

3M™ PELTOR™ LiteCom Plus Headset Analog 2-way radio Headset

Product Description

The 3M™ PELTOR™ LiteCom Plus Headset is a protective communication solution with an integrated analog two-way radio, noise-cancelling microphone, and hearing protection with level-dependent function for ambient listening. The noise canceling speech microphone with VOX functionality helps you to communicate hands free in noisy environments.

The 3M™ PELTOR™ LiteCom Plus Headset not only helps protect you against hazardous noise, but also makes it easy to communicate in noisy environments and helps you maintain situational awareness.

Key Features

- Built in two-way radio communication
- 8 channels (PMR 446 MHz) or 69 channels (LPD 433 MHz)
- 121 subchannels
- Level-dependent function for ambient listening
- Rechargeable lithium-ion battery with up to 20 hours operating time
- Voice operated transmission (VOX)
- Auto power off function
- Battery status indication
- Voice guided menu system



Hearing protection with built in two-way radio



Hearing protection for communicating with external communication devices.



Hearing protection with level-dependent function for ambient listening



Applications

The 3M™ PELTOR™ LiteCom Plus Headset offers wireless communication in noisy environments. Can be used for work in industrial and construction applications, where hands-free communication and hearing protection is needed.

Standards and Approvals

The product is in conformity with the provisions set out in the following directives.

Thereby it fulfils the requirements for CE marking.

PPE directive 89/686/EEC, RED directive 1014/53/EU and ROHS directive 2011/65/EU.

The product is tested and approved in accordance with following standards:

EN352-1:2002/EN352-3:2002, EN352-4:2001+A1:2005, EN352-6:2002, EN300 296 V2.1.1, EN301 489-1 V2.1.1, EN301 489-5 V2.1.1, EN60950-1:2006 + A11:2009 + A12:2011 + A1:2010 + AC:2011 + A2:2013, EN62479:2010.

The product has been examined by;

Combitech, Kungsörsvägen 68, 732 81, Arboga, Sweden, Notified Body#2279.

Models:

Article number	Description	3M ID	SAP ID
MT7H7A4410-EU	3M™ PELTOR™ LiteCom Plus, PMR 446, headband	XH001680467	7000108543
MT7H7P3E4410-EU	3M™ PELTOR™ LiteCom Plus, PMR 446, helmet attachment	XH001680475	7000108544
MT7H7B4410-EU	3M™ PELTOR™ LiteCom Plus, PMR 446, neckband	XH001680483	7000108545

Accessories and Spare parts

MT90-02	Throat microphone for LiteCom Pro II headsets	XL001644068	7000040037
ACK081	Rechargeable battery pack	XH001680541	7100075380
AL2AI	Charge cable for ACK08	11003074017	1100001933
FR08	Power Supply for AL2AI	XH001680194	7000108521
FL5602	External PTT	XH001654561	7000107893
M42/1	Wind Protection for mic	11003060016	7000039687
M60/2	Wind shield for surround mic	XH001652532	7000039650
HY79	Hygiene kit	XH001651047	7100063118
HYM1000	Hygiene tape for boom mic	XH001651328	7100064281
MT7N-02	Dynamic microphone (standard)	XL001634069	4100010748
FL6CS	Connecting cable, 2,5 mm stereo connector	XH001652052	7000107804
FL6CT	Connecting cable, 3,5 mm stereo connector	XH001652060	7100064519
FL6BR	Connecting cable, Peltor J11 connector	XH001652029	7100016085

Technical data specifications

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Model	Weight (with ACK081)
Headband:	464 g
Helmet attachment:	491 g
Neckband:	453 g

Built-in Two-way Radio

Frequency range:	446 MHz (PMR), 433 MHz (LPD)
Operation mode:	simplex
Channels:	Max 69 channels
Channel raster:	6.25 kHz
Channel separation:	12.5 kHz and 25 kHz
Modulation:	FM: 2.5 kHz and 5 kHz
Microphone type:	Dynamic (MT7N)
Receiver sensibility:	Typical -122 dBm
Selective squelch:	CTCSS (38 subchannels) DCS (83 codes)
Output power (PMR) version:	High power: 200 mW Low power: 25 mW
Output power (LPD) version:	Low power: 10mW
Range (PMR) version:	Outdoors up to 3 km depending on conditions
Range (LPD) version:	Outdoors up to 1 km depending on conditions
Operating temperature:	-20°C to +50°C (battery dependent)
Operating time:	(at conditions 5/5/90 TX/RX/Standby) up to 20 hours

Power

Li-Ion battery:	ACK081, included in delivery
Charging time:	approx. 4 hours
Capacity:	3,7 V, 1800 mA, 6,7 Wh
Power consumption:	Stand-by: ca 59 mA, Receiving: ca 70 mA
Transmission:	Low power: ca 160 mA High power: ca 230 mA

Storage

Recommended storage conditions:	-20° C - +55° C, <90% humidity
Recommended max. shelf life:	5 years except the batteries, <1 year

Use limitation: Never modify or alter this product

In the box

- 1 x 3M™ PELTOR™ LiteCom Plus Communications headset.
- 1 x Battery (ACK081)
- 1 x Power supply FR08
- 1 x Cable AL2AI (for ACK081)
- 1 x User instruction
- 1 x Hygiene kit HY79
- 1 x Microphone protector (HYM1000)



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Warranty:

The warranty does not cover any damage caused by neglected maintenance or careless handling.
For more information on maintenance, please see the user instruction.
For complete warranty condition, contact your dealer or local 3M office

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Laboratory attenuation

MT7H7A4410-EU, MT7H7A4310-EU Headband

Frequency (Hz)	125	250	500	1000	2000	4000	8000
Mean Attenuation (dB)	20.2	26.7	35.0	37.4	35.7	40.4	38.9
Standard deviation (dB)	3.1	3.1	2.6	2.1	3.0	2.9	2.1
Assumed Protection Value (dB)	17.1	23.6	32.4	35.3	32.7	37.5	36.8

SNR=34 dB H=35 dB M=32 dB L=25 dB

MT7H7P3E4410-EU, MT7H7P3E4310-EU Helmet attachment

Frequency (Hz)	125	250	500	1000	2000	4000	8000
Mean Attenuation (dB)	18.8	23.8	31.1	37.2	35.5	38.2	36.5
Standard deviation (dB)	2.5	2.0	2.6	3.1	2.0	2.1	4.2
Assumed Protection Value (dB)	16.4	21.8	28.6	34.1	33.5	36.1	32.3

SNR=33 dB H=34 dB M=30 dB L=23 dB

MT7H7B4410-EU, MT7H7B4310-EU Neckband

Frequency (Hz)	125	250	500	1000	2000	4000	8000
Mean Attenuation (dB)	18.3	24.8	32.7	36.2	35.3	39.5	39.4
Standard deviation (dB)	3.0	2.8	2.8	3.6	2.5	3.5	2.7
Assumed Protection Value (dB)	15.2	22.0	29.8	32.6	32.8	36.0	36.7

SNR=33 dB H=34 dB M=30 dB L=23 dB

The 3M™ PELTOR™ LiteCom Plus Headset operates on radio communication frequencies that may be subject to end-user licensing by local government agencies. The user is responsible for contacting the local government agency and obtaining any necessary licences prior to using the two-way communication radio.

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.