

# 3M™ Peltor™ Technical Datasheet



PELTOR™

## 3M™ Peltor™ LiteCom Plus

MT7H7\*4410-EU, MT7H7\*4310-EU

### Product description

The 3M™ Peltor™ LiteCom is a high-performance hearing protector with a built-in communication radio for cable free short-range communication with other LiteCom headsets and portable two-way radios programmed on the same frequency. Microphones with leveldependent function for ambient listening increases your safety because you can hear your surroundings, e.g. warning signals.

An external audio input allows you to connect to an external phone or portable two-way radio, regardless of frequency. The noise cancelling speech microphone with VOX functionality enables you to communicate hands free in noisy environments.

### Versions

Article number	Description	3M ID number
MT7H7A4410-EU	LiteCom Plus, PMR 446, headband	XH001680467
MT7H7P3E4410-EU	LiteCom Plus, PMR 446, helmet attachment	XH001680475
MT7H7B4410-EU	LiteCom Plus, PMR 446, neckband	XH001680483
MT7H7A4310-EU	LiteCom Plus, LPD 433, headband	XH001680491
MT7H7P3E4310-EU	LiteCom Plus, LPD 433, helmet attachment	XH001680509
MT7H7B4310-EU	LiteCom Plus, LPD 433, neckband	XH001680517

### Key Features

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

### Accessories and Spare parts

Article number	Description	3M ID number
HY79	Hygiene kit	XH001651047
HY100A	Single-use protectors	XH001651351
HYM1000	Microphone protector	XH001651328
MT7N-02	Dynamic microphone (standard)	XL001634069
M42/1	Wind shield for microphone dynamic mic.	11003060016
ACK081	Battery	XH001680541
AL2AI	Charging cable	11003074017
FR08	Power supply	XH001680194
FL5602	External PTT	XH001654561
M60/2	Wind protection for microphones	XH001652532
FL6CS	Connecting cable, 2,5 mm stereo connector	XH001652052
FL6CT	Connecting cable, 3,5 mm stereo connector	XH001652060
FL6BR	Connecting cable, Peltor J11 connector	XH001652029
MT90-02	Throat microphone	XL001644068

### Standards and Approval

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
- R&TTE-directive 1999/5/EG
- 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, EN62479:2010, EN300 220-2 V2.3.1/EN300 296-2 V1.3.1, EN301 489-1 V1.9.2, EN301 489-3 V1.4.1/EN301 489-5 V1.3.1, EN60950-1:2006 +A11:2009 +A1:2010 +A12:2011 +AC:2011, EN50581:2012



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## Technical Data Specifications

### Materials

Headband wire (stainless steel)  
Two-point fastener (POM)  
Ear cushion (PVC foil and polyether foam)  
Attenuation cushion (Polyether foam)  
Headband padding (PVC, Polyether foam)  
Cup (ABS plastic)

**Battery Type:** 3,7 V Lithium ACK081  
**Operating time:** 20 hours

**Weight (incl. batteries):** 464 g (headband)  
491 g (helmet att.)  
453 g (neckband)

**Charging temperature:** 0°C to +40°C  
**Operating temperature:** -20°C to +55°C (battery dependent)  
**Storage Temperature:** -20°C to +55°C

**Recommended shelf life:** 5 years (products), 1 year (batteries)

**Frequency range:** 446 MHz (PMR), 433 MHz (LPD)  
**Operation mode:** Half duplex  
**Channels:** Max 69  
**Channel raster:** 6,25 kHz  
**Channel separation:** 12,5 kHz and 25 kHz  
**Modulation:** FM: 2,5 kHz and 5 kHz  
**Microphone type:** Noise cancelling Dynamic (MT7)  
**Receiver sensibility:** Typical 122 dBm  
**Selective squelch:** CTCSS (38 subchannels)  
DCS (83 codes)  
**Output power:** High power: 200 mW  
Low power: 25 mW  
(MT7H7\*4310-EU: 10 mW)  
**Range:** Up to 3 km depending on conditions  
**Power consumption:** Standby: <59 mA  
Receiving: <70 mA  
Transmitting high power: <230 mA  
Transmitting low power: <160 mA

### In the box

1 x LiteCom Plus  
1 x Battery ACK081  
1 x Power supply FR08  
1 x Cable AL2AI  
1 x Hygiene kit HY79  
1 x Microphone protector, 100 cm HYM1000-10  
1 x User instruction

### MT7H7A4410-EU, MT7H7A4310-EU

Frequency (Hz)	63	125	250	500	1000	2000	4000	8000
Mean Attenuation (dB)	21.2	20.2	26.7	35.0	37.4	35.7	40.4	38.9
Standard Deviation (dB)	4.1	3.1	3.1	2.6	2.1	3.0	2.9	2.1
Assumed Protection (dB)	17.1	17.1	23.6	32.4	35.3	32.7	37.5	36.8

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

### MT7H7P3E4410-EU, MT7H7P3E4310-EU

Frequency (Hz)	63	125	250	500	1000	2000	4000	8000
Mean Attenuation (dB)	18.6	18.8	23.8	31.1	37.2	35.5	38.2	36.5
Standard Deviation (dB)	4.1	2.5	2.0	2.6	3.1	2.0	2.1	4.2
Assumed Protection (dB)	14.5	16.4	21.8	28.6	34.1	33.5	36.1	32.3

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

### MT7H7B4410-EU, MT7H7B4310-EU

Frequency (Hz)	63	125	250	500	1000	2000	4000	8000
Mean Attenuation (dB)	20.5	18.3	24.8	32.7	36.2	35.3	39.5	39.4
Standard Deviation (dB)	4.0	3.0	2.8	2.8	3.6	2.5	3.5	2.7
Assumed Protection (dB)	16.5	15.2	22.0	29.8	32.6	32.8	36.0	36.7

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

### 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 full warranty condition, contact your dealer or local 3M office.

### Important Notice

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