3M Safety Solutions for Law Enforcement

You Protect Us. We Protect You.

3M | PELTOR™
3M | SCOTT
3M | Ceradyne, Inc. a 3M company
We strive to set the standard for confidence and trust in protective gear by providing rugged and reliable equipment. Today, thousands of our protection solutions are fielded within the Department of Defense, Department of Justice, Department of Homeland Security, and across U.S. state and local agencies.

Fueled by 3M innovation and technology – our protection solutions are designed to meet or exceed the unique protection requirements for law enforcement. Our extensive R&D and “voice of customer” have led to integrated solutions that are comfortable to wear for extended periods and help improve overall mission safety.

You protect us. We thank you by designing and supplying protective equipment that helps protect you.
Personal Protective Equipment
Special Response Teams

Today’s mission for Special Response Teams has changed — the reactions are quicker, the calls more urgent, the dangers greater. Whether serving high-risk arrest warrants, performing counter-terrorism tasks, or engaging in other activities where threat is ever-present, officers must be protected, connected and comfortable.

Tactical Operations
Counter-Terrorism
Hostage Rescue
Sniper Teams
Serving High-Risk Arrest Warrants
Narcotics Search, Sweep, and Seizure

Critical Response
Active Shooter Response
Mobile Field Force
Crowd Control and Dispersal
Mass-Arrest
High-Visibility Law Enforcement Presence
Security Operations
Protecting Critical Facilities

Firearms Training
MOOUT Operations
Close Quarters Combat
High Threat Close Protection
Instructor/Student Communications
Advanced Law Enforcement Rifle
Hazard Assessment.
The threats today’s law enforcement industries personnel face are more dangerous than ever. You need gear engineered for tomorrow, not yesterday.

Hearing

**Weapon fire**
Sharp bursts of impulse noise at close range

**Noise Flash Diversionary Devices**
Sudden impact noise from devices, such as a flash bangs, stun grenades or sound bombs, that can temporarily disorient the senses

**Distracting Noise**
Loud, surrounding noise that prevents or interrupts team communication and situational awareness

Eye

**Flying Objects**
Vision impairment from fragments, rocks, sand dust, and dirt

**Sun**
UV exposure and vision impediment due to sun and glare

**Fogging**
Water droplets form condensation and fog due to heat and humidity, ultimately blocking vision
Hazzard Assessment.
The threats today’s law enforcement industries personnel face are more dangerous than ever. You need gear engineered for tomorrow, not yesterday.

**Head**

<table>
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<tr>
<th>Firearms</th>
<th>Ballistic threats from small weapons fire</th>
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<tr>
<td>Explosions</td>
<td>Ballistic fragmentation from explosive devices</td>
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<tr>
<td>Blunt Impacts</td>
<td>Blunt-force impacts from falls, objects, and weapons</td>
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**Respiratory**

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<th>Nonlethal Deterrents</th>
<th>Deployment of non-lethal deterrents such as tear gas and pepper spray</th>
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<tr>
<td>CBRN</td>
<td>Chemical, Biological, Radiological, and Nuclear agents which have the potential to be released during acts of terrorism as well as toxic industrial chemicals/materials (TICS/TIMS)</td>
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<tr>
<td>Exposure to Opioids</td>
<td>Incident response teams responding to a release or spill, and/or law enforcement officers executing search warrants on opioid processing or distribution sites</td>
</tr>
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Tactical Communications

Advanced Hearing Protection

Eye Protection
3M™ PELTOR™ Advanced Hearing Protection Devices (HPD)

3M HPDs are tested in accordance to ANSI S3.19-1974 – the current testing requirement for hearing protective device labeling. According to Environmental Protection Agency (EPA) regulations (in the United States).

The Noise Reduction Rating (NRR) is a description of how much noise reduction was measured in a laboratory test. OSHA specifies that the NRR may be used to determine whether a particular hearing protector provides adequate protection within a given noise exposure. It is becoming generally recognized that the best way to ensure the adequacy of a hearing protector for any specific worker is to conduct fit testing to confirm that the expected level of attenuation is achieved.

Additionally, 3M tests its tactical products in accordance with ANSI S12.42-2010 for impulse noise. This additional testing helps 3M assess their products for tactical use, where impulse noise hazards are common.

To learn more about the noise reduction rating and how to tell if the protection provided is adequate, properly used, and maintained please visit our Center for Hearing Conservation at: www.3M.com/chc

When only blocking harmful noise is not enough...

Select 3M PELTOR products have an environmental listening feature for auditory situational awareness and face-to-face communications. Environmental Listening is a means of allowing safe audio sounds to bypass the individual hearing protection while still protecting against harmful noises. This is accomplished with a proprietary digital audio circuit integrated into the headset.

A microphone receives the sounds outside the headset and transmits them to a speaker inside the headset. The level-dependent digital audio circuit senses noise levels above the desired threshold and compresses them to a safe decibel level or amplifies weak sounds to an audible level.
3M™ PELTOR™ Law Enforcement Solutions

Noise Reduction Rating Reference Sheet

Help your officers make the most of the hearing protection devices (HPDs) they wear by verifying that the noise reduction provided is adequate and that the HPDs are properly used, maintained and replaced. To learn more visit our Center for Hearing Conservation at: www.3M.com/chc

<table>
<thead>
<tr>
<th>3M PELTOR COMTAC 3</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Headband, gel cushion</td>
<td>NRR 20 (db)</td>
</tr>
<tr>
<td>Headband, standard foam ear cushion</td>
<td>NRR 23 (db)</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>3M PELTOR COMTAC 4 with 3M earplugs</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Ultrafit™</td>
<td>NRR 18 (db)</td>
</tr>
<tr>
<td>CCC™</td>
<td>NRR 25 (db)</td>
</tr>
<tr>
<td>Skull Screw™</td>
<td>NRR: 29 (db)</td>
</tr>
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</table>

<table>
<thead>
<tr>
<th>3M PELTOR TEP-100 with 3M earplugs</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Ultrafit™</td>
<td>NRR 23 (db)</td>
</tr>
<tr>
<td>CCC™</td>
<td>NRR 27 (db)</td>
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<table>
<thead>
<tr>
<th>3M PELTOR Tactical Sport</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Headband, standard foam cushion</td>
<td>NRR 20 (db)</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>3M PELTOR LiteCom Plus</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>Headband, standard foam cushion</td>
<td>NRR 25 (db)</td>
</tr>
<tr>
<td>Neckband, standard foam cushion</td>
<td>NRR 26 (db)</td>
</tr>
</tbody>
</table>

When worn according to the User Instructions, hearing protector help reduce exposure to both continuous noises, such as industrial noises and noises from vehicles the required and/or actual hearing protection obtained during exposure to impulse use of hearing protection, proper care of hearing protection, and other variables will hearing problem, your hearing may be at risk. To learn more about hearing protection for impulse noise, visit www.3M.com/hearing.

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 factors including variation in earplug fit, and earplug fitting skill and motivation of the user. If the NRR is used to estimate typical workplace protection, 3M recommends that the NRR be reduced by 50% or in accordance with applicable regulations.
3M™ PELTOR™ COMTAC/SWAT-TAC 3 Tactical Communication Headset

PELTOR COMTAC 3 Salient Features
- Environmental Listening
- Steady-State and Impulse Noise Protection
- Two-Way Radio or ICS Communications

3M™ PELTOR™ COMTAC Tactical Communication Headsets meet the single hearing protection requirement listed in DA PAM 40-501 Army Hearing Conservation Program 2015 for both steady-state and impulse noise

Configurations
- COMMS: Hearing Defender, Single and Dual COMM
- Colors: Black, OD Green, Coyote Brown
- Ear Cushions: Standard or Gel
- Suspensions: Headband, Back Band and Rail Attachment

Ambidextrous Boom Mic
- Noise-canceling boom mic (that can be mounted on either left or right side by operator)
- Boom angled to minimize interference with helmet and peripheral vision

Batteries & Fail Safe
- 2 AAA Batteries that provide ~500 hours of battery life
- External communications and Environmental Listening functions are independent for Rx/Tx fail safe. In the unlikely event of electronic failure or battery depletion, external device communications will continue to function

Environmental & EMI
- Tested in accordance with MIL-STD-810F
- Tested in accordance with MIL-STD-461E: CS114, RE101, RE-102-4, RS101, and RS103 requirements
For our Law Enforcement customers, 3M has packaged several turn-key kits of our most popular configurations, for easy ordering and issuing. Each Kit includes the corresponding Push-to-Talk (PTT) adapter, batteries, carry bag, and gel ear cushions.

<table>
<thead>
<tr>
<th>P/N</th>
<th>COMM</th>
<th>Color</th>
<th>Band</th>
<th>Cushion</th>
<th>Radio</th>
<th>PTT</th>
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<tbody>
<tr>
<td>88063-00000</td>
<td>SINGLE</td>
<td>Black</td>
<td>Headband</td>
<td>Gel</td>
<td>XTS Series</td>
<td>FL5018-02</td>
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<tr>
<td>88063-B</td>
<td>SINGLE</td>
<td>Black</td>
<td>Backband</td>
<td>Gel</td>
<td>XTS Series</td>
<td>FL5018-02</td>
</tr>
<tr>
<td>88063-ARC</td>
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<tr>
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<td>Headband</td>
<td>Gel</td>
<td>HT Series</td>
<td>FL5030-02</td>
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<tr>
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<td>Black</td>
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</tr>
<tr>
<td>88068-00000</td>
<td>SINGLE</td>
<td>Black</td>
<td>Headband</td>
<td>Gel</td>
<td>APX Series</td>
<td>FL5063-02</td>
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<tr>
<td>88068-B</td>
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<td>Backband</td>
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</tr>
</tbody>
</table>

3M PELTOR 5000 Series Push-to-Talk Adapters

- PTT’s are designed to fit the size and shape of either hand
- PTT’s can be used with a gloved hand
- Designed to reduce accidental activation
- U-174 Headset Connection serves as a break-away connector for removal in emergency situations

3M PELTOR Gel Ear Cushions

For end users where comfort is paramount, 3M offers gel ear cushions as an option for our headsets, and comes standard in our kits. The gel ear cushions are excellent for long term wear and use with eye protection, to help alleviate potential pressure points. 3M advises that there is typically a 1-3db loss when gel ear cushions are used.
3M™ PELTOR™ COMTAC 4
Hybrid Tactical Communication Headset

3M™ PELTOR™ COMTAC 4 was designed as a hybrid options for end users that desired an “in-ear” hearing protector, but the advantages of the COMTAC 3 architecture. The result, is this lighter weight head-borne system that helps relieve common issues around in-ear communication headsets such as snag hazards, ear canal stress, ear plug dislodging, and head movement restrictions.

3M PELTOR COMTAC 4 Salient Features
• Environmental Listening
• Steady-State and Impulse Noise Protection
• Two-Way Radio or ICS Communications

3M™ PELTOR™ COMTAC Tactical Communication Headsets meet the single hearing protection requirement listed in DA PAM 40-501 Army Hearing Conservation Program 2015 for both steady-state and impulse noise

Configurations
• COMMS: Single and Dual COMM
• Colors: Coyote Brown
• Ear Cushions: Gel
• Suspensions: Headband

Ambidextrous Boom Mic
• Noise-canceling boom mic (that can be mounted on either left or right side by operator)
• Boom angled to minimize interference with helmet and peripheral vision

Batteries & Fail Safe
• 2 AAA Batteries that provide ~250 hours of battery life
• External communications and Environmental Listening functions are independent for Rx/Tx fail safe. In the unlikely event of electronic failure or battery depletion, external device communications will continue to function

Environmental & EMI
• Tested in accordance with MIL-STD-810F
• Tested in accordance with MIL-STD-461E: CS114, RE101, RE-102-4, RS101, and RS103 requirements

COMTAC 4– Single COMM
MT16H044FB-47 CY
3M™ PELTOR™ TEP-100
Tactical Ear Plugs

3M PELTOR TEP-100 Salient Features

• Environmental Listening
• Steady-State and Impulse Noise Protection

3M™ PELTOR™ Tactical Ear Plugs meet the single hearing protection requirement listed in DA PAM 40-501 Army Hearing Conservation Program 2015 for both steady-state and impulse noise

Rechargeable:
Charging contacts recharge the unit while in the case. Li-ion battery provides up to 16 hours of continuous operation

Button:
Intuitive one-button operation turns unit on, off, and selects volume settings

Microphone Cover:
Replaceable foam windscreens helps minimize wind noise

Waterproof (IP67):
Innovative design helps protect microphone against dust and water ingress

Design:
Corner radius designed to help soften contact zone and increase comfort

Cord Connection:
Attachment point for optional earpiece retention cord. (included)

Portable Charging Case:
Up to 16 charges from 3 AA alkaline batteries. Retention Cord Storage Posts

Micro B USB Charging Port:
USB port for charging earpieces. (cord not included)
3M™ PELTOR™ Tactical Sport Electronic Hearing Protection

3M PELTOR Tactical Sport Salient Features
• Environmental Listening
• Steady-State and Impulse Noise Protection

The Tactical Sport Hearing Protector electronic earmuff uses a proprietary integrated circuit for a refined audio reproduction. It gives users fast shutoff and recovery time while helping protect hearing from harmful impulse noises, such as gunfire. Sound amplification allows the user to hear low-level sounds, including range commands and conversation.

• ASIC chip technology for a refined audio reproduction
• Audio jack for external components such as cell phones, MP3 players and dog trackers
• External battery compartment for convenient access
• Powered by 2 AAA batteries
• ~600 hours of battery life, includes auto shutoff feature
• Designed for all-day comfort
• Ergonomically designed, contoured ear cups
The 3M™ PELTOR™, all-in-one two-way radio headset allows two-way conversation on up to 30 channels and has a range of up to 9,500 feet. Level dependent listening of ambient sound ensures you are not isolated from your surroundings, helping you to still hear signals and voices.

**3M PELTOR LiteCom Plus Salient Features**

- Environmental Listening
- Steady-State and Impulse Noise Protection
- 30 pre-programmed channels and 121 sub-channel settings
- Ghost voice menu prompts for easy mode selections
- Operates on Lithium Ion rechargeable battery pack
- Push-to-Talk (PTT) or hands-free Voice-Activated (VOX) transmit functions
- FCC Narrow band mandate compliant
- Environmental microphones on each earcup offer level-dependent function for situational awareness
- Environmental microphone amplification limited to 82 dBA
- Operates on communications frequencies that are subject to FCC Rules & Regulations
3M™ PELTOR™ Tactical Eye Protection

3M Eye Protection products are tested to ANSI Z87.1 for Occupational Eye and Face Protection Devices. 3M tests (and marks) its ballistic eye protection to Impact: “Z87+” for high-velocity impact (in the United States).

Per ANSI Z87.1-2015 Impact Requirements:
• HIGH VELOCITY IMPACT: 0.25 in. @ 150 ft/s and 0.24 in. @ 167 ft/s
• HIGH MASS IMPACT: 500 g pointed projectile dropped from 50 inches

Additionally, 3M tests its Tactical Eye Protection to the class 1 ballistic fragmentation protection of MIL-PRF-32432.* The U.S. military standard requires that ballistic eyewear must be able to stop a .15 caliber chisel tip projectile at 640-660 ft/sec for spectacles. *These products are not currently listed on any QPL or QML program.

3M Technologies for Performance and Comfort

3M™ Scotchgard™ Anti-Fog Coating
In some environments prone to fogging, tiny water droplets form on the lens, and fog, making it more difficult for you to see clearly. Our coating causes these droplets to flatten out forming a thin film that allows light to pass through.

• Scotchgard™ Anti-Fog Coating lasts longer than traditional anti-fog coatings*
• Remains effective for multiple 60 second cycles when tested according to EN 166/168
• The coating is bonded to the lens, allowing it to last for at least 25 washings with water.

Pressure Diffusion Technology
Self-adjusting spectacle with 3M’s proprietary Pressure Diffusion Temple Technology, designed with no moving parts and nothing to adjust to relieve pressure over the ears featured in 3M’s SecureFit™ Eye Protection

* Based on 3M internal testing per EN168 test method when compared with traditional anti-fog coatings
3M™ SecureFit™ Protective Eyewear 600 Tactical Series

3M™ SecureFit™ Protective Eyewear 600 Tactical Series takes 3M’s leading edge technologies and applies them to safety eye protection.

3M advancements in high performance protective eyewear, re-evaluates traditional concepts of form, fit, and function – leading to a comfortable, high performance spectacle.

3M™ Pressure Diffusion Temple
Helps remains securely in place as the wearer looks up and down or side to side – reducing the need for frequent repositioning of the glasses due to head movement.

Optional, Removable Foam Gasket
Helps keep debris out of your eyes while providing comfort and cushioning.

Durable Polycarbonate Lens
Absorbs 99.9% of UVA and UVB rays and meet the requirements of ANSI Z87.1-2015 Standard as an Impact Rated spectacle.

Scotchgard™ Anti-fog Coating
Retains its effectiveness for at least 25 washings with water†
† Based on 3M internal testing of tap water wash cycles followed by anti-fog testing per EN168 test method.

Lightweight weighs less than 1oz (without gasket)

Tested to the requirements of MIL-PRF-32432*
– 4.4.3.3.4 Ballistic fragmentation protection, class 1. (0.15 caliber, 5.85 (± 0.15) grain, T37 shaped projectile at 640 to 660 ft./sec at normal incidence. *This product is not currently listed on any QPL or QML program.

SF601SGAF-TAC
SF602SGAF-TAC
SF603SGAF-TAC
3M™ SecureFit™ Protective Eyewear
600 Tactical Series

3M is excited to introduce the new 3M™ SecureFit™ Tactical Series SF613AS-TAC, Photochromic Spectacle.

Photochromic lens darkens when exposed to UV light outdoors, and lightens when removed from UV exposure indoors. The SF613AS-TAC applies 3M’s Rugged Anti-Scratch (RAS) coating to help extend the life of the lens.

Changes from Dark to Clear for Indoor Use

Changes from Clear to Dark to reduce sun glare

Tested to the requirements of MIL-PRF-32432*
- 4.4.3.3.4 Ballistic fragmentation protection, class 1.
(0.15 caliber, 5.85 (± 0.15) grain, T37 shaped projectile at 640 to 660 ft./sec at normal incidence
*This product is not currently listed on any QPL or QML program

Durable Polycarbonate Lens
Absorbs 99.9% of UVA and UVB rays and meet the requirements of ANSI Z87.1-2015 Standard as an Impact Rated spectacle

3M™ Pressure Diffusion Temple
Helps remains securely in place as the wearer looks up and down or side to side – reducing the need for frequent repositioning of the glasses due to head movement
3M™ Ballistic Helmet Solutions

Ballistic, NIJ-IIIa Helmets
3M Ballistic Helmets are tested in accordance to NIJ Standard 0106.01 for Ballistic Helmets to NIJ 0108.01 IIIA Ballistic Resistance.

Per the standard, the helmets are tested against:
- 9mm FMJ - 124gr – 1400-1450 ft/sec - (Vo)
- .44 Magnum - 240gr – 1400-1450 ft/sec - (Vo)

Ballistic Fragmentation
STANAG 2920 (Ballistic test method for personal armor materials and combat clothing) is used to measure materials ability to stop fragments and shrapnel. The V50 test is the internationally recognized standard for assessing the fragmentation resistance of personal protection. 3M Ballistic Helmets tested for ballistic fragmentation meet or exceed .22 Caliber - 17 gr FSP V-50 at various specified velocities.

Blunt Impact Protection
3M is partnered with D3O® Labs in integrating their shock absorbing, rate sensitive materials with our ballistic solutions.

All helmets that are integrated with D3O® Trust Pad System to are tested and evaluated DOT&E protocol in accordance with AR/PD 10-02, AR/PD 14-01 and GL/PD 09-04 (Latest versions).

How D3O® technologies work
D3O® materials are made using a combination of advanced polymer chemistry and cutting-edge design. The materials are soft and flexible, with no compromise on comfort, but react differently when force is applied.

D3O® absorbs and dissipates energy during an impact, reducing the amount of force transmitted to your body compared to standard foams.
The N49 is a NIJ-IIIA Ballistic Helmet at ~1.27lb finished shell weight, making it one of the lightest ballistic helmets available in the market today. The special operations helmet is engineered to provide outstanding ballistic and bump head protection – while reducing weight for improved mobility.

**Ultra-High Molecular Weight Polyethylene (UHMWPE) & Seamless Molding**
Proprietary precision molding of composite materials incorporating ultra high strength polymeric fibers (such as UHMWPE) to provide a lighter helmet with increased ballistic protection.

**Salient Features**
- ~1.27lb Finished Shell Weight (Size Large)
- Boltless Reverse Dovetail Slot Accessory Rail
- Removable Picatinny Adapter
- Rail Provisions for NVG Counterweight and O2 Respirator
- NVG Shroud with Bungee Cords
- Adjustable Retention Systems
- 3 Sizes (S/M – L – XL)
- 3 Color Options (Brown, Black, Green)

**Ballistic, NIJ-IIIA Helmet**
Tested in accordance to NIJ Standard 0106.01 for Ballistic Helmets to the following NIJ 0108.01 IIIA Ballistic Resistance

**Blunt Impact Protection**
Test and evaluated with D3O® Trust Pad System to DOT&E protocol in accordance with AR/PD 10-02, AR/PD 14-01 and GL/PD 09-04 (Latest versions)

**Ballistic Fragmentation**
Tested in accordance with STANAG 2920 .
22 Caliber - 17 gr FSP V-50 ~670 meters/sec
3M™ Ballistic Helmets: Charlie (C) Series

Combat Ballistic Helmet C105
Combat High Cut Ballistic Helmet C105HC

3M Charlie Series helmets are multi-mission NIJ-IIIA ballistic helmets that will support various operations that require ballistic and blunt impact protection. Manufactured utilizing advanced thermoplastic aramid and glass fabric composites, this proven, tactical helmet is designed to provide multiple levels of head protection. The helmets are tested to 3 levels of protection: Ballistic, Ballistic Fragmentation and Blunt Impact. The helmet is offered in a standard MICH cut and Tactical High Cut.

Salient Features
- Optional Reverse Dovetail Slot Accessory Rail
- Optional NVG Shroud with Bungee Cords
- Choice of two Adjustable Retention Systems
- 4 Sizes (S – M – L – XL)
- 3 Color Options (Brown, Black, Green)

Ballistic, NIJ-IIIA Helmet
Tested in accordance to NIJ Standard 0106.01 for Ballistic Helmets to the following NIJ 0108.01 IIIA Ballistic Resistance

Blunt Impact Protection
Tested in accordance with STANAG 2920.
22 Caliber - 17 gr FSP V-50 ~650 meters/sec

Weight:
C105HC: ~2.4lb Finished Shell Weight (Size Large)
C105: ~3.1lb Finished Shell Weight (Size Large)

Ballistic Fragmentation
Tested in accordance with STANAG 2920.
22 Caliber - 17 gr FSP V-50 ~650 meters/sec

Weight:
C105HC: ~2.4lb Finished Shell Weight (Size Large)
C105: ~3.1lb Finished Shell Weight (Size Large)
The 3M BA3A Ballistic Helmet will support an agency’s critical response operations that require easy logistical implementation and cost sensitive budgets for mobile field force operations, active shooter situations, and security operations.

The helmet is offered in the traditional PASGT style and in one size to support easy fielding, with 3M’s proprietary “Comfort” integrated retention/suspension or “Ratchet Style” system.

Ballistic, NIJ-III A Helmet
Tested in accordance to NIJ Standard 0106.01 for Ballistic Helmets to the following NIJ 0108.01 IIIA Ballistic Resistance

SINGLE SIZE HELMET:
Size Range 6.” to 7 7/8.”. A comfortable, fully adjustable sizing system accommodates S to XL

~2.8lb Finished Shell Weight (PASGT)

- Thermoplastic Aramid and Glass Fabric Composite Solution
- 2 Color Options (Black, Green)
The new 3M L110 provides the next-generation helmet protection sought by global military and law enforcement. It delivers small arms and rifle protection at a light weight.

**High Velocity Rifle Round Protection**
Protects from 7.62 x 51 mm M80 NATO ball round with V50 ballistic limit value >2,460 f/s (>750 m/s)
• Meets or exceeds NIJ IIIA ballistic penetration protection standards (9mm)

**Ballistic Fragmentation**
Meets minimum of 3281 f/s (1000 m/s) V-50 for 22-caliber 17 grain FSP, STANAG 2920

**Surpasses NIJ-III A Helmet Requirements**
Exceeds NIJ IIIA ballistic penetration protection standards (9mm) and significantly exceeds ACH standard for 2mm, 4mm, 16mm and 64mm right circular cylinder (RCC) fragments
# 3M™ Ballistic Helmet

## Comparison Table

<table>
<thead>
<tr>
<th>Product Name</th>
<th>3M™ Combat II Ballistic</th>
<th>3M™ Ultra Light Weight Ballistic Bump</th>
<th>3M™ Combat High Cut Ballistic Helmet</th>
<th>3M™ Combat Ballistic</th>
<th>3M™ Law Enforcement Ballistic</th>
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</thead>
<tbody>
<tr>
<td>Helmet Series</td>
<td>Lima (L) Series</td>
<td>November (N) Series</td>
<td>Charlie (C) Series</td>
<td>Bravo (B) Series</td>
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<tr>
<td>Helmet Cut</td>
<td>MICH</td>
<td>High</td>
<td>High</td>
<td>MICH</td>
<td>Full</td>
</tr>
<tr>
<td>NIJ IIIA</td>
<td>ü</td>
<td>ü</td>
<td>ü</td>
<td>ü</td>
<td>ü</td>
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<tr>
<td>17 grain/1.1 FSP (V50)</td>
<td>&gt;3280 f/s, &gt;1000 m/s</td>
<td>2200 f/s, 670 m/s</td>
<td>2134 f/s, 550 m/s</td>
<td>2134 f/s, 650 m/s</td>
<td>NA</td>
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<tr>
<td>9mm BFD (1400 f/s, 427 m/s) (ACH)</td>
<td>&lt;25.4 mm</td>
<td>NA</td>
<td>NA</td>
<td>NA</td>
<td>NA</td>
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<td>Small arms projectiles 7.62x51mm FMJ (147 gr. NATO M80 ball round) V50</td>
<td>&gt;2,460 f/s (&gt;750 m/s)</td>
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<td>NA</td>
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<tr>
<td>Small arms projectiles 7.62x51mm FMJ (147 gr. NATO M80 ball round) V0</td>
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<td>Complete Weight size L (g)*</td>
<td>1500 (3.31 lbs)</td>
<td>785 (1.73 lbs)</td>
<td>1355 (2.99 lbs)</td>
<td>1485 (3.27 lbs)</td>
<td>1320 (2.91 lbs)</td>
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<tr>
<td>*Weight Includes</td>
<td>Shell, suspension, retention</td>
<td>Shell, suspension, retention</td>
<td>Shell, suspension, retention</td>
<td>Shell, suspension, retention</td>
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</table>
Integrated Solution. Designed to Fit. Tested as a System.

What that means for you

Heat Relief
- The ability to have an “open” position of the headset allows the user to ventilate in high heat environments with continued monitoring capability for communications in low noise environments.

Removed Pressure Points
- Use of 3M™ PELTOR™ ARC headset attachment and thin flexible 3M™ SecureFit™ Protective Eyewear temples help relieve known pressure points.

Stability & Balance
- In the “closed” position, the ear cups will compress against the head providing additional stability for full head movement.

Easy Donning/Doffing
- In the “open” position, the operator can easily don/doff the helmet/headset, adjust for proper fit.

Tested as a System
- 3M™ PELTOR™ ARC Configuration Hearing Protection Tested in accordance to ANSI S3.19-1974 with the 3M Ballistic High Cut Helmets.
- Blunt Impact testing with D3O® Trust Helmet Pad System.
Respiratory Solutions
3M™ Scott Chemical, Biological, Radiological and Nuclear (CBRN) Respiratory Solutions

3M Scott Safety Solutions for Law Enforcement are offered with a filter that is certified by The National Institute for Occupational Safety and Health (NIOSH) for CBRN applications.

NIOSH has developed CBRN respirator standards for air purifying respirators (APR), air purifying escape respirators (APER), powered air purifying respirators (PAPR), and self contained breathing apparatus (SCBA).

The driving force behind development of these standards came from the first responder communities’ concern that industrial respiratory protection standards did not meet their specific needs. NIOSH entered into a Memorandum of Understanding (MOU) with the National Institute for Standards and Technology (NIST), the Occupational Safety and Health Administration (OSHA), and the National Fire Protection Association (NFPA) to work on the development of standards for all types of first response and counter-terrorism respiratory protective equipment.

Our foundation is our technologies.
Our mission is expanding your capabilities.

Filtration technology allows for protection from CBRN CAP-1 agents and low inhalation resistance in a simple-to-change filter mechanism.

Face Seal
Patented technologies to promote a comfortable, reliable face seal.

Top Down Convertibility
Provide the user a choice between supplied or filtered air via the combined use of an SCBA and a PAPR and/or an APR via use of adapters.

Corrective Vision
Corrective vision capability, including progressive lenses.

Communications
Voice projection with respiratory protection equipment.
3M™ Scott Safety
First Responder Respirator (FRR)

MORE THAN A RESPIRATOR, A SUITE OF TECHNOLOGIES

Ergonomic design and filter mounting on either side of the mask to accommodate weapons sighting

Options
- Voice Projection Unit (VPU)
- Out-certs for lens
- Vision correction capability that includes the use of progressive (vari-focal) lenses

Built in drinking port for hydration

NIOSH approved with DIN 40mm cartridges

What makes the FRR Design Unique?
The FRR is designed with a series of features and capabilities help protect an operator from respiratory hazards, promotes proper fit, and helps provide low breathing resistances while remaining comfortable for long duration wear.

Protection
The main body of the respirator itself utilizes a twin seal design that helps minimize inward leakage and a patented secondary filter system helps provide protection against biological and nuclear/radiological material threats is incorporated into an internal oro-nasal inner mask (“mask within a respirator”) module.

Fit
Both the main respirator body and the secondary inner mask come in 4 different sizes each that can be combined. The 6-point respirator harness is designed for stability and the top 4 straps are outfitted with adjustable stops that can be set to lock the harness buckles after fit testing. Both the main body and the secondary inner mask come in 4 different sizes each that can yield up to 10 combinations.

Breathability & Comfort
The twin exhalation valve cartridge design provides a clean airlock with an efficient modular design that help reduce breathing resistance. Additionally, the secondary filter provides the unique capability of automatically removing sweat away from the respirator.
The lightweight, low profile M110 Dual Lens Face-piece is suitable for first responders and other tactical personnel in both CBRN and other air-purifying applications. The respirator is shipped ready-to-deploy and is simple to disinfect, decontaminate and maintain.

The bi-ocular lens provides excellent downward, horizontal and peripheral vision and allows for proper weapon sighting. This type of lens also allows the face-piece to be folded flat for easy storage.

A two-piece construction of halo butyl, elastomer for the face-piece and a silicone nose cup designed to provide comfort to the user and permeation resistance to a wide range of toxic materials and Chemical, Biological, Radiological and Nuclear (CBRN) agents.

Other Salient Features
- NIOSH CBRN approved with CBRN Cap-1 Canister for APR
- NIOSH approved with additional DIN 40mm cartridges for non-CBRN respiratory needs
- Lightweight, comfortable and ergonomically designed
- Easy disinfection, decontamination and maintenance
- Hard-coated, impact-resistant polyamide lens resists scratching
- Dual DIN 40mm canister ports allow filters to be mounted on the left or right
The M120 respirator is engineered for comfort and permeation resistance to a wide variety of toxic materials and Chemical, Biological, Radiological and Nuclear (CBRN) agents. When paired with other DIN 40mm cartridges, the M120 can be used for a range of law enforcement operations. This respirator offers APR and PAPR protections, from CBRN to riot control to HAZMAT response. The M120 contoured sealing edge provides a slim design that is easy to integrated with police helmets and visors.

Other Salient Features

- NIOSH CBRN approved with Cap-1 Canister for APR and PAPR
- Speech diaphragm for personal communication
- Lightweight, comfortable, and ergonomically designed
- Easy disinfection, decontamination and maintenance
- Hard-coated, impact-resistant polyamide lens resists scratching
- Dual DIN 40mm canister ports allow filters to be mounted on the left or right
- Optional corrective vision eyeglass kit
AV-3000 HT is a Full Facepiece Respirator approved to NIOSH Chemical Biological Radiological Nuclear (CBRN) requirements – designed for first responder applications commonly found in law enforcement and emergency response environments.

Other Salient Features
- Single solution for all of your NIOSH, CBRN and NFPA–approved applications
- NIOSH CBRN approved with Cap-1 Canister for APR and PAPR
- Approved to the challenging requirements set forth in NFPA 1981, 2013 Edition
- Corrective Vision Eyeglass Kit

What is Reverse Reflex Technology?
The AV3000 HT has a five-point head harness coupled with patented reverse reflex technology. Reverse reflex technology utilizes a u-shaped seal that allows the respirator to flex with the user’s movements. This promote a comfortable and reliable face seal.
3M™ Scott Safety
C420 CBRN Powered Air Purifying Respirator (PAPR)

The C420 Plus PAPR is designed for use in demanding CBRN environments that require a dependable, powered air purifying respirator. The PAPR blower is EMI shielded to Mil-STD-461C to help prevent interference with radio communications. It is protected from water and dust damage, and can be easily decontaminated. The C420 Plus PAPR is suitable for law enforcement agencies and first responders who require respiratory protection over an extended period of time.

Flexible breathing tube does not restrict head movement
Simple, easy-to-use, on/off toggle switch
Uses two 40mm Connection filters
LiSO2 battery with a 10–year shelf life (optional NiMH rechargeable battery is also available)

Other Salient Features
• NIOSH CBRN approved with AV3000 HT and M120 Respirators
• Comes standard with a lithium sulfur dioxide (LiSO2) BA 5800 battery pack. This battery has a run time of up to eight hours and a 10-year shelf life. A rechargeable, NIOSH approved, nickel metal hydride (NiMH) battery is also available
3M™ Scott Safety
Air-Pak Self Contained Breathing Apparatus (SCBA)

With a record of reliable performance and rugged dependability, Air-Pak SCBAs have earned the confidence and trust of first responders.

**Comfort**
Back-frames are constructed of a lightweight, durable aluminum alloy designed to follow the back’s contour and places the bulk of the SCBA’s weight on the hips, where the fully padded waist belt provides comfortable support to the use.

**Redundancy**
The Air-Pak features a unique dual-redundant pressure reducer. Unlike all other SCBAs, the X3 provides two pressure reducers in one, interconnected through an automatic transfer valve. A reduction in primary pressure would trigger an automatic transfer to the secondary circuit.

**Breathability**
The breathing circuit responds rapidly and efficiently to the user’s demand for air, making it easier to breathe, especially during periods of peak physical performance by reducing inhalation and exhalation resistance to minimize user fatigue.

**Ease of Use**
Simple-to-use and easy-to-understand SCBA that requires less training, increases operational efficiencies, and reduces training costs.

**Low Cost of Ownership**
Rugged design, assembly and warranty policy reduces long-term maintenance costs.
**3M™ Scott Safety**

**Top Down Convertibility**
Scott’s Top Down Convertibility allows a single facepiece, thus a single fit-test, to be used for Air-Purifying, Supplied Air, SCBA and Powered Air-Purifying Respirators helping reduce overall cost of ownership.

**EPIC Communication**
Small-profile, simple-to-use voice projection device that transmits strong, clear and crisp voice communications to others nearby. Contained in a sleek, streamlined package housing, the stand-alone EPIC Voice Amplifier permits hands-free communications.

**Scott Sight™**
Scott Sight combines a thermal image camera with a display in the face piece without the need for reaching down and lifting a camera up.
### 3M™ Scott Safety
#### Part Selector Quick Reference Guide

<table>
<thead>
<tr>
<th><strong>Respirators</strong></th>
<th></th>
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<tr>
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<td><strong>Description</strong></td>
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<td>201339-01</td>
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<td>FRR Respirator ASSEMBLY SIZE 2 (L)</td>
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<td>FRR Respirator ASSEMBLY SIZE 3 (M)</td>
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<td>013282</td>
<td>M110 Medium/Large with Drinking Device</td>
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<td>M110 Small with Drinking Device</td>
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<td>013013</td>
<td>M120 Medium/Large</td>
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<td>TAC-1 Cartridge (FRR)</td>
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## AV Configurations

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<td>Left Comm Bracket</td>
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<td>201215-07</td>
<td>AV-3000 HT (Small)</td>
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<td>AV-3000 HT (Medium)</td>
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<td>AV-3000 HT (Large)</td>
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## EPIC Communications

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<td>200261-01</td>
<td>Voice amplifier/RI assembly</td>
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<td>Voice amplifier/RI assembly*</td>
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<td>201224-04</td>
<td>Voice amplifier/RI assembly Motorola HT750, HT1250 Lapel Speaker Mic</td>
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<td>201224-06</td>
<td>Voice amplifier/RI assembly Motorola XPR6300, 6350, 6500, 6550 Lapel Speaker Mic</td>
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<td>201277-02</td>
<td>Voice amplifier/RI assembly Motorola HT1000, XTS5000, XTS3000 - Bluetooth</td>
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## Scott Sight

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<td>Scott Sight Full Kit - Small 5 Strap</td>
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<td>201581-02</td>
<td>Scott Sight Full Kit w/comms - Small 5 Strap</td>
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<td>201582-01</td>
<td>Scott Sight Full Kit - Medium 5 Strap</td>
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<td>201582-02</td>
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<td>201583-01</td>
<td>Scott Sight Full Kit - Large 5 Strap</td>
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3M™ 7800B Full Face Reusable Respirator Series

The 3M Full Facepiece Reusable Respirator FR-7800B Series is approved to NIOSH Chemical Biological Radiological Nuclear (CBRN) requirements.

- Certified by NIOSH for CBRN applications with: 3M Canister FR-15-CBRN for Chemical, Biological, Radiological and Nuclear (CBRN) applications
- Certified by NIOSH for Tear Gas, Pepper Spray, CN, CS, P100 with 3M Canister CP3N, 450-02-11R06
- Butyl rubber seal for added wearer comfort and helps to resist permeation of warfare agents
- Exhalation valve cover to help protect the valve against chemical agents
- Cartridge can be mounted on either side of the facepiece to enable weapon sighting
- Lens has optical correction promoting no left-to-right visual distortion
- Prescription insert capable

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<td>3M™ Canister CP3N, 450-02-11R06</td>
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**Important Notice**

This guide should not be used as the only means for selecting personal protective equipment. Before using any personal protective equipment, the wearer must read and understand the user instructions for each product. If in doubt, contact a safety professional. Selection of the most appropriate PPE will depend on the particular situation and should only be made by a competent person knowledgeable of the actual working conditions and the limitations of PPE.

Final determination as to the suitability of these products for a particular situation is the employer’s responsibility. This information is subject to revision at any time. Always read and follow all User Instructions supplied with your 3M™ products in order to ensure correct operation. If you have questions contact 3M Technical Service at 1-800-243-4630.

---

**WARNING**

These eye and face protection products help provide limited eye and face protection. Misuse or failure to follow warnings and User Instructions may result in serious potential injury, including blindness or death. For proper use, selection and applications against flying particles, optical radiation and/or splash, see supervisor, read User Instructions and warnings on the package or call 3M PSD Technical Service in the USA at 800-243-4630. In Canada, call Technical Service at 800-267-4114.

These respirators help protect against certain airborne contaminants. Before use, the wearer must read and understand the User Instructions provided as a part of the product packaging. A written respiratory protection program must be implemented meeting all the requirements of OSHA 1910.134 including training, fit testing and medical evaluation. In Canada, CSA standards Z94.4 requirements must be met and/or requirements of the applicable jurisdiction, as appropriate. Misuse may result in sickness or death. For correct use, consult a supervisor and user instructions, or call 3M PSD Technical Service in USA at 1-800-243-4630 and in Canada at 1-800-267-4414.

Only qualified and trained operators should use these helmets. Many factors uniquely within the user’s knowledge and control can affect the use and performance of the helmet. The user is solely responsible for evaluating the helmet and determining whether the helmet is suitable for user’s intended conditions of use. Misuse or failure to follow warnings and user instructions may result in serious personal injury or death.

When worn according to the User Instructions, hearing protector help reduce exposure to both continuous noises, such as industrial noises and noises from vehicles the required and/or actual hearing protection obtained during exposure to impulse use of hearing protection, proper care of hearing protection, and other variables will hearing problem, your hearing may be at risk. To learn more about hearing protection for impulse noise, visit www.3M.com/hearing.

Misuse or failure to wear hearing protectors at all times when exposed to hazardous noise may result in hearing loss or injury. These products contains metallic Instructions, or call 3M Technical Support (In U.S.A. call 800-665-2942.)

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 factors including variation in earplug fit, and earplug fitting skill and motivation of the user. If the NRR is used to estimate typical workplace protection, 3M recommends that the NRR be reduced by 50% or in accordance with applicable regulations.

When additional personal protective equipment is necessary (e.g. safety glasses, respirators, etc.), select flexible, low profile temples or straps to minimize interference with the earmuff cushion. Remove all other unnecessary articles (e.g. hair, hats, jewelry, headphones, hygiene covers, etc.) that could interfere with the seal of the earmuff cushion and reduce the protection of the earmuff.