



3M™ PELTOR™ WS™ LiteCom Pro III Ex Headset: Analog/Digital 2-way Radio Headset

Product Description

The 3M™ PELTOR™ WS™ LiteCom Pro III Ex Headset is the next generation protective communication solution. With an integrated, programmable analog/digital two-way radio, Bluetooth® Multipoint connectivity, noise-cancelling speech microphone, and level-dependent function for ambient listening, the 3M™ WS™ LiteCom Pro III Ex Headset not only helps protect you against potentially hazardous noise, but also makes it easy to communicate in noisy environments and helps you maintain situational awareness.



Key Features

- Programmable analog/digital DMR two-way radio communication
- Bluetooth® multipoint functionality
- Water tight speech microphone (IP68)
- Level-dependent function for ambient listening
- Voice menu with multiple language selection
- Push-to-Listen function
- Rechargeable battery, Li-Ion
- Voice operated transmission (VOX)
- Busy channel indication
- Auto power off function
- Battery status indication
- IS (Intrinsically Safe) approval ATEX/IECEEx



Hearing protection with built in two-way radio



Hearing protection with level-dependent function for ambient listening



Digital two-way radio according to DMR standard



Bluetooth® Technology



Intrinsically safe design

Applications

The 3M™ PELTOR™ WS™ LiteCom Pro III Ex Headset, ATEX-approved, offers wireless communication in noisy environments. Can be used for work in Oil & Gas Industry, Mining and where intrinsic safety products are required. Approved for use in potentially explosive environments in accordance with the ATEX directive and the IECEx scheme for dust, gas and underground mining.

Standards and Approvals

Hereby, 3M Svenska AB declares that the product is in compliance with appropriate directives or regulations to fulfill the requirements for the CE marking. The full text of the EU declaration of conformity is available at the following internet address: www.3M.com/PELTOR/DOC. A copy of the declaration of conformity and additional information required in the directives or regulations can also be obtained by contacting 3M in the country of purchase.

Intrinsically Safe

MT73H7*4D10EU-50 headsets are ATEX and IECEx certified and approved by DNV Product Assurance AS for use in potentially explosive atmospheres. EC-Type Examination Certificate Number:

Presafe 16ATEX8960X	IECEx Certificate (IECEx PRE 16.0086X)
I M1 Ex ia I Ma	Ex ia I Ma
II 1G Ex ia IIC T4 Ga	Ex ia IIC T4 Ga
II 2D Ex ib IIIC T130°C Db	Ex ib IIIC T130°C Db

$-20^{\circ}\text{C} \leq T_a \leq +50^{\circ}\text{C}$

Models

Article number	Description	3M ID	SAP ID
MT73H7F4D10EU-50	3M™ PELTOR™ WS™ LiteCom Pro III Ex Headset, 403-470 MHz, Analog/Digital, Ex, EU version, Headband	UU008014225	7100098897
MT73H7P3E4D10EU-50	3M™ PELTOR™ WS™ LiteCom Pro III Ex Headset, 403-470 MHz, Analog/Digital, Ex, EU version, Helmet	UU008014233	7100098836
MT73H7B4D10EU-50	3M™ PELTOR™ WS™ LiteCom Pro III Ex Headset, 403-470 MHz, Analog/Digital, Ex, EU version, Neckband	UU008014217	7100098898

Accessories and Spare Parts

Article number	Description	3M ID	SAP ID
MT9-02	Throat microphone for WS™ LiteCom Pro III Ex Headset, ATEX	UU013773062	7100379897
ACK082B/1	Rechargeable Li-Ion batterypack (only for WS™ LiteCom Pro III Ex Headset)	UU013706237	7100376372
AL2AI/SP	Charge cable for ACK082B/1	UU004895189	7100088372
FR08	Power Supply for AL2AI/SP	XH001680194	7000108521
FL4602-50	External PTT for WS™ LiteCom Pro III Ex Headset, ATEX	UU013659022	7100373570
M60/2	Wind shield for surround mic	XH001652532	7000039650
HY83	Hygiene kit	UU008197921	7100113964
HYM1000	Hygiene tape for boom mic	XH001651328	7100064281
M171/2	Wind protector for mic, 2 pcs	UU008159483	7100112112
MT7V/1	3M™ PELTOR™ Dynamic mic for Versaflo M300 serie	UU008014308	7100099097

Technical Data Specifications

Model	Weight (with ACK082B)
Headband:	522 g
Helmet attachment:	499 g
Neckband:	463 g

Built-in Two-way Radio

- Frequency range: 403 – 470 MHz
- Operation mode: Half-duplex
- Channel Capacity: 70 programmable channels
- Channel spacing: 12,5 kHz and 25 kHz
- Modulation: Analog: 2,5 kHz (FM) and 5 kHz (FM); Digital: 2,5 kHz (4-level FSK)
- Microphone type: Dynamic (MT73)
- Receiver sensitivity: Typical -120 dBm
- Privacy Codes (subchannel): 121 codes (CTCSS 38, DCS 83)
- Output power: 200 / 20 / 10 mW ERP
- Range: Outdoors up to 2 km depending on conditions
- Operating temperature: -20°C to +50°C

Power

- Li-Ion battery: ACK082B/1, included in delivery
- Charging time: 11 hours
- Capacity: 3,7 V, 2150 mAh, 8Wh
- Operating time: 12 hours * (80 stby / 10 tx / 10 rx)

Storage

- Recommended storage conditions: -20° C - +40° C, <90% humidity
- Recommended product lifetime: 5 years except the batteries, <1 year

Use limitation: Never modify or alter this product

Laboratory Attenuation

Table 1: MT73H7F4D10EU-50

EN352-3:2020											
f (Hz)	125	250	500	1000	2000	4000	8000	H	M	L	SNR
Mean Attenuation (dB)	19.6	26.1	34.3	36.3	34.7	38.6	38.5	36.1	33.5	27.0	35.0
Standard Deviation (dB)	2.9	1.3	2.7	3.0	3.1	2.4	2.0	2.3	1.4	1.9	1.4
Assumed Protection Value (dB)	16.7	24.8	31.6	33.3	31.6	36.2	36.5	34	32	25	34

Table 2: MT73H7B4D10EU-50

EN352-3:2020											
f (Hz)	125	250	500	1000	2000	4000	8000	H	M	L	SNR
Mean Attenuation (dB)	14.8	24.9	37.9	36.3	36.5	39.9	38.6	37.7	32.4	23.3	34.0
Standard Deviation (dB)	4.2	3.4	3.3	3.1	2.4	2.6	4.2	2.2	2.7	3.8	2.5
Assumed Protection Value (dB)	10.7	21.5	32.6	33.2	34.1	37.2	34.5	35	30	20	31

Table 3: MT73H7P3E4D10EU-50

EN352-3:2020											
f (Hz)	125	250	500	1000	2000	4000	8000	H	M	L	SNR
Mean Attenuation (dB)	17.3	25.3	36.3	37.1	35.0	41.9	38.9	37.0	33.4	25.5	35.0
Standard Deviation (dB)	2.0	1.9	2.6	2.9	3.6	2.6	3.6	2.5	1.3	1.8	1.3
Assumed Protection Value (dB)	15.3	23.4	33.7	34.2	31.4	39.3	35.3	34	32	24	34

The 3M™ PELTOR™ WS™ LiteCom Pro III Ex 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 personal fit testing of hearing protectors. Research suggests that users may receive less noise reduction than indicated by the attenuation label value(s) on the packaging due to variation in fit, fitting skill, and motivation of the user. Refer to applicable regulations for guidance on how to adjust attenuation label values. In the absence of applicable regulations, it is recommended that the SNR be reduced to better estimate typical protection.

In the Box

1 x 3M™ PELTOR™ WS™ LiteCom Pro III Ex Headset

1 x Battery (ACK082B/1)

1 x Hygiene kit HY83

1 x User instruction

1 x Intrinsic Safety Guide

Warranty and Important Notice

Warranty

The warranty does not cover any damage caused by neglected maintenance or careless handling.

For more information on maintenance, please see the User Instructions.

For complete warranty condition, contact your dealer or local 3M office.

Important Notice

3M does not accept liability of any kind, be it direct or consequential (including, but not limited to, loss of profits, business and/or goodwill) arising from reliance upon any information herein provided by 3M. The user is responsible for determining the suitability of the products for their intended use. Nothing in this statement will be deemed to exclude or restrict 3M's liability for death or personal injury arising from its negligence.



Personal Safety Division

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