We strive to set the standard for confidence and trust by providing rugged, reliable protective communication equipment.

3M™ PELTOR™ Solutions for today’s modern warfighter have been worn for use in combat and combat support operations and are compatible with most firearms and ballistic helmets. PELTOR headsets are known for their reliability in delivering critical radio communications in the heat of an operation. The hearing protectors feature external microphones for environmental listening (aka Talk-Through) capability, so operators can maintain auditory situational awareness while protecting their hearing.

With more than 70 years of experience, the 3M™ PELTOR™ Brand promises quality communication solutions that help provide an excellent balance of performance and protection.

The advanced engineering and technology inherent with the 3M™ PELTOR™ Brand fits with the high standard of quality and innovation of a continuously evolving range of product solutions that you, our customers, come to expect from 3M.
3M™ PELTOR™ Tactical Modular Audio System

3M™ PELTOR™ Tactical Modular Audio System (TMAS), is 3M’s newest generation of tactical communication and hearing protection, developed to help operators effectively communicate in dynamic noise environments.

The new system brings forward our next generation ComTac VII and TEP-300 with new looks, improved systems integration, and enhanced auditory situational awareness to help give operators a tactical edge during operations. TMAS features wireless communication that removes the cable(s) between the headset and PTT (Push to talk), helping to increase overall mobility. Additionally, the system comes equipped with a new remote PTT, that can be mounted on the weapons rail — giving operators the capability to transmit and adjust volume without having to remove their hand from the weapon.

The system offers flexibility and scalability to address the needs of the modern operator. Welcome to the next generation of communication capability from 3M PELTOR.
3M™ PELTOR™ System Control Unit - SCU-300

Wireless or Wired
Utilizing near field magnetic induction, the 3M™ PELTOR™ System Control Unit helps to improve cable management through cord-free connection to the 3M™ PELTOR™ ComTac™ VII Headset, and 3M™ PELTOR™ Tactical Earplugs, TEP-300. There is also a port for an optional wired connection to the 3M™ PELTOR™ ComTac™ VII Headset.

Multiple Radios
The SCU is equipped with three com ports for radios and intercom systems, and is designed to handle multiple radios with multiple channels. In such scenarios, the user is able to select one of three preset sound profiles;

Mix:
The sound is heard equally in both left and right ear.

Surround:
The sound will be perceived as it is coming from different directions, depending on which channel the sound is transmitted from.

Single:
The sound will only be heard in one of the ears.

Wireless
Utilizing Near Field Magnetic Induction (NFMI) technology, the 3M™ PELTOR™ Tactical Modular Audio System lets you experience wireless freedom through a cable-free connection between the 3M™ PELTOR™ System Control Unit and the TEP-300 or ComTac™ VII Headsets. Near Field Magnetic Induction is a short range, digital, wireless physical layer that communicates by coupling a tight, low-power, non-propagating magnetic field between devices.
The range is approximately 50 cm (20 in).
The steep degradation of NFMI signal strength as a function of distance increases privacy and reduces issues with interference compared to traditional wireless technology.

The SCU is also available with Bluetooth® technology for those who also prefer a wireless connection to external devices.
3M™ PELTOR™ System Control Unit, SCU-300 **

Wireless or Wired

- Power/Menu button
- Battery cap
- Function button
- Intercom socket
- Loop strap
- Headset socket
- + button
- Radio 1 socket
- Radio 2 socket
- PTT button
- PTT button

3M™ PELTOR™ Remote Control Unit, RCU-300 **

Wireless Remote Control Unit

- + button
- Attachment for picatinny rail
- button
- - button

Remote Control Unit
The SCU can be remotely operated via a wireless remote control unit (RCU). It is designed to be mounted on a picatinny rail, but can be placed elsewhere. Besides using the remote as a push-to-talk PTT, it can also be used to adjust the volume level of the environmental listening or radio.
3M™ PELTOR™ ComTac™ VII Headset

New Cup & Headband Design
The new 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.

Rugged Microphone
The new speech microphone is redesigned and embedded with patented 3M closed cell foam, delivers improved noise cancelling transmission in high noise and wind while also improving dust and water ingress protection (IP68, 6m / 30 min). The microphone attachment is designed to help accommodate both left handed and right handed shooters without the need to relocate the microphone to opposite side of the headset.

Environmental Microphones & Natural Interaction Behavior (NIB)
New design and wind screen attachment help to improve environmental listening.

Choose between classic mode, or advanced mode with 5 different Mission Audio Profiles (MAP); Silent, Observation, Patrol, Conversation or Comfort.

Natural Interaction Behaviour (NIB), helps to improve close range face-to-face communication in steady state noise environments.
3M™ PELTOR™ ComTac™ VII Headset

Tactical Modular Headset

New Headband Design
Upgraded design for easy transition between rail mounted systems and headband, and to help improve comfort when worn under a ballistic helmet.

Environmental Listening Microphones
• Advanced Mode (MAP)
• Classic Mode

Near Field Magnetic Induction (NFMI)
Wireless connection to 3M™ PELTOR™ System control Units, SCU-300.

New Microphone Attachment
Designed to help accommodate both left handed and right handed shooters without the need to relocate the microphone to opposite side of the headset.

Speech Microphone
Redesigned and embedded with patented 3M closed cell foam, delivers improved noise cancelling transmission in high noise and wind while also improving dust and water ingress protection (IP68, 6m / 30 min).

Detachable Downlead
A port for an optional wired connection to the 3M™ PELTOR™ System Control Unit, SCU-300.

Natural Interaction Behavior (NIB)
To help improve close range face-to-face communications in noise.

Dual Hearing Protection
Designed to enable use in combination with 3M™ PELTOR™ TEP-300 earplugs, or passive earplugs.

Water tight battery compartment
Powered by 2 X AAA. Does not require a tool to change batteries.
3M™ PELTOR™ ComTac™ VII Headset

Mission Audio Profiles (MAP)

The 3M™ PELTOR™ ComTac™ VII offers a new way to adjust the auditory settings of your headset for your mission. Traditionally, a headset has a set frequency response, and the operator can only increase or decrease the volume. The MAP function provides advanced environmental listening modes that allow access to a variety of gain settings, but with frequency shaping, to enhance auditory performance in five conditions. The MAP Profiles have been designed with a variety of combat and combat support operations in mind.

Mission Audio Profile 1: Observation
Highest volume and widest frequency response to maximize hearing when the user is still (overwatch, hide spot, stop to listen, etc).

Mission Audio Profile 2: Patrol
High volume with reduced high frequencies to limit sounds such as footsteps on gravel, grass moving under feet, equipment moving on body.

Mission Audio Profile 3: Conversation
Maximizes the frequencies important for face-to-face communications while lowering the frequencies outside of the average speech band.

Mission Audio Profile 4: Comfort
Low volume and narrow frequency response to be used when in noise for long periods of time (tactical vehicle, air transport) where environmental listening is not prioritized over communications and overall comfort.

Mission Audio Profile 5: Silent
Silent mode for communicating in high levels of noise when situational awareness is difficult to achieve.

Advanced level dependent function for environmental listening
NIB offers electronic, headset-to-headset communication with a transmission range of ≈10 m/11 yd from the speaker. There is no limit regarding how many people within that transmission range that can receive the transmission. Up to 4 users within ≈150 m/165 yd can transmit simultaneously using 1 of 4 open slots/channels. Once all 4 channels are active, no one else in the group can transmit until a channel becomes available. If a fifth person tries to transmit, a beeping sound will indicate that the message was not transmitted. This ≈150 m/165 yd range is in an open field (line in sight) and may be reduced by physical structures.
3M™ PELTOR™ Tactical EarPlug, TEP-300

Compact Hearing Protection
3M™ PELTOR™ Tactical Earplugs, features environmental listening function – a capability designed to help provide auditory situational awareness, while still helping provide protection from hazardous noise. It comes with multiple sizes and types of replaceable eartips, designed to help provide hearing protection. The small size makes 3M™ PELTOR™ Tactical Earplug compatible with most headborne Personal Protective Equipment (PPE) such as helmets, eye wear, and respirators.

In Ear Speech Microphone*
The TEP-300 features in-ear, acoustical, speech communications microphones which pick up sound waves from your voice as you speak. This design eliminates the need for a traditional boom microphone, making it easier to use in combination with respiratory equipment.

Portable Charging Case
3M™ PELTOR™ Tactical Earplugs, TEP-300 comes with a pocket-sized storage and charging container, which includes a charging status indicator. It provides up to 16 charges from 3 AA or AAA batteries (with adapter). A USB-C port also enables the charging of the earplugs when plugged into a usb power supply or other power source (cable not included).

*Speech intelligibility, using an in-ear microphone, may vary between different radio models, and from person to person.
3M™ PELTOR™ Tactical EarPlug, TEP-300

Compact Hearing Protection

Operation
Intuitive one-button operation turns unit on, off, and selects volume settings.

Rechargeable
Charging contacts recharge the unit while in the case. Internal earpiece Li-ion battery provides up to 10 hours of continuous operation when fully charged.

Hearing Protection
Replaceable communications eartip helps provide hearing protection in noisy environments. Multiple sizes and types designed to fit most ear canals.

3M™ PELTOR™ Tactical EarPlug, TEP-300

Portable Charging Case

Portable Charging Compartment
Up to 16 recharging cycles with AA batteries.

Sealing Ring
Rubber sealing ring helps protect earplugs and charging case in wet and dirty environments. (IP68)

Environmental Microphone Port
Assists with maintaining auditory awareness while helping minimize wind noise. Additional windscreen accessory available.

IP68 Water and Dust Resistant
Innovative design helps protect earpiece against water and dust ingress.

Near Field Magnetic Induction (NFMI)
Wireless connection to 3M™ PELTOR™ System control Units, SCU-300.

In Ear Speech Microphone
The TEP-300 features an in ear speech microphones which picks up sound waves that come out of your ear as you speak.

Charging Status LED
Led lights indicate charging status.

Micro USB-C Charging Port
USB port enables the charging of the earplugs when plugged into a computer or usb power supply (cable not included).

Earplug Clips
Steel clips help secure earplugs in case.
Dual Protection

In many scenarios, dual hearing protection may be required not only for protection, but to maintain clear communications. The 3M™ PELTOR™ Tactical Modular Audio System is designed to allow for dual hearing protection, to help provide additional attenuation when required. In dual protection mode, incoming audio is routed to the 3M™ PELTOR™ Tactical Earplug TEP-300 speakers, and outgoing transmission through the ComTac™ VII Speech Microphone.

The 3M™ PELTOR™ ComTac™ VII Headset can also be used in combination with passive ear plugs. In this case, situational awareness is maintained by boosting the volume of the environmental listening to help compensate for the additional attenuation provided by the earplugs.
Examples of headset configurations

Modular Design
The Tactical Modular Audio System allows for a multitude of setup options. There are several configuration options to accommodate different protection levels and radio scenarios.

STAND ALONE   WIRELESS / SCU   WIRED / SCU

STAND ALONE   WIRELESS / SCU   WIRELESS / SCU / DUAL PROTECTION
Examples of radio configurations

**SINGLE RADIO, ONE CHANNEL**

- +
- Ch. 1.1

**PTT 1.1**

- Ch. 1.1

**SINGLE RADIO, MULTIPLE RADIO CHANNELS**

- +
- Ch. 1.1

**PTT 1.1**

- Ch. 1.1

**TWO RADIOS, ONE CHANNEL EACH**

- +
- Ch. 1.1

**PTT 1.1**

- Ch. 1.1

**PTT 2.1**

- Ch. 2.1

**MULTIPLE RADIOS, MULTIPLE CHANNELS**

- +
- Ch. 1.1

**PTT 1.1**

- Ch. 1.1

**PTT 2.1**

- Ch. 2.1

**INTERCOM + TWO RADIOS, ONE CHANNEL**

- +
- Ch. 1.1

**PTT 1.1**

- Ch. 1.1

**INTERCOM + TWO RADIOS, MULTIPLE RADIO CHANNELS**

- +
- Ch. 1.1

**PTT 1.1**

- Ch. 1.1

**PTT 1.1**

- Ch. 1.1

**PTT 2.1**

- Ch. 2.1
Technical Specifications

SCU Power:
- Battery Type: 2 x AAA
- Operating time: Approximately 30 hours

RCU Power:
- Battery type: Button cell
- Operating time: Approximately 1600 h

Bluetooth® Technology*:
- Bluetooth version: 4.2
- Bluetooth headset profile (HSP): 1.2
- Bluetooth hands-free profile (HFP): 1.6
- Bluetooth Range: Up to 10m (class 2)
*Only applicable to SCU-300EU WS GE

Near Field Magnetic Induction (NFMI):
- Transmission rate: 596 kbit/s
- Range: Approximately 50 cm
- Frequency: 9.8 - 11.7Mhz

Environmental Characteristics:
- Operating temp: -20 to +55°C
- Shelf Life: 5 years, excluding batteries
- Waterproof Rating: IP68 compliant

Physical Characteristics:
- SCU Size:
  - L: 110mm
  - W: 75mm
  - H: 36mm
- Weight: 218g
- RCU Size:
  - L: 61mm
  - W: 41mm
  - H: 24mm
- RCU Weight: 51g

Recommended Storage Conditions:
- 5 years: In door controlled climate (<90% humidity)

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

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

Standards and Approvals
3M Svenska AB declares that the Bluetooth® headset is in compliance with Directive 2014/53/EU and other appropriate directives 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
Modern military communication radios can have different configurations depending on how it is programmed. Users are advised to connect headsets and SCU to actual radio and configuration being used, in order to test functions and features before purchase.

### 3M™ PELTOR™ System Control Unit, SCU-300

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### Accessories & Spare parts - SCU-300

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* Modern military communication radios can have different configurations depending on how it is programmed. Users are advised to connect headsets and SCU to actual radio and configuration being used, in order to test functions and features before purchase.
3M™ PELTOR™ ComTac™ VII Headset

Performance Specifications & Ordering Information

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)

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

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

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

Laboratory Attenuation Values ***

**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 workplace protection.**

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<thead>
<tr>
<th>Frequency (Hz) ³</th>
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<th>MT14H41A-300EU CY with Gel rings (HY80-EU)</th>
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SNR=29 dB H=34 dB M=26 dB L=18 dB

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## Accessories & Spare parts - ComTac VII

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## Models - 3M™ PELTOR™ ComTac™ VII

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3M™ PELTOR™ Tactical EarPlug, TEP-300

Performance Specifications & Ordering Information

Technical Specifications

Speech Microphone Type:
- In Ear

Power / Electrical Characteristics:
- Earplug Battery Type: Lithium Ion
- Operating time: Approximately 10 hours
- Earplug Battery Charge Time: Approximately 60 minutes
- Case Battery Type: 3 AA or AAA Alkaline Batteries (with adapter)
- Case Battery Life: Up to 16 recharging cycles with AA batteries
- Case USB Type: Micro C 3.1

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

Physical Characteristics:
- Case Size (L x W x H): 114.2 mm x 78.2 mm x 29 mm
- Case Material: ABS
- Weight Charger with batteries, 2 earpieces: 188 g
- Weight Charger: 104 g
- Weight 1 earplug: 4.7 g

Environmental Characteristics:
- Earpiece operating temp: -20 to +50°C
- Charger operating temp: 0 to +45°C
- Shelf Life: Max 12 months
- Waterproof Rating: Earpiece and Case (with lid and USB port securely closed) are IP68 compliant

Recommended Storage Conditions (≤90% humidity):
- 1 year: -20 to +20°C
- 3 months: -20 to +45°C
- 1 month: -20 to +60°C

Military Approvals

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

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

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

Laboratory Attenuation Values*** EN 352-2:2002

3M™ PELTOR™ CCC-GRM-25 Communication Eartips

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3M™ Torque™ Communication Eartips

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3M™ UltraFit™ Communication Eartips

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Laboratory Attenuation Values*** EN 352-2:2002

3M™ PELTOR™ CCC-GRM-25 Communication Eartips

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3M™ UltraFit™ Communication Eartips

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***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 workplace protection.
## Models - 3M™ PELTOR™ TEP-300

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## Accessories & Spare parts - TEP-300

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<td>TEP-300C GE</td>
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Shoot, move and communicate.
To be an effective combat unit, each team member must be able to shoot, move and communicate seamlessly in chaotic environments. Communication being of the utmost importance.
CAUTION:
When worn according to these User Instructions, these hearing protectors help 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.