

3M™ Peltor™ Technical Datasheet



PELTOR™

Peltor™ WS™ Lite-Com™

MT53H7A4410WS5, MT53H7B4410WS5, MT53H7P3E4410WS5

Product description

Peltor™ WS™ Lite-Com™ headset takes wireless communication one step further by adding a Bluetooth link to the communication radio. Now you can handle your mobile phone directly in the radio headset while continuously watching your communication radio channel at the same time. With the additional facility for streaming audio you can also choose to listen to your favorite music, stored in your phone, or listen to the latest news from the Internet, still being in touch on the com radio.

The 446 MHz PMR radio is built in to an efficient hearing protector, which has stereo microphones for picking up the surrounding sound. Level dependent amplification of the incoming sound limits high impulse noise to maximum 82 dB inside the cups, allowing a full day's work without jeopardizing your hearing. You can talk to people nearby, also in noisy environment, without lifting the cup of the hearing protector. You can hear warning signals and other important sounds around you. In fact, you can hear weak sounds even better than without the hearing protector.



Key Features:

- Wireless communication headset with 8 PMR radio channels in the 446 MHz frequency range
- Bluetooth communication link, supporting Headset, Handsfree and streaming audio (A2DP) protocols
- VOX function for handsfree operation of the communication radio
- Active hearing protector with stereo microphones and level dependent surround sound limitation
- Rechargeable battery or standard AA batteries

Applications

- Industry
- Construction
- Forestry
- Leisure

Attenuation

MT53H7A4410WS5 (headband)

Frequency (Hz)	63	125	250	500	1000	2000	4000	8000
Mean attenuation (dB)		14,7	23,4	30,7	34,6	34,5	36,9	37,3
Std deviation (dB)		3,9	4,6	3,2	3,4	3,1	2,7	4,2
Assumed Protection Value (dB)		10,8	18,8	27,4	31,2	31,4	34,2	33,1

SNR=30 db H=33 db M=27 db L=19 db

MT53H7B4410WS5 (neckband)

Frequency (Hz)	63	125	250	500	1000	2000	4000	8000
Mean attenuation (dB)		15,5	23,3	31,2	35,6	35,0	36,5	40,9
Std deviation (dB)		2,6	2,3	2,0	3,2	3,4	3,4	3,3
Assumed Protection Value (dB)		13,0	21,0	29,2	32,4	31,6	33,2	37,6

SNR=31 db H=33 db M=29 db L=21 db

MT53H7P3E4410WS5 (helmet attachment)

Frequency (Hz)	63	125	250	500	1000	2000	4000	8000
Mean attenuation (dB)		16,2	22,9	31,7	35,6	34,5	37,7	40,0
Std deviation (dB)		3,2	2,2	2,0	2,9	3,0	3,9	3,3
Assumed Protection Value (dB)		13,0	20,7	29,7	32,7	31,5	33,8	36,8

SNR=31 db H=33 db M=29 db L=21 db

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Standards and Approval:

The WS™ Lite-Com™ is in conformity with the provisions set out in the directive 89/686/EEC (PPE) and the directive 1999/5/EC (R&TTE). Thereby it fulfils the requirements for CE marking. It also meets the requirements in directive 2004/40/EC (exposure to electromagnetic fields).

The testing has been done according to the following standards:

PPE: EN 352-1:2002, EN 352-3:2002, EN 352-4:2001/A1:2005, EN 352-6:2002 and EN 352-8:2008

R&TTE: ETSI EN 300 296-2 V1.2.1, ETSI EN 300 328 V1.7.1, ETSI EN301 489-5 V1.3.1, ETSI EN301 489-17 V1.3.2, ETSI EN301 489-1 V1.8.1, EN60950-1:2006 + A11:2009

Versions:

Description	Article no	EAN/UPC	Colour
MT53H7A4410WS5 Headband version	XH001677026	7318640055001	Dark blue
MT53H7B4410WS5 Neckband version	XH001677034	7318640055018	Dark blue
MT53H7P3E4410WS5 Helmet attachment version	XH001677042	7318640055025	Dark blue

Accessories and Spare parts:

Description	Art no	EAN
HY79 Hygiene kit	XH001651047	7318640011779
HYM1000 Microphone protection tape	XH001651328	7318640002128
M995 Wind shield for speech microphones	11003066252	93045978786
M60/2 Wind shield for ambient-noise microphones	XH001652532	7318640002708
HY100A Single-use hygiene rings	XH001651351	93045981380
ACK051 Rechargeable NiMH battery	XH001678610	7318640056305
FR05 Battery charger for ACK051 (incl. EU and UK connectors)	XH001655469	7318640051164
FL5602 External PTT	XH001654561	7318640048614
1180 SV Battery cover	XL001600565	
FL6BR Connection cable w Peltor J11 connector, for Peltor adapters	XH001652029	7318640045859
FL6BS Connection cable w 2,5 mm connector (mono)	XH001652037	93045982271
FL6BT Connection cable 3,5 mm connector (mono)	XH001652045	93045982264
FL6CS Connection cable 2,5 mm connector (stereo)	XH001652052	7318640042759

Materials:

Cup: ABS, Headband wire, stainless steel
Headband: PVC foil

Technical Data Specifications:

Model	Weight, incl. ACK051
Headband	462g
Helmet attachment	448g
Neckband	490g

2-way radio:

Frequency: 446,00625 – 446,09375 MHz
Operation mode: Simplex
Modulation: FM (8K00F3E)
Output power: Low power 25 mW, high power 150 mW
Subchannels: 38 CTCSS tones, 67 - 250,3 Hz
Range: up to 2 km (low power) / 3 km (high power)
Battery time: 13 h (ACK05, 10% TX 90% RX A2DP active)
Functions: VOX, Squelch

Bluetooth:

Version: 2.1+EDR
Frequency: 2400-2483,5 MHz
Supported profiles: HF/HS version 1.5, A2DP version 1.2
Output power: 2.5 mW

Surround sound listening:

Limiter: Limited to 82dB
Mode: Stereo

Auto power off: 2 hours from last activation
Menu voice guide language: English

Use and storage:

Storage temperature: -20°C to +55°C, humidity <85%
Usage temperature: -20°C to +55°C
Shelf life: Headset: 5 years
Battery: <1 year