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FP3806 rev a

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Patent: www.3M.com/patent

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3M™ PELTOR™ WS™ LiteCom Pro III Headset

MT73H7*4D10EU-50
MT73H7*4D10EU
MT73H7*4D10NA
MT73H7*4D10NA-50

PELTOR™

(A) EN 352-1:2002 / EN 352-3:2002 / EN 352-4:2001/A1:2005 / EN 352-6:2002 / EN 352-8:2008

MT73H7A4D10EU **EN 352-1:2002**

A:1 Frequency (Hz)	125	250	500	1000	2000	4000	8000	SNR
A:2 Mean attenuation (dB)	19,3	25,0	34,8	37,4	36,1	40,4	36,4	
A:3 Standard deviation (dB)	2,5	1,9	2,6	3,5	3,7	2,4	4,0	33
A:4 APV (dB)	16,8	23,1,	32,2	33,9	32,4	38,0	32,4	

A:5 H = 34dB, M = 31dB, L = 25dB

Approx: 490 g

MT73H7F4D10EU-50 **EN 352-1:2002**

A:1 Frequency (Hz)	125	250	500	1000	2000	4000	8000	SNR
A:2 Mean attenuation (dB)	18,6	24,3	33,6	36,8	35,5	39,4	35,5	
A:3 Standard deviation (dB)	2,9	2,4	2,4	3,4	2,9	2,5	3,4	33
A:4 APV (dB)	15,7	21,9	31,2	33,4	32,6	36,9	32,1	

A:5 H = 34 dB, M = 31 dB, L = 23 dB

Approx: 521 g

MT73H7B4D10EU, MT73H7B4D10EU-50 **EN 352-1:2002**

A:1 Frequency (Hz)	125	250	500	1000	2000	4000	8000	SNR
A:2 Mean attenuation (dB)	17,7	23,9	32,5	36,2	35,6	39,5	37,1	
A:3 Standard deviation (dB)	2,8	3,1	3,9	3,1	2,5	2,9	2,3	32
A:4 APV (dB)	14,9	20,8	28,6	33,1	33,1	36,6	34,8	

A:5 H = 35 dB, M = 30 dB, L = 22 dB

Approx: 475 g

MT73H7P3E4D10EU, MT73H7P3E4D10EU-50 **EN 352-3:2002**

A:1 Frequency (Hz)	125	250	500	1000	2000	4000	8000	SNR
A:2 Mean attenuation (dB)	18,1	23,2	32,0	36,4	34,2	40,2	34,5	
A:3 Standard deviation (dB)	3,3	1,8	3,4	2,7	1,9	2,5	4,6	32
A:4 APV (dB)	14,8	21,4	28,6	33,7	32,3	37,7	29,9	

A:5 H = 33 dB, M = 30 dB, L = 23 dB

Approx: 512 g

A:6 Criterion Levels	
H	119 dB(A)
M	111 dB(A)
L	100 dB(A)

(B) ANSI S3.19-1974

MT73H7A4D10NA **ANSI S3.19-1974**

B:1 Test Frequency (Hz)	125	250	500	1000	2000	3150	4000	6300	8000	NRR	CSA
B:2 Mean attenuation (dB)	21.7	25.3	35.2	37.9	36.9	40.1	40.2	38.6	39.4	28	Class
B:3 Standard deviation (dB)	3.0	2.4	2.6	2.8	3.1	3.2	3.1	2.3	2.4		AL

MT73H7F4D10NA-50 **ANSI S3.19-1974**

B:1 Test Frequency (Hz)	125	250	500	1000	2000	3150	4000	6300	8000	NRR	CSA
B:2 Mean attenuation (dB)	21.2	23.7	34.3	36.6	37.4	39.6	38.9	37.9	39.2	27	Class
B:3 Standard deviation (dB)	3.3	2.7	2.4	2.8	2.8	3.6	2.9	2.1	3.3		AL

MT73H7B4D10NA, MT73H7B4D10NA-50 **ANSI S3.19-1974**

B:1 Test Frequency (Hz)	125	250	500	1000	2000	3150	4000	6300	8000	NRR	CSA
B:2 Mean attenuation (dB)	20.9	23.6	33.8	37.3	36.8	39.4	39.0	37.7	38.9	28	Class
B:3 Standard deviation (dB)	3.1	2.0	2.2	2.4	2.7	3.1	2.4	1.8	2.9		AL

MT73H7P3E4D10NA, MT73H7P3E4D10NA-50 **ANSI S3.19-1974**

B:1 Test Frequency (Hz)	125	250	500	1000	2000	3150	4000	6300	8000	NRR	CSA
B:2 Mean attenuation (dB)	19.0	21.9	30.4	35.9	36.1	37.3	37.2	34.7	34.8	25	Class
B:3 Standard deviation (dB)	2.1	2.4	3.1	3.5	3.0	3.5	3.3	3.2	3.3		A

B:4 Tested with 3M™ PELTOR™ Hard Hat Model H-700.

(C) COMPATIBLE INDUSTRIAL SAFETY HELMETS EN 352-3

C:1 Helmet Manufacturer	C:2 Helmet model	C:3 Attachment	C:4 Head Size
3M	G3000 Basic set	E	L
3M	G2000	K	L
3M	G3501	E	L
3M	Versaflo M306/ 307	AF	L
Grolls	Balance AC	E	L
Petzl	Vertex	E	L
Protector / Scott	Style 600	E	SML
Protector / Scott	Tuffmaster II	E	L

(D) EXTERNAL AUDIO INPUT LEVELS EN 352-6

D:1 RMS Voltage U (mV)	D:2 Mean Sound Pressure (dB(A))	D:3 STD Sound Pressure (dB)
28,1	70,8	0,7
49,9	75,8	0,7
88,8	80,8	0,7
157,9	85,7	0,7

D:4 94 mV = 82 dB(A)

(E) FACTORY PROGRAMMED RADIO FREQUENCIES (*NA Models)

Channel	Frequency (MHz)	Type	Modulation	Channel	Frequency (MHz)	Type	Modulation	Channel	Frequency (MHz)	Type	Modulation
1	462.5625	FRS	Analog	5	462.6625	FRS	Analog	9	467.5875	FRS	Analog
2	462.5875	FRS	Analog	6	462.6875	FRS	Analog	10	467.6125	FRS	Analog
3	462.6125	FRS	Analog	7	467.5625	FRS	Analog	11	467.6375	FRS	Analog
4	462.6375	FRS	Analog	8	467.5625	FRS	Analog	12	467.6625	FRS	Analog
13	467.6875	FRS	Analog	29	462.7125	FRS	DMR
14	467.7125	FRS	Analog	30	467.5625	FRS	DMR
15	462.5500	GMRS	Analog	31	467.5875	FRS	DMR
16	462.5750	GMRS	Analog	32	467.6125	FRS	DMR
17	462.6000	GMRS	Analog	33	467.6375	FRS	DMR
18	462.6250	GMRS	Analog	34	467.6625	FRS	DMR
19	462.6500	GMRS	Analog	35	467.6875	FRS	DMR
20	462.6750	GMRS	Analog	36	467.7125	FRS	DMR
21	462.7000	GMRS	Analog	37	462.5500	GMRS	DMR
22	462.7250	GMRS	Analog	38	462.5750	GMRS	DMR
23	462.5625	FRS	DMR	39	462.6000	GMRS	DMR
24	462.5875	FRS	DMR	40	462.6250	GMRS	DMR
25	462.6125	FRS	DMR	41	462.6500	GMRS	DMR
26	462.6375	FRS	DMR	42	462.6750	GMRS	DMR
27	462.6625	FRS	DMR	43	462.7000	GMRS	DMR
28	462.6875	FRS	DMR	44	462.7250	GMRS	DMR

(F) CTCSS (Continuous Tone Coded Squelch System) (*NA Models)

1. 67.0	8. 88.5	15. 110.9	22. 141.3	29. 179.9	36. 233.6
2. 71.9	9. 91.5	16. 114.8	23. 146.2	30. 186.2	37. 241.8
3. 74.4	10. 94.8	17. 118.8	24. 151.4	31. 192.8	38. 250.3
4. 77.0	11. 97.4	18. 123.0	25. 156.7	32. 203.5	
5. 79.7	12. 100.0	19. 127.3	26. 162.2	33. 210.7	
6. 82.5	13. 103.5	20. 131.8	27. 167.9	34. 218.1	
7. 85.4	14. 107.2	21. 136.5	28. 173.8	35. 225.7	

(G) DCS (Digital Coded Squelch) (*NA Models)

39. 023	53.114	67.174	81.315	95.445	109. 631
40.025	54.115	68.205	82.331	96.464	110. 632
41.026	55.116	69.223	83.343	97.465	111. 654
42.031	56.125	70.226	84.346	98.466	112. 662
43.032	57.131	71.243	85.351	99.503	113. 664
44.043	58.132	72.244	86.364	100. 506	114. 703
45.047	59.134	73.245	87.365	101. 516	115. 712
46.051	60.143	74.251	88.371	102. 532	116. 723
47.054	61.152	75.261	89.411	103. 546	117. 731
48.065	62.155	76.263	90.412	104. 565	118. 732
49.071	63.156	77.265	91.413	105. 606	119. 734
50.072	64.162	78.271	92.423	106. 612	120. 743
51.073	65.165	79.306	93.431	107. 624	121. 754
52.074	66.172	80.311	94.432	108. 627	

3M™ PELTOR™ WS™ LiteCom Pro III Headset

3M™ PELTOR™ WS™ LiteCom Pro III Headset
MT73H7*4D10EU
MT73H7*4D10EU-50
MT73H7*4D10NA
MT73H7*4D10NA-50

Introduction
Congratulations and thank you for choosing 3M™ PELTOR™ Communication Solutions! Welcome to the next generation of protective communication.

Intended Use
These 3M™ PELTOR™ headsets are intended to provide workers with protection against hazardous noise levels and loud sounds while allowing the user to communicate with built-in two-way radio or Bluetooth®. It is expected that all users read and understand the provided user instructions as well as be familiar with the use of this device.

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 Service (contact information listed on the last page).

INTRINSIC SAFETY
The 3M™ PELTOR™ WS™ LiteCom Pro III Headset, MT73H7*4D10EU-50, MT73H7*4D10NA-50 has been certified to be intrinsically safe for use in potentially explosive atmospheres. The user is responsible for ensuring that the intrinsically safe 3M™ PELTOR™ WS™ LiteCom Pro III Headset and accessories are used in the appropriate atmospheres as defined by the approved area classifications and according to the user instructions. **Failure to do so may result in serious injury or death.** See separate Safety Guide included in the product box for more information.

If there is any risk that the safety or integrity of the unit has been compromised, the unit must be taken out of operation immediately and removed from the potentially explosive atmosphere without delay. Action must be taken to prevent the device from being accidentally placed into operation again. Contact 3M Technical Service for service and repair.

MT73H7*4D10EU-50

Ex	Presafe 16ATEX8960X Certified by DNV Nemko Presafe AS as Intrinsically Safe for Use in Hazardous Locations I M1 Ex ia I Ma -20°C ≤ Ta: ≤ +50°C II 1G Ex ia IIC T4 Ga -20°C ≤ Ta: ≤ +50°C II 1D Ex ia IIIC T130°C Da -20°C ≤Ta:≤+50°C
IEC Ex	IECEx Presafe 16.0086X Certified by DNV Nemko Presafe AS as Intrinsically Safe for Use in Hazardous Locations Ex ia I Ma -20°C ≤ Ta: ≤ +50°C Ex ia IIC T4 Ga -20°C ≤ Ta: ≤ +50°C Ex ia IIIC T130°C Da -20°C ≤ Ta: ≤ +50°C

MT73H7*4D10NA-50

C SP US	CSA 17.70112567 Certified by CSA Group as intrinsically Safe for Use in Hazardous Locations Ex ia IIC T4 Ga, Cl I, Zn 0, -20°C ≤ Ta ≤ 50°C (Canada) AEx ia IIC T4 Ga, Cl I, Zn 0, -20°C ≤ Ta ≤ 50°C (United States) Class I, Division 1, Groups A, B, C & D; Class II, Division 1, Groups E, F & G; Class III, Division 1; Temperature Code T4

⚠ WARNING

To reduce the risk of igniting an explosion which, if not avoided, could result in serious injury or death:
- Ensure that the 3M™ PELTOR™ WS™ LiteCom Pro III Headset and any intrinsically safe accessories are only used and stored in the classified areas consistent with the marked equipment ratings.
- Never connect electronic components or devices to the headset in a potentially explosive atmosphere.
- Only connect to the headset the intrinsically safe 3M™ PELTOR™ Spare Parts and Accessories listed in this User Instructions. SUBSTITUTION OF COMPONENTS MAY IMPAIR INTRINSIC SAFETY.
- Only use the 3M™ PELTOR™ Battery ACK082, 3M™ PELTOR™ Charging Cable AL2AH, and 3M™ PELTOR™ Power Supply FR08 (or equivalent SELV 5V power supply).
- Never change or charge the ACK082 battery in a potentially explosive atmosphere.
- Do not use headset or accessories if they are damaged or malfunctioning in any way.
- Only use 3M™ PELTOR™ Authorized Service Centers for service and repair.

⚠ 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 proper use, see supervisor, User Instructions or call 3M Technical Service. 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.

⚠ WARNING

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

Listening to music or other audio communication may reduce your situational awareness and ability to hear warning signals. Stay alert and adjust the audio volume to the lowest acceptable level. The audibility of warning signals at a specific workplace may be impaired while using the entertainment facility.

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

a. 3M strongly recommends individual fit testing of hearing protectors. If the NRR or SNR is used to estimate typical workplace protection, 3M recommends that the noise reduction value be reduced by 50% or in accordance with applicable regulations.

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.

⚠ WARNING

EN 352 Safety Statements:

- The output of the level-dependent circuit of this hearing protector may exceed the external sound level.
- The fitting of hygiene covers to the cushions may affect the acoustic performance of the earmuffs.
- Performance may deteriorate with battery usage. The typical period of continuous use that can be expected from the earmuff battery is approximately up to 8-13 hours.
- This product may be adversely affected by certain chemical substances. Further information should be sought from the manufacturer.
- The helmet mounted earmuffs are of large size range. Earmuffs complying with EN 352-3 are of medium size range or small size range or large size range. Medium size range earmuffs will fit the majority of wearers. Small size range or large size range earmuffs are designed to fit wearers for whom medium size range earmuffs are not suitable.
- This foldable ear-muff is of large size range. Ear-muffs complying with EN 352-1 are of medium size range or small size range or large size range. Medium size range ear-muffs will fit the majority of wearers. Small size range or large size range ear-muffs are designed to fit wearers for whom medium size range ear-muffs are not suitable.

CAUTION:

- Risk of explosion if battery is replaced by an incorrect type.
- With Lithium ion batteries, there is a risk of fire and burns. Do not open, crush, heat above 50°C (122°F), or incinerate.

NOTE

- When worn according to the 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 very loud 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/hearing.
- This earmuff is provided with level-dependent attenuation. The wearer should check correct operation before use. If distortion or failure is detected, the wearer should refer to the manufacturer's advice for maintenance and replacement of the battery.
- This earmuff is provided with electrical audio input. The wearer should check correct operation before use. If distortion or failure is detected, the wearer should refer to the manufacturer's advice.
- This hearing protector limits the entertainment audio signal

to 82 dBA effective to the ear.
• 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).
• In Canada, users of hard hats combined with earmuffs must refer to CSA Standard Z94.1 on industrial protective headwear.
• When selecting accessories to respiratory personal protective equipment, such as hard hat mounted hearing protection, please consult the NIOSH approval label or consult 3M Technical Service for approved configurations.
• The attenuation ratings (NRR) were obtained with the device powered off.

This 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.

1. APPROVALS

3M Svenska AB hereby declares that this 3M™ PELTOR™ Headset is in compliance with the essential requirements and other provisions set out in the appropriate directives. Thereby they fulfil the requirements for CE marking.

Hereby, 3M Svenska AB declares that the radio equipment type two-way radio is in compliance with Directive 2014/53/EU.

The full text of the EU declaration of conformity is available at the following internet address: http://www.3M.com/PELTOR/doc

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.

Additional information can be obtained by contacting 3M in the country of purchase or 3M Svenska AB Värnamo. For contact information, see last pages of this user instruction. Upon request, type in your part number. The part number of your earmuffs can be found on the label of one cup as seen in the picture below.

Notified Body Statement of Opinion offered by:
FIOH, Finnish Institute of Occupational Health, Topeliuksenkatu 41 a A, FI-00250, Helsinki, Finland. Notified body #0403.

2. LABORATORY ATTENUATION

⚠ **WARNING!** 3M strongly recommends individual fit testing of hearing protectors. If the NRR or SNR is used to estimate typical workplace protection, 3M recommends that the noise reduction value be reduced by 50% or in accordance with applicable regulations.

The attenuation rating (SNR/NRR) was obtained with the device powered off.

Explanation of attenuation tables:

A. EN 352-1/ EN 352-3/ EN 352-4

A:1 Frequency (Hz)
A:2 Mean attenuation (dB)
A:3 Standard deviation (dB)
A:4 Assumed protection value, APV (dB)
A:5
H = Hearing protection estimation for high frequency sounds ($f \geq 2000$Hz).
M = Hearing protection estimation for medium frequency sounds ($500\text{Hz} < f < 2000\text{Hz}$).
L = Hearing protection estimation for low frequency sounds ($f \leq 500$Hz).
A:6 Criterion Level
H = Criterion level for high-frequency noise
M = Criterion level for medium-frequency noise
L = Criterion level for low-frequency noise
*Criterion Levels chart is for level-dependent headsets, EN 352-4:2001/ A1:2005

B. USA Standard ANSI S3.19-1974

B:1 Frequency (Hz)
B:2 Mean Attenuation (dB)
B:3 Standard Deviation (dB)
B:4 Tested with 3M™ PELTOR™ Hard Hat Model H-700
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 dBA.
2. The NRR is 25 decibels (dB).
3. The level of noise entering the ear is approximately equal to 67 dB(A).
CAUTION: For noise environments dominated by frequencies below 500 Hz the C-weighted environmental noise level should be used.

C. Compatible Industrial Safety Helmets EN 352-3

These earmuffs should be fitted to, and used only with, the industrial safety helmets listed in Table C. These earmuffs were tested in combination with the following industrial safety helmets, and may give different levels of protection if fitted to different helmets.

Explanation of the industrial safety helmet attachment table:
C:1 Helmet manufacturer
C:2 Helmet model

C:3 Helmet attachment
C:4 Head size: S = small, M = medium, L = large

For more information about 3M™ Safety Helmets, visit www.3M.com

D. Explaination of the electrical audio input level table EN 352-6
D:1 Input signal level U (mV, RMS)
D:2 Mean sound pressure level (dB(A))
D:3 STD Sound Pressure (dB(A))
D:4 Input signal level for which the mean plus one standard deviation equals 82 dB(A)

E. Factory programmed radio frequencies explanation
The North American WS™ LiteCom Pro III Headset (*NA Models) comes factory programmed with the frequencies listed in table E. However, the headset is fully programmable between the frequency range of 403-470MHz using either analog or DMR modulation. To change the programmed frequencies, contact 3M Technical Service or an authorized PELTOR dealer.

NOTE: The Federal Communications Commission (FCC) requires the operators of the General Mobile Radio Service (GMRS) frequencies to obtain a license prior to use (Title 47 CFR Part 90 and Part 95). If any other frequencies are programmed into the headset, both the FCC and Industry Canada (IC) require the operators to obtain a license prior to use. Contact the FCC or IC for license application forms, filing instructions, and frequency availability in your area of use.

3. COMPONENTS

Headband MT73H7A4D10EU
F:1 Headband (PVC, PA)
F:2 Headband wire (stainless steel)
F:3 Two-point fastener (POM)
F:4 Cushion (PVC foil and PUR foam)
F:5 Foam liner (PUR foam)
F:6 Cup (ABS)
F:7 Environmental microphone (PUR foam)
F:8 Speech microphone (ABS)
F:9 Antenna (PE, ABS, TPE)
F:10 Auxiliary Port (brass)
F:11 Li-ion battery (PC, ABS)
F:13 On/Off/Mode button (silicone)
F:14 + button (silicone)
F:15 – button (silicone)
F:16 PTT button for built-in two-way radio (PBT)
F:17 Bluetooth® button (PBT)

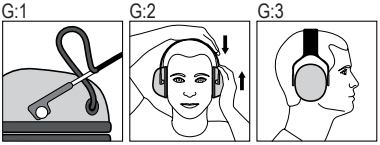
Headband MT73H7F4D10EU-50
F:18 Headband (TPE)
F:19 Headband wire (stainless steel)

Helmet attachment/Hardhat MT73H7P3E4D10EU*
F:20 Cup supporting arm (stainless steel)

Neckband MT73H7B4D10EU*
F:21 Neckband wire (stainless steel)
F:22 Neckband cover (PO)

FITTING INSTRUCTIONS

Headband

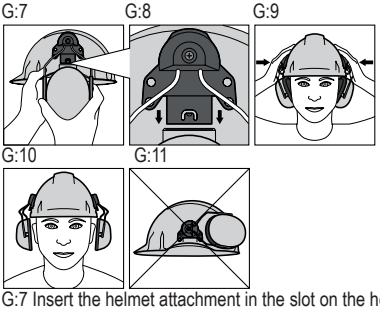


G:1 Slide out the cups and tilt the top of the cup out, as the cable must be on the outside of the headband.
G:2 Adjust the height of the cups by sliding them up or down while holding the headband in place.
G:3 The headband should be positioned across the top of your head.

Neckband

G:4 Place the cups in position over the ears.
G:5 Keep the cups in position, place the head strap on top of your head and lock it tight in position.
G:6 The head strap should be positioned across the top of your head.

Helmet Attachment



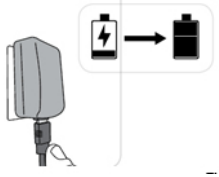
G:7 Insert the helmet attachment in the slot on the helmet and snap it into place (G:8).
G:9 Work mode. To switch the unit from ventilation mode to work mode, press the headband wires inwards until you hear a click on both sides. Make sure that the cups and the headband wires do not press on the edge of the helmet when work mode as this can cause noise leakage.
G:10 Ventilation mode. Avoid placing the cups against the helmet (G:11) as this prevents ventilation.

4. OPERATING INSTRUCTIONS

4.1 Programming the Headset

Your headset comes pre-programmed with a specific configuration. Please contact your certified two-way radio dealer or 3M Technical Service for any questions regarding the headset configuration, including:
• Radio frequencies/channels
• Voice guide language
• Menu configuration
• Power management settings
• Two-way radio transmission settings

4.2 Charging/Replacing the batteries



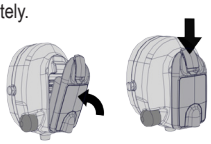
WARNING: For intrinsically safe models, only use the 3M™ PELTOR™ Battery ACK082, 3M™ PELTOR™ Charging Cable AL2AH, and 3M™ PELTOR™ Power Supply FR08 (or equivalent SELV 5V power supply).

For non intrinsically safe, use only 3M™ PELTOR™ ACK081 charged with cable 3M™ PELTOR™ AL2AI connected to a 3M™ PELTOR™ FR08.

⚠ WARNING: The battery may not be charged if the ambient temperature exceeds 45˚C or 113˚F.

⚠ Never change or charge the ACK082 battery in a potentially explosive atmosphere.

⚠ The battery can be charged in a powered off Headset, or separately.



Insert the rechargeable battery in the battery compartment. Push down the latch.

The headset will automatically power off 2 hours (default value) after the last button press or VOX activation.

4.3 Power On/Off
Press and hold the On/Off/Mode button for two seconds until a voice message is heard to power the headset on or off.

4.4 Adjusting the volume level
Use the [+] and [–] buttons to adjust the volume. By default, the [+] and [–] buttons will control the volume of the active sound source, which could be any one of the following: Two-way radio, Bluetooth® communication, or Surround sound. When receiving a two-way radio signal, the [+] and [–] buttons will control the two-way radio volume. If connected to a Bluetooth® device, [+] and [–] buttons will control the Bluetooth® audio playback. Otherwise, the [+] and [–] buttons will control surround volume level. The respective volume levels can also be adjusted in the Menu.

4.5 Menu
To enter the menu, make a short press on the On/Off/Mode button. Use the on/off/mode button to navigate through the menu and the [+] and [–] buttons to adjust the respective setting.

These are the options available in the menu:
• **Channel**
Lists all the programmed channels in the headset, up to 70.
• **Radio volume**
Adjusts the volume level of the incoming radio sound. (OFF, 1 – 5)
• **Surround volume**
The surround, or level-dependent, feature uses external microphones to sense the surrounding environmental noise level. At noise levels above 82 dB, the level-dependent technology will limit environmental sound reproduction within the headset to a maximum of 82 dB. (OFF, 1 – 5)
• **Bluetooth® radio volume**
Adjusts the volume level of a Bluetooth® connected communication radio, 1 – 5.
• **Bluetooth® pairing**
Press plus button to set the headset in pairing mode. Press down button to exit pairing mode.
• **Battery status**
Battery status is measured and the result is played to the user. Press plus button to repeat the information.
• **Language**
Adjusts the ghost voice language between all installed languages.
• **Sub channel/ Color code (if activated)**
Sets the subchannel of an analog channel according to lists (F) and (G) if it is enabled, 0 – 121. Sets the color code of an digital channel, 0 – 15.
• **Output power (if activated)**
The Power feature controls the power level of the radio transmitter. There are three output power levels; low, medium, and high. The low setting will reduce the communication range but will increase the battery life.
• **Reset**
Press plus button for 2 seconds to reset the headset to its default state.

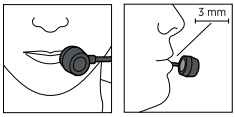
SMART TIP: When browsing long lists such as channel and sub channel, press and hold either the [+] or [–] button to skip ten items at the time.

SMART TIP: The headset will automatically exit the menu after 10 seconds. Or, simultaneously press and hold the [+] and [–] buttons for two seconds. A beep will confirm the menu has been exited.

4.6 Two-Way Radio Communication
Select the appropriate two-way radio channel using the menu. To transmit a two-way radio message, press and hold the Push-To-Talk (PTT) button. If VOX is activated, speak into the microphone to transmit.

SMART TIP: Your dealer can set the time for maximum transmission time.

SMART TIP: Double press on the PTT button to activate or deactivate VOX.



To maintain noise cancelling performance, the speech microphone should be positioned very close to your mouth (less than 3 mm or 1/8 inch).

4.7 Bluetooth® Wireless Communication
4.7.1 Pairing a Bluetooth® device
When the headset is powered on, press and hold the BT button on the left cup for two seconds to enter pairing mode when no device is paired. A voice message will confirm "Bluetooth® pairing on".

Make sure that Bluetooth® is activated on your Bluetooth® device. Scan for devices and select "WS LiteCom Pro III Headset". A voice message will confirm when the pairing is complete "Pairing complete".

The headset can be paired to 2 Bluetooth® devices, and can be connected to two devices at the same time

NOTE: By default, the radio VOX functionality is disabled when taking a phone call via a Bluetooth® connection. Once the call has ended VOX is automatically back on. To transmit on the two-way radio during phone call, press the PTT button. If the PTT button is pressed during a phone call, your voice will only transmit through the two-way radio and not to the phone call. To activate VOX during a phone call, double press the PTT button. Your voice will then be transmitted to both the two-way radio and the phone call.

4.7.2 Operating your Bluetooth® device via the Headset

NOTE: The latest paired Bluetooth® device is the one you operate via the Headset.

Bluetooth® Scenario	Action (BT button on the left cup)	Feature
If Bluetooth® device is connected but no activity	Long press	Voice dial
If Bluetooth® device is connected and receiving an incoming call	Short press	Answer call
	Long press	Reject call
If Bluetooth® device is connected, and has an ongoing call	Short press	Hang up

SMART TIP: You can also stream music from your Bluetooth® device.

If Bluetooth® device is connected, and streaming is ongoing	Short press	Play/Pause
	Double short press	Next track
	Triple short press	Previous track
	Long press	Voice dial

4.8 Communicate via connected external radio
Connect your external communication radio via the auxiliary port (cable not included). To transmit, use the PTT button on the radio or external PTT adapter.

4.9 Communicate face to face (push-to-listen)
The surround microphones can be activated from off or low state with a double press on On/Off/Mode button.
Press any other button to deactivate push-to-listen.

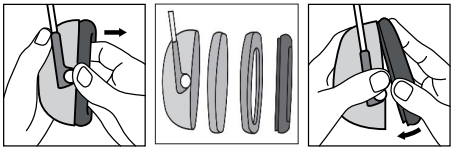
5. CLEANING AND MAINTENANCE
Use a cloth wetted with soap and warm water to clean the cups, headband and cushions.

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 cushions and foam liners, and allow to dry before reassembly. See Spare Parts Section below. Keep the earmuffs clean and dry and store recommended storage temperature in a clean uncontaminated area before and after use.

• Operating temperature range: -20°C to 50°C (122°F)
• Storage temperature range: -20°C to 50°C (122°F)

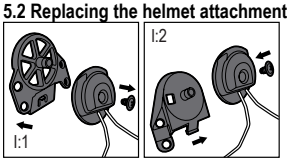
5.1 Removing and replacing cushions

H:1 H:2 H:3



H:1 To remove the cushion, slide your fingers under the edge of the cushion and firmly pull straight out.
H:2 To replace, insert the foam liners.
H:3 Then, fit one side of the cushion into the groove of the cup and then press on the opposite side until cushion snaps in place.

5.2 Replacing the helmet attachment plate



For proper fitting on different industrial safety helmets, the helmet attachment plate may need to be replaced. Find the recommended attachment in Table B. The headset comes assembled with P3E helmet attachment, while other plates can be obtained from your dealer. A screwdriver is needed to replace the helmet attachment plate.

I:1 Loosen the screw holding the plate and remove the plate.
I:2 Attach the appropriate plate while ensuring the left (L) and right (R) designated plates are on the appropriate earmuff, if applicable, and then tighten the screw.

6. SPARE PARTS AND ACCESSORIES

3M™ PELTOR™ HY83 Hygiene kit
Replaceable hygiene kit consisting of two sets of foam liners and two snap-in ear cushions. Replace at least twice a year to ensure constant attenuation, hygiene and comfort.

3M™ PELTOR™ HY100A Clean – single-use protectors
Single-use protector for the ear cushions. Package of 100 pairs.

3M™ PELTOR™ HYM1000 Mic Protector
Moisture and wind-tight tape. Protects the speech microphone. Package of 5 meters for about 50 replacements.

3M™ PELTOR™ M171/2 Wind shield for MT73 speech microphones
Wind noise protector for MT73-type speech microphones. Two per package.

3M™ PELTOR™ M60/2 Wind shield for ambient microphones
Wind noise protector for ambient sound microphones. One pair per package.

3M™ PELTOR™ MT73 Dynamic microphone
Microphone boom with dynamic differential microphone

Intrinsically Safe Spare Parts

3M™ PELTOR™ ACK082 Rechargeable Li-Ion batterypack (only for WS™ LiteCom Pro III Headset Ex)

3M™ PELTOR™ AL2AH Battery charging cable for ACK082

3M™ PELTOR™ FR08 Power Supply

3M™ PELTOR™ FL5602-50 External PTT for WS™ LiteCom Pro III Headset, ATEX
Push-To-Talk button with connection cable for external control of transmission with the radio in the 3M™ PELTOR™ WS™ LiteCom Pro III Headset.

3M™ PELTOR™ MT90-02 Throat microphone

Non Intrinsically Safe Spare Parts

3M™ PELTOR™ ACK081 Battery

3M™ PELTOR™ AL2AI Battery charging cable for ACK081

3M™ PELTOR™ FR08 Power Supply

3M™ PELTOR™ FL5602 External PTT for WS™ LiteCom Pro III Headset
Push-To-Talk button with connection cable for external control of transmission with the radio in the 3M™ PELTOR™ WS™ LiteCom Pro III Headset.

3M™ PELTOR™ FL6CS Connecting cable
With 2.5 mm stereo connector for use with DECT and mobile telephones.

3M™ PELTOR™ FL6BT Connecting cable
With 3.5 mm mono connector for use with a communication radio.

3M™ PELTOR™ FL6BR Connecting cable
With PELTOR™ J11 connector (type Nexus TP-120) for use with a PELTOR™ adapter and an external communication radio. Contact your Authorised 3M™ PELTOR™ LiteCom Pro III Headset dealer for information.

3M™ PELTOR™ MT90-02 Throat microphone

FCC AND IC INFORMATION

This device complies with Part 15 of the FCC rules and Industry Canada's 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 undesirable 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 reasonable 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 Service.

CAN ICES-3 (B)/NMB-3(B)

WARRANTY AND LIMITATION OF LIABILITY

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 OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE OR OTHER WARRANTY 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.

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.

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.

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.

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