3M™ PELTOR™ ComTac VII Headsets

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 (MHz):	915 & 864 (GN & CY). 915 (GE)
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:	330 gram (11.6 Oz)

Environmental Characteristics:	
Operating temp:	4°F / -20°C to 131°F / 55°C
Shelf Life:	**Headset:** 5 years, excluding batteries **Batteries:** 1 year
Immersion survivability :	Saltwater (5%) 30 min at 2M

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

Environmental Performance:
Tested in accordance with MIL- STD-810G

Electromagnetic Interference:
Tested in accordance with MIL-STD-461G

Hazards of Electromagnetic Radiation to Ordnance (HERO), Personnel (HERP), and Fuel (HERF):
Evaluated against applicable limits outlined in MIL-STD-464C

Noise Reduction Rating (NRR) tested in accordance with ANSI S3.19-1974

Impulsive Peak Insertion Loss (IPIL) tested in accordance with ANSI/ASA S12.42-2010



ComTac VII, Headband with foam cushions, MT14H41A-300NA; CY, GE, GN

Frequency (Hz)	125	250	500	1000	2000	3150	4000	6300	8000	NRR	CSA Class
Mean Attenuation (dB)	14.0	19.4	27.9	32.3	31.7	39.7	44.5	40.1	41.0	22	B
Standard Deviation (dB)	2.7	3.2	2.6	2.1	2.8	3.6	3.4	2.6	2.2		

ComTac VII, Headband with gel cushions, MT14H41A-300NA; CY, GE, GN

Frequency (Hz)	125	250	500	1000	2000	3150	4000	6300	8000	NRR	CSA Class
Mean Attenuation (dB)	14.5	18.8	27.6	34.3	33.8	39.7	42.8	40.7	40.9	23	A
Standard Deviation (dB)	2.7	2.6	2.3	3.0	2.2	2.9	3.7	2.6	3.1		

*** U.S. EPA specifies the NRR as the measure of hearing protector noise reduction. However, 3M makes no warranties as to the suitability of the NRR for this purpose. 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. It is recommended that the NRR be reduced by 50% to better estimate typical protection.

ComTac VII meets the single hearing protection requirement listed in DA PAM 40 501 Army Hearing Program 2015 for both steady-state and impulse noise.

3M™ PELTOR™ ComTac VII NIB headsets - Single versus Dual Frequency

Two versions of the NIB headset are available for purchase in the United States. Customers can purchase a single frequency, FCC approved , 915.5 MHz NIB headset. U.S Federal Government customers can also purchase a dual frequency NIB headset that is not FCC approved as it offers both 915.5 MHz (For use in North America. Australia and New Zealand) and 864 MHz (approved for use in Europe). The dual-frequency, non-FCC labeled headsets are offered to U.S. Federal Government customers who may require use of the headset outside of the United States, such as U.S. military personnel. Prior to using a NIB enabled headset, it is the user's responsibility to ensure they are using the correct NIB frequency for the region in which they are currently using the headset.

3M™ PELTOR™ ComTac VII NIB headsets - Dual frequency (915.5 & 864 MHz)
For Federal Government use only.

Part Number	Description	Legacy 3M ID	SAP ID	Color
MT14H41A-300NA CY	3M™ PELTOR™ ComTav VII Headset, Coyote Brown	UU010934857	7100222865	
MT14H41A-300NA GN	3M™ PELTOR™ ComTac VII Headset, OD Green	UU010934840	7100222738	

3M™ PELTOR™ ComTac VII NIB headsets - Single frequency (915.5 MHz)
For Federal and non-Federal Government use.

Part Number	Description	Legacy 3M ID	SAP ID	Color
MT14H41A-300NA GE	3M™ PELTOR™ ComTac VII Headset, Grey	UU010934832	7100222831	

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
HY68 SV	3M™ PELTOR™ Replacement Hygine Kit, 1 pair	XH001659461	7000108023
HY80A	3M™ PELTOR™ Replacement Gel Rings, 1 pair	70071573656	7100014310

CAUTION:
When worn according to these User Instructions, these hearing protectors helps reduce exposure to both continuous noises, such as industrial noises and noises from vehicles and aircraft, as well as very loud impulse noises, such as gunfire. It is difficult to predict the required and/or actual hearing protection obtained during exposure to impulse noises. For gunfire, the weapon type, number of rounds fired, proper selection, fit and use of hearing protection, proper care of hearing protection, and other variables will impact performance.
To learn more about hearing protection for impulse noise, visit www.3M.com/hearing.

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.

3M Personal Safety Division
3M Center, Building 235-2NW-70
St. Paul, MN 55144-1000

For more information:
Technical Service 1-800-665-2942
Customer Service 1-800-328-1667
3M.com/PELTOR

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