

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® wireless communication, noise-cancelling speech microphones, 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/IECEX

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

MT73H7*4D10EU-50 is in conformity with the provisions set out in the PPE directive 89/686/EEC, RED directive 2014/53/EU and the ATEX directive 2014/34/EU.

The product has been examined by:

Finnish Institute of Occupational Health (Notified Body #0403), Topeliuksenkatu 41 b, FI-00250, Helsinki, Finland.

EMCCert DR. RAŠEK GmbH, Notified Body #0678, Störnhofer Berg 15 91364 Unterleinleiter Germany.

DNV Nemko Presafe AS, Veritasveien 3, 1363 Høvik, Oslo Norway, Notified Body #2460.

Intrinsically Safe

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

Presafe 16ATEX8960X

I M1 Ex ia I Ma -20°C ≤ Ta: ≤ +50°C

II 1G Ex ia IIC T4 Ga -20°C ≤ Ta ≤ +50°C Ga

II 1D Ex ia IIIC T130°C Da -20°C ≤ Ta ≤ +50°C

IECEx Certificate (IECEx Presafe 16.0086X)

Ex ia I Ma -20°C ≤ Ta: ≤ +50°C

Ex ia IIC T4 Ga -20°C ≤ Ta ≤ +50°C

Ex ia IIIC T130°C Da -20°C ≤ Ta ≤ +50°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



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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

Accessories and Spare parts

MT90-02	Throat microphone for WS™ LiteCom Pro III Ex Headset, ATEX	XL001644068	7000040037
ACK082	Rechargeable Li-Ion batterypack (only for WS™ LiteCom Pro III Ex Headset)	UU008176040	7100112102
AL2AH	Charge cable for ACK082	11003072094	7100067410
FR08	Power Supply for AL2AH	XH001680194	7000108521
FL5602-50	External PTT for WS™ LiteCom Pro III Ex Headset, ATEX	XH001654579	7000039666
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

Technical data specifications

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Model	Weight (with ACK082)
Headband:	521 g
Helmet attachment:	512 g
Neckband:	475 g

Built-in Two-way Radio

Frequency range:	403 – 470 MHz
Operation mode:	Simplex
Channels:	70 programmable channels
Channel separation:	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 sensibility:	Typical -120 dBm
Selective squelch:	Programmable (supports CTCSS and DCS)
Output power:	200 / 20 / 10 mW ER
Range:	Outdoors up to 2 km depending on conditions
Operating temperature:	-20°C to +50°C

Power

Li-Ion battery:	ACK082, included in delivery
Charging time:	approx. 12 hours
Capacity:	3,7 V, 1350 mA, 5 Wh
Operating time:	8 hours * (90 stby / 5 tx / 5 rx)

*can be increased up to 12 hours with the power save feature

Storage

Recommended storage conditions:	-20° C - +55° C, <90% humidity
Recommended max. shelf life:	Headset: 3 years Battery: 1 year

Use limitation: Never modify or alter this product

In the box

- 1 x 3M™ PELTOR™ WS™ LiteCom Pro III Ex Headset.
- 1 x Battery (ACK082)
- 1 x Power supply FR08
- 1 x Cable AL2AH (for ACK082)
- 1 x Hygiene kit HY83
- 1 x User instruction
- 1 x Intrinsic Safety Guide

Laboratory Attenuation

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EN352-1:2002

f (Hz)	125	250	500	1000	2000	4000	8000	SNR
M _r (dB)	18.6	24.3	33.6	36.8	35.5	39.4	35.5	33
s _r (dB)	2.9	2.4	2.4	3.4	2.9	2.5	3.4	
APV _r (dB)	15.7	21.9	31.2	33.4	32.6	36.9	32.1	

H=34 dB M=31 dB L=23 dB

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EN352-1:2002

f (Hz)	125	250	500	1000	2000	4000	8000	SNR
M _r (dB)	17.7	23.9	32.5	36.2	35.6	39.5	37.1	32
s _r (dB)	2.8	3.1	3.9	3.1	2.5	2.9	2.3	
APV _r (dB)	14.9	20.8	28.6	33.1	33.1	36.6	34.8	

H=35 dB M=30 dB L=22 dB

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EN352-3:2002

f (Hz)	125	250	500	1000	2000	4000	8000	SNR
M _r (dB)	18.1	23.2	32.0	36.4	34.2	40.2	34.5	32
s _r (dB)	3.3	1.8	3.4	2.7	1.9	2.5	4.6	
APV _r (dB)	14.8	21.4	28.6	33.7	32.3	37.7	29.9	

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

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.



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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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