Do NOT immerse the hearing protector in water.

If the hearing protector gets wet from rain or sweat, turn the earmuffs outwards, remove the ear cushions and foam liners, and allow to dry before reassembly. The ear cushions and foam liners may deteriorate with use and should be examined at regular intervals for cracking or other damage. When used regularly, 3M recommends replacing the foam liners and ear cushions at least twice a year to maintain consistent attenuation, hygiene, and comfort.
In hot and humid environments more frequent changes may be required to maintain acceptable hygiene. If an ear cushion is damaged, it should be replaced. See Spare Parts Section below.

12.1. REMOVING AND REPLACING THE EAR CUSHIONS
(Figure D)
D:6 To remove the ear cushion, slide your fingers under the inside edge of the ear cushion and firmly pull straight out.
D:7 Remove existing liner(s) and insert new foam liner(s).
D:8 Fit one side of the ear cushion into the groove of the earcup and then press on the opposite side until ear cushion snaps in place.

12.2. REMOVING AND REPLACING OUTER SHELLS
(Figure D)
To remove the outer shells:
Insert your fingers or a tool under the edge of the outer shell clamp and pull out and down (D:9) to unlock the outer shell. Remove the shell by lifting from the bottom edge (D:10) and (D:11).
To attach the outer shells:
Press down on the clamp of the outer shell to ensure it is in the unlock position. Position the tab on the top edge of outer shell into the slot (D:12) on the top edge of the earcup. When the outer shell is pressed fully into place, push the clamp (D:13) upwards to lock the outer shell to the earcup.

12.3. APPLYING MICROPHONE PROTECTOR TAPE
(Figure D)
To protect the boom speech microphone from humidity and dirt, use microphone protector HYM1000.

Attaching the microphone protector:
D:14 Use a pair of scissors to cut 100 mm of mic protector tape. Remove the protective paper.
D:15 Place the microphone in the end of the tape as shown in the picture.
D:16 Fold the protector tape and make sure that the microphone is covered.
D:17 Press tightly to seal the protector tape.
D:18 The microphone is now ready to use.

12.4. BATTERY REPLACEMENT

Tools needed:

- Small screwdriver without sharp edges.
- Torx screwdriver T8.

NOTE: Be careful not to pierce, scratch or damage the battery.

12.4.1. REMOVAL
(Figure D:19 to D:25)
1. (Figure D:19 and D:20)
   Press downwards to unlock the latch (1) on the left cup and remove the cup (2) and (3).
2. (Figure D:21)
   Insert the tip of a small screwdriver without sharp edges below the battery latch.
   (Figure D:22)
   Tilt the screwdriver gently to unlatch the battery. The battery will be loosened and tilted in the battery compartment.
3. (Figure D:23)
   Lift out the battery. The battery connector is located behind the battery compartment. It must remain connected until the battery compartment (1) has been removed as described in bullet 4.
   Be careful not to cause damage to the two wires.

4. (Figure D:24)
    Loosen the two fixing screws (1) holding the battery compartment and remove it. Allow the screws to remain in the holes.
5. (Figure D:25)
    Pull the connector (1) gently upwards to remove it from the socket on the circuit board.

12.4.2. INSTALLATION

(Figure D:26 to D:33)
This instruction assumes that there is no battery installed in the headset. The left cup is removed.

1. (Figure D:26)
    Loosen the two fixing screws (1) holding the battery compartment and remove it. Allow the screws to remain in the holes.
2. (Figure D:27)
    Install the battery connector to the socket on the circuit board.
    The socket is keyed, so it only fits in one way.
    The red wire is placed on the left hand side of the connector and shall be plugged into the socket accordingly.
3. (Figure D:28)
    Install the battery compartment.
    Make sure the battery wires are placed as shown in the figure (1) and that no wires are clamped.
    Press gently until it fits in place.
4. (Figure D:29)
    Tighten the fixing screws using a gentle force.
5. (Figure D:30 and D:31)
    Place the battery in the compartment in an angle shown in the figure.
    Then press gently (1) until the battery is fitted in the compartment, and the latch (2) has locked the battery in position.
6. (Figure D:32 and D:33)
    Install the cup (1), (2) and press the latch (3) inwards and up to lock the cup in position.
7. (Figure A:1)
    If the product is inactive for a long period of time it will enter "shipping mode" to reduce self-discharge, it will not start until a charger is connected.

13. SPARE PARTS AND ACCESSORIES

Article number	Name
MT53N-14	Microphone, Electret with J22 plug, 240 mm
M995/2	Windshield for microphone
ACK012/1	Li-Ion Battery pack
HY82	Hygiene kit
FR16	USB Cable for charging
HYM1000	Hygiene tape for boom microphone, black

Article number	Name
HY100A	Clean - Single use protector for the ear cushions. Package of 100 pairs.

14. STORAGE

• Store the product in a clean and dry area before and after use.

• Always store the product in the original packaging and away from any sources of direct heat or sunlight, dust and damaging chemicals.

• Storage temperature range: –20°C (–4°F) to 40°C (104°F).

• Relative humidity: <90%.

• Make sure that no force is applied to the headband and that the cushions are not compressed.

NOTE: While stored, if possible, keep the batteries separate. Rechargeable Li-Ion batteries (removable and non-removable) have to be recharged every 6 months, not to lose capacity.

15. SYMBOLS

This chapter is general and explains the meaning of different symbols that can be found on labels, packaging, and/or on the product itself.

Symbol	Description
	Keep away from rain and keep in dry conditions (max 90% humidity).
	The maximum and minimum temperature limits at which the item shall be stored.
	Information that relates to the operating instructions. The operating instructions should be considered when operating the device.
	Caution is necessary when operating the device. The current situation needs operator awareness or operator action to avoid undesirable consequences.
	The country of manufacture of products. The "CC" shall be replaced by the two-letter country code CN = China, SE = Sweden or PL = Poland (ISO 3166-1). Date of manufacture is specified as YYYY-MM.

Symbol	Description
	The manufacturer of a product.
	WEEE (Waste of Electrical and Electronic Equipment). The product contains electrical and electronic components and must not be disposed of using standard refuse collection. Please consult local directives for disposal of electrical and electronic equipment.
	Recycling Symbol. Recycle this product at a recycling station for electrical and electronic equipment.

16. WARRANTY AND LIMITATION OF LIABILITY

NOTE: The following statements do not apply in Australia and New Zealand.

Consumers should rely on their statutory rights.

16.1. WARRANTY

In the event any 3M Personal Safety Division product is found to be defective in material, workmanship, or not in conformity with any express warranty for a specific purpose, 3M's only obligation and your exclusive remedy shall be at 3M's option, to repair, replace or refund the purchase price of such parts or products upon timely notification of the issue by you and substantiation that the product has been stored, maintained and used in accordance with 3M's written instructions.

EXCEPT WHERE PROHIBITED BY LAW, THIS WARRANTY IS EXCLUSIVE AND IS IN LIEU OF ANY EXPRESS OR IMPLIED WARRANTY OR CONDITION OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE OR OTHER WARRANTY OR CONDITION OF QUALITY, OR THOSE ARISING FROM A COURSE OF DEALING, CUSTOM OR USAGE OF TRADE, EXCEPT OF TITLE AND AGAINST PATENT INFRINGEMENT.

3M has no obligation under this warranty with respect to any product that has failed due to inadequate or improper storage, handling, or maintenance; failure to follow product instructions; or alteration or damage to the product caused by accident, neglect, or misuse.

16.2. LIMITATION OF LIABILITY

EXCEPT WHERE PROHIBITED BY LAW, IN NO EVENT SHALL 3M BE LIABLE FOR ANY DIRECT, INDIRECT, SPECIAL, INCIDENTAL OR CONSEQUENTIAL LOSS OR DAMAGES (INCLUDING LOST PROFITS) ARISING FROM THIS PRODUCT, REGARDLESS OF THE LEGAL THEORY ASSERTED. THE REMEDIES SET FORTH HEREIN ARE EXCLUSIVE.

16.3. NO MODIFICATION

Modifications to this device shall not be made without the written consent of 3M Company. Unauthorized modifications may void the warranty and the user's authority to operate the device.

17. DISPOSAL

17.1. BATTERY DISPOSAL

Many rechargeable batteries are required to be recycled by local, state/province, and national laws. To properly recycle/dispose of the battery or battery pack, always follow local solid waste disposal regulations. Additionally in the United States and Canada, 3M Company is partnering with Call2Recycle (RBRC) to provide recycling service to you to help ensure that the rechargeable batteries within our products are recycled properly. To assist you in using this service call the Call2Recycle battery recycling information help line at 1-800-8-BATTERY (1-800-822-8837) or consult Call2Recycle's battery recycling guidance online at www.call2recycle.org.

17.2. ELECTRONIC WASTE DISPOSAL

The device is to be disposed of in accordance with local laws and regulations.

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