Gentex Corporation takes pride in our dedication to the mission of providing optimal protection and situational awareness to global defense forces, emergency responders, and industrial personnel operating in high-performance environments.

USA
Coast Guardsmen fast-rope from an Air Force UH-60G Pave Hawk helicopter during a training exercise at Air Station Kodiak, Alaska, Feb. 22, 2019.
Photo By: Coast Guard Chief Petty Officer Charly Hengen

For complete product details, go to gentexcorp.com/ground
OUR PROUD HISTORY

Gentex has been at the forefront of innovation for over 125 years, from product development to quality enhancement and performance. Our philosophy of continually reinvesting in our employees, our customers, and our capabilities and technologies shows in the growth of our business and the game-changing innovations our people have created.

OUR PEERLESS QUALITY

Gentex Corporation ensures that our Quality Management Systems consistently provide products to meet our customers’ requirements and enables process measurements to support continuous improvements. We comply with an ISO 9001 certified Quality Management System that is supplemented with additional quality system requirements that meet the AS9100D standard, a standard that provides strict requirements established for the aviation, space, and defense industries.

For complete product details, go to gentexcorp.com/ground
MISSION CONFIGURABLE

It’s all about Open Architecture. Our approach to product integration results in systems with components that work together seamlessly and allow the end user to focus on the mission at hand—not their equipment setup. Our system products are designed and engineered to easily integrate and work with Gentex Corporation and other third-party components. This approach gives end users limitless freedom for customization.

ENGINEERED & TESTED

Whether it’s a helmet system, a respiratory protection system, leading-edge optics, or a communication headset, Gentex Corporation takes the same all-in approach to product design and engineering. We aim to achieve the maximum protection, performance, and user comfort possible. Gentex Corporation’s design and engineering teams transform customer challenges into solutions that work. Gentex Corporation’s design and engineering teams work closely with end users to understand their challenges. Our best-in-class product solutions reflect that.

For complete product details, go to gentexcorp.com/ground
We are your experts for headborne protection, situational awareness, high-performance optics, and respiratory protection. Gear up for mission success.

**EYEWEAR**
Following eye protection from fragmentation threats, blinding glare, or increased noise in noisy environments to increase survivability in high threat operations.

**VISORS**
The STEP-UP® visor provides a new level of optical clarity, ballistic performance, and functionality – sealed or vented. It can be used with one hand, ensuring quick and easy use.

**MANDIBLES**
Built for protection against ballistic threats and blunt impacts. The conforming soft armor allows the user to use the helmet with or without a mandible. The well-ventilated design enhances comfort and reduces lens fogging.

**SHROUDS**
Designed to be compatible with most NVG mount systems, our shrouds are sturdy, snag resistant, and lightweight.

**HELMET SUSPENSION**
Available in an array of options, our helmet liners balance fit, comfort, and optimal ventilation with the capability to accommodate headsets. Some feature components are customizable and may be repositioned for comfort.

**RETENTION SYSTEMS**
Delivering comfort across the entire mission and ensuring the helmet remains securely on the head. Our webbing maintains light, straight force lines, while our innovative Head-Loc design enables one-handed tension adjustment.

**HELMET COVERS**
Tailored helmet covers offer the ability to reduce drag and enhance noise protection without compromising overall comfort. They are available in both stretch and mesh options.

**COMMUNICATIONS**
Our 3D Hear-Through Technology combines world-class audio quality with scalable hearing protection for enhanced situational awareness. Our AMP™ Headset is configurable to meet a variety of operational requirements.

**RESPIRATORY**
Respiratory solutions offer the ability to reduce drag and enhance noise protection without compromising overall comfort. The design offers enhanced protection without interfering with the operator’s TTP and compatibility with various helmet systems for optimal field performance.
HEADBORNE PROTECTION
SYSTEM-LEVEL PERFORMANCE

Protection and ongoing optimization

Every day, our expert team of designers and engineers push the limits of what’s possible and work closely with end users to meet and exceed system requirements.

Our core innovation is Integrated Modular Design. It offers helmet systems with performance-enhancing components that can be assembled and configured for any mission, quickly and easily. This allows the wearer to concentrate without distraction from the helmet and componentry.

A key feature is Open Architecture. Our products deliver maximum flexibility and forward compatibility and are designed to integrate seamlessly with both Ops-Core and third-party components. This creates the most opportunity for customization to meet each wearer’s individual needs.

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SITUATIONAL AWARENESS
3D HEAR-THROUGH TECHNOLOGY

Enhanced audio with scalable hearing protection

Always have a competitive advantage confronting threats. The AMP® Communication Headset features 3D Hear-Through Technology (3DHT) and advanced, scalable hearing protection. Its modular design allows easy configuration to meet a wide range of mission needs. Ops-Core helmet shells are designed to better accommodate communication headsets, and the geometry of the headset earcups is designed to accommodate a wide variety of helmet profiles. The AMP Communication Headset is Berry Amendment compliant and CE approved EN352. Our situational awareness products are proudly assembled in Gentex's US factories.

World-class 3D Hear-Through Technology (3DHT) provides unprecedented audio quality, hearing restoration and enhancement, and allows the operator to boost their “natural hearing” by up to +12dB.

The AMP Communication Headset was developed to quickly convert between ergonomic headband and helmet mounted configuration. The AMP Helmet Rail Mount Kit provides better comfort, a consistent earseal and greater helmet stabilization with streamlined stowage capability.

Scalable hearing protection

High performance ear seals with ergonomic fit provide better, and unimpeded noise attenuation. The addition of optional wireless NFMI earplugs provide increased noise reduction that rivals active noise reduction (ANR), while maintaining clear communications and hear-through audio.

For complete product details, go to gentexcorp.com/ground.
Gentex-manufactured lenses offer the highest quality and levels of protection. Lenses are available in Clear, Tint, Laser Dazzle, and High Contrast. Future lens options include advanced laser eye protection (ALEP) and photochromic.

Our optics options – ranging from eyewear to visors and shields – are easily configurable to specific threats or conditions faced. Visors deliver eye or full-face protection from fragmentation to handgun threats. They feature anti-fog interior coatings and anti-scratch exteriors, with one-handed operation.

From performance eyewear to ballistic visors

Gentex has a history of excellence in optics as a designer and manufacturer of precision polycarbonate lenses for both defense and commercial applications. These advanced products – from eyewear with interchangeable lenses to ballistic and non-ballistic visors – offer enhanced visual acuity and protection to support any mission, optimizing and maintaining operational performance for elite defense, law enforcement, and security forces.

For complete product details, go to gentexcorp.com/ground
Gentex has decades of experience, supplying air crews with leading-edge respiratory systems. We’ve put it to work on the ground, in threatening environments with oil, lead, asbestos, or ammo residue, and in situations our customers face on a regular basis, like exiting a chopper that’s kicking up debris. Respiratory protection is essential. Ops-Core’s signature respiratory products have a filtration effectiveness rating of P100, the highest particulate filtration rating attainable for mitigating exposure. Due to our unique, streamlined design, the wearer gets the highest level of protection and zero interference with mission-critical weapons and equipment.

99.97% FILTRATION EFFICIENCY
USA

British Royal Marine Commandos with Alpha Company, 40 Commando Battle Group, prepare to breach a building during Integrated Training Exercise 1-20 at Marine Corps Air Ground Combat Center (MCAGCC).

Photo By: Lance Cpl. Cedar Barnes
Choosing the Best Helmet Platform for Your Needs

FAST

The FAST family of helmets is our most advanced. FAST SF, our newest, lightweight ballistic helmet, comes with the latest in accessories and top-notch ballistic protection that can be adjusted to individual needs. FAST SF and FAST LE both offer high-cuts and comfort, but they differ in ballistic protection. While a wearer chooses the FAST SF, if they transition to a lower-cuts helmet, they may gain more coverage and ballistic protection. FAST LE is built to the NIJ ballistic standard to have more coverage while a popular choice for law enforcement.

SENTRY

Based on the FAST helmet geometry, the Sentry ™ helmet platform provides the same ballistic protection as an ACH helmet, but at a lighter weight with more coverage. With Ops-Core ARC ™ Rails and a Skeleton Shroud, the Sentry helmet can be tailored to individual needs and can be used with VP and LE ballistic protection levels.

TBH

TBH helmets are built on the ACH geometry and are available in high-cut, mid-cut, and low-cut trim options. They can be slick or mission configured with NVG Shroud, GFC SAR™ chest harness, and Ops-Core ACH Rails. The TBH family is built to the NIJ standard for handgun protection and the TBH-Ill meets NIJ standard for handgun and some rifle protection.

Balancing Your Decision in Helmet Selection

There are three main factors to consider while selecting a helmet.

PROTECTION

Protection (ballistics and/or coverage) of the operator is the primary goal of the helmet.

Balance: Protection and Cost

WEIGHT

Lighter helmets are more comfortable and facilitate better physical performance.

Balance: Weight and Protection

COST

Differing costs can affect the acquisition and fielding of the helmet.

Balance: Cost and Weight

GRAIN: 2 | 4 | 16 | 64 | 17 | 9mm

VELOCITY:   x ft/s (x m/s)
FAST LE

Optimized for law enforcement applications, it's a lower-cost alternative to our FAST XP High Cut, and has mission-configurable capabilities. The LE features an Ops-Core Skeleton Shroud for universal compatibility with NVG mounts, Ops-Core ARC Rails with hook bungees and external VELCRO® Brand fastener. It's compatible with Ops-Core visors, mandibles, handgun face shields, and ballistic appliques. It's available with two suspension/retention options.

- High-cut, medium weight, ballistic shell made of monolithic aramid
- Features an Ops-Core Skeleton Shroud for universal capability with most NVG mounts, Ops-Core ARC Rails with hook bungees, and external VELCRO® Brand fastener
- Available with two suspension/retention options

FAST XP

A platform that delivers value, effective coverage, and ballistic protection. The ballistic shell provides more coverage and increased protection than our FAST SF helmet, at a slightly higher weight. An Ops-Core Skeleton Shroud delivers universal compatibility with NVG mounts, Ops-Core ARC Rails and external VELCRO® Brand fastener provide additional attachment locations for other accessories such as visors, mandibles, handgun face shields, and ballistic appliques. It's available with four suspension/retention options.

- High-cut ballistic shell made of a hybrid composite of carbon, uni-directional polyethylene, and woven aramid
- Features an Ops-Core Skeleton Shroud for universal capability with most NVG mounts, Ops-Core ARC Rails with hook bungees, and external VELCRO® Brand fastener
- Available with JDF and本领的 Las Vegas Suspension systems
- Available with Mono Oar and Oor-Dix retention systems

FAST SF

The lightest, most advanced ballistic helmet. The edge trim has been optimized for use with communications headsets while still providing critical coverage. It delivers total readiness. Skynet Ops-Core ARC Rails™ and Ops-Core ARC Shims offer increased functionality and a lightweight, Modular Bungee Shroud reduces snagging with integrated NVG retention. The Vented Lux™ "Linear weave" stability and comfort valve fully loaded and is available with two suspension/retention options.

- Ballistic shell made of a hybrid composite of the most advanced carbon, unidirectional polyethylene, and woven aramid
- High-performance evolution of the Ops-Core® FAST MT Helmet, with an 8% weight reduction, while improving comfort and accessory stability
- Skynet Ops-Core ARC Rails and Ops-Core ARC Shims increase functionality and increase accessory attachment points while maintaining compatibility with legacy FAST headborne accessories
- Available with EPP and Vented Lux Liner Suspension systems
- Available with Worm-Dial and Occ-Dial retention systems

Helmet Colors

Tan 499
Foliage Green
Spruce Green
MultiCam®
Black
MultiCam Black
Urban Gray

Suspension/Retention

Available in multiple options. Please call 888.894.1755 to find out your retention options.

Helmet Colors

Tan 499
Foliage Green
Spruce Green
MultiCam®
Black
MultiCam Black
Urban Gray

Suspension/Retention

Available in multiple options. Please call 888.894.1755 to find out your retention options.

For complete product details, go to gentexcorp.com/ground
The TBH-R1 is the helmet for the highest threat an operator might face. Designed to stop rifle rounds and slightly more head coverage than ACH helmets. Delivers great modularity with an Ops-Core Skeleton Shroud for universal compatibility with NVG mounts, Ops-Core ARC Rails, and external ELICRO® Brand fastener; it’s compatible with communication headsets. Available with the EFP liner system with Trim-Dial.

- Mid-cut, lightweight ballistic shell made of hybrid composite of carbon, uni directional polyethylene, and woven aramid
- Provides slightly more head coverage in mid-cut design than US Army ACH helmet
- Features an Ops-Core Skeleton Shroud for universal capability with most NVG mounts, Ops-Core ARC Rails with hook bungees, and external ELICRO® Brand fastener

TBH-III A

With an efficient balance of coverage and weight, it delivers protection against handgun, fragmentation, and blast impact. The TBH-III A comes equipped with an Ops-Core Skeleton Shroud for universal compatibility with NVG mounts, Ops-Core ARC Rails with carbine hangers, and external ELICRO® Brand fastener.

- Different a low-, mid-, or high-cut design with three suspension/retention options
- Ballistic shell made of a monolithic composite of aramid, and polyethylene
- Features an Ops-Core 3-Hole Skeleton Shroud, compatible with most NVG mounts, Ops-Core ARC Rails with hook bungees, and external ELICRO® Brand fastener

TRIM DESIGN OFFERINGS

Sentry XP

- Mid-cut, lightweight ballistic shell made of hybrid composite of carbon, uni directional polyethylene, and woven aramid
- Provides slightly more head coverage in mid-cut design than US Army ACH helmet
- Features an Ops-Core Skeleton Shroud for universal capability with most NVG mounts, Ops-Core ARC Rails with hook bungees, and external ELICRO® Brand fastener

Sentry LE

- Mid-cut, lightweight ballistic shell made of hybrid composite of carbon, uni directional polyethylene, and woven aramid
- Provides slightly more head coverage in mid-cut design than US Army ACH helmet
- Features an Ops-Core Skeleton Shroud for universal capability with most NVG mounts, Ops-Core ARC Rails with hook bungees, and external ELICRO® Brand fastener

TBH-II A

- Shell available in low-, mid-, or high-cut design with three suspension/retention options
- Ballistic shell made of a monolithic composite of aramid, and polyethylene
- Features an Ops-Core 3-Hole Skeleton Shroud, compatible with most NVG mounts, Ops-Core ARC Rails with hook bungees, and external ELICRO® Brand fastener

Bottom Cut

Mid Cut

High Cut

TBH-IIIA Mission Configured High Cut

With an efficient balance of coverage and weight, it delivers protection against handgun, fragmentation, and blast impact. The TBH-III A comes equipped with an Ops-Core Skeleton Shroud for universal compatibility with NVG mounts, Ops-Core ARC Rails with carbine hangers, and external ELICRO® Brand fastener.

- Different a low-, mid-, or high-cut design with three suspension/retention options
- Ballistic shell made of a monolithic composite of aramid, and polyethylene
- Features an Ops-Core 3-Hole Skeleton Shroud, compatible with most NVG mounts, Ops-Core ARC Rails with hook bungees, and external ELICRO® Brand fastener

Ballistic

Sentry XP

- Mid-cut, lightweight ballistic shell provides mid-cut head coverage, slightly more than an ACH helmet. Features an Ops-Core Skeleton Shroud for universal compatibility with NVG mounts, Ops-Core ARC Rails with hook bungees, and external ELICRO® Brand fastener. It’s compatible with in-ear communication headsets. Available with the EFP liner system with Trim-Dial.

- Mid-cut, lightweight ballistic shell made of monolithic aramid
- Provides slightly more head coverage in mid-cut design than US Army ACH helmet
- Features an Ops-Core Skeleton Shroud for universal capability with most NVG mounts, Ops-Core ARC Rails with hook bungees, and external ELICRO® Brand fastener

Sentry LE

- Mid-cut, lightweight ballistic shell made of monolithic aramid
- Provides slightly more head coverage in mid-cut design than US Army ACH helmet
- Features an Ops-Core Skeleton Shroud for universal capability with most NVG mounts, Ops-Core ARC Rails with hook bungees, and external ELICRO® Brand fastener

TBH-R1

- Shell available in low-, mid-, or high-cut design with three suspension/retention options
- Includes a Gentex improved inner liner
- Features Boss Product Improved Combat Vehicle Crewman (IVC) Communication Headset with Active Noise Reduction (ANR) and intercom interface cable assembly

Ballistic

Combat Vehicle Crewman (CVC)

This integrated helmet system features improvements in shell design, inner liner, and communications equipment, and integrates Bose® Product Improved Combat Vehicle Crewman (IVC) Communication Headset. The helmet shell is designed for boat and area mounted missions that require ballistic, impact, and noise protection, while allowing communication via intercoms or radios. The CVC is compatible with a wide variety of vehicle intercom systems and/or radio systems.

- Shell available in low-, mid-, or high-cut design with three suspension/retention options
- Includes a Gentex improved inner liner
- Features Boss Product Improved Combat Vehicle Crewman (IVC) Communication Headset with Active Noise Reduction (ANR) and intercom interface cable assembly

For complete product details, go to gentexcorp.com/ground

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27
ARGUS APH05T

Tested and approved to meet the UK Home Office Standard PS0011/04, protective hardwear standard for UK police. This helmet is offered in a polycarbonate (PC) and polybutylene terephthalate (PBT) thermoplastic shell. It can accommodate a range of full-face respirators.

• Fully approved to the UK Home Office P202 Protective Headwear standard 2/2014 for Police Public Order Helmets 2004
• Manufactured in PC and PBT thermoplastics, shells
• High impact resistant, 3mm polycarbonate visors, with anti-mist and anti-scratch coating available

ARGUS 017T

The Argus 017T Public Order/Riot Helmet is a robust, safe, and reliable helmet specifically designed for the rigorous operational requirements of public order and security duties. It is high-impact resistant 2mm or 3mm polycarbonate visors, with anti-mist and anti-scratching available and accommodates a range of full-face respirators.

• Approved to Technical Specification based on BS PAS017:1995 (Amendment 1)
• Manufactured in high-impact, self-colored acrylonitrile butadiene styrene (ABS) thermoplastic
• High-impact resistant 2mm or 3mm polycarbonate visors, with anti-mist and anti-scratch coatings available

FAST Bump

Ideal for less extreme environments where only protection from blunt impact is required, and mission-configured components are a primary need. Includes a standard back NVG mount and 4-position Ops-Core ARC Rails with external side VELCRO® Brand fastener.

• Improved blunt impact performance per ACH CSD-01-02:3007
• The FAST Bump helmet is designed for less extreme environments where only protection from blunt impact is required, and mission-configured components are a primary need
• Includes a standard back NVG mount and 4-position Ops-Core ARC Rails with external side VELCRO® Brand fastener

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USA

U.S. Army Rangers of the 75th Ranger Regiment conduct field training for a unit TTT (Task Force Training) operation on Joint Base Lewis - McChord, WA., Aug. 20, 2019

Photo by: Spc. Garrett Shreffler
FAST Mesh

A lightweight accessory for shell protection and signature management. This helmet cover is easy to apply and is compatible with FAST SF Ballistic, FAST SF Carbon Composite, and FAST MT Super High Cut helmets. Features paracord attachment points for natural foliage, camouflage material, or cable management.

- Easy to don and doff using VELCRO® Brand fastener tabs
- Compatible with Ops-Core FAST SF Ballistic, MT, and SF Carbon Composite helmets
- Mesh areas allow for venting when used with non-ballistic helmets
- Paracord attachment points for natural foliage, camouflage material, or cable management
- Available in MultiCam®, Foliage Green, Black, Urban Gray, Tan 499, Coyote Brown, and White

FAST SF

The original helmet cover for FAST helmets. This cover attaches underneath the shroud, providing shell protection that doesn’t impede full FAST helmet functionality. It is compatible with Ops-Core FAST MT Super High Cut and XP High Cut helmets.

- Compatible with Ops-Core FAST MT Super High Cut and XP High Cut helmets
- Lightweight mesh construction with Hypalon® reinforced Cordura® nylon in the shroud area
- Paracord attachment points for natural foliage, camouflage material, or cable management

Helmet Cover

The original helmet cover for FAST helmets. This cover attaches underneath the shroud, providing shell protection that doesn’t impede full FAST helmet functionality. It is compatible with Ops-Core FAST MT Super High Cut and XP High Cut helmets.

- Compatible with Ops-Core FAST MT Super High Cut and XP High Cut helmets
- Lightweight mesh construction with Hypalon® reinforced Cordura® nylon in the shroud area
- Paracord attachment points for natural foliage, camouflage material, or cable management

Helmet Cover

- Easy to don and doff using VELCRO® Brand fastener tabs
- Compatible with Ops-Core FAST SF Ballistic, MT, and SF Carbon Composite helmets
- Mesh areas allow for venting when used with non-ballistic helmets
- Paracord attachment points for natural foliage, camouflage material, or cable management
- Available in MultiCam®, Foliage Green, Black, Urban Gray, Tan 499, Coyote Brown, and White

LITHUANIA

A Navy explosive ordnance disposal technician renders safe a simulated explosive device in Klaipeda, Lithuania, Aug. 8, 2019.

Photo By: Navy Petty Officer 1st Class Scott Bigley

For complete product details, go to gentexcorp.com/ground
The Ops-Core Mission Configurable Helmet Cover (MCHC) is a cost-effective solution equipped with mission-configured components including the Ops-Core Skeleton One-Hole Shroud, ACH Skeleton ARC Rails with bungees, and exterior VELCRO® Brand fasteners. Components such as visors, mandibles, NVGs, lights, cameras, EO modules, communication devices, and IFF strobes can be attached.

- A simple, cost-effective way to allow mission-specific capabilities to be quickly and easily added without permanent modification of the helmet
- Equipped with mission-configured components including the Ops-Core Skeleton One-Hole Shroud, ACH Skeleton Ops-Core ARC Rails with bungees, and exterior VELCRO® Brand fasteners.
- MCHC is secured to the helmet with a combination of a close-tolerance cover design per individual helmet size; integrated straps with VELCRO® Brand fastener; and a ballistic bolt securing shroud to the helmet through existing drilled holes in standard U.S. Army ACH helmets.
- Installed bungee cords reduce rattle/vibration of NVGs when mounted.
- Fits four standard sizes (SM, MD, LG, XL) of U.S. Army ACH, USMC MICH Type II, and Gentex Low Cut Tactical Ballistic Helmet Systems.
- Available in Operational Enduring Freedom Camouflage Pattern (OCP) (MultiCam®); other camouflage and solid colors available upon request.

Universal Loop Kit

- One-size-fits-all pattern compatible with all new and legacy Ops-Core and Gentex helmets.
- Irregular shape provides more attachment points without increasing NIR signature.
- VELCRO® Brand hook and loop fastener allows for the secure, quick, and easy attachment and detachment of headborne accessories.
- The Universal Exterior Loop Kit contains 11 VELCRO® Brand pieces and replacement guide.

Suspension/Retention

- VELCRO® Brand Fastener Attachment Tabs

COLOR OFFERINGS

- Tan 499
- Black
- Olive Green
- Urban Gray
- Foliage Green
- USA Army Green

Color options: Tan 499, Black, Olive Green, Urban Gray, Foliage Green, USA Army Green.

USA Army Green Berets prepare to climb aboard a UH-60 Black Hawk helicopter during a training exercise near Nellis Air Force Base, Nev., Aug. 27, 2019.

Photo by: Army Sgt. Steven Lewis

For complete product details, go to gentexcorp.com/ground
Vented Lux Liner

- Designed for comfort during extended use with fully kitted helmets, it employs vents and a more streamlined geometry than the original Lux Liner for increased airflow, comfort, and a better fit. 
- Lighter, breathable, lightweight pads come in three different thicknesses to allow for a custom fit. The liners deliver 360 degrees of coverage in the Ops-Core FAST helmet system. 
- It is also offered with the Worm-Dial retention system, which provides a quick adjustment in a low-profile fit band.

Lux Pux

- Lowers the premium materials that are used in the Vented Lux Liner, Ops-Core Lux Pux provides a one-size-fit-all, configurable pad system for the FAST, ACH, and ECH style helmet platforms. The 10-pad kit offers significant weight savings over comparable products without compromising comfort.

A suspension system that combines a one-piece, full coverage impact layer with modular, breathable comfort pads that can be customized and repositioned for comfort and integration of communication headsets.

- The one-size-fits-all pad is compatible with various retention systems, including the Head-Loc 4-Point Chinstrap, and can be ordered with or without retention systems.

- Customizable and repositionable for added comfort and integration of communication headsets.

- Available in Tan, Foliage, and Black.

EPP Liner System

- Replacement kit for Occ-Dial & H-Nape Liners
- Fits all Ops-Core FAST, Sentry, and TBH helmets
- Kit includes (1) front EPP pad, (1) Occ-Dial Kit, and (1) H-Nape Kit
- Available in M, L, XL, and XXL sizes.

H-Nape Head-Loc Chinstrap

- Designed to counter NVG instability due to slippage on the head, this system is ideal for stabilizing heavier, front-mounted NVGs during rigorous activity. It prevents helmet rotation using a fifth adjustment tab on the nape pad. Patented Head-Loc tabs provide instant, one-handed, chinstrap adjustment.

- Designed to resolve the issue of NVG instability caused by helmets slipping on the head.
- Features fifth adjustment tab on nape pad to provide extra support and prevent back-and-forth helmet rotation.
- Patented Head-Loc tabs provide instant, one-handed, chinstrap adjustment while wearing the helmet.

Gas Mask Chinstrap Extender

- Adds 3.5” to the chinstrap, allowing it to fasten over the CBRNE mask. Simple to attach and remove with one click of the buckle. Compatible with Head-Loc Chinstraps only.

- Adds 3.5” to the chinstrap, allowing it to fasten over the CBRNE mask.
- Simple to attach and remove with one click of the buckle.
- Compatible with Head-Loc Chinstraps only.
- Available in Tan, Foliage, and Black.

Universal Nape Pad

- Located on the nape of the Occ-Dial or Worm-Dial retention system, this pad can be adjusted vertically to customize fit with any head shape, enhancing stability and comfort.

- Significantly enhances the stability of the helmet by anchoring the back of the helmet across a large surface area on the occipital bone of the head.
- Large surface of the nape pad permits a broader distribution of weight, resulting in a more comfortable and stable helmet position.
- Compatible with Occ-Dial and Worm-Dial retention systems.

For complete product details, go to gentexcorp.com/ground
The FAST SF Upgrade Kit allows any user with a legacy FAST helmet to upgrade the modularity of their entire helmet system to the level of a FAST SF. Includes the SHC Skeleton ARC™ Rail with Shim Kit, Universal Loop Kit (one size fits all), interior VELCRO® Brand fastener, and Modular Bungee Shroud.

FAST SF Upgrade Kit

The kit transforms ACH helmets into a platform capable of integrating system components, while enhancing overall comfort, fit, and stability. Includes Skeleton Ops-Core ARC Rails, Skeleton One-Hole Shroud, and the Ops-Core 360 liner and retention system.

ACH Upgrade Kit

For complete product details, go to gentexcorp.com/ground.
**Modular Bungee Shroud**

Our lightest, most stable NVG shroud features integrated bungee retention that prevents interference with other accessories and a low-profile design that resists snags. This shroud features a machined removable insert, designed to be changed out without removing the shroud from the helmet, to provide multiple mounting solutions within the same shroud platform.

The Modular Bungee System (MBS) Adapter Inserts allow the Modular Bungee Shroud to be used with a wide range of mount solutions without compromising weight or standoff from the helmet. Two inserts are available and are compatible with the Wilcox® GSGM and Wilcox® G66/G69.

- The most versatile and lightest night vision shroud available
- Comprised of a molded outer housing and a machined removable insert, designed to be changed out without removing the shroud from the helmet, to provide multiple mounting solutions within the same shroud platform
- Eliminates the need for rail-mounted bungees and serves as retention lanyards to secure NVGs
- The low-profile bungees help prevent snag hazards while stabilizing NVGs

**Skeleton One Hole Shroud**

This low-profile, snag-resistant shroud has been optimized for helmets with a single NVG screw hole. A rubber gasket in conjunction with a screw and T-Nut provides superior adhesion to the helmet for NVG stability.

- Features connection points for the carabiner or hook style Skeleton Ops-Core ARC Rail bungees
- A low-profile ballistic screw and T-Nut assembly improves ballistic performance and allows users to more easily install and remove the shroud as required
- Hardware works in conjunction with a rubber gasket that creates excellent adhesion to the shell for a solid, positive connection that provides superior NVG stability

**Skeleton Shroud**

Add the capability of helmet-borne NVG, video cameras, illuminators, and other components with this highly durable Skeleton Shroud. Features multiple bungee and lanyard mounting points.

- Designed for compatibility with most NVG mounts, provides a secure attachment at the front of the helmet for NVGs, video cameras, illuminators, and other accessories
- Forged aluminum construction for greater strength and durability
- High-tolerance, CNC machined, insert arm interface for precision fit, maintaining movement
- Multiple bungee and lanyard mounting points for compatibility with visors

**ICELAND**

Marines wait to board a KC-130J Super Hercules aircraft at Vaernes Air Station, Norway, 10/31/18, during Trident Juncture, a NATO training exercise.

Photo By: Navy Petty Officer 2nd Class Jonathan Nelson
Ops-Core ARC Rails transform any FAST helmet into a streamlined platform capable of integrating mission-enhancing components and accessories such as visors, mandibles, lights, and cameras. The optional Ops-Core ARC Shim provides additional attachment points that do not occupy rail space.

- Upgrade the modularity and scalability of any FAST High Cut or Super High Cut helmet
- One size fits all
- Easily mounts to the sides of the helmet using existing chinstrap holes in the helmet
- Available with optional Ops-Core ARC Shim
- Available in Black, Foliage Green, Tan, and Urban Gray

Skeleton Ops-Core ARC ™ Rails – FAST

Counterweight Kit

A rear-mounted helmet weight management kit for use with NVGs that balances the platform, enhances comfort, and reduces neck strain.

- (5) 70g removable weights and (5) elastic pockets
- Maximum configurable weight is 0.85lbs (385g)
- Elastic pockets can stretch to fit (2) weights or (1) weight and (1) battery (AA, AAA, or 123)
- Mounts to the rear of the helmet with custom anchors using the existing helmet holes with longer ballistic screws (provided)
- Available in Black, Foliage Green, and Tan

Skeleton Ops-Core ARC Rails – TBH / ACH

Component Mounts

Ops-Core ARC Rails transform ACH or TBH style helmets into a streamlined platform capable of integrating mission-enhancing components and accessories such as visors, mandibles, lights, and cameras.

- One size fits all (Fits the bolt pattern of Gentex ACH style helmets, sizes S to XL)
- Based on FAST Ops-Core ARC Rails
- Easily mounts to the sides of the helmet using existing chinstrap holes in the helmet
- Available in Black, Foliage Green, and Tan

Component Mounts

Skeleton Ops-Core ARC Rails – FAST

Counterweight Kit

For complete product details, go to gentexcorp.com/ground

For complete product details, go to gentexcorp.com/ground
Airmen perform a military free fall jump in Djibouti, April 17, 2018. The airmen are assigned to the 82nd Expeditionary Rescue Squadron, and they are deployed in support of humanitarian aid and contingency operations in the Combined Joint Task Force-Horn of Africa area of responsibility.

Photo By: Staff Sgt. Gustavo Castillo
Designed for use with any FAST helmet equipped with Super High Cut Skeleton Ops-Core ARC Rails and Ops-Core ARC Shims, this one-size-fits-all mandible provides ballistic and blunt impact protection without occupying any space in the rail. Flexible armor allows for uncompromised weapon sighting.

- Provides blunt impact and ballistic protection from 9mm 124gr at 1,195 fps
- One size fits all with fore-aft adjustment
- Flexible armor provides the ability to obtain a solid cheek weld
- Uninterrupted field of view
- Lightweight design easily attaches to ARC ARC Shims
- Skeleton Ops-Core ARC rails and Ops-Core ARC Shims available as upgrade kit to any Ops-Core FAST Helmet

Mandible
FAST Ballistic

Designed for use with any FAST helmet equipped with Super High Cut Skeleton Ops-Core ARC Rails and Ops-Core ARC Shims, this one-size-fits-all mandible provides protection from training ammunition to the mouth, nose, ear, and neck areas. Adjustable fore-aft and vertically to enable an optimal fit on various platforms and sizes.

- Compatible with any Ops-Core helmet system or helmet equipped with Ops-Core ARC Rails
- Flexible armor provides the ability to obtain a solid cheek weld
- Removable neck skirt to scale coverage

Mandible
Force-on-Force

Designed for use with any FAST, Sentry, or TBH style helmet equipped with Ops-Core ARC Rails and Ops-Core ARC Shims, this one-size-fits-all mandible provides protection from training ammunition to the mouth, nose, ear, and neck areas. Adjustable fore-aft and vertically to enable an optimal fit on various platforms and sizes.

- Compatible with any Ops-Core helmet system or helmet equipped with Ops-Core ARC Rails
- Removable neck skirt to scale coverage

Mandible
FAST Carbon Composite
FAST Low Profile Ballistic Applique

Increases the protection of a FAST SF Carbon Composite Helmet. This low profile applique provides lightweight, scalable protection against 9mm and frag threats. Quick, repeatable, and tool-less attachment using VELCRO® Brand fastener and the Ops-Core ARC Shim.

- Designed for Ops-Core FAST SF Carbon Composite Helmet
- Hybrid design using Carbon and uni-directional polyethylene materials
- Offers lightweight, scalable protection against 9mm and frag threats
- Quick, repeatable, and tool-less attachment

FAST Side Armor

Increases the ballistic coverage and environmental protection, which allows the user to quickly adjust the level of ballistic coverage to match changing threats. Side armor provides lightweight, scalable protection against 9mm and frag threats. Attaches to the Ops-Core ARC Rails. Slim and wide profile versions are available for Super High Cut and High Cut FAST Helmets.

- Quickly increase the ballistic coverage of a FAST helmet
- Available in slim and wide configurations
- Available for both Super High Cut and High Cut trims
- Easy tool-less attachment to the Ops-Core ARC Rails

For complete product details, go to gentexcorp.com/ground
Mk1 Performance Protective Eyewear

Ops-Core Mk1 PPE was designed to meet the need for more rugged, mission-configurable eyewear for elite forces. More than 50 years of Gentex experience and innovation in high performance optics manufacturing is delivered in every lens we create. Lens protection conforms to an abbreviated and modified ANSI Z87.1 in accordance with Ops-Core Mk1 Performance Specification PS-1310.

- Compliant with portions of the ANSI Z87.1 optical standards
- Gentex-manufactured lenses offer the highest quality and levels of protection
- Lenses currently available in Clear, Tint, High Contrast, and Laser Dazzle (Gentex-patented lens technology for maintaining see-through color perception while providing necessary protection from green and blue commercial lasers)
- Future lens options include Advanced Laser Eye Protection (ALEP), Enhanced Ballistic, and Variable Light Transmission

Lens Options
- Clear
- Tint
- Black
- High Contrast
- Laser Dazzle

Insert Options
- Standard Insert
- Foam Wind/Dust Insert
- Face Wind/Dust Insert

Handgun Face Shield

This face shield can be added to helmets to defend against multiple impacts from handgun threats for law enforcement and military personnel. Rated to stop the NIJ IIIA handgun threats per NIJ standard 0101.06.

- Face shield assembly fits all sizes of Ops-Core FAST and Sentry helmets, and Gentex ACH/TBH style helmets equipped with Ops-Core ARC Rails
- Ballistic protective lenses stop multiple hits of up to .44 Mag and 1.400 fps
- Fore/Aft adjustment maintains effective seal with different helmet geometries as well as increases offset to accommodate masks and other equipment when needed
- Rail interface locking system provides solid platform for the face shield
- Locking mechanism secures face shield at any angle for complete product details, go to gentexcorp.com/ground
Ballistic Active Shooter Kit

The kit comes pre-configured with the Ops-Core Multi-Hit Face Shield and is ideal for quick use by law enforcement for active shooter situations. The base shell provides protection in excess of NIJ IIIA levels, while the face shield protects the face from handgun threats. Additional stability, and increased protection and comfort is added by the suspension system and 4-Point Head-Loc H-Nape Chinstrap.

- Ballistic Active Shooter Kit
- Designed as an alternative to a standard MOLLE rubber eye cup, which compromises situational awareness as they obstruct peripheral vision and can lead to fogging of the NVG ocular lens.
- Attaches to a MOLLE or FAST Helmet using the ACH Skeleton Ops-Core ARC rails for facial protection against multiple impacts from handgun threats.

- NVG Snap Shields
- NVG Snap Shields are designed to help safeguard the eyes and face from fragments, water spray, and debris with minimal impact to peripheral vision. They are available in clear or Green Glow Occlusion and are approved for operations in a range of environments.

- FAST and Sentry
- FAST and Sentry provide additional face protection from blinding impact and ballistic threats.
- FAST and Sentry are designed to help safeguard the eyes and face from fragments, water spray, and debris with minimal impact to peripheral vision.
- Fast Visor compatible with Ops-Core FAST Helmets.
- Sentry Visor compatible with Ops-Core Sentry Helmets.

- NVG Snap Shields
- NVG Snap Shields are designed to help safeguard the eyes and face from fragments, water spray, and debris with minimal impact to peripheral vision. They are available in clear or Green Glow Occlusion and are approved for operations in a range of environments.

For complete product details, go to gentexcorp.com/ground
STEP-IN

Designed to seamlessly integrate with Night Vision Goggles (NVGs), the Ops-Core STEP-IN is the ideal solution for users requiring full eye protection in addition to NVG accessibility. Featuring removable gaskets and tool-less interchangeable lenses, the STEP-IN Visor assembly is easily configured for various mission requirements. The STEP-IN Visor is a low-profile, one-size-fits-all system that is fully compatible with Ops-Core and Gentex helmets that use Ops-Core ARC Rails.

• SIV is designed to sit comfortably behind NVGs
• Tool-less installation of various lenses depending on mission requirements
• Includes a clear and a tinted lens
• Lenses available: Clear, Tinted, High Contrast
• Removable rubber side gaskets keep dirt and dust out of eyes when in use
• HC-13 anti-scratch coating on outside of lens and MGAF anti-fog coating on inside

COLOR OFFERINGS

Gaskets can be removed for additional ventilation as needed

LENS OPTIONS

For complete product details, go to gentexcorp.com/ground
GREECE
Marines participate in live-fire training in Volos, Greece, Jan. 7, 2019, during Alexander the Great, a training exercise between U.S. and Greek armed forces.

Photo By: Marine Corps Staff Sgt. Andrew Ochoa
AMP® Communication Headset

CONNECTORIZED
The Ops-Core AMP® Communication Headset features 3D Hear-Through Technology (3DHT) and advanced scalable hearing protection. For optimal flexibility and performance, the modular headset can be easily configured to meet a wide range of mission needs.

FIXED DOWNLEAD
All the same features of the Connectorized AMP Communication Headset with a permanently attached, integrated downlead cable, as opposed to the removable one of the Connectorized version.

• Available in both Amphenol and U174 versions
• World-class audio quality provides the ability to operate in combat environments
• 2D 3D Hear-Through Technology (3DHT) restores and enhances “natural hearing” of outside environment for improved situational awareness
• Enhanced Hearing allows the operator to boost their hearing up to +12dB
• Mission Configurable Capability enables the headset to be quickly configured between traditional headband and helmet-mouted configurations
• Dual-Release Downlead Connections on each earcup allow the operator to easily configure between single, dual, or no downlead configurations
• Optional NFM (Near Field Magnetic) Earplugs provide increased noise reduction, while maintaining clear communication and 3DHT ability. NFM Earplugs do not require wires or batteries. NOTE: Compatibility with NFM-enabled headsets only
• Fail-Safe Communications provides confidence that in the event of battery loss, 3DHT will power off, but the headset and earplugs will still be able to transmit and receive communication
• Ambidextrous Noise-Cancelling Microphone mitigates background noise enabling clear communication. Can be mounted to left or right earcup or removed as preferred, without tools
• Mask microphone compatibility via integrated microphone mounting & connection point enables easy integration with any U-173/U standard plug, commonly found on respirator, gas, and oxygen masks
• Ergonomic Earseals designed for optimal comfort and noise reduction utilizing superior materials
• The AMP Communication Headset is Berry Amendment compliant and CE approved EN352

AMP Skins
AMP Skins can be added to provide additional signature management.

PATTERN OFFERINGS

Situational Awareness
Situational Awareness
Situational Awareness

For complete product details, go to gentexcorp.com/ground

COLOR OFFERINGS

Tan 499
Black
Urban Gray
Foliage Green

PATTERN OFFERINGS

MultiCam®
MultiCam® Urban
MultiCam® Black
MultiCam® Coyote
Silicon in MultiCam®

MultiCam®
MultiCam® Urban
MultiCam® Black
MultiCam® Coyote
Silicon in MultiCam®
AMP Communication Headset Downlead Cables

- Provides high-quality, environmentally sealed connection points
- Fischer to U174
- Single Modular PPT Radio Cable
- Dual Modular PPT Radio Cable
- U94 PTT

AMP Helmet Rail Mount Kit

- Rail arms can be mounted to the rear of the ARC Rail system, leaving the top portion of the rail free for other accessories, while increasing helmet maneuverability by enhancing counterbalance and stability
- A single-point grommet attachment to the casings allows for 360° adjustment
- Slightly tapered rubber mount allows for easy insertion into rail
- Allows for single-side or single-side configuration when not in use, creating a very low profile

NFMI Earplugs

- The addition of optional wireless NFMI earplugs provides increased noise reduction, while maintaining clear communications and hear-through audio. When engaged, the NFMI earplug will seamlessly integrate, providing unrivaled hearing protection capability
- Do not need batteries, recharging, or any wired connection
- The kit ships with standard, slim, and large Comply™ foam tips to accommodate a wide variety of users

Push-To-Talks (PTTs)

- Used to connect the AMP Communication Headset to various radios
- Rugged over-molded construction
- Features a removable alligator clip
- Reversed actuator prevents accidental triggering, while still accommodating gloved hand use
- Available with straight wired radio connections, or modular which allows for interchangeable radio downleads
- Available with Amphenol input connectors or U94 (for use with U174 downleads)
- Single Modular PPT Radio Cable
- Dual Modular PPT Radio Cable
- U174 to U174
- LiFe PTT

For complete product details, go to pentexcorp.com/ground
The Gentex LVIS® m5i is a compact and lightweight intercom system designed for crew communications and radio access in tactical vessels and vehicles. The system is designed to be adaptable and configurable to meet a crew's mission needs. The basic system accommodates up to five crew members and three long-range radios.

- Delivers full-duplex intercommunications among crewmembers with a single crew volume control knob for a 28dB range of listening volume adjustment
- Compatible with military and commercial radios
- Compatible with the Ops-Core AMP Communication Headset
- Meets military specifications and standards including MIL-Std-461 and MIL-Std 810

For complete product details, go to gentexcorp.com/ground
Armor crewmen assigned to Task Force Raider during a pre-deployment training exercise at Fort Hood, Texas, August 18.

Photo By: Army Sarah Kirby

For complete product details, go to gentexcorp.com/ground
Half-mask Special Operations Tactical Respirator (SOTR) is designed to provide protection against a wide range of air and non-oil-based particulate contaminants encountered by Special Operations forces during training and in operational environments. The low-profile design offers protection without interfering with operator’s tactics, techniques, and procedures (TTP) and seamlessly interfaces with weapon systems for optimal effectiveness.

- Offers P100 (99.97%) efficiency against airborne particulates including lead, asbestos, fentanyl, lubricant mist, and explosive gunfire residue.
- Central mounted filter to allow ambidextrous weapon sighting.
- Two exhalation valves for easier breathing under extreme use.
- Non-microphone and microphone versions available, compatible with standard ground communications headsets to enable radio communications.

SOTR O2 Strap Harness Accessory
Allows the user to quickly attach the SOTR to their helmet using the O2 clip receiver on the ARC Rail. The standard strap can be quickly unsnapped and replaced with the O2 version. Sold separately.

SOTR Replacement Filters
Easy to change out, keep a supply of these fresh, highly efficient, filters at hand.
- Offers P100 (99.97%) efficiency against airborne particulates including lead, asbestos, fentanyl, lubricant mist, and explosive gunfire residue.
- Central mounted filter to allow ambidextrous weapon sighting.
- Two exhalation valves for easier breathing under extreme use.
- Non-microphone and microphone versions available, compatible with standard ground communications headsets to enable radio communications.

Respiratory
SOTR

150 ohm Mask Mic
A noise-canceling, dynamic, respiratory mask microphone designed for the Ops-Core SOTR.
- Optimal design, seamlessly integrates into the respiratory mask for maximum performance.

For complete product details, go to gentexcorp.com/ground.
## Performance Data

Ballistic specs have primarily been derived from government contracts and law enforcement requirements for handgun, rifle, and fragmentation. From our beginnings, we’ve designed and tested to exceed the minimum standard being requested. Our goal is to give the wearer confidence that their helmet is going to perform even in the most demanding conditions.

### Standards

<table>
<thead>
<tr>
<th>Helmet</th>
<th>FAST SF</th>
<th>FAST XP</th>
<th>FAST LE</th>
<th>SENTRY XP</th>
<th>SENTRY LE</th>
<th>TBH-R1</th>
<th>TBH-IIIA</th>
</tr>
</thead>
<tbody>
<tr>
<td>2 grain</td>
<td>4,000 ft (1,220 m/s)</td>
<td>4,000 ft (1,220 m/s)</td>
<td>N/A</td>
<td>4,000 ft (1,220 m/s)</td>
<td>N/A</td>
<td>6,000 Ft (1,829 m/s)</td>
<td>4,200 ft (1,280 m/s)</td>
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<tr>
<td>4 grain</td>
<td>3,475 ft (1,059 m/s)</td>
<td>3,475 ft (1,059 m/s)</td>
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<td>3,475 ft (1,059 m/s)</td>
<td>N/A</td>
<td>5,940 ft (1,818 m/s)</td>
<td>3,475 ft (1,059 m/s)</td>
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<tr>
<td>16 grain</td>
<td>2,475 ft (747 m/s)</td>
<td>2,475 ft (747 m/s)</td>
<td>N/A</td>
<td>2,475 ft (747 m/s)</td>
<td>N/A</td>
<td>4,500 ft (1,371 m/s)</td>
<td>2,475 ft (747 m/s)</td>
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<tr>
<td>64 grain</td>
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<td>1,700 ft (513 m/s)</td>
<td>N/A</td>
<td>1,700 ft (513 m/s)</td>
<td>N/A</td>
<td>2,940 ft (893 m/s)</td>
<td>1,700 ft (513 m/s)</td>
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<tr>
<td>17 grain</td>
<td>2,207 ft (672 m/s)</td>
<td>2,207 ft (672 m/s)</td>
<td>2,020 ft (617 m/s)</td>
<td>2,207 ft (672 m/s)</td>
<td>2,020 ft (617 m/s)</td>
<td>3,250 ft (987 m/s)</td>
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<td>7.62 x 51 NATO M80 Ball, 150gr</td>
<td>N/A</td>
<td>N/A</td>
<td>N/A</td>
<td>N/A</td>
<td>N/A</td>
<td>2,400 ft (729 m/s)</td>
<td>N/A</td>
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<tr>
<td>.44 Magnum 240gr SWGC</td>
<td>1,105 ft (336 m/s)</td>
<td>1,400 ft (427 m/s)</td>
<td>1,400 ft (427 m/s)</td>
<td>1,400 ft (427 m/s)</td>
<td>1,400 ft (427 m/s)</td>
<td>1,420 ft (433 m/s)</td>
<td>1,400 ft (427 m/s)</td>
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<tr>
<td>9mm 124gr FMJ RN and 44 Cal Magnum 240gr SWCGC</td>
<td>N/A</td>
<td>N/A</td>
<td>N/A</td>
<td>N/A</td>
<td>N/A</td>
<td>1,430 ft (435 m/s)</td>
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<tr>
<td>.44 Magnum 240gr SWGC</td>
<td>N/A</td>
<td>N/A</td>
<td>N/A</td>
<td>N/A</td>
<td>N/A</td>
<td>1,017 ft (309 m/s)</td>
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<tr>
<td>7.62 x 55in M5, 86 grain</td>
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<td>N/A</td>
<td>N/A</td>
<td>N/A</td>
<td>1,475 ft (448 m/s)</td>
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<tr>
<td>.40 Cal S&amp;W 180gr, 100 grain</td>
<td>N/A</td>
<td>N/A</td>
<td>N/A</td>
<td>N/A</td>
<td>N/A</td>
<td>1,025 ft (313 m/s)</td>
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<tr>
<td>7.62 x 51 NATO M80 Ball, 150gr</td>
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<td>N/A</td>
<td>N/A</td>
<td>N/A</td>
<td>N/A</td>
<td>2,400 ft (729 m/s)</td>
<td>N/A</td>
</tr>
</tbody>
</table>

**FAST SF Headborne System**

- 2 grain RRC
- 4 grain RRC
- 16 grain RRC
- 64 grain RRC
- 17 grain RRC
- 7.62 x 51 NATO M80 Ball, 150gr
- .44 Magnum 240gr SWGC
- 9mm 124gr FMJ RN and .44 Cal Magnum 240gr SWCGC
- 7.62 x 55in M5, 86 grain
- .40 Cal S&W 180gr, 100 grain
- 7.62 x 51 NATO M80 Ball, 150gr

**FAST SF Performance Specifications**

- Ballistic performance exceeds NIJ Standard 0108.01 Type IIA Threats (9mm 124gr FMJ RN and .44 Cal Magnum 240gr SWCGC)
- Tests performed in accordance with NIJ Standard 0101.06
- Testing performed in accordance with NIJ Standard 0106.01

For complete product details, go to gentexcorp.com/ground
**FAST LOW PROFILE BALLISTIC APPLIQUE**

- 2 grain (V50) N/A
- 4 grain (V50) 640 f/s (190 m/s)
- 16 grain (V50) 825 f/s (248 m/s)
- 64 grain (V50) 1,195 f/s (362 m/s)
- 17 grain / 1.1 FPS (GSP) 1,400 f/s (427 m/s)

*Mainly used for training purposes.*

- 4,075 f/s (1,242 m/s)
- 3,450 f/s (1,051 m/s)
- 2,425 f/s (739 m/s)
- 1,700 f/s (518 m/s)
- 1,195 f/s (364 m/s)

**PERFORMANCE DATA**

**FAST BALLISTIC MANDIBLE**

- 2 grain (V50) 4,075 f/s (1,242 m/s)
- 4 grain (V50) 3,450 f/s (1,051 m/s)
- 16 grain (V50) 2,425 f/s (739 m/s)
- 64 grain (V50) 1,700 f/s (518 m/s)
- 17 grain / 1.1 FPS (GSP) N/A
- 9mm FRJ RM (GSP) at 3.88gsh

**FAST SIDE ARMOR**

- 2 grain (V50) N/A
- 4 grain (V50) 2,200 f/s (670 m/s)
- 16 grain (V50) 1,200 f/s (365 m/s)
- 64 grain (V50) 550 f/s (168 m/s)
- 17 grain / 1.1 FPS (GSP) N/A
- 9mm FRJ RM (GSP) at 3.88gsh

**FORCE-ON-FORCE MANDIBLE**

Ballistic Resistance: RTP 7.62 x 51 UTM round at 375 f/s.

The Force-on-Force Mandible does not provide protection outside the coverage area designated by the rigid polymer frame and conformable fabric cover.

*Mainly used for training purposes.*

**HANDGUN FACE SHIELD**

- 2 grain (V50) N/A
- 4 grain (V50) N/A
- 16 grain (V50) N/A
- 64 grain (V50) N/A
- 17 grain / 1.1 FPS (GSP) N/A
- 9mm FRJ RM (GSP) at 3.88gsh

**PVS-31 NVG SNAP SHIELDS**

- 2 grain (V50) N/A
- 4 grain (V50) N/A
- 16 grain (V50) N/A
- 64 grain (V50) N/A
- 17 grain / 1.1 FPS (GSP) N/A
- 9mm FRJ RM (GSP) at 3.88gsh

**STANDARDS**

Training and testing in accordance with the following standards:

- Fast Ballistic MANDIBLE
- Fast Side Armor
- Fast Low Profile Ballistic Applique

**PERFORMANCE DATA**

**FAST VISOR**

- 2 grain (V50) N/A
- 4 grain (V50) N/A
- 16 grain (V50) N/A
- 64 grain (V50) N/A
- 17 grain / 1.1 FPS (GSP) N/A
- 9mm FRJ RM (GSP) at 3.88gsh

**SENTRY VISOR**

- 2 grain (V50) N/A
- 4 grain (V50) N/A
- 16 grain (V50) N/A
- 64 grain (V50) N/A
- 17 grain / 1.1 FPS (GSP) N/A
- 9mm FRJ RM (GSP) at 3.88gsh

**STEP-IN VISOR**

- 2 grain (V50) N/A
- 4 grain (V50) N/A
- 16 grain (V50) N/A
- 64 grain (V50) N/A
- 17 grain / 1.1 FPS (GSP) N/A
- 9mm FRJ RM (GSP) at 3.88gsh

Fast Profile Ballistic Applique on the Ops-Core FAST Ballistic Mandible.

Ballistic Protection:

- MIL-PRF-32432
- ANSI Z87.1

**BASELINE VISOR**

Testing performed in accordance with the following specifications:

- Modified and Abbreviated NIJ Standard 0106.01 Ballistic Helmets using NIJ Standard 0108.01 Ballistic Materials Level IIIA threats (9mm 124gr FMJ at 1400 fps and .44 Cal Magnum 240gr SWCGC at 1400 fps)
- Military Standard 662

Visor does not make contact with the face after impact of 1kg ball dropped from height of 0.8 meters per NIJ 0104.02 Requirement 4.2.6.

- The NVG Snap Shields meet ANSI Z87.1
Ballistic specs are primarily derived from government contracts and law enforcement requirements for handgun, rifle, and fragmentation. Gentex designs and tests helmets to exceed the minimum standards. The goal is to give the wearer confidence that their helmet is going to perform in the most demanding conditions.

**RIGOROUS TESTING**

**BLUNT IMPACT**

This measure evaluates impacts from falls and flying objects in threat environments. A helmeted headform is mounted to a sliding rack and dropped onto an anvil. Two drops at each of five locations on the helmet and under three temperature conditions, are performed. Per ACH CO/PD-05-04, G-forces are then recorded with a maximum threshold of 150 Gs to prevent concussion or fracture. All Gentex and Ops-Core helmets are tested to this exacting impact standard.

**PROTECTED HEAD SURFACE AREA**

<table>
<thead>
<tr>
<th>Helmet</th>
<th>Coverage</th>
<th>Surface Area</th>
</tr>
</thead>
<tbody>
<tr>
<td>FAST SF</td>
<td>164.5 in² (1075 cm²)</td>
<td></td>
</tr>
<tr>
<td>FAST XP</td>
<td>166.6 in² (1084 cm²)</td>
<td></td>
</tr>
<tr>
<td>FAST SF CARBON COMPOSITE</td>
<td>170.7 in² (1132 cm²)</td>
<td></td>
</tr>
<tr>
<td>FAST BUMP</td>
<td>169.7 in² (1123 cm²)</td>
<td></td>
</tr>
<tr>
<td>FAST LE</td>
<td>169.7 in² (1123 cm²)</td>
<td></td>
</tr>
<tr>
<td>SENTRY XP</td>
<td>171.4 in² (1139 cm²)</td>
<td></td>
</tr>
<tr>
<td>SENTRY LE</td>
<td>167.7 in² (1112 cm²)</td>
<td></td>
</tr>
<tr>
<td>TBH-R1</td>
<td>173.6 in² (1143 cm²)</td>
<td></td>
</tr>
<tr>
<td>TBH-IIA MC</td>
<td>173.6 in² (1143 cm²)</td>
<td></td>
</tr>
</tbody>
</table>

All coverage measurements based on size L helmets.

All systems meet the requirement of 2 impacts on 7 locations with 10 ft/s velocity all measurements < 150 Gs in ambient, hot and cold conditions.
 Choices about weight are often driven by the daily duration of wear and the extent of movement of the user. Special Forces teams tend to prefer lighter weights, while conventional forces more often select heavier helmets that maximize coverage and protection. Weight is driven by cut and shell material. Most prevalent today is an aramid (Kevlar®) shell with lighter – but more expensive – polyethylene shells rapidly gaining adoption.

**ENVIRONMENTAL TESTING**

Gentex derives its tests from the toughest standardized military requirements. To test submersion, helmets are soaked in water for 12 hours. For temperature tolerance, helmets are subjected to heat at 160°F/71°C, ambient temperature, and cold at -40°F/-40°C. Then, they undergo a full battery of function, ballistic and impact tests. Additionally, helmets are tested against caustic and corrosive agents like gasoline, DEET, salt spray, and petroleum products.

**WEIGHT**

<table>
<thead>
<tr>
<th>Helmet</th>
<th>Weight (Size Large)</th>
<th>Weight (Size Small)</th>
</tr>
</thead>
<tbody>
<tr>
<td>FAST SF</td>
<td>Shell Only: 1.44 lbs (653 g)</td>
<td>Complete System: 2.25 lbs (1019 g) to 2.40 lbs (1089 g)</td>
</tr>
<tr>
<td>FAST LE</td>
<td>Shell Only: 2.39 lbs (1085 g)</td>
<td>Complete System: 3.20 lbs (1451 g) to 3.35 lbs (1519 g)</td>
</tr>
<tr>
<td>FAST XP</td>
<td>Shell Only: 1.68 lbs (762 g)</td>
<td>Complete System: 2.55 lbs (1157 g) to 2.84 lbs (1301 g)</td>
</tr>
<tr>
<td>SENTRY XP</td>
<td>Shell Only: 2.03 lbs (916 g)</td>
<td>Complete System: 2.83 lbs (1310 g) to 2.98 lbs (1352 g)</td>
</tr>
<tr>
<td>SENTRY LE</td>
<td>Shell Only: 2.58 lbs (1171 g)</td>
<td>Complete System: 3.38 lbs (1533 g) to 3.53 lbs (1601 g)</td>
</tr>
</tbody>
</table>

*FAST LE and Sentry LE do not include Ballistic Transient Deformation (BTD) conditions.

**COMPRESSION RESISTANCE**

- 400 lbs Top to Bottom Compression:
  - 0.020” (0.508 mm) max dimensional change after compression

- 300 lbs Side to Side Compression:
  - 0.138” (3.51 mm) max dimensional change after compression

*For complete product details, go to gentexcorp.com/ground
We Serve Customers Worldwide

We work to serve our customers wherever they need us, supporting militaries and security teams in the U.S. and around the world for over 100 years. Dedicated teams at our four facilities in the U.S., two European operations, and a global network of sales offices and agents in over 40 countries are ready to support you.

We Offer the Power of Gentex Corporation Locally

Partner with a local authorized Gentex Corporation distributor/agent to get our industry-leading products plus all the benefits of working with a local company. To find a location near you, visit gentexcorp.com/contact.

Responsive, World-Class Maintenance Support

To help maintain product performance, we offer replacement parts and maintenance programs for all our fielded systems. This keeps the equipment performing as well as it did when new, and in many cases, even better with the advancement of new components.

USA Air Force Senior Airman Fermin Garcia III readies a fuel hose for storage at Libby Army Airfield, Ariz., Nov. 4, 2019, during Bushwhacker, an exercise focused on dynamic force employment.

Photo By: Air Force Staff Sgt. Sergio Gamboa

For complete product details, go to gentexcorp.com/ground