



PELTOR™
Protection & Communication

COMHEAD
Headset Company
comhead.de | +49 40 500 580 20 | info@comhead.de

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 easier. 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. Accommodates 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.

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-300EUGN



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-300EUCY	3M™ PELTOR™ ComTacVII, Coyote Brown	UU010934865	7100222871	
MT14H41A-300EUGE	3M™ PELTOR™ ComTacVII, Grey	UU010934881	7100222909	
MT14H41A-300EUGN	3M™ PELTOR™ ComTacVII, 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
1086SV/1	3M™ PELTOR™ Battery Lid	UU010953469	7100232689
AL8002/1	3M™ PELTOR™ Download 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-FSV/2	3M™ PELTOR™ ARC rail attachment, 1pair	UU010972253	7100227493
HY80-EU	3M™ PELTOR™ Gel Sealing Rings for ComTac™	UU003133988	7100101182
HY68SV	3M™ PELTOR™ Hygiene Kit standard for ComTac™	XH001659461	7000108023
HYM1000	3M™ PELTOR™ Mic protector, 5m, black	XH001651328	7100064281
M171/2	3M™ PELTOR™ Windshield for MT71/1mic	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 xAAA

Environmental listening: Approximately 50 hours

Environmental& NIB: Approximately 30 hours

NIB " Natural Interaction Behaviorfunction :

Frequency band: 864 Mhz and 915Mhz

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)
361gram (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

Laboratory Attenuation

MT14H41A-300EUCY

EN:352-1

Frequency (Hz) ²	125	250	500	1000	2000	4000	8000
Mean Attenuation (dB) ³	12.6	18.1	29.1	30.5	31.9	43.7	39.4
Standard Deviation (dB) ⁴	2.3	15	3.3	2.6	2.2	2.5	2.7
Assumed Protection Value (dB) ⁵	10.3	16.6	25.8	27.9	29.7	41.2	36.7

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

MT14H41A-300EUCY with Gel Cushions (HY80-EU)

EN:352-1

Frequency (Hz) ²	125	250	500	1000	2000	4000	8000
Mean Attenuation (dB) ³	12.1	17.8	29.2	34.9	33.9	43.2	39.3
Standard Deviation (dB) ⁴	2.2	14	2.9	2.2	2.2	3.2	3.3
Assumed Protection Value (dB) ⁵	9.9	16.4	26.3	32.7	31.7	40.0	36.0

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

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

1xComTac™ VII Headset

1xUser Instructions

2xAAA 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.



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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

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.



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