

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 microphones, and level-dependent function for ambient listening, the WS™ LiteCom Pro III Ex 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. Approved for use in potentially explosive environments in accordance with the ATEX directive and the IECEx scheme for dust, gas and underground mining

Key Features

- Programmable analog/digital DMR two-way radio communication
- Bluetooth® multipoint functionality
- Water tight microphone (IP68)
- Environmental listening with level-dependent hearing protection
- 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 and CSA

Applications

The 3M™ PELTOR™ WS™ LiteCom Pro III Ex Headset, ATEX-approved, offers wireless communication in noisy environments. Suitable for work in Oil & Gas Industry, Mining and where intrinsic safety products are required.

Standards and Approvals

MT73H7*4D10EU 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 #2640.

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 \leq Ta: \leq +50°C Ex ia IIC T4 Ga -20°C \leq Ta \leq +50°C Ex ia IIIC T130°C Da -20°C \leq Ta \leq +50°C





Hearing protection with built in two-way radio



Hearing protection for communicating with external communication devices.



Hearing protection with leveldependent function for ambient listening



Digital two way radio according to DMR standard.



Bluetooth® Technology



Intrinsically safe design



Models:

Article number	Description	3M ID	SAPID
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

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

403 – 470 MHz
Simplex
70 programmable channels
3.125 kHz
12,5 kHz and 25 kHz
Analog: 2,5 kHz (FM) and 5 kHz (FM) Digital: 2,5 kHz (4-level FSK)
Dynamic (MT73)
Typical -120 dBm
Programmable (supports CTCSS and DCS)
200 / 20 / 10 mW ER
Outdoors up to 2 km depending on conditions
-4°F (-20°C) to +122°F (+50°C)

Li-lon battery:	ACK082, included in delivery
Charging time:	approx. 10-12 hours
Capacity:	3,7 V, 1350 mA, 5 Wh
Operating time:	8 hours* (at 5/5/90 TX/RX/Standby)

^{*} can be increased up to 12 ours with the power save feature.

Storage

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

Use limitation: Never modify or alter this product

Attenuation (EN 352-1:2002)

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EN352-1:2002

f (Hz)	125	250	500	1000	2000	4000	8000	SNR
M_f (dB)	18.6	24.3	33.6	36.8	35.5	39.4	35.5	
s _f (dB)	2.9	2.4	2.4	3.4	2.9	2.5	3.4	33
APV _f (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 _f (dB)	17.7	23.9	32.5	36.2	35.6	39.5	37.1	
s _f (dB)	2.8	3.1	3.9	3.1	2.5	2.9	2.3	32
APV _f (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

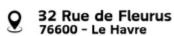
f (Hz)	125	250	500	1000	2000	4000	8000	SNR
M_f (dB)	18.1	23.2	32.0	36.4	34.2	40.2	34.5	
s _f (dB)	3.3	1.8	3.4	2.7	1.9	2.5	4.6	32
APV _f (dB)	14.8	21.4	28.6	33.7	32.3	37.7	29.9	

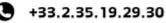
H=33 dB M=30 dB L=23 dB

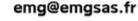
The 3M™ PELTOR™ WS™ LiteCom Pro III Ex Headset operates on radio communication frequencies that may be subject to end-user licensing by local government agencies. The user is responsible for contacting the local government agency and obtaining any necessary licences prior to using the two-way communication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

In the box

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







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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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