



PELTOR™



3M™ PELTOR™ Hearing & Communication Solutions

# Smart solutions, Easy communication

Hearing protection with integrated analog and digital two-way radio enables headset-to-headset communication and can be integrated with similar professional radio communication systems. Includes Bluetooth® multipoint connectivity for simultaneous seamless connection. The level-dependent function helps you to hear important sounds from the surroundings and to communicate with people standing close by without compromising your hearing protection. Approved for use in potentially explosive atmospheres in accordance with the ATEX directive and the IECEx scheme for dust, gas and underground mining.

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



Hearing protection with built in two-way radio



Hearing protection with level-dependent function for ambient listening



Built-in Bluetooth® Technology



3M Science. Applied to life.™

# Smart Solutions, Easy Communication

3M™ PELTOR™ WS™ LiteCom Pro III Ex Headset is a hearing protector with built-in analog and digital programmable two-way communication radio, a level-dependent function and Bluetooth® Multipoint connectivity. It is approved for use in potentially explosive atmospheres according to ATEX/IECEx regulations.





### Easy To Use

- Noise attenuating headset helps provide hearing protection in environments with potentially hazardous noise.
- Voice Operated Transmission (VOX) facilitates hands-free operation.
- 3M™ PELTOR™ PTT FL5602-50 Adapter, enabling remote PTT control of the built-in radio (available separately).
- Five conveniently positioned function keys and voice guided menus (with multiple language selection) to handle all modes and settings.

### Bluetooth® Technology

- Multipoint, for simultaneous, seamless connection to external devices using Bluetooth® technology.

### Built-in programmable two-way communication radio

- Headset-to-headset communication and can be integrated with similar professional radio communication systems
- DMR compatible
- 70 programmable radio channels in the 403–470 MHz frequency.
- Analog radio selective squelch function with CTCSS tones or DCS codes and DMR radio functionality, allows multiple users to work on the same channel without listening to each other's communication.

### Long range, Low power

- Range with maximum output power is up to 2 km outdoors depending on actual conditions.

### Intrinsically Safe

- Approved for use in potentially explosive atmospheres in accordance with the ATEX directive and the IECEx scheme for both gas, dust and underground mining.

### Situational awareness with level-dependent function

- The level-dependent function helps you to hear important sounds from the surroundings and to communicate with people standing close by in a noisy environment, without compromising your hearing protection.

## Headset Models

Article number	Description	3M ID	SAP ID
MT73H7F4D10EU-50	WS™ LiteCom Pro III Ex Headset, headband	UU008014225	7100098897
MT73H7P3E4D10EU-50	WS™ LiteCom Pro III Ex Headset, helmet att.	UU008014233	7100098836
MT73H7B4D10EU-50	WS™ LiteCom Pro III Ex Headset, neckband	UU008014217	7100098898



MT73H7F4D10EU-50 MT73H7P3E4D10EU-50 MT73H7B4D10EU-50

## Articles & Accessories

Article number	Description	3M ID	SAP ID
MT90-02	Throat microphone for WS™ LiteCom Pro III headsets, Ex	XL001644068	7000040037
ACK082	Rechargeable Li-Ion battery pack (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	XH001654579	7000039666
M60/2	Wind shield for level-dependent 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



MT90-02 ACK082 AL2AH  
FR08 FL5602-50 HYM1000  
M60/2 HY83 M171/2

# Technical data specifications

## Technical data specifications

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:	-4°F (-20°C) to +122°F (+50°C)

### Power

Li-Ion battery:	ACK082, included in delivery
Charging time:	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

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

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 individual fit testing of hearing protectors. If the NRR or SNR is used to estimate typical workplace protection, 3M recommends that the noise reduction value be reduced by 50% or in accordance with applicable regulations.

## Laboratory Attenuation

### MT73H7F4D10EU-50 EN352-1:2002

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

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

### MT73H7B4D10EU-50 EN352-1:2002

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

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

### MT73H7P3E4D10EU-50 EN352-3:2002

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

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

## 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 No.0403),  
Topeliuksenkatu 41 a A, FI-00250, Helsinki, Finland.

EMCCert DR. RAŠEK GmbH Notified Body number : 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

### 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

### Important Notice

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