

Peltor Lite-Com Pro II Product Range

MT7H7F4010-EU-50 with headband
 MT7H7B4010-EU-50 with neckband
 MT7H7P3E4010-EU-50 with helmet attachment for Peltor G22 and G3000 hardhats.
 (A rear plate is also included for helmet attachments for the Peltor G2000 hardhat.)

Technical Data

Frequency range: FCC:462.5625MHz~467.7125MHz, CE:PMR 406.1 - 430,440 - 470MHz,LPD:433.05 - 434.79 MHz(Note:LPD only used in Europe)
 Operation mode: Simplex
 Channels: Max. 30

Channel raster:
 Channel separation: FCC/IC: 12.5 kHz CE: 12.5 kHz/ 25 kHz
 Modulation: FCC/IC: 2.5 kHz CE: 2.5 kHz/ 5kHz (FM)
 FM (16K0F3E / 8K50F3E)

Microphone type: Electret (MT53) or dynamic (MT7)
 Receiver sensibility: Typical -122 dBm
 Selective squelch: Programmable (and supports CTCSS and DCS)
 Output power: 200 / 20 / 10 mW ERP
 Range: Outdoors up to 3 km depending on conditions
 Power consumption: Stand-by: ca 55 mA
 Receiving: ca 65 mA

Transmission:
 Low power: ca 100 mA
 Medium power: ca 115 mA
 High power: ca 200 mA

Operating time at conditions
 10/10/80 TX/RX/Standby at 20°C:
 Hi output power: ca 14 hours
 Mid output power: ca 16 hours
 Low output power: ca 17 hours

Operating temperature: -20°C to +55°C
 Storage temperature: -40°C to +55°C

Weights including ACK08 battery:
 MT7H7F4010-**50: 540 g
 MT7H7B4010-**50: 500 g
 MT7H7P3E4010-**50: 540 g

ACK08 technical information

Charging time: approx. 10-12 hours (no visible charging indicators for ACK08)
 Capacity: 3,7 V, 1350 mA, 5 Wh
 Charging cable: AL2AH (fused 200mA)

After charging cycle is finished charger automatically turns into maintenance charging mode.
 ACK08 must be charged with AL2AH connected to a certified 5V SELV power supply such as 3M, Peltor battery charger FR08. Power supply must be able to deliver a minimum of 200 mA.



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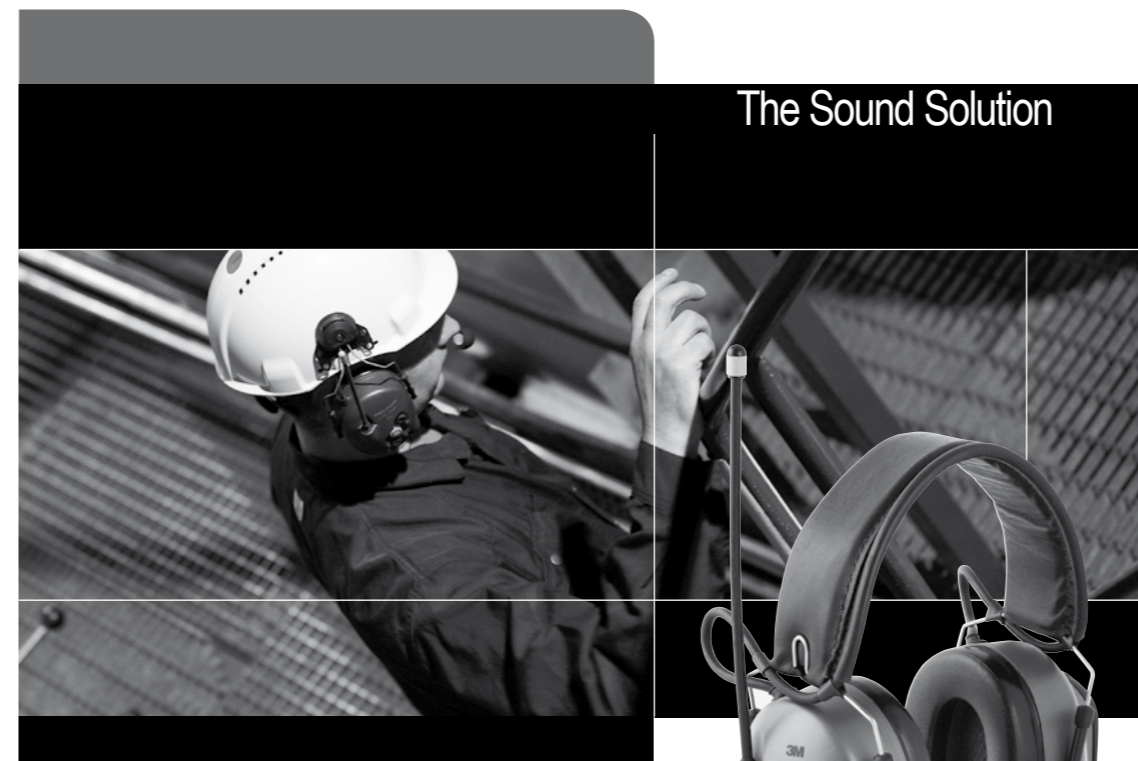
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Peltor™ Lite-Com™ Pro II



11003072169 FP3694 Rev. a

The Sound Solution

MT7H7F4010-EU-50

MT7H7B4010-EU-50

MT7H7P3E4010-EU-50

403 – 470 MHz



PELTOR™

Quick reference guide

Key	Function
MODE	Switches the Lite-Com Pro II on and off. Choose between the functions in the menu.
UP (+)	Increases the level of the selected function.
DOWN (-)	Decreases the level of the selected function.
PTT	Transmits with the Lite-Com Pro II.

E)

Attenuation (with head band)

Frequency (Hz)	125	250	500	1000	2000	4000	8000
Mean attenuation (dB)	14.7	23.4	30.7	34.6	34.5	36.9	37.3
St. dev. (dB)	3.9	4.6	3.2	3.4	3.1	2.7	4.2
APValue (84%)	10.8	18.8	27.4	31.2	31.4	34.2	33.1

H	M	L	SNR
33 dB	27 dB	19 dB	30 dB

Attenuation (with neck band)

Frequency (Hz)	125	250	500	1000	2000	4000	8000
Mean attenuation (dB)	15.5	23.3	31.2	35.6	35.0	36.5	40.9
St. dev. (dB)	2.6	2.3	2.0	3.2	3.4	3.4	3.3
APValue (84%)	13.0	21.0	29.2	32.4	31.6	33.2	37.6

H	M	L	SNR
33 dB	29 dB	21 dB	31 dB

Attenuation (with helmet attachment)

Frequency (Hz)	125	250	500	1000	2000	4000	8000
Mean attenuation (dB)	16.2	22.9	31.7	35.6	34.5	37.7	40.0
St. dev. (dB)	3.2	2.2	2.0	2.9	3.0	3.9	3.3
APValue (84%)	13.0	20.7	29.7	32.7	31.5	33.8	36.8

H	M	L	SNR
33 dB	29 dB	21 dB	31 dB

Mean attenuation (dB) = Average attenuating characteristics at given frequency

St. dev. (dB) = Standard deviation at given frequency

APV (dB) = Assumed Protection Value. Average attenuating characteristics minus standard deviation at given frequency.

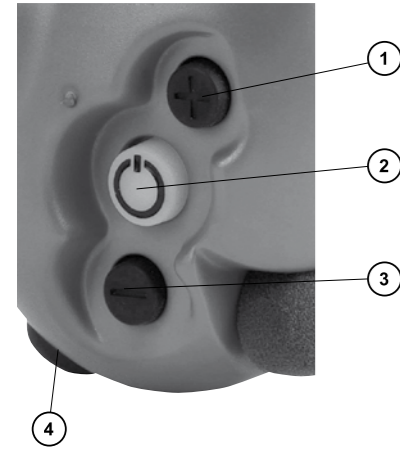
H = Average attenuation characteristics in the higher frequency spectrum

M = Average attenuation characteristics in the mid range frequency spectrum

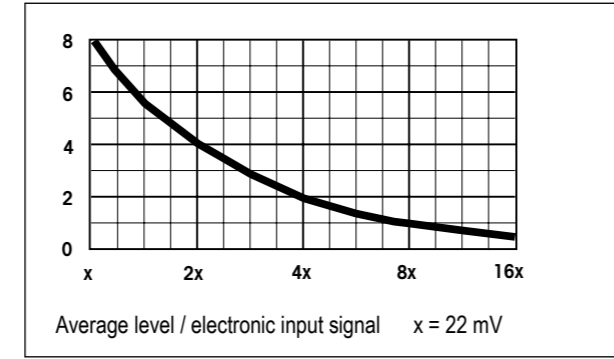
L = Average attenuation characteristics in the higher frequency spectrum

SNR = Single Number Rating

(Fig. A)



D:1)



(Fig. H)



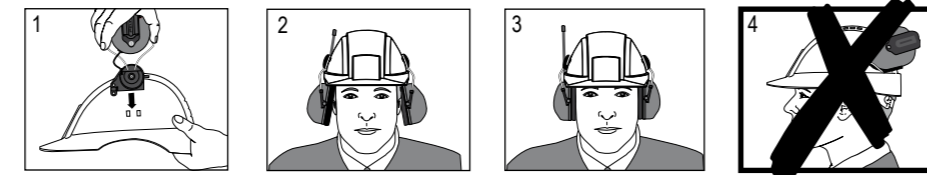
D:2) Auxiliary connection

RMS Voltage U (mV)	Mean sound Pressure (dBA)	STD sound Pressure (dBA)
3	63.4	3.0
5	67.4	3.3
8	71.2	3.1
14	75.5	3.1
25	80.2	3.1
40	84.0	2.7

(J)



(K)



Squelch Tones and Codes

CTCSS (Continuous Tone Coded Squelch System)

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		

DCS (Digitally Coded Squelch)

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.	356	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™ Lite-Com™ Pro II

GB, IE, ZA, AE, AU, NZ	2-11
FR, CH, BE	
DE, CH, AT	
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Appendix A	
Declaration of Conformity	
ATEX Certificate	
IECEX Certificate	

PELTOR Lite-Com Pro II

Programmable wireless communication headset with surround sound listening feature.

The Peltor Lite-Com Pro II offers reliable, efficient wireless communication between two or more individuals, even in noisy environments.

The product is intrinsically safe and approved for use in potentially explosive environments (I.S. approved.)

Read these instructions carefully before use and save for future reference.

FUNCTIONAL PROPERTIES

- The highest power setting gives a range of up to approximately 3 km outdoors. Low power setting gives a range of up to approximately 1 km.
- Programmable CTCSS & DCS tone signaling, allowing multiple users to use the same channel without interfering with each other.
- Operating time up to approximately 17 hours, depending on mode of use.
- Low battery alarm.
- Automatic shut-off.
- Chosen settings are verified with a voice message.
- The last setting is stored when the unit is switched off.
- Programmable

Customisation of the functions in this product should be made by an "Authorised Peltor Lite-Com Pro II Dealer".

See www.peltorcomms.3m.com/dealer on the Internet!

KEY FEATURES (Fig. H)

1. **Extra wide headband** (MT7H7F4010-EU-50) with leather band padding for greater comfort throughout the working day.
2. **Specially designed helmet attachments** (MT7H7P3E4010-EU-50) with slots for attaching visor and rain shield.
3. **Individually sprung stainless steel headband wires** provide an even distribution of pressure around the ears. Steel headband wires maintain their resilience better than plastic headbands through a wide range of temperatures.
4. **Low profile two-point fasteners** allow easy height adjustment.
5. **Soft, wide foam/fluid-filled ear cushions** with built-in pressure-relief channels for low pressure, and individual comfort.
6. **Flexible antenna** with low attachment and high receptivity.
7. **External port** for connecting external equipment, such as another communication radio, a mobile telephone etc.
8. **Batteries.** The Lite-Com Pro II is supplied with Peltor ACK08 Li-Ion battery and appropriate Power supply.
9. **Noise cancelling speech microphone** for high speech recognition.
9. **Keypad** for easy adjustment and setting.

FUNCTIONAL BUTTONS (Fig. A)

1. **UP (+)** Increases the level of the selected function.
2. **ON/OFF/MODE (O)** Switches the Lite-Com Pro II on and off, and allows you to choose between functions in the menu.
3. **DOWN (-)** Decreases the level of the selected function.
4. **PTT** Push To Talk function for the Lite-Com Pro II radio.



FCC:462.5625MHz-467.7125MHz, CE:PMR 406.1 - 430,440 - 470MHz,LPD:433.05 - 434.79 MHz

The user is responsible for obtaining any necessary licences for using the communication radio in the Lite-Com Pro II!



I M1 Ex ia I Ma
II 2G Ex ia IIC T4 Ga
II 2D Ex ia IIIC T125 C Da

The user is responsible for ensuring that the Lite-Com Pro II is used according to the applicable regulations in explosive environments!

INSTRUCTIONS FOR USE/SETTINGS

ON/OFF/MODE

Switch the Lite-Com Pro II on and off by pressing and holding the **ON/OFF/MODE** button for approximately two seconds. A voice message confirms that the unit has been switched on or off. A slowly flashing LED on the button shows that the Lite-Com Pro II is switched on. When the unit is transmitting or receiving, the LED flashes faster.

Press **ON/OFF/MODE (⊖)** briefly to move through the menu. Press the button slowly, one step at a time, to confirm each step in a voice message. If you press the button faster, you will only receive voice confirmation of the function where you stop.

Current settings are stored when the unit is switched off.

SURROUND (ambient sound level)

When the Lite-Com Pro II is used as an "active hearing protector", the amplification of ambient sound is adjusted by pressing the **UP (+)** and **DOWN (-)** buttons. The change is confirmed with a voice message. There are normally 5 sound levels and an off mode. On level 5 the maximum sound pressure is reduced to approximately 82 dB, which allows a maximum exposure time of 8 hours to protect damaging your hearing.

Amplification of ambient sound can also be switched off by reducing the volume to its lowest position using the **DOWN (-)** button and holding the button for about two seconds. A voice message "surround off" confirms that the function has been switched off.

WARNING! When this function is switched off the ambient sound may become inaudible by the hearing protector! To re-activate the function, press **UP (+)** and the Lite-Com Pro II again works as an "active hearing protector" that limits the sound level.

Note: With special software there is a possibility to further increase the amplification of the ambient sound. Two more sound levels can be added, where level 6 is approximately 87 dB and level 7 is approximately 89 dB.

WARNING! The exposure time should be reduced accordingly to protect damaging your hearing!

VOLUME

Use the **UP (+)** and **DOWN (-)** buttons to set the incoming volume from the built-in communication radio. A voice message confirms the new setting each time you press the button. There are normally 5 volume steps and an off mode. To access off mode, press and hold the **DOWN (-)** button for two seconds when at the lowest volume. A voice message confirms "volume off".

WARNING! No radio communication is audible in the off mode.

To switch the radio back on, press the **UP (+)** button. You start receiving at the lowest volume level.

Note: With special software there is a possibility to further increase the amplification of the volume. Two more sound levels can be added, where level 6 is approximately 87 dB and level 7 is approximately 89 dB.

WARNING! The exposure time should be reduced accordingly to protect damaging your hearing!

CHANNEL

Use the **UP (+)** and **DOWN (-)** buttons to select a channel (radio frequency) for the communication radio. A voice message confirms the new setting each time you press the button.

VOX (Voice-operated transmission)

"VOX" means that the Lite-Com radio transmits when sounds of a certain volume reach the microphone – hands-free transmission.

Use the **UP (+)** and **DOWN (-)** buttons to set the sensitivity for voice-operated transmission. A voice message confirms the new setting each time you press the button. There are five VOX levels and an off mode. To access off mode, press and hold the **DOWN (-)** button for two seconds. A voice message confirms "volume off". If you want to transmit, you must use the PTT button. To switch VOX on again, press the **UP (+)** button.

NOTICE! For maximum noise cancelling, the speech microphone of the headset should be positioned very close to your mouth (3 - 5 mm)!

The use of a wind shield is also recommended (see "ACCESSORIES AND SPARE PARTS" below).

SQUELCH (hiss reduction)

"Squelch" means that the background hiss in the earphones is prevented when the incoming signal is below a set level. When someone speaks, the amplification returns instantly to the selected level.

Use the **UP (+)** and **DOWN (-)** buttons to set the squelch level. A voice message confirms the new setting each time you press the button. There are five squelch levels and an off mode. Level 1 is most sensitive and opens the receiver at the lowest incoming signal. To access off mode, press and hold the **DOWN (-)** button for two seconds in volume step one. A voice message confirms "squelch off". To switch squelch on again, press the **UP (+)** button.

SELECTIVE SQUELCH (Sub tones)

"Selective squelch" means that a certain tone or code must be transmitted along with the speech in order to "open" the receiver. This allows multiple groups of users to use the same channel without listening to the other groups.

Notice! Any other radio communication, which does not include the selected tone or code, will be blocked by the filter!

Use the **UP (+)** and **DOWN (-)** buttons to set the programmed sub-tone. A voice message confirms the new setting each time you press the button. If the function is switched to OFF, all communication on the channel can be monitored.

When BCLO or BTLO (busy channel or tone lockout) is enabled, VOX operation is not possible if the channel is already in use. A warning tone may be heard in the speaker, when BCLO or BTLO is active (This function can be disabled). This prevents unwanted interference with other muted communication on the actual channel.

POWER (output)

There are three output power levels: High, medium and low. Use the **UP (+)** and **DOWN (-)** buttons to select the output power level. A voice message confirms the new setting each time you press the button. Medium power is recommend, where possible.

NOTICE: The operating time depends to a great extent on the condition of the ACK08 and how the Lite-Com Pro II is used.

PTT (Push-to-talk)

Press PTT to transmit manually using the Lite-Com Pro II radio.

Notes:

1. Switch voice control (VOX) on and off by pressing the button briefly twice. A voice message, "VOX on" or "VOX off" confirms the setting.
2. The Lite-Com Pro II has BCLO and BTLO (busy channel and busy tone lockout) to block transmissions on busy channels. See above "Selective squelch".

ASSEMBLY / CONFIGURATION

BATTERIES

Notice! When using the Lite-Com Pro II in environments with a risk for explosions, 3M Peltor ACK08 must be used! Never change or charge ACK08 in an explosive environment!

Only the 3M Peltor ACK08 batteries are currently approved for use with the Peltor Lite-Com Pro II in explosive environments:

The Peltor **ACK08** Li-Ion rechargeable battery should be charged with a Peltor **FR08 / AL2AH** only. One unit of each is included with the product. Never change or charge ACK08 in an explosive environment!

ASSEMBLY

Headband (Fig. J)

1. Slide the cups out and place the headset over your ears so that the ear cushions fit snugly.
2. Adjust the height of the cups to a snug, comfortable fit by sliding the cup up or down while pressing the headband down.
3. The headband should lie across the top of the head.

Helmet attachment (Fig. K)

Snap the helmet attachment into the slot on the helmet (1).

The cups can be set in two positions: Ventilation position (2) or working position (3).

When in use, the cups must be placed in working position!

Press the headband wires inwards until you hear a click on both sides and ensure that the shell or the headband wires do not press against the lining or edge of the helmet, which could cause noise leakage.

Notice! Never place ear muffs with humid foam on the helmet / hardhat! (4)

Notice!

100% use of a proper hearing protector is the only sure protection from hearing loss.

In environments with more than 82 dB A-weighted noise level, you need to protect your hearing. The hearing receptors in your inner-ears may be irreparably damaged if you lift a cup of your hearing protectors for even a very short moment in a noisy environment. The use of a comfortable hearing protector, designed for the specific noise level in which it is used, is the best guarantee to that you will wear the hearing protector 100% of the time for to protect from permanent hearing loss. For best protection, brush aside excess hair around your ears so the cushions fit snugly to your head. Any temples/bands of spectacles or goggles should be as thin as possible to make the hearing protector fit close to the head.

MAINTENANCE

Clean the outside of the headset regularly with mild detergent and warm water.

Notice! Do not immerse in water or fluids.

After prolonged hours of use, or other situations in which the Lite-Com Pro II attracts moisture inside the cups, remove the cushions and inserts to allow the hearing protector to dry before next use.

Do not store the headset in temperatures exceeding +55°C, for example on a dashboard or windowsill.

The headset (especially the ear cushions) can wear out over time. Inspect regularly for signs of any physical damage and replace if necessary.

Certain chemical substances may be harmful to this product. Contact 3M for more information.

When the low battery warning alarm sounds, it is time to replace the batteries. The unit switches off automatically after a few minutes.

Never replace or install batteries with the unit switched on. Before switching on, make sure that the batteries are inserted correctly.

As with any hearing protector incorrect use or failure to the instructions supplied with this product could result in permanent disability due to exposure to noise.

APPROVALS

MT7H7F4010-EU-50

Head Band Version

MT7H7B4010-EU-50

Neck Band Version

MT7H7P3E4010-EU-50

Version with attachment for use with hardhat

All models are identical, except for the band differences and the hardhat mounting.

Peltor Lite-Com Pro II headsets are ATEX and IECEx certified and approved by Nemko for use in hazardous locations.

CSA AND FM CERTIFICATION AND LISTINGS:



I M1 Ex ia I

II 2G Ex ia IIC T4

II 2D Ex ia IIIC T125°C

APPLICABLE STANDARDS:

CE

The Peltor Lite-Com Pro II is tested and approved as a hearing protector according to PPE directive 89/686/EEC and applicable parts of the European EN 352-1:2002, EN 352-3:2002, EN 352-4:2001 and EN 352-6:2002 standards. Certified by FIOH, Topeliuksenkatu 41, FI-00250 Helsinki, Finland ID#0403.

Measurements for products with a helmet attachment were performed on Peltor's G22C hardhat.

The Lite-Com Pro II is also tested and approved according to the following standards:

Radio: ETSI EN 300,296-2, ETSI EN 300,296-1

EMC: ETSI EN 301,489-5, ETSI EN 301,489-1

The electrical measurements were performed by SP, the Swedish National Testing and Research Institute, Box 857, S-501 15 Borås, Sweden, ID# 0402.

WARNING:

Substitution of components may impair intrinsic safety.

Equipment with broken or otherwise damaged enclosure shall not be operated in the hazardous locations.

Use only 3M Peltor ACK08 battery!

Change batteries only in locations known to be non hazardous!

ACCESSORIES AND SPARE PARTS

Contact your Authorised Peltor Lite-Com Pro II dealer!

Notice! When using and repairing I.S. -approved equipment, all instructions and regulations must be followed to the letter!

HY79 Hygiene kit

Easy to replace hygiene kit consisting of two foam pads, two foam rings and snap-in ear cushions. Replace at least twice a year to ensure constant attenuation, hygiene and comfort!

HY100A Clean – single-use protectors

A single-use protector that is easy to apply to the ear cushions. Package of 100 pairs.

HYM1000 Mike Protector

Moisture and wind-tight and hygienic tape. Protects the speech microphone and enhances its life span. Package of 5 metres for about 50 replacements. (One metre sample is included on delivery.)

M995 Wind shield for MT53-type speech microphones

Effective protection from wind noise. Enhances the life span and protects the speech microphone. One per package.

M40/1 Wind shield for MT7-type speech microphones

Effective protection from wind noise. Enhances the life span and protects the speech microphone. One per package.

M60/2 Wind shield for ambient microphones

Effective protection from wind noise. One pair per package.

MT90-02 Throat microphone

Dynamic laryngophone for use with Lite-Com Pro II.

MT90-06 Throat microphone

Electret laryngophone for use with Lite-Com Pro II.

Notice! The following accessories can be used, but **MUST NOT** be connected or disconnected, in a potentially explosive environment!

MT53N-12 Electret microphone

Microphone boom with electret differential microphone.

NOTICE: Use of other type of microphone than the original model requires re-programming of the Lite-Com radio. Contact your Authorised Peltor Lite-Com Pro II dealer for information!

MT7N-02 Dynamic microphone

Microphone boom with dynamic differential microphone

NOTICE: Use of other type of microphone than the original model requires re-programming of the Lite-Com radio. Contact your Authorised Peltor Lite-Com Pro II dealer for information!

FL5602-50 External PTT,

ATEX approved Push-To-Talk button with connection cable for external control of transmission with the radio in the Lite-Com Pro II.

ACK08 Battery

Li-Ion battery. Intrinsically safe approved for use with Peltor Lite-Com Pro II. (One unit is included on delivery.)

Notice! Special regulations apply for replacement and charging!

Notice! The following accessories **MUST NOT BE USED** in a potentially explosive environment!

FR08 Power supply

Power supply for the Peltor ACK08 battery.
(One unit is included on delivery.)

AL2AH Battery charge cable

Cable for use when charging battery ACK08.
(One unit is included on delivery.)

FL6CS Connecting cable

With 2.5 mm stereo connector for use with DECT and mobile telephones.

FL6BT Connecting cable

With 3.5 mm mono connector for use with a communication radio.

FL6BS Connecting cable

With 2.5 mm mono connector for use with a communication radio.

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 Peltor Lite-Com Pro II dealer for information.

MT90-02 Throat microphone

Dynamic laryngophone for use with Lite-Com Pro II.

MT90-06 Throat microphone

Electret laryngophone for use with Lite-Com Pro II.

FRS/GMRS Channel	CH1-CH7 (462.5625-462.7125 MHz) for FRS and GMRS CH8-CH14 (467.5625-467.7125 MHz) for FRS only CH15-CH22 (462.5500-462.7250 MHz) for GMRS only
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DOC

ATEX Certificate

IECEX Certificate please see latest version at **www.iecex.com**

IECEX Certificate

IECEX Certificate please see latest version at www.iecex.com

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FCC Warning:

This device complies with part 15 of the FCC Rules. 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. Any Changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

Before any station transmits on any channel authorized in the GMRS from an point (a geographical location) within or over the territorial limits of any area where radio services are regulated by the FCC, the responsible party must obtain a license (a written authorization from the FCC for a GMRS system .

FCC Radiation Exposure Statement:

This equipment complies with FCC radiation exposure limits set forth for an uncontrolled environment.

This transmitter must not be co-located or operating in conjunction with any other antenna or transmitter.

Do not transmit for more than 50% of the total transceiver use time; transmitting over 50% of the total use time may exceed the limits in accordance to the FCC RF exposure requirements. Nominal transceiver operation is 5% transmission time, 5% reception time and 90% stand-by time.

IC Warning:

This device complies with Industry Canada license-exempt RSS standard(s).

Operation is subject to the following two conditions:

(1) This device may not cause interference and (2) this device must accept any interference, including interference that may cause undesired operation of the device.

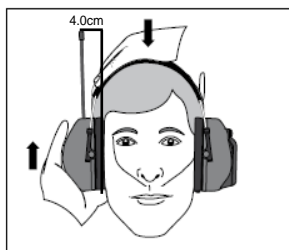
Under Industry Canada regulations, this radio transmitter may only operate using an antenna of a type and maximum (or lesser) gain approved for the transmitter by Industry Canada. To reduce potential radio interference to other users, the antenna type and its gain should be so chosen that, the equivalent isotropically radiated power (e.i.r.p.) is not more than that necessary for successful communication.

CE Warning:

CE 1313 ⚠

This equipment can be used in member states of the European Union once the corresponding administrative licence is obtained. (Note: LPD is only used in Europe)

Note: While transmitting, always keep the antenna and the radio at least 4.0 cm from your head.



DECLARATION OF CONFORMITY

3M Peltor, as manufacturer of the product Lite-Com Pro II , declares that the said product complies with the essential requirements established in article 3 of the Council of Europe Directive 1999/5/CE, dated 9th March, 1999.