

# 3M™ PELTOR™ ComTac™ VII Headset

## Tactical Modular Headset

### Product Description

The 3M™ PELTOR™ ComTac™ VII headset is designed to allow for dual hearing protection. It can be used in combination with 3M™ PELTOR™ TEP-300 earplugs, or passive earplugs. A new headband design helps to make transition between rail mounted systems and headband eaiser. It can also help to improve comfort when worn under a ballistic helmet.

### Key Features

- New headband design
- Dual hearing protection
- IP68 noise cancelling microphone
- Level dependent function for environmental listening
- New microphone attachment. Accomodates both left handed and right handed shooters without the need to relocate the microphone to opposite side of the headset.
- Near Field Magnetic Induction (NFMI)
- Natural Interaction Behaviour (NIB)

### Applications

The 3M™ PELTOR™ ComTac™ VII is 3M's newest generation of tactical communication and hearing protection, developed to help operators effectively communicate in dynamic noise environments.

### 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](http://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.

### Approvals

PPE Regulation 2016/425  
EMC Directive 2014/30/EU  
ROHS Directive 2011/65/EU  
Radio Directive 2014/30/EU  
RED Directive 2014/53/EU

### Military Approvals

Tested according to the applicable parts of MIL-STD-810G,  
EMC-MIL-STD-461G.



MT14H41A-300EU GN



Natural Interaction Behaviour function



Near Field Magnetic Induction



Noise cancelling boom microphone for clear speech transmission in noisy environments



Hearing protection with level-dependent function for ambient listening

### Models:

Part Number	Description	Legacy 3M ID	SAP ID	Color
MT14H41A-300EU CY	3M™ PELTOR™ ComTac VII, Coyote Brown	UU010934865	7100222871	
MT14H41A-300EU GE	3M™ PELTOR™ ComTac VII, Grey	UU010934881	7100222909	
MT14H41A-300EU GN	3M™ PELTOR™ ComTac VII, OD Green	UU010934873	7100222859	

### Accessories and Spare parts

Part number	Description	Legacy 3M ID	SAP ID
M194/2	3M™ PELTOR™ Wind shield Kit for surround mic	UU010955936	7100232688
1086 SV/1	3M™ PELTOR™ Battery Lid	UU010953469	7100232689
AL8002/1	3M™ PELTOR™ Downlead cable ComTac™ VII	UU010954111	7100225790
AGM/1	3M™ PELTOR™ Headband ComTac™ VII	UU010972220	7100227486
A47/1	3M™ PELTOR™ Microphone guide	UU010972238	7100227492
MT71/1	3M™ PELTOR™ Boom Microphone dyn	UU010972246	7100230581
P3ADG47-F SV/2	3M™ PELTOR™ ARC rail attachment, 1 pair	UU010972253	7100227493
HY80-EU	3M™ PELTOR™ Gel Sealing Rings for ComTac™	UU003133988	7100101182
HY68 SV	3M™ PELTOR™ Hygiene Kit standard for ComTac™	XH001659461	7000108023
HYM1000	3M™ PELTOR™ Micprotector, 5m, black	XH001651328	7100064281
M171/2	3M™ PELTOR™ Windshield for MT71/1 mic	UU008153483	7100112112
M42/1	3M™ PELTOR™ Windshield MAXI for dyn mic	XH001659792	7000039687

## Technical Specifications

### Speech Microphone Type:

Dynamic (MT71) waterproof (IP68), 6m / 30min

### Power / Electrical Characteristics:

Battery Type: 2 x AAA  
 Environmental listening: Approximately 50 hours  
 Environmental & NIB: Approximately 30 hours

### NIB™ Natural Interaction Behavior function :

Frequency band: 864 Mhz and 915 Mhz  
 Operation mode: Full Duplex  
 Range: **Approximately 3-5m:**  
 Optimal for communication  
**Approximately 5-10m:**  
 Fade in and fade out  
 Modulation: TDMA protocol

### Near Field Magnetic Induction (NFMi):

Transmission rate: 596 kbit/s  
 Range: approximately 50 cm (20 in)  
 Frequency: 9.8 - 11.7Mhz

### Physical Characteristics:

Weight with batteries: 326 gram (standard foam ring)  
 361 gram (with gel ring)

### Environmental Characteristics:

Operating temp: -20 to +55°C  
 Shelf Life: **Headset:** 5 years, excluding batteries  
 Waterproof Rating : **Salt water** (5%) 2m at 30 min

### Recommended Storage Conditions (<90% humidity):

5 years: Indoor Controlled Climate (<90% humidity)

**User limitation:** Never modify or alter this product

### Environmental Performance:

Tested in accordance with MIL-STD-810G



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## Laboratory Attenuation

### MT14H41A-300EU CY

EN:352-1

Frequency (Hz) <sup>2</sup>	125	250	500	1000	2000	4000	8000
Mean Attenuation (dB) <sup>3</sup>	12.6	18.1	29.1	30.5	31.9	43.7	39.4
Standard Deviation (dB) <sup>4</sup>	2.3	1.5	3.3	2.6	2.2	2.5	2.7
Assumed Protection Value (dB) <sup>5</sup>	10.3	16.6	25.8	27.9	29.7	41.2	36.7

SNR=29 dB H=32 dB M=26 dB L=18 dB

### MT14H41A-300EU CY with Gel Cushions (HY80-EU)

EN:352-1

Frequency (Hz) <sup>2</sup>	125	250	500	1000	2000	4000	8000
Mean Attenuation (dB) <sup>3</sup>	12.1	17.8	29.2	34.9	33.9	43.2	39.3
Standard Deviation (dB) <sup>4</sup>	2.2	1.4	2.9	2.2	2.2	3.2	3.3
Assumed Protection Value (dB) <sup>5</sup>	9.9	16.4	26.3	32.7	31.7	40.0	36.0

SNR=29 dB H=34 dB M=26 dB L=18 dB

**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

1x ComTac™ VII Headset  
 1x User Instructions  
 2x AAA batteries  
 1x Microphone Windshield

### WARNING!

These hearing protectors help reduce exposure to hazardous noise and other loud sounds. **Misuse or failure to wear hearing protection at all times that you are exposed to noise may result in hearing loss or injury.** For correct use, consult supervisor and User Instruction, or call 3M PSD Technical Service in the USA at 1-800-665-2942.



#### 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

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.