



3M™ PELTOR™ ComTac™ VI NIB Headset

Product Description

The 3M™ PELTOR™ ComTac™ VI NIB Headset offers a hands-free adaptive VOX capability allowing face to face communication in full duplex for up to four talkers and up to sixty listeners within a 10 meter radius. This can help significantly with face-to-face communications when on a boat, in tactical vehicles or aircraft. This ability is the first of its kind in a tactical communication headset.

Key Features

- Two Environmental Listening Modes for enhanced Auditory Awareness
 - Advanced mode (“Mission Audio Profile”)
 - Classic mode
- NIB “Natural Interaction Behavior” function for improved face-to-face communications in noise
- Wireless input with magnetic loop
- Detachable comms microphone
- Low battery warning
- Voice guided configuration menu
- Earplug mode (maintains situational awareness when used in combination with earplugs)
- Automatic power off after two hours if no function is used
- Tested according to the applicable parts of military standards. For specifics please contact 3M Technical Service in the U.S.A at 1-800-665-2942.



Applications

3M™ PELTOR™ ComTac™ VI Headset is designed for law enforcement and military operations requiring auditory situational awareness, face-to-face communications in quiet and in noise, radio connectivity and/or hearing protection.

Standard Models

| Article number (minus color designator) | Description | Colors† |
|--|---|------------|
| MT20H682FB-09N† | 3M™ PELTOR™ ComTac™ VI, Standard NIB Headset, Foldable | GN, CY, SV |
| MT20H682FB-47N† | 3M™ PELTOR™ ComTac™ ComTac™ VI, NIB Communication Headset, Single Com, Foldable | GN, CY, SV |
| MT20H682FB-19N† | 3M™ PELTOR™ ComTac™ ComTac™ VI, NIB Communication Headset, Dual Com, Foldable | GN, CY, SV |
| MT20H682FB-92N† | 3M™ PELTOR™ ComTac™ VI, NIB Headset, Foldable, | CY |
| MT20H682BB-09N† | 3M™ PELTOR™ ComTac™ VI, Standard NIB Headset, Back band, | GN, CY, SV |
| MT20H682BB-47N† | 3M™ PELTOR™ ComTac™ VI, NIB Communication Headset, Single Com, Back band | GN, CY, SV |
| MT20H682BB-19N† | 3M™ PELTOR™ ComTac™ VI, NIB Communication Headset, Dual Com, Back band | GN, CY, SV |
| MT20H682BB-92N† | 3M™ PELTOR™ ComTac™ VI, NIB Headset, Back band | CY |

†Colors: GN= Olive Drab Green, CY= Coyote Brown, SV= Black

Accessories

| Part number | Description | Legacy 3M ID | SAP ID |
|-------------|---|--------------|------------|
| HY68 SV | 3M™ PELTOR™ Hygiene kit | XH001654461 | 7000108023 |
| HY80A | 3M™ PELTOR™ Replacement Gel Cushions | 70071573656 | 7100014310 |
| M60/2 | 3M™ PELTOR™ Wind shield for surround mic | XH001652532 | 7000039650 |
| MT73/1 | 3M™ PELTOR™ Boom Microphone dynamic, waterproof | UU008163634 | 7100112094 |
| M171/2 | 3M™ PELTOR™ Wind protector for mic, pair | UU008159483 | 7100112112 |
| HYM1000 | 3M™ PELTOR™ Hygiene tape for boom mic, black | XH001651328 | 7100064281 |
| 1079 SV/SP | 3M™ PELTOR™ Replacement Battery Cover, pair | UU004894315 | 7100088235 |

Technical data specifications

Technical data specifications

| Model | Approx. Weight |
|---------------------|----------------|
| Headband: | 340 g |
| Headband with HY80: | 379 g |
| Back band: | 313 g |

| NIB "Natural Interaction Behavior" function | |
|---|--|
| Frequency band: | North America: 915 MHz Europe: 864 MHz |
| Operation mode: | Duplex, half-duplex |
| Range: | 0–5m: Optimal for communication 5–10m: Fade in and fade out |
| Modulation: | TDMA protocol |
| Microphone type: | Dynamic (MT73), Waterproof (IP68) |
| Operating temperature: | –4 °F to 131 °F |

| Power | |
|-----------------|--|
| Battery type: | 2xAAA batteries |
| Operating time: | Environmental listening: 50 h Environmental listening + NIB: 30 h |

| Storage | |
|---------------------------------|---|
| Recommended storage conditions: | –4 °F to 131 °F |
| Recommended max. shelf life: | Headset: 5 years, excluding batteries. Battery: 1 year |

User limitation: Never modify or alter this product

In the Box: MT20H682FB

- 1 x ComTac VI
- 2 x Gel Cushions
- 2 x Accessory Rail Connector
- 2 x Wind protector for mic
- 1 x User manual
- 2 x AAA batteries

In the Box: MT20H682BB

- 1 x ComTac VI
- 1 x Gel Cushions
- 2 x Wind protector for mic, pair
- 1 x User manual
- 2 x AAA batteries



3M Personal Safety Division
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FOR MORE INFORMATION

In United States, contact:
Website: www.3M.com/PELTOR
Technical Service: 1-800-665-2942
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In Canada, contact:
1-855-484-3093
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For other 3M products:
1-800-3M-HELPS or 1-651-737-6501
3M PSD products are occupational use only

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Laboratory Attenuation***

MT20H682FB - Folding Band - Foam Cushions

| Frequency (Hz) | 125 | 250 | 500 | 1000 | 2000 | 3150 | 4000 | 6300 | 8000 | NRR | CSA Class |
|-------------------------|------|------|------|------|------|------|------|------|------|-----|-----------|
| Mean Attenuation (dB) | 13.6 | 17.7 | 28.8 | 31.9 | 32.3 | 39.3 | 39.9 | 42.1 | 41.4 | 23 | B |
| Standard Deviation (dB) | 2.6 | 2.5 | 2.7 | 1.9 | 1.5 | 4.1 | 2.3 | 2.6 | 2.5 | | |

MT20H682FB - Folding Band - Gel Cushions

| Frequency (Hz) | 125 | 250 | 500 | 1000 | 2000 | 3150 | 4000 | 6300 | 8000 | NRR | CSA Class |
|-------------------------|------|------|------|------|------|------|------|------|------|-----|-----------|
| Mean Attenuation (dB) | 11.4 | 15.7 | 21.7 | 28.9 | 33.1 | 40.8 | 38.8 | 37.3 | 37.3 | 20 | B |
| Standard Deviation (dB) | 2.8 | 2.7 | 2.0 | 2.7 | 1.9 | 3.5 | 3.7 | 2.5 | 3.5 | | |

MT20H682BB - Backband - Foam Cushions

| Frequency (Hz) | 125 | 250 | 500 | 1000 | 2000 | 3150 | 4000 | 6300 | 8000 | NRR | CSA Class |
|-------------------------|------|------|------|------|------|------|------|------|------|-----|-----------|
| Mean Attenuation (dB) | 15.5 | 17.9 | 26.0 | 31.3 | 32.4 | 38.9 | 41.3 | 44.7 | 46.2 | 22 | B |
| Standard Deviation (dB) | 4.0 | 2.5 | 2.3 | 2.7 | 3.2 | 3.2 | 3.0 | 3.8 | 4.4 | | |

MT20H682BB - Backband - Gel Cushions

| Frequency (Hz) | 125 | 250 | 500 | 1000 | 2000 | 3150 | 4000 | 6300 | 8000 | NRR | CSA Class |
|-------------------------|------|------|------|------|------|------|------|------|------|-----|-----------|
| Mean Attenuation (dB) | 15.2 | 17.6 | 24.9 | 30.5 | 33.4 | 39.3 | 41.4 | 46.2 | 45.8 | 21 | B |
| Standard Deviation (dB) | 4.2 | 2.7 | 2.3 | 3.8 | 4.1 | 3.0 | 3.4 | 3.0 | 4.7 | | |

MT20H682FB - Helmet Attachment - Foam Cushions*

| Frequency (Hz) | 125 | 250 | 500 | 1000 | 2000 | 3150 | 4000 | 6300 | 8000 | NRR | CSA Class |
|-------------------------|------|------|------|------|------|------|------|------|------|-----|-----------|
| Mean Attenuation (dB) | 15.1 | 20.3 | 26.4 | 32.1 | 33.0 | 39.7 | 34.1 | 39.4 | 40.1 | 22 | A |
| Standard Deviation (dB) | 3.9 | 2.7 | 3.0 | 2.8 | 3.5 | 3.7 | 3.5 | 2.9 | 2.3 | | |

MT20H682FB - Helmet Attachment - Gel Cushions**

| Frequency (Hz) | 125 | 250 | 500 | 1000 | 2000 | 3150 | 4000 | 6300 | 8000 | NRR | CSA Class |
|-------------------------|------|------|------|------|------|------|------|------|------|-----|-----------|
| Mean Attenuation (dB) | 15.1 | 17.6 | 26.1 | 35.1 | 32.9 | 40.9 | 35.3 | 39.5 | 40.0 | 21 | A |
| Standard Deviation (dB) | 3.9 | 3.5 | 3.3 | 2.6 | 2.8 | 2.3 | 3.0 | 2.6 | 2.4 | | |

* Tested with 3M™ Ceradyne™ Ballistic Helmet

** Tested with OPSCOR™ Fast Ballistic Helmet

***** Note:** 3M strongly recommends fit testing of hearing protectors. Research suggests that many users will receive less noise reduction than indicated by the NRR due to variation in hearing protector fit, fitting skill and motivation of the user. If the NRR is used, 3M recommends that it be reduced by 50% or in accordance with applicable regulations. 3M PSD products are for occupational use only.

⚠ CAUTION! When worn according to the User Instructions, this hearing protector 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. If your hearing seems dulled or you hear a ringing or buzzing during or after any noise exposure (including gunfire), or for any other reason you suspect a hearing problem, your hearing may be at risk. To learn more about hearing protection for impulse noise, please visit www.3M.com/hearing.

⚠ WARNING!

Hearing Protection Products

These hearing protectors help reduce exposure to hazardous noise and other loud sounds. **Misuse or failure to wear hearing protectors at all times that you are exposed to noise may result in hearing loss or injury.** For correct use, consult supervisor and User Instructions, or contact 3M Technical Service in the U.S.A at 1-800-665-2942. If there is any drainage from your ear or you have an ear infection, consult with your physician before wearing earplugs. Failure to do so may result in hearing loss or injury.

Standards and Approvals

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

The product has been tested in accordance with the impulse test requirements of ANSI S12.42-2010.

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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