



## PRODUCT CATALOG

SCALABLE HELMET SYSTEMS AND COMPONENTS

Advanced Head Protection and Situational Awareness for the Elite Warrior

# PROTECTING THE ELITE WARRIOR

## TRUE SYSTEM LEVEL PERFORMANCE

Designed to seamlessly integrate, our comprehensive suite of scalable head protection helmet systems and components provide the warfighter with true system level performance. We continually strive to advance performance and protection capabilities of both new products and existing battle proven designs. And, we're dedicated to getting these products in the hands of the warfighter as quickly and easily as possible. From fielding the lightest integrated helmets in the world to providing holistic headborne systems, our focus and dedication remains the same—protecting the elite warrior.

### INTEGRATED MODULAR DESIGN

» Ops-Core® continues its tradition of enabling the user to concentrate on their operations by offering helmet systems with performance enhancing components that can be assembled quickly and easily. In order for different combinations of components to work together and achieve a desired capability, each use case scenario is carefully considered during the development of the system. Only after the optimal performance of the system has been demonstrated can it then be broken down into a set of modular components. This approach to product integration at Ops-Core has resulted in a helmet system with components that work together seamlessly and allow the soldier to focus on the mission, instead of their equipment setup.

### OPEN ARCHITECTURE

» To provide maximum flexibility and forward compatibility, our helmets are designed to easily integrate and work with both Ops-Core and other third party components. No longer is the soldier limited to one company's solutions or a particular set of equipment. Instead, they are free to choose from a variety of manufacturers and options, providing even greater opportunity for customization of the complete helmet system.

### COMPREHENSIVE CAPABILITIES

» Today's warfighter is faced with a diverse and ever changing set of mission requirements to be carried out in some of the harshest environments on earth. This requires their equipment to be equally advanced and capable of providing the same level of versatility. At Ops-Core, we continually work to improve our helmet system capabilities, which currently include: head protection, communications, situational awareness, eye protection, respiratory protection, scalable ballistic coverage, night vision integration, IFF identification, integrated power and data, and signature management.

### INNOVATIVE PRODUCTS

» Our expert design team collaborates with end-users to deliver high quality solutions that often exceed expectations and program requirements. We use each development opportunity to set a new bar that pushes performance limits to the extent that technology will allow. This commitment to excellence is demonstrated in our latest innovations that include the Ops-Core Advanced Combat Helmet (ACH) Upgrade Kit, which allows customers to cost effectively upgrade a standard ACH to a helmet system platform; the Ops-Core ACH Survivability Kit (mandible and visor kit); and advancements to our Ops-Core RAC headset, which provides true 3D technology for hearing protection and improved situational awareness.

## PRICE, WEIGHT & PERFORMANCE

» Several of our helmets are offered in different ballistic materials to give customers more choices in the level of threat protection, weight, and price. Many of our distinct helmet platforms also utilize the same impact liners, retention and integration components to maintain compatibility with their lineage as well as future system components. This not only helps customers match the best equipment with their needs, but also helps programs outfit more personnel with the best equipment for a variety of duty positions while keeping within budgetary and logistic constraints.

## PROVEN PERFORMANCE

» With leading edge design, and field proven performance and reliability, Ops-Core has become the preferred supplier of helmet systems by global Special Operation Forces. 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 it was new, and in many cases even better with the advancement of new components.

## EASIER, FASTER DELIVERY

» To meet the growing demand for easier and faster delivery of products, we've increased our manufacturing resources, equipment, and facility space three-fold over the past few years by leveraging the resources and technology of our parent company, Gentex Corporation. Also contributing to customer satisfaction in this area are LEAN production practices, inventory stocking, and continued investment in automation. We will continue our trend of significant improvement in delivery lead times.

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# SYSTEM CAPABILITIES

Ops-Core helmet platforms can be configured with various system components to provide a variety of capabilities for missions and duty positions. These include use for night and airborne operations, mission documentation, breaching, off-road vehicle use, and mounted vehicle crew use.

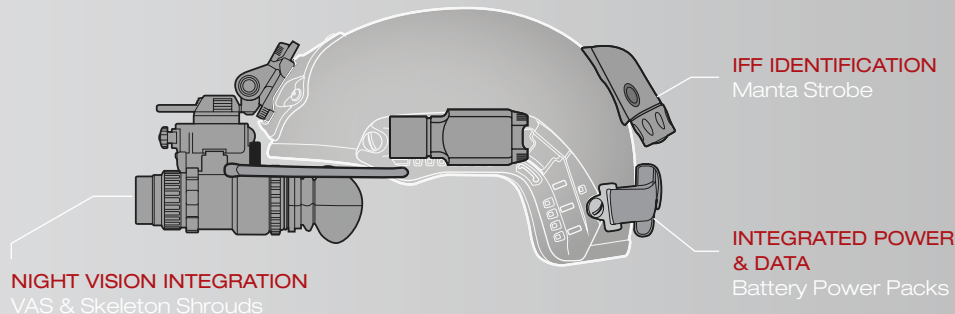
## NIGHT OPERATIONS

- » The patented Ops-Core Head-Loc™ chinstrap and Ops-Core Worm-Dial liner system provide greater helmet comfort and stability when used in conjunction with night vision goggles
- » The chinstrap's unique strap geometry and Head-Loc adjustment tabs lock the chinstrap at any position without loose ends
- » The Ops-Core Rail Bungees eliminate NVG rattle and vibration while providing extra security to their attachment



## AIRBORNE OPERATIONS

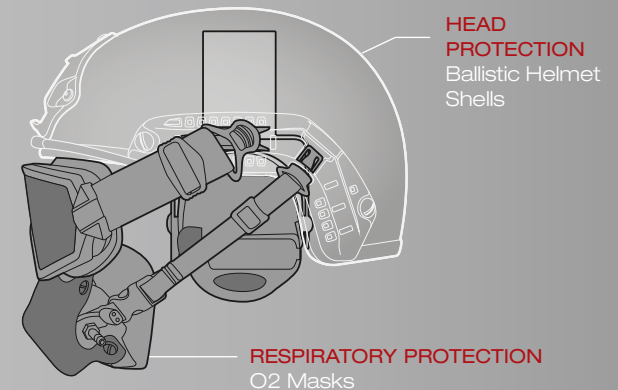
- » The Ops-Core Accessory Rail Connectors (ARCs) are mounted to the sides of the helmet to allow for quick yet secure donning or doffing of various headborne accessories
- » The ARCs are designed to emergency release accessories at 8ft-lbs (11 Newton meters) of torque to prevent neck injuries in the event of snagging
- » The Ops-Core O2 Mask Single Strap Kits easily attach to the ARCs and are compatible with Carleton Phantom & Para-Flite Phaos masks



IFF IDENTIFICATION  
Manta Strobe

INTEGRATED POWER  
& DATA  
Battery Power Packs

NIGHT VISION INTEGRATION  
VAS & Skeleton Shrouds



HEAD  
PROTECTION  
Ballistic Helmet  
Shells

RESPIRATORY PROTECTION  
O2 Masks



## MISSION DOCUMENTATION

- » The ARCs allow for streamlined mounting of devices such as IR illuminators, lights, video cameras, IFF devices, Peltor Headsets and Vuzix HMDs
- » The Ops-Core shrouds provide a front mounting option for video cameras and illuminators
- » Helmets are compatible with various communication devices including headband style headsets and ARC mounted COMMs



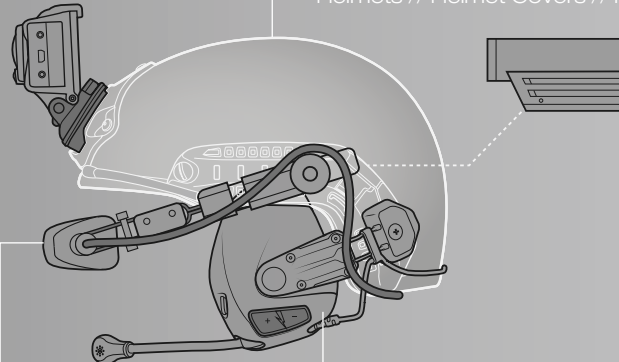
## BREACHING / ATV

- » The Ops-Core Gunsight Mandible and the Ops-Core Side Armor offer additional coverage for protection from fragments and debris encountered during breaching and off-road vehicle exercises
- » The ARCs and Ops-Core Skeleton Shroud are compatible with ballistic visors to offer several options for fully integrated face protection



### SIGNATURE MANAGEMENT

Helmets // Helmet Covers // Mandibles



### SITUATIONAL AWARENESS

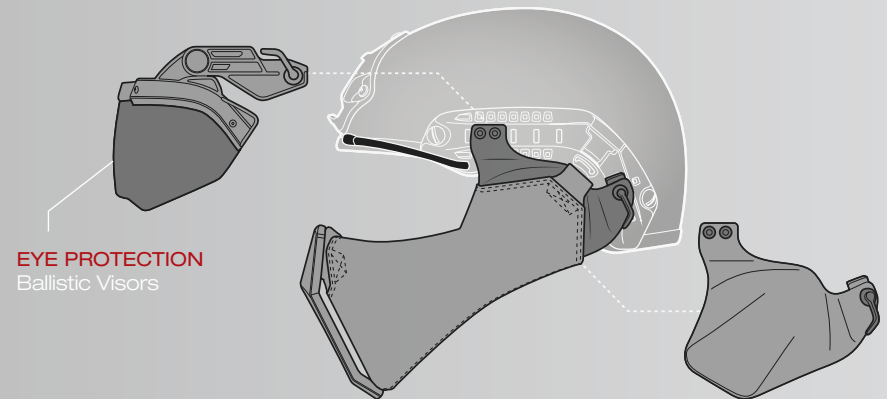
Helmet Mounted Display

### COMMUNICATIONS

RAC Headset

### SCALABLE BALLISTIC COVERAGE

Mandibles // Visors // Side Armors



### EYE PROTECTION

Ballistic Visors

# SYSTEM FEATURES

Ops-Core helmet platforms are comprised of features that carefully balance protection and comfort to provide the foundation for additional situational awareness and protective capabilities. Once combined, the resulting system has performance greater than the sum of its parts.



# BALLISTIC PERFORMANCE

**FAST MARITIME****FAST HIGH CUT (XP)****SENTRY (XP)****OPS-CORE  
HELMETS**

Testing performed  
in accordance with the  
following specifications:

USSOCOM  
Maritime Specification  
CO/PD-2010

US ARMY  
Portions of ACH  
CO/PD-05-04:2007

US ARMY  
ACH Specification  
CO/PD-05-04:2007

**2 grain** (V50)

4075 f/s (1242 m/s)

4200 f/s (1280 m/s)

4200 f/s (1280 m/s)

**4 grain** (V50)

3450 f/s (1051 m/s)

3475 f/s (1059 m/s)

3475 f/s (1059 m/s)

**16 grain** (V50)

2425 f/s (739 m/s)

2475 f/s (754 m/s)

2475 f/s (754 m/s)

**64 grain** (V50)

1700 f/s (518 m/s)

1750 f/s (533 m/s)

1750 f/s (533 m/s)

**17 gr / 1.1 FSP** (V50)

2200 f/s (670 m/s)

2379 f/s (725 m/s)

2379 f/s (725 m/s)

**9mm FMJ RN**  
(V0 at 0° Obliquity)1200 f/s (366 m/s)  
BFD < 1.0" (25.4mm)1400 f/s (427 m/s)  
BFD < 1.0" (25.4mm)1400 f/s (427 m/s)  
BFD < 1.0" (25.4mm)**TBH-II****ACH/  
LIGHTWEIGHT TBH****DH-132****GENTEX  
HELMETS**

US ARMY  
ACH Specification  
CO/PD-05-04 AR/PD 10-02

US ARMY  
ACH Specification  
CO/PD-05-04 AR/PD 10-02

US ARMY  
ACVC-H AR/PD 12-03  
Rev C May 2013

4200 f/s (1280 m/s)

4200 f/s (1280 m/s)

4200 f/s (1280 m/s)

3475 f/s (1059 m/s)

3475 f/s (1059 m/s)

3475 f/s (1059 m/s)

2475 f/s (754 m/s)

2475 f/s (754 m/s)

2475 f/s (754 m/s)

1750 f/s (533 m/s)

1750 f/s (533 m/s)

1750 f/s (533 m/s)

2200 f/s (670 m/s)

2200 f/s (670 m/s)

2200 f/s (670 m/s)

1400 f/s + 50 – 0 (427 m/s)  
Front/Back BFD < 1.0" (25.4mm)  
Sides/Crown BFD < 0.63" (16mm)1400 f/s + 50 – 0 (427 m/s)  
Front/Back BFD < 1.0" (25.4mm)  
Sides/Crown BFD < 0.63" (16mm)1400 f/s + 50 – 0 (427 m/s)  
V0 (Crown, Front & Back)**FAST VISOR****9mm VISOR****MOTO/ACH MANDIBLE****MOTO/ACH VISOR****FAST SIDE ARMOR****GUNSIGHT MANDIBLE****PROTECTIVE  
COMPONENTS**

Testing performed  
in accordance with the  
following specifications:

MIL-DTL-43511D  
NIJ 0104.02

US ARMY  
Portions of ACH  
CO/PD-05-04:2007

US ARMY  
Portions of ACH  
CO/PD-05-04:2007

MIL-DTL-43511D  
NIJ 0104.02

US ARMY  
Portions of ACH  
CO/PD-05-04:2007

US ARMY  
Portions of ACH  
CO/PD-05-04:2007

**2 grain** (V50)

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4200 f/s (1280 m/s)

3100 f/s (945 m/s)

**4 grain** (V50)

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3475 f/s (1059 m/s)

2550 f/s (777 m/s)

**16 grain** (V50)

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2475 f/s (754 m/s)

2250 f/s (686 m/s)

**64 grain** (V50)

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**17 gr / 1.1 FSP** (V50)

825 f/s (251 m/s)

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1800 f/s (549m/s)

825 f/s (251 m/s)

2200 f/s (670 m/s)

2200 f/s (670 m/s)

**9mm FMJ RN**  
(V0 at 0° Obliquity)

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1400 f/s (427 m/s)

1400 f/s (427 m/s)

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1200 f/s (366 m/s)

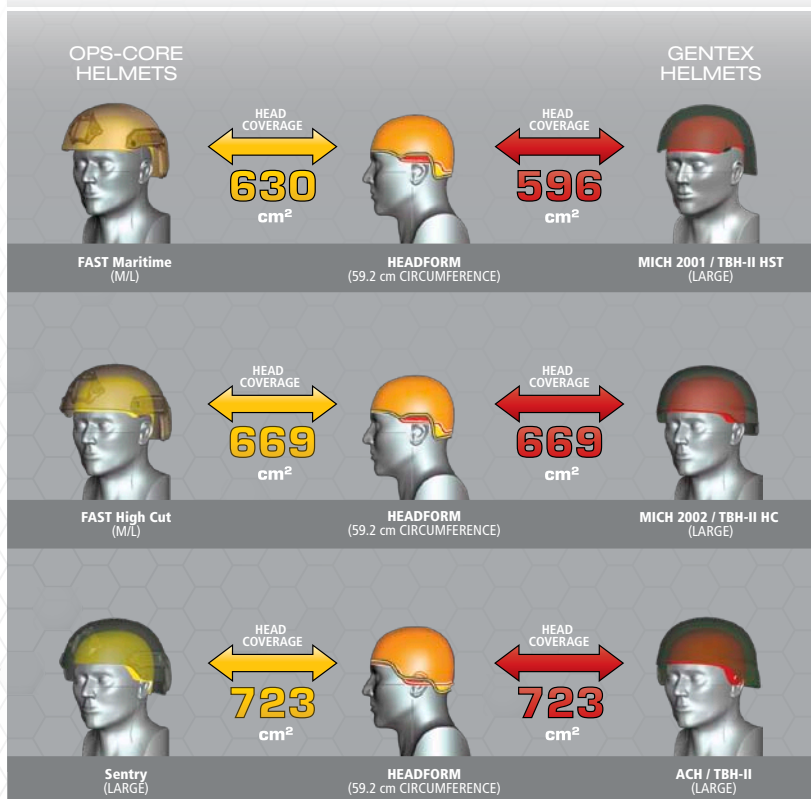
1200 f/s (366 m/s)

# BASE LEVEL HEAD COVERAGE

## UNDERSTANDING COVERAGE

Traditional methods for determining the amount of protective coverage a helmet provides are based on calculating the exterior surface area of the helmet shell. This approach can be misleading when comparing different helmet shapes because a larger helmet surface area does not necessarily mean more head coverage area. We use standardized computer modeling techniques to project a line-of-sight “shadow” from the helmet onto the largest headform for a given helmet size. The surface area of this shadow is then measured to yield the true amount of the head that is actually protected, yielding an accurate representation of protective coverage.

### COVERAGE PROJECTION COMPARISON



### OPS-CORE HELMETS

	cm² of coverage on a 57.3 cm circumference head	cm² of coverage on a 59.2 cm circumference head	cm² of coverage on a 61.3 cm circumference head
<b>FAST Maritime</b>	<b>S/M</b>	<b>M/L</b>	<b>L/XL</b>
Head Coverage	93.6 in² (604 cm²)	97.7 in² (630 cm²)	104 in² (671 cm²)
Shell Surface Area	145.7 in² (940 cm²)	156 in² (1006 cm²)	170.4 in² (1099 cm²)
<b>FAST High Cut</b>	<b>S/M</b>	<b>M/L</b>	<b>L/XL</b>
Head Coverage	98.6 in² (636 cm²)	103.7 in² (669 cm²)	109.6 in² (707 cm²)
Shell Surface Area	153.2 in² (988 cm²)	164.8 in² (1063 cm²)	179.3 in² (1157 cm²)
<b>Sentry</b>	<b>M</b>	<b>L</b>	<b>XL</b>
Head Coverage	104.7 in² (675 cm²)	112 in² (723 cm²)	120.2 in² (775 cm²)
Shell Surface Area	171.7 in² (1108 cm²)	179.7 in² (1159 cm²)	191.2 in² (1233 cm²)

### GENTEX HELMETS

	cm² of coverage on a 57.2 cm circumference head	cm² of coverage on a 59.2 cm circumference head	cm² of coverage on a 61.3 cm circumference head
<b>TBH-II HST</b>	<b>M</b>	<b>L</b>	<b>XL</b>
Head Coverage	85.9 in² (554 cm²)	92.4 in² (596 cm²)	97.2 in² (627 cm²)
Shell Surface Area	144.9 in² (935 cm²)	154.3 in² (996 cm²)	166.3 in² (1073 cm²)
<b>TBH-II HC</b>	<b>M</b>	<b>L</b>	<b>XL</b>
Head Coverage	96.6 in² (623 cm²)	103.6 in² (669 cm²)	110 in² (710 cm²)
Shell Surface Area	157.6 in² (1018 cm²)	167.4 in² (1080 cm²)	177.3 in² (1144 cm²)
<b>ACH / TBH-II</b>	<b>M</b>	<b>L</b>	<b>XL</b>
Head Coverage	105.7 in² (682 cm²)	112.1 in² (723 cm²)	121.1 in² (7781 cm²)
Shell Surface Area	168.1 in² (1084 cm²)	178.8 in² (1154 cm²)	192.7 in² (1243 cm²)

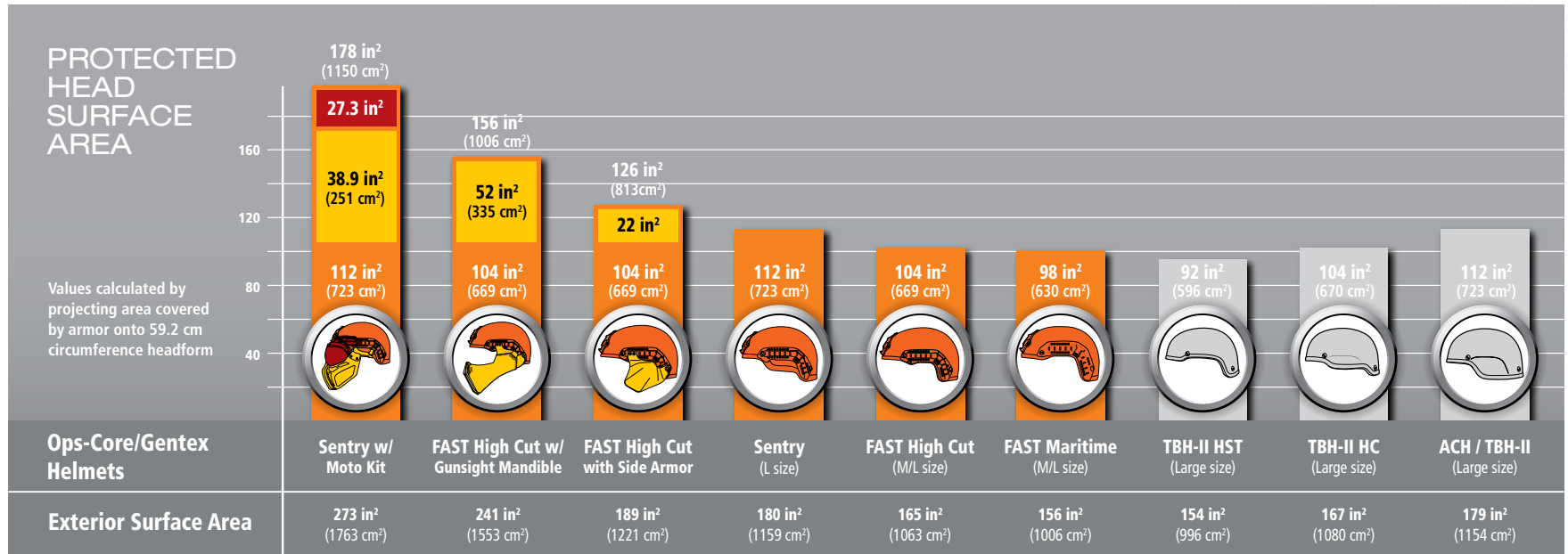
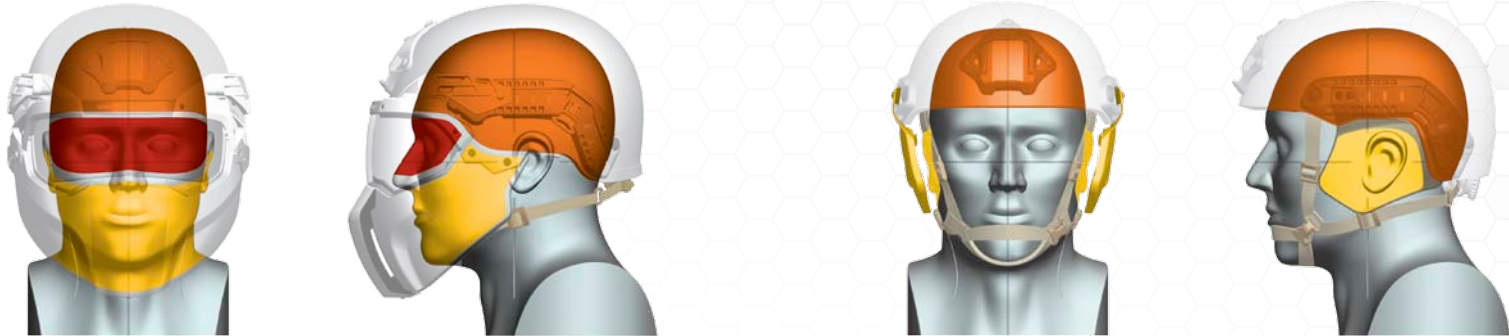
\*XXL Sizes are not shown



# SYSTEM LEVEL HEAD COVERAGE

## INTEGRATED SYSTEM PROTECTION

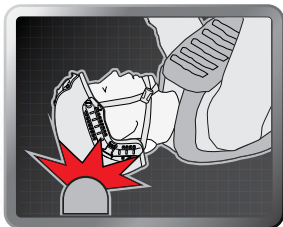
The Ops-Core helmet platforms provide on-the-fly capability to customize the amount of head and face coverage for maximum protection.



# BLUNT IMPACT PROTECTION

Ops-Core helmets provide head protection against low speed impact trauma in an extreme range of temperature conditions when subjected to stringent U.S. Army testing requirements.

## TEST STANDARD



**U.S. ARMY**

**ACH Specification**  
CO/PD-05-04:2007

## TEST PERFORMANCE / RESULTS

### TEST DETAILS

**Threat Description:** Hemi Anvil x2 Impacts: 10 f/s (3 m/s)

**Environmental Conditions:** Blunt Impact: 14°F / 77°F / 130°F (-10°C / 25°C / 54°C)

**Test Requirement:** Less than 150 Gs force transmitted to head / brain

### PROTECTIVE SYSTEMS



FAST  
Maritime



FAST  
High Cut



FAST  
Carbon



FAST  
Base Jump



SENTRY



TBH-II



ACH /  
Lightweight TBH



DH-132AS  
CVC Helmet

ALL SYSTEMS MEET THE REQUIREMENT OF <150 Gs



# WEIGHT SUMMARY

FAST HIGH CUT		M 53 - 56 cm	L 56 - 59 cm	XL 59 - 62 cm	XXL 62 - 64.5 cm
XP	Shell Only	1.63 lbs (739 g)	1.80 lbs (815 g)	1.99 lbs (903 g)	2.21 lbs (1004 g)
	Complete	2.52 lbs (1143 g)	2.70 lbs (1225 g)	2.90 lbs (1316 g)	2.99 lbs (1354 g)

FAST MARITIME		M 53 - 56 cm	L 56 - 59 cm	XL 59 - 62 cm
Shell Only		1.60 lbs (728 g)	1.74 lbs (788 g)	1.88 lbs (851 g)
Complete		2.38 lbs (1080 g)	2.53 lbs (1148 g)	2.68 lbs (1216 g)

FAST CARBON		M 53 - 56 cm	L 56 - 59 cm	XL 59 - 62 cm
Shell Only		0.59 lbs (267 g)	0.65 lbs (294 g)	0.73 lbs (329 g)
Complete		1.40 lbs (636 g)	1.46 lbs (656 g)	1.52 lbs (690 g)

SENTRY		M 53 - 57 cm	L 57 - 59 cm	XL 59 - 61 cm	XXL 61 - 64.5 cm
XP	Shell Only	2.00 lbs (906 g)	2.12 lbs (963 g)	2.25 lbs (1022 g)	2.38 lbs (1082 g)
	Complete	2.83 lbs (1285 g)	3.00 lbs (1363 g)	3.12 lbs (1415 g)	3.27 lbs (1485 g)

TBH-II		S 51 - 54 cm	M 54 - 57 cm	L 57 - 59 cm	XL 59 - 61 cm
ST	Shell Only	2.46 lbs (1115 g)	2.59 lbs (1175 g)	2.73 lbs (1240 g)	2.93 lbs (1330 g)
	Complete	3.25 lbs (1475 g)	3.38 lbs (1535 g)	3.53 lbs (1600 g)	3.76 lbs (1705 g)
HC	Shell Only	2.37 lbs (1075 g)	2.50 lbs (1135 g)	2.59 lbs (1175 g)	2.82 lbs (1280 g)
	Complete	3.16 lbs (1435 g)	3.30 lbs (1495 g)	3.38 lbs (1535 g)	3.65 lbs (1655 g)
HST	Shell Only	2.14 lbs (970 g)	2.29 lbs (1040 g)	2.39 lbs (1085 g)	2.63 lbs (1195 g)
	Complete	2.93 lbs (1330 g)	3.09 lbs (1400 g)	3.19 lbs (1445 g)	3.46 lbs (1570 g)

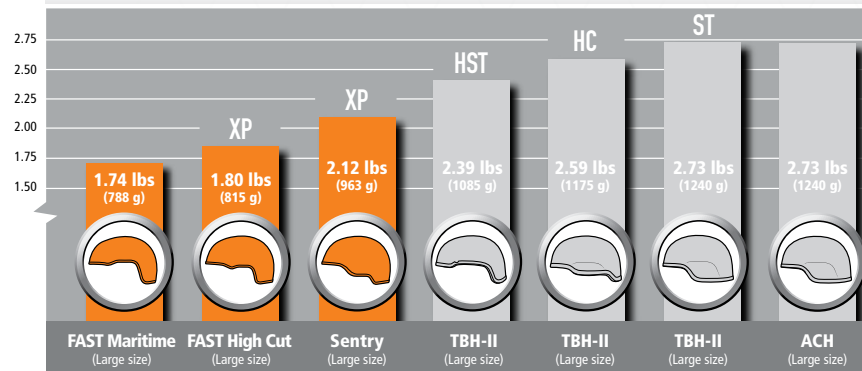
ACH		M 54 - 57 cm	L 57 - 59 cm	XL 59 - 61 cm	XXL 61 - 66 cm
Shell Only		2.44 lbs (1107g)	2.73 lbs (1240g)	3.26 lbs (1479g)	3.36 lbs (1524g)
Complete		3.06 lbs (1388g)	3.31 lbs (1501g)	3.88 lbs (1758g)	4.00 lbs (1814g)

LIGHTWEIGHT TBH		M 54 - 57 cm	L 57 - 59 cm	XL 59 - 61 cm	XXL 61 - 66 cm
Complete		2.81 lbs (1275g)	3.05 lbs (1384g)	3.57 lbs (1619g)	3.68 lbs (1669g)

DH-132*		M 55 - 58 cm	L 58 - 66 cm
Non-Ballistic	Shell Only	0.86 lbs (389 g)	0.94 lbs (425 g)
Ballistic (V50 1400 FPS)	Shell Only	1.50 lbs (680 g)	1.69 lbs (765 g)
Ballistic (V50 2150 FPS)	Shell Only	2.56 lbs (1162 g)	2.78 lbs (1262 g)

\*Communication equipment weight can vary

## BALLISTIC SHELL WEIGHT COMPARISON



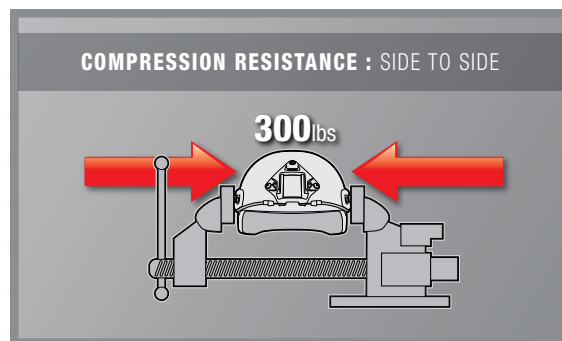
\*Complete Ops-Core helmet weights include: helmet shell, rails, impact pads and retention system. \*Complete Gentex ACH and Lightweight TBH weights include: helmet shell, impact pads, hardware and chinstrap.

# ENVIRONMENTAL PERFORMANCE

Ops-Core helmets are subjected to extreme conditioning before ballistic testing to ensure they will perform in any operational environment encountered in the field.

## COMPRESSION RESISTANCE

The Ops-Core FAST Ballistic helmet shell (shown below) is just as strong and durable as a traditional ACH Aramid shell, while being two thirds of its weight.



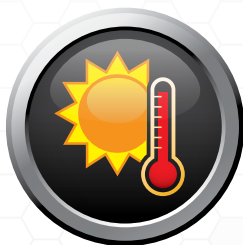
## ENVIRONMENTAL TESTING

All Projectile and Fragmentation tests are conducted after our products are subjected to the following conditions:



### LOW TEMP CONDITIONS

**FAST Ballistic:** -60°F (-51°C)  
**FAST Base Jump:** -13°F (-25°C)



### HIGH TEMP CONDITIONS

**FAST Ballistic:** 160°F (71°C)  
**FAST Base Jump:** 100°F (38°C)



### SEAWATER IMMERSION

Submerged 3ft (1m) for 3 hours



### CORROSION RESISTANCE

DEET, Gasoline, Motor Oil, Hydraulic Fluid,  
 Aviation JP-8 Fuel, Rifle Cleaning Compound,  
 Lubrication Oil, Face Paint



### FLAME RESISTANCE

Helmet shell is self-extinguishing  
 according to FED-STD-191  
 Method 5905.1

# SITUATIONAL AWARENESS & HEARING PROTECTION

Ops-Core helmet shells shape and edge trim are specifically designed to maintain natural hearing and sound localization during normal use. The Ops-Core RAC Headset utilizes 3D Hearing Technology (3D HT) to preserve the user's ability to discern what direction sounds are coming from while providing advanced hearing protection in high noise environments.

## RAC HEADSET TECHNOLOGY

### SITUATIONAL AWARENESS

- » By coupling a patented ear simulator design with binaural audio and advanced audio processing, the RAC Headset delivers hear-through audio that accurately preserves azimuth and elevation cues to provide situational awareness

### HEARING PROTECTION

- » High performance ear cushions ergonomically fit the head geometry, providing a better seal and increased noise attenuation
- » Un-tethered double-layer hearing protection provides noise attenuation comparable to active noise reduction (ANR) headsets



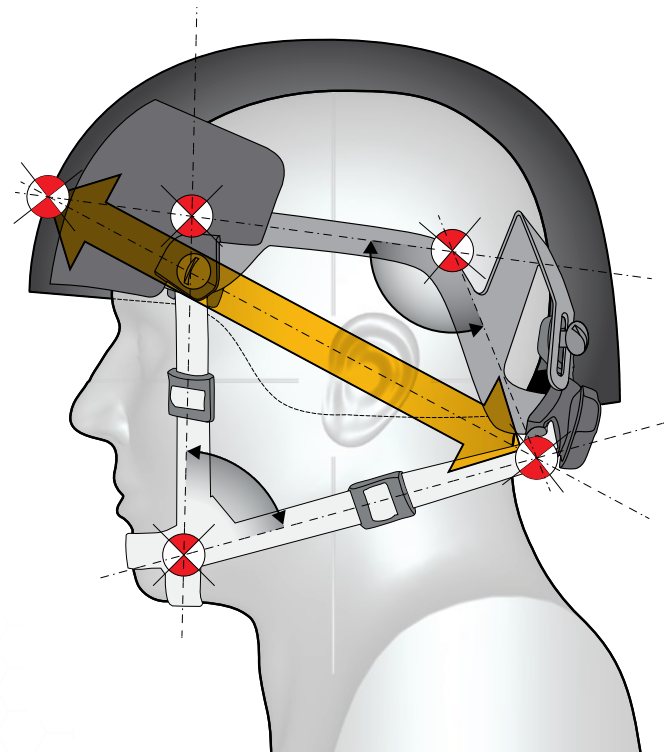
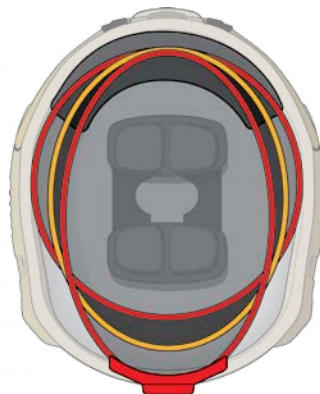
**3D HEARING TECHNOLOGY**

# FIT

## WORM-DIAL

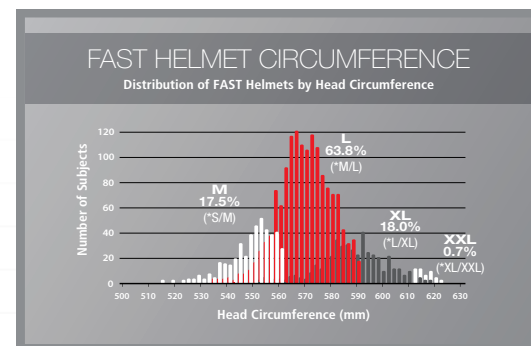
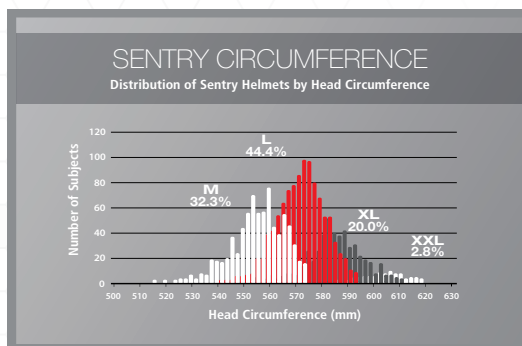
Ops-Core's Worm-Dial liner system features an adjustable fitband with integrated chinstrap and repositionable multi-thickness impact pads. The fitband allows the user to properly adjust the liner around the perimeter of the head for a customized fit and optimal comfort. The length, width and overall shape can be set by simply turning the worm-dial. Together, these features ensure a correct and stable fit, per individual user, and enable the helmet to support the weight of the equipment and endure moment forces during demanding and lengthy military operations.

The liner system is also compatible with a variety of communication headsets and hearing protection devices, including headband style COMMs. For use with COMMs, the headband slides under the liner fitband and sits between the top impact pads, eliminating pressure points commonly experienced when wearing traditional liner systems. The impact pads are designed and pre-molded to the shape of the head. The materials used in pad construction are not affected by temperature, moisture or altitude.



## OPS-CORE SIZING DISTRIBUTION

Ops-Core uses proper anthropometrics and geometry to comfortably fit and stabilize the helmet on the head. Our sizing naming convention for FAST helmet shells has changed (\*see chart below).





## LUX LINER FOR ALL FAST HELMETS (Patent Pending)

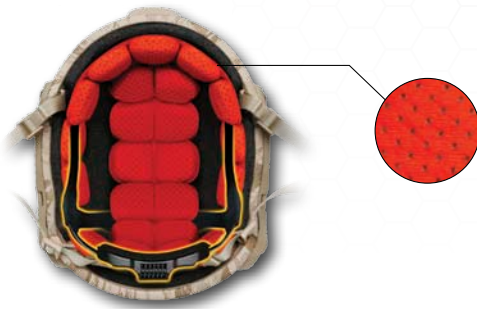
The Ops-Core Lux Liner is a revolutionary suspension system that combines a one-piece full coverage impact layer with modular, breathable comfort pads that can be customized and repositioned for comfort without affecting impact performance.

The Lux Liner retrofits the Ops-Core FAST Maritime, Ballistic High Cut, Carbon, and Base Jump Helmets. Available in two variations: with a low profile Worm-Dial fitband, or with Ops-Core H-Nape Head-Loc chinstrap. Both systems utilize the same impact layer. The liner is easy to install into FAST helmets using the existing Velcro pattern in the shells and comes in S/M, M/L, and L/XL sizes.



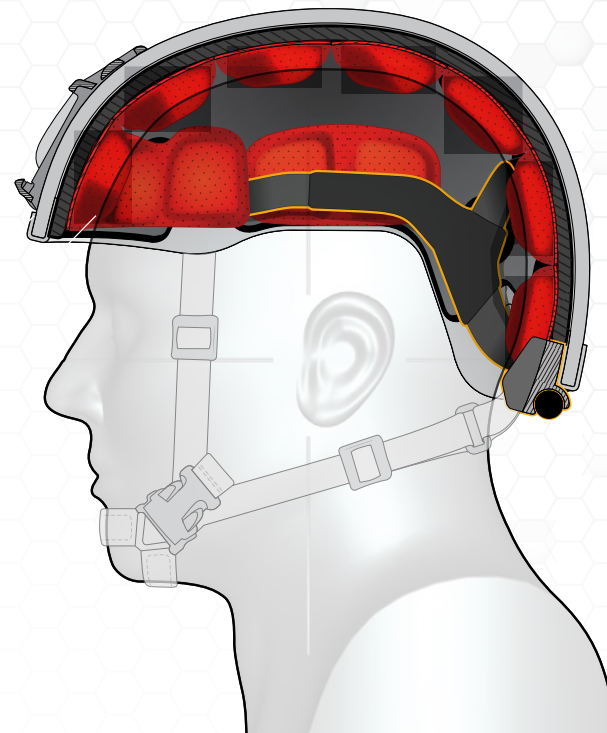
### H-NAPE CHINSTRAP

- » Traditional retention system option
- » Easy battlefield replacement



### WORM-DIAL CHINSTRAP

- » Increased stability
- » Additional adjustment and customization



## LUX LINER IMPACT TESTING

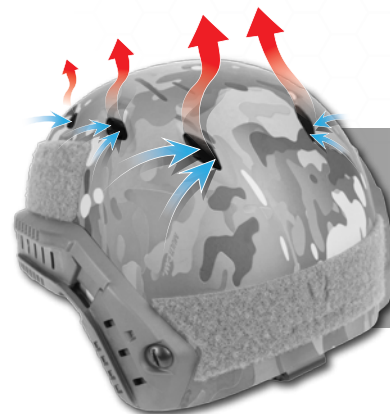


### U.S. ARMY ACH Specification CO/PD-05-04:2007

**Test:** Hemi Anvil x2 Impacts: 10 f/s (3 m/s)

**Requirement:** Less than 150Gs of force transmitted to head / brain

	EXTREME COLD	AMBIENT	EXTREME HOT
Controlled Temperature	14°F (-10°C)	77°F (25°C)	130°F (54°C)
LUX LINER MEETS THE REQUIREMENT OF <150 Gs			



**NEW**

COMING SOON FOR  
CARBON AND BASE JUMP

Pre-Orders Ready to Ship Q3 2015

- » Vented liner allows for increased cooling

**NOTE:** Lux Liner pads are shown in red for visual enhancement purposes, actual pads are available in black only

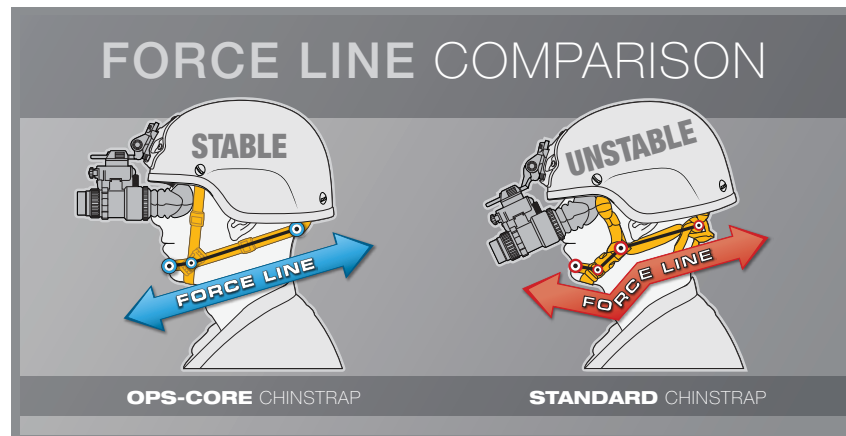
# STABILITY

## Head-Loc RETENTION SYSTEMS

The patented Ops-Core Head-Loc Retention System has a unique strap geometry that creates straight force lines to evenly distribute the helmet load on the head. This design gets rid of any slack in the straps that causes instability and slipping problems in all other conventional chinstraps, which can be detrimental to the mission at hand.

The Ops-Core system utilizes Head-Loc Sliders that provide on-the-fly, one handed adjustment and eliminate loose ends, while keeping the chinstrap low profile, lightweight and snag free. This adjustment is especially important when wearing NVGs or conducting rigorous physical activities. Tightening the chinstrap stabilizes the helmet without the need for counterweights or other bulky devices, facilitating a high performance head-borne platform.

All of these features combined result in a retention solution that is secure, comfortable and adaptable to a variety of mission scenarios and environmental conditions. The U.S. Army has adopted the Head-Loc Retention System for future fielded helmet systems.



HEAD-LOC CHINSTRAPS ARE **3X** MORE RESISTANT TO ROTATIONAL FORCES THAN STANDARD ISSUE CHINSTRAPS



ACH WITH STANDARD CHINSTRAP



ACH WITH OPS-CORE CHINSTRAP



FAST HELMET WITH WORM-DIAL



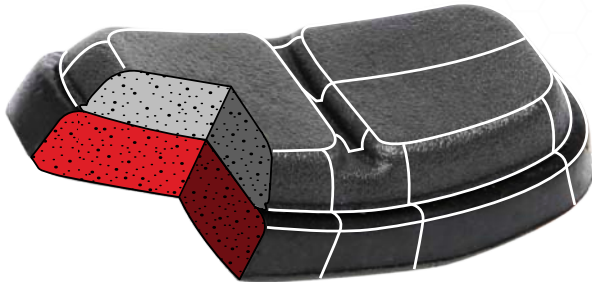
# MATERIAL DESIGN

Helmets are worn for extensive periods of time under extreme environmental conditions; therefore the materials selected for helmet components must be able to withstand substantial amounts of wear and tear while also providing consistent protection, comfort and support. These requirements can be contradictory and difficult to achieve and often require innovative solutions with unique combinations of materials and parts.

Ops-Core uses different materials carefully designed and selected to work with one another to provide the desired performance benefits. The highlighted components represent just a few of the many ways we are working to improve the comfort, weight and capability of our products.

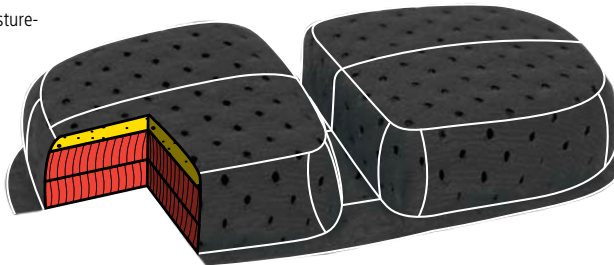
## IMPACT PADS

- » Closed cell memory comfort foam
- » Durable impact layer impervious to environmental conditions



## LUX LINER COMFORT PADS

- » Wrapped in breathable, moisture-wicking outer fabric
- » Low moisture absorbency, dual-density comfort material



## WORM-DIAL

- » Low profile, easily accessible dial mechanism fits inside the helmet shell for convenient fitband adjustment



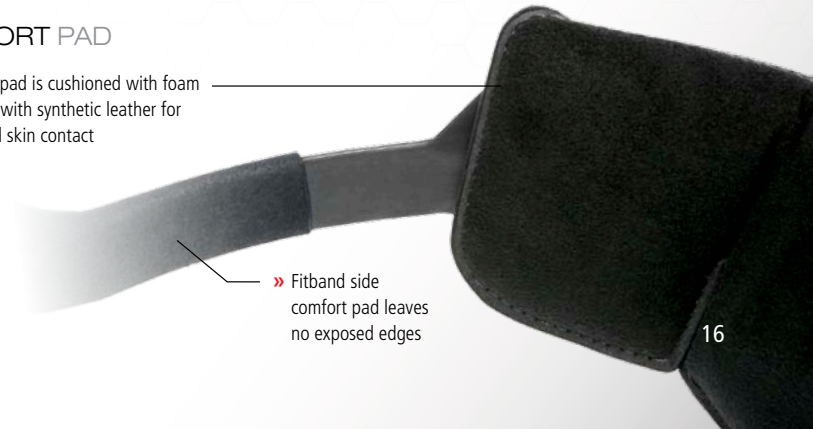
## CHIN CUP LINER

- » Chin cup is lined with genuine leather for comfort and durability



## COMFORT PAD

- » Forehead pad is cushioned with foam and lined with synthetic leather for prolonged skin contact



- » Fitband side comfort pad leaves no exposed edges

# PRODUCT OVERVIEW

## SYSTEM PLATFORMS



**FAST** MARITIME



**FAST** BALLISTIC HIGH CUT



**FAST** CARBON



**FAST** BASE JUMP



**SENTRY**



**NEW**

**TBH-II**



**ACH / LIGHTWEIGHT TBH**



**DH-132 CVC**



**SKULL CRUSHER**

GENTEX SYSTEM PLATFORMS

## SYSTEM COMPONENTS



**NEW**

**FAST** VISOR



**NEW**

**9mm VISOR**  
FOR SENTRY



**MOTO KIT**  
FOR SENTRY



**NEW**

**SURVIVABILITY KIT**  
FOR ACH



**SIDE ARMOR**



**GUNSIGHT MANDIBLE**

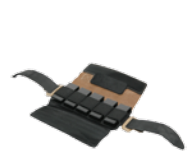


**RAC HEADSET**



**NEW**

**ACH UPGRADE KIT**



**COUNTERWEIGHT**  
KIT



**FAST**  
HELMET COVERS



**NEW**

**MISSION CONFIGURABLE**  
HELMET COVER



**HEAD-LOC™**  
CHINSTRAPS



**WORM-DIAL**  
LINER KIT



**NEW**

**360 LINER\***  
\*INCLUDED IN  
ACH UPGRADE KIT



**NEW**

**LUX LINER\***  
\*NOW FOR CARBON



**NVG SHROUDS**



**NEW**

**SKELETON ARC**  
ACCESSORY RAIL CONNECTOR



**RAIL ADAPTERS**

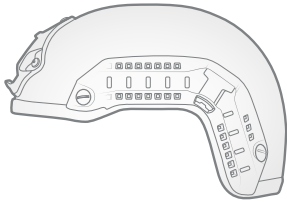
## PLATFORM VS. COMPONENT COMPATIBILITY

SYSTEM PLATFORMS	SYSTEM COMPONENTS														
	MOTO KIT FOR SENTRY	SURVIVABILITY KIT FOR ACH	FAST VISOR	SIDE ARMOR	GUNSIGHT MANDIBLE	RAC HEADSET	FAST HELMET COVERS	MISSION CONFIGURABLE HELMET COVER	LUX LINER KIT	WORM-DIAL LINER KIT	HEAD-LOC	ARC CHINSTRAPS	ARC RAILS	SKELETON ARC RAILS	NVG SHROUDS
FAST MARITIME															
FAST BALLISTIC HIGH CUT															
FAST CARBON															
FAST BASE JUMP															
SENTRY															
TBH-II															
ACH / LIGHTWEIGHT TBH															
SKULL CRUSHER															

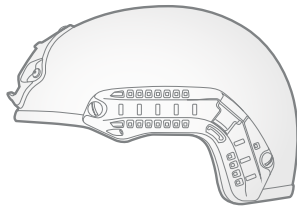
# SYSTEM PLATFORMS

Since every mission and duty position is different, we provide a variety of shell options to choose from:

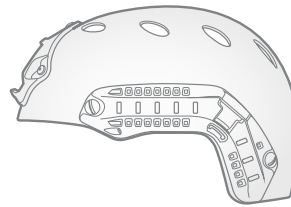
**10 different helmet system platforms designed to excel at their specific purpose**



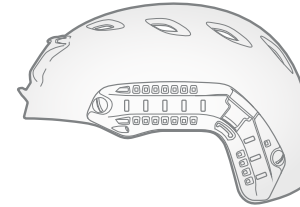
**FAST** MARITIME



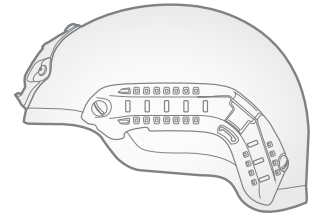
**FAST** BALLISTIC  
HIGH CUT



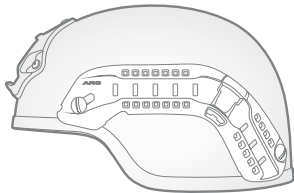
**FAST** CARBON



**FAST** BASE JUMP



**SENTRY**



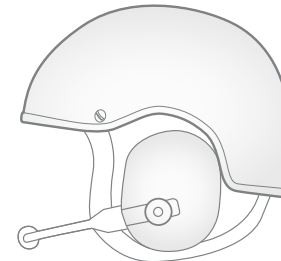
**TBH-II**



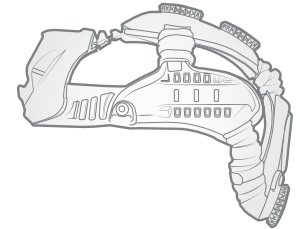
**ACH**



**LIGHTWEIGHT TBH**



**DH-132**



**SKULL CRUSHER**



# FAST MARITIME

The Ops-Core FAST Maritime is the lightest helmet in the world to meet the fragmentation, structural, and environmental performance of the U.S. Army Advanced Combat Helmet (ACH) with 9mm backface deformation of less than 25.4 mm at 1200 f/s.

## KEY FEATURES

- » Innovative hybrid composite design featuring best-in-class materials and game changing processing techniques yields a shell weight reduction of 42% when compared to the traditional U.S. Army ACH shell and further reduction of 20% when compared to the Ops-Core FAST High Cut XP helmet version
- » Helmet ear cut geometry is 16mm higher than the FAST High Cut Shell shape, allowing clearance for larger headset style communications devices
- » Dedicated side armor and mandible components specifically matched with the higher ear cut geometry

## SIZING // FAST MARITIME

HELMET SIZE	M	L	XL
Head Circumference (cm)	53 - 56	56 - 59	59 - 62
Head Circumference (in)	20% - 22	22 - 23¼	23¼ - 24¾
Head Size (US)	up to 7	up to 7¾	up to 7¾
Size Distribution	17.5%	63.8%	18.0%



FAST Maritime helmets are available in the following colors:





# FAST BALLISTIC HIGH CUT

The Ops-Core FAST Ballistic High Cut XP is a comprehensive helmet platform that offers the equivalent amount of head coverage as the MICH 2002 "Gun-Fighter" model and weighs less. The design encompasses a raised ear cut for integration with communications headsets.

## KEY FEATURES

- » Includes Ops-Core Skeleton Shroud, Ops-Core FAST ARCs, bungees, exterior Velcro and fitband liner with integrated chinstrap (shown here) weighs less than the same size MICH 2002 without any enhancements
- » Lightweight, multi-impact, ventilated liner with repositionable EPP impact pads and LDV closed-cell comfort foam is unaffected by temperature, altitude, or moisture
- » Ops-Core Worm-Dial adjustable fitband with replaceable front, nape, and side pads quickly detaches to allow convenient donning and doffing of COMMs headsets with headbands
- » Integrated Ops-Core Head-Loc retention system gives the helmet 4x more stability than the standard issue ACH helmet suspension and retention products

## SIZING // FAST BALLISTIC HIGH CUT

HELMET SIZE	M	L	XL	XXL
Head Circumference (cm)	53 - 56	56 - 59	59 - 62	62 - 64.5
Head Circumference (in)	20 $\frac{1}{8}$ - 22	22 - 23 $\frac{1}{4}$	23 $\frac{1}{4}$ - 24 $\frac{3}{8}$	24 $\frac{3}{8}$ - 25 $\frac{1}{2}$
Head Size (US)	up to 7	up to 7 $\frac{1}{2}$	up to 7 $\frac{1}{2}$	up to 8 $\frac{1}{2}$
Size Distribution	17.5%	61.7%	18.0%	2.8%



FAST Ballistic High Cut helmets are available in the following colors:



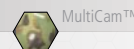
Urban Tan



Foliage Green



Black



MultiCam™



Desert  
MARPAT

# FAST CARBON



The Ops-Core FAST Carbon helmet is designed with structural integrity to comfortably support binocular style NVGs without the use of counterweights. It is ideal for reece and water operations, fast roping, and military training.

## KEY FEATURES

- » Lightweight and extremely durable carbon fiber shell
- » Identical system components to the Ops-Core FAST Ballistic High Cut version, except for the shell
- » Vent holes for increased ventilation and water drainage
- » Now available with vented Ops-Core Lux Liner

## SIZING // FAST CARBON

HELMET SIZE	M	L	XL
Head Circumference (cm)	53 - 56	56 - 59	59 - 62
Head Circumference (in)	20 $\frac{1}{8}$ - 22	22 - 23 $\frac{1}{4}$	23 $\frac{1}{4}$ - 24 $\frac{3}{8}$
Head Size (US)	up to 7	up to 7 $\frac{3}{8}$	up to 7 $\frac{7}{8}$
Size Distribution	17.5%	63.8%	18.0%



FAST Carbon helmets are available in the following colors:



Urban Tan



Foliage Green



Black



MultiCam™



Desert  
MARPAT



# FAST BASE JUMP

The Ops-Core FAST Base Jump helmet is great for training, search and rescue, and other outdoor activities. It offers all of the benefits and features of the FAST helmets at a lower cost. The product is available in two versions: Military and Sport, with over-the-chin and under-the-chin retention options.

## KEY FEATURES

- » Polycarbonate shell and molded front NVG mount
- » Lightweight, multi-impact, ventilated liner with responsible EPP impact pads and LDV closed-cell comfort foam that is unaffected by temperature, altitude, or moisture
- » Ops-Core FAST ARCs—4 Position Accessory Rail Connectors: non-snap attachment points for quick yet secure donning or doffing of headborne accessories
- » Now available with vented Ops-Core Lux Liner

## SIZING // BASE JUMP

HELMET SIZE	M	L	XL
Head Circumference (cm)	53 - 56	56 - 59	59 - 62
Head Circumference (in)	20 $\frac{1}{8}$ - 22	22 - 23 $\frac{1}{4}$	23 $\frac{1}{4}$ - 24 $\frac{3}{8}$
Head Size (US)	up to 7	up to 7 $\frac{1}{2}$	up to 7 $\frac{3}{4}$
Size Distribution	17.5%	63.8%	18.0%



FAST Base Jump helmets are available in the following colors:



Urban Tan



Foliage Green



Black



MultiCam™



Desert MARPAT



Red (Sport Version Only)

# SENTRY

The Ops-Core Sentry XP provides the same level of protection head coverage as the U.S. Army ACH/ECH with improved interoperability between communication headsets, visors and accessories for mandible protection. It also provides better hearing localization than the ACH with a modified ear area shape; and is compatible with the Ops-Core RAC headset and other in ear communication devices.

## KEY FEATURES

- » Innovative hybrid composite design featuring best-in-class materials and game changing processing techniques that weighs ½ lb. less than the ACH while meeting all ballistic fragmentation performance requirements of the U.S. Army's CO/PD-05-04 2007 specification
- » An Ops-Core Worm-Dial adjustable fitband with replaceable front, nape and side pads quickly and easily detach to allow convenient donning / doffing of communications headsets with headbands, while being more compact
- » Highly compatible with accessories and third party components, the Ops-Core Skeleton Shroud and ARCs allow users to attach various accessories and third party components

## SIZING // SENTRY

HELMET SIZE	M	L	XL	XXL
Head Circumference (cm)	53 - 57	57 - 59	59 - 61	61 - 64.5
Head Circumference (in)	20½ - 22½	22½ - 23¼	23¼ - 24	24 - 25½
Head Size (US)	up to 7½	up to 7½	up to 7½	up to 8½
Size Distribution	32.3%	44.4%	20.0%	2.8%



Sentry helmets are available in the following colors:



Desert  
MARPAT



# TBH-II NEW Tactical Ballistic Helmet

A GENTEX GROUND SYSTEMS PRODUCT

Photo courtesy of U.S. Department of Defense

The Advanced Combat Helmet (ACH) based TBH-II platform is capable of integrating a broad range of organic and third party system components that enhance survivability and increase situational awareness. Ops-Core's Skeleton Shroud and Accessory Rail Connectors (ARC) provide the foundation for true system level performance, while the Ops-Core retention and suspension systems deliver immediate improvement in overall stability and comfort. The end result is an affordable ACH-based variant of Ops-Core's broadly adopted FAST helmet line used by the Special Forces world-wide.

## KEY FEATURES

- » Highly versatile design allows for many configuration possibilities, ACH molded shells come available in three side trims: TBH-II Standard (U.S. Army), TBH-II HC (Headset Configured, Mid Trim), TBH-II HST (High Side Trim)
- » The Ops-Core Skeleton Shroud and ARCs allow users to attach various accessories and third party components; option to include pre-drilled Night Vision Goggle (NVG) holes (one or three)
- » Includes Ops-Core Head-Loc retention systems in either X or H style and the Gentex adjustable thickness pads or Standard U.S. Army pad suspension offering improved comfort, ease of adjustment and stability



*TBH-HST II  
(High Side Trim)*



*TBH-II HC  
(Headset Configured, Mid-Trim)*



*TBH-II  
(Standard, U.S. Army)*

## SIZING // TBH-II

HELMET SIZE	S	M	L	XL	XXL
Head Cir. (cm)	up to 54	54 - 57	57 - 60	60 - 66	66 +
Head Cir. (in)	up to 21 1/4	21 1/4 - 22 1/2	22 1/2 - 23 1/2	23 1/2 - 26	26 +



TBH-II shells are available in the following colors:



Also available in Metallic Blue, CHP Blue, and Fast Tan

# ACH ADVANCED COMBAT HELMET

A GENTEX GROUND SYSTEMS PRODUCT



The Gentex ACH is designed to meet the latest performance and configuration requirements of the U.S. Army providing increased ballistic and impact protection with less weight than the U.S. Army PASGT helmet.

## KEY FEATURES

- » Features a four point H-style retention system that provides added stability and reduces forward rotation compared to the PASGT's two point retention system
- » Helmet suspension system is comprised of seven water resistant pads that provide blunt impact protection
- » A profile that enhances situational awareness and provides improved interface with weapon sights and other military accessories compared to PASGT style helmets

## SIZING // ACH

HELMET SIZE	S	M	L	XL	XXL
Head Cir. (cm)	up to 54	54 - 57	57 - 60	60 - 66	66 +
Head Cir. (in)	up to 21 1/4	21 1/4 - 22 1/2	22 1/2 - 23 1/2	23 1/2 - 26	26 +



ACH shells are available in the following colors:





# LIGHTWEIGHT TBH

A GENTEX GROUND SYSTEMS PRODUCT



Photos courtesy of  
U.S. Department of Defense

The Gentex Lightweight TBH meets the latest performance and configuration requirements of the U.S. Army for ballistics, impact, retention and other protective upgrades but has an 8% weight reduction, while providing the same level of performance.

KEY FEATURES

- » Maintains the same five shell sizes, profile, surface color and texture as the standard ACH
- » Incorporates Ops-Core Head-Loc retention system that provides unmatched stability and ease of adjustment
- » Retention shell is attached with ballistic resistant hardware
- » Pre-drilled hole for attachment of mounts for night vision goggles and other accessories

SIZING // LIGHTWEIGHT TBH

HELMET SIZE	S	M	L	XL	XXL
Head Cir. (cm)	up to54	54 - 57	57 - 60	60 - 66	66 +
Head Cir. (in)	up to21¼	21¼ - 22½	22½ - 23½	23½ - 26	26 +



Lightweight TBH shells are  
available in the following colors:



# DH-132 (CVC HELMET)

A GENTEX GROUND SYSTEMS PRODUCT

The Gentex DH-132 Combat Vehicle Crew (CVC) helmet is designed for personnel operating and manning military armored and other tactical vehicles. The helmet is intended for missions that require ballistic, impact and noise protection, and it allows you to communicate via intercom or radio. The helmet consists of three primary components listed below.

## KEY FEATURES

- » Outer shell is available in fiberglass (bump only); ballistic protection V50 1400 and ballistic protection V50 2150 feet per second (f/s); as tested per MIL-H-44117A.
- » Inner helmet liner is made of fire retardant materials and is easily attached or removed from the outer helmet shell. The communications system is secured to the liner and can be removed to clean the liner. The liner includes impact absorbing foam with ventilation slots.
- » Communication systems of your choice are available to interface with different intercoms or radios. Noise attenuation is provided by ear cups which also contain soft ear seals for comfort and the earphones necessary to hear incoming radio signals. The CVC includes a noise-cancelling microphone and push-to-talk switches that attach to the intercom or radio. Communications are water resistant and use military grade components and conform to military specification such as Mil-H-49161 or equivalent.

## SIZING // DH-132 (CVC HELMET)

SHELL SIZE	M	L	HELMET LINER (UNIVERSAL)	
Head Cir. (cm)	55 - 58	58 - 66	Head Cir. (cm)	55 - 66
Head Cir. (in)	21 <sup>7</sup> / <sub>8</sub> - 22 <sup>1</sup> / <sub>8</sub>	22 <sup>3</sup> / <sub>8</sub> - 26	Head Cir. (in)	21 <sup>7</sup> / <sub>8</sub> - 26



DH-132 helmet shells are  
available in the following colors:





# SKULL CRUSHER

The Ops-Core Skull Crusher is designed to provide a stable platform for attaching helmet accessories in environments where ballistic and bump protection is not required.

## KEY FEATURES

- » Lightweight and breathable systems for extended use
- » One size fits all; three adjustment dial knobs allow for comfort adjustments to any size or shape head
- » Compatible with all components that fit the Ops-Core VAS shroud or ARC rail
- » Includes two thicknesses ( $\frac{1}{2}$ " and  $\frac{3}{4}$ ") of pads allowing for customization of fit and comfort
- » Wire and cable management system to route external wires and cables in a streamlined configuration



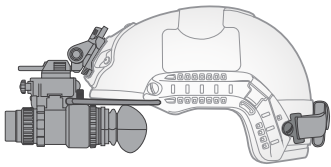
Skull Crushers are only available in:



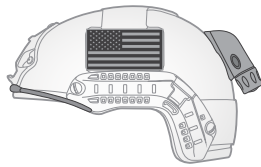
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# SYSTEM COMPONENTS

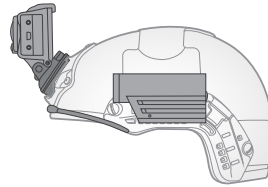
Ops-Core has developed more than twenty unique system components for use with our helmet platforms to provide additional system functionality.



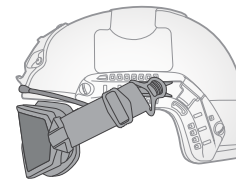
NIGHT VISION DEVICES



IFF DEVICES



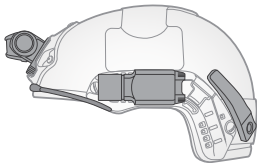
VIDEO CAMERAS



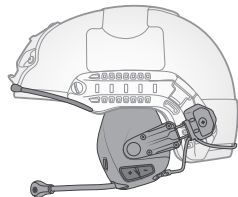
GOGGLES



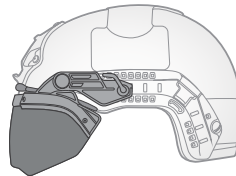
O2 MASKS



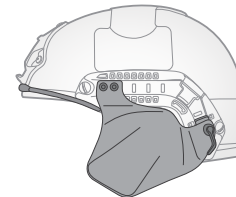
ILLUMINATORS



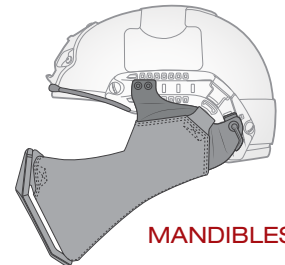
COMMs HEADSETS



BALLISTIC VISORS



SIDE ARMOR



MANDIBLES

# BALLISTIC VISORS

The Ops-core FAST Visor for the FAST High Cut Ballistic helmet and the 9MM Visor for Sentry raise the bar in terms of optical clarity, ballistic performance and system functionality. Both systems provide protection from blunt trauma, ballistic threats and blast shock waves.

Pre-Orders Ready to Ship Q3 2015

## FAST VISOR **NEW**

*(Patents pending)*

- » Whisper quiet pivot hinge locks the visor into closed, vented or open position
- » Tool-less installation
- » Easy one handed donning and doffing
- » 6MM thick lens offers V50 17grain protection at 825 fps



Pre-Orders Ready to Ship Q3 2015

## 9MM VISOR **NEW**

*(Patents pending)*

- » Heavy duty locking visor allows visor to be supported in the open position
- » Rail interface features Picatinny mount geometry for additional accessory utility
- » Robust visor frame will support over 30 lbs. of hanging weight





# VISOR & MANDIBLE KITS

## MOTO KIT FOR SENTRY

Pre-Orders Ready to Ship Q3 2015

The Ops-Core Moto Visor and Mandible provide additional eye and face protection from blunt trauma, ballistic threats, and blast shockwaves for the Ops-Core Sentry helmet.



### MOTO VISOR *(Patents pending)*

- » Opens and closes with indexing increments to allow for multiple vented positions
- » Tool-less installation and removal; easy one-handed operation
- » Designed for use in conjunction with MCEPs ballistic eyewear and goggles



### MOTO MANDIBLE *(Patents pending)*

- » Front vents exhaust moisture from breathing and prevent the visor from fogging up
- » Folds in half for compact storage
- » Tool-less installation



Sentry Moto Visor and Mandible are available in the following colors:



Urban Tan



Foliage Green



Black



**NEW**

# SURVIVABILITY KIT FOR ACH

Pre-Orders Ready to Ship Q3 2015

(Patents pending)

The Ops-Core Advanced Combat Helmet (ACH) Survivability Kit leverages the platform components of the ACH Upgrade Kit (page 39). The kit consists of visor and mandible options that increase survivability in high threat operations by adding eye and face protection from blunt trauma, ballistic threats and blast shockwaves for ACH-style helmets.



## ACH VISOR (Patents pending)

- » Opens and closes with indexing increments to allow for multiple vented positions
- » Tool-less installation and removal; easy one-handed operation
- » Designed for use in conjunction with MCEPs ballistic eyewear and goggles



## ACH MANDIBLE (Patents pending)

- » Front vents exhaust moisture from breathing and prevent the visor from fogging up
- » Folds in half for compact storage
- » Tool-less installation



ACH Visor and Mandible are available in the following colors:



Urban Tan



Foliage Green



Black



# SIDE ARMOR

## FOR FAST HELMETS

Ops-Core Side Armor provides additional ballistic coverage and environmental protection, allowing the user to quickly adjust the level of ballistic coverage to match changing threats. The Side Armor comes in slim and wide configurations for FAST High Cut. Maritime is only compatible with slim configuration.

KEY FEATURES

- » Quick and tool-less attachment to the FAST ARCs
- » Utilization of a two point attachment system to the Ops-Core ARC provides a strong rigid base
- » Low profile design does not interfere with sighting (stock weld) on shoulder fire weapon systems

BALLISTIC PERFORMANCE // SIDE ARMOR

STANDARD	Projectile	Velocity
U.S. ARMY Portions of ACH CO/PD-05-04:2007	2 grain (V50)	4200 f/s (1280 m/s)
	4 grain (V50)	3475 f/s (1059 m/s)
	16 grain (V50)	2475 f/s (754 m/s)
	64 grain (V50)	---
	17 gr / 1.1 FSP (V50)	2200 f/s (670 m/s)
	9mm FMJ RN (V0 at 0° Obliquity)	1200 f/s (366 m/s)



Side Armor is available in the following colors:

- Urban Tan
- Foliage Green
- Black



# GUNSIGHT MANDIBLE

(Patent Pending)

## FOR FAST HELMETS

The Ops-Core Gunsight Mandible provides additional face protection from blunt trauma and ballistic threats for the Ops-Core Maritime and FAST High Cut helmet models.

### KEY FEATURES

- » Uses a combination of soft armor and rigid support frame technology to provide lower face protection from IED fragments, rough terrain landings (airborne) and debris encountered during off-road vehicle missions
- » Flexible frame allows a close stock weld and results in minimum interference when sighting shoulder fired weapons
- » Folds conveniently to fit into rucksack or other storage
- » Front plate available in ballistic material for additional ballistic protection



### BALLISTIC PERFORMANCE // GUNSIGHT MANDIBLE

STANDARD	Projectile	Velocity
<b>U.S. ARMY</b> Portions of ACH CO/PO-05-04:2007	2 grain (V50)	3100 f/s (945 m/s)
	4 grain (V50)	2550 f/s (777 m/s)
	16 grain (V50)	2250 f/s (686 m/s)
	64 grain (V50)	---
	17 gr / 1.1 FSP (V50)	2200 f/s (670 m/s)
	9mm FMJ RN (V0 at 0° Obliquity)	1200 f/s (366 m/s)



Gunsight Mandibles are available in the following colors:



Urban Tan



Foliage Green



Black



MultiCam™

# O2 MASK STRAPS



Designed to ensure secure and proper placement of oxygen masks, the Ops-Core O2 mask straps are quick and easy to use.

## KEY FEATURES

- » Fits Para-Flite PHAOS and Carleton Phantom O2 Masks
- » Simple snag-free design allows the system to quickly snap in and out of the ARCs
- » Snap Dragon bayonet buckle on one side of the system for quick release
- » The Ops-Core Head-Loc sliders allow for quick tightening and loosening of the mask

ACH O2 SINGLE STRAP KIT



SENTRY O2 SINGLE STRAP KIT



FAST O2 SINGLE STRAP KIT



Side Armor is available in the following colors:



Urban Tan



Foliage Green



Black



# RAC HEADSET

(Patent Pending)

Pre-Orders Ready to Ship End of Q2 2015

The Ops-Core RAC headset incorporates a streamlined design for optimal comfort and true 3D hearing technology for hearing protection and improved situational awareness.

## KEY FEATURES

- » Attaches to the rear portion of the ARCs leaving the top portion of the ARCs free for mounting lights, cameras, etc.
- » Rotates back to the rear of the helmet when not in use, creating a very low profile—ear cups are not visible from front view when stowed
- » Restores “natural hearing” with the outside environment for improved situational awareness while also providing robust hearing protection
- » Single-point gimbal attachment allows for 360° of adjustment instead of conventional adjustment systems—auto positioning to each individual’s ear/head shape
- » High performance ear cushions ergonomically fit the head geometry, providing a better seal and increased noise attenuation
- » Noise-cancelling microphone mounts to left or right ear cup



RAC Headsets are available in the following colors:



Urban Tan



Black

# ACH UPGRADE KIT NEW

Pre-Orders Ready to Ship Q2 2015

As a complete cost-effective solution, the Ops-Core ACH Upgrade Kit transforms the helmet into a platform capable of integrating system components while enhancing overall comfort, fit and stability. The upgrade kit includes Skeleton Rails, Skeleton One Hole Shroud (SOHS), and the Ops-Core 360° Liner and Retention System. Designed to outfit the soldier with additional protection and performance to enhance capabilities for missions and duty positions. The kit comes equipped to support future/additional upgrades to achieve a desired capability and level of protection.

## KEY FEATURES

- » Skeleton Rails offer multiple mounting opportunities to support lights, cameras, goggles, communications and other mission critical accessories
- » The Ops-Core 360° Liner and Retention System provides increased comfort and stability; a permanent EPP impact liner provides a full coverage layer that guarantees protection, regardless of the user's pad configuration
- » Weighing in at 42.1 grams, the lightweight and low profile of the SOHS provides optimal performance, functionality and compatibility
- » Skeleton Rails incorporate 14 wire cable management attachment points to organize external wires and cables in a streamlined configuration; two bungee retention straps enhance the stability of the Visual Augmentation System (VAS)



Skeleton One Hole Shroud  
(Patent Pending)



Skeleton Rails  
(Patent Pending)



360° Liner  
(Patent Pending)



Retention System



ACH Upgrade Kits are available in the following colors:



Urban Tan



Foliage Green



Black



# COUNTERWEIGHT

Photo courtesy of MILpictures Photo by Tom Weber

Customizable weight management system designed to enhance comfort and reduce neck strain.

## KEY FEATURES

- » (5) 70g removable weights and (5) elastic pockets
- » Total weight system 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)
- » Rear Velcro attachment ensures motion free and secure positioning
- » Chemlight window and Velcro patch for Glint tape for use with low light IFF



Counterweight is available in the following colors  
(Black and MultiCam are subject to minimum order quantities):



Urban Tan



Black



MultiCam™



# FAST HELMET COVERS

(Patents Pending)

Ops-Core Maritime and Ops-Core FAST helmet covers are lightweight and easy to don and doff to provide the ultimate in signature management convenience.

## OPS-CORE MESH HELMET COVER

- » Lightweight mesh construction with Hypalon reinforced Cordura in the shroud area
- » Para-cord attachment points for natural foliage, camouflage material or cable management
- » Rear Velcro goggle strap retention and removable rear pouch for ANVIs battery pack or counterweight
- » Protects the shell while still providing all of the FAST helmet platform functionality

## FIRST SPEAR® HELMET COVER



- » A stretch fit to ensure that it remains in place during free fall or rotary wing operations
- » Integrated design allows for access to night vision mounts, rail accessories and attachment of IFF devices
- » Protects the helmet exterior and dampens noise during impact



FAST Helmet Covers are available in:



MultiCam™



# MISSION CONFIGURABLE HELMET COVER NEW

FOR ACH *(Patents Pending)*

Pre-Orders Ready to Ship **Q2 2015**

The Ops-Core Mission Configurable Helmet Cover (MCHC) attaches to the ACH, TBH II and MICH Style One Hole pattern helmets. The cover features the new Skeleton One Hole Shroud (SOHS) as well as the new Skeleton ARCs for ACH.

## KEY FEATURES

- » Pile Velcro attachment tabs simplify installation
- » Center NVG screw and t-nut align cover to center line of helmet
- » SOHS holds various night vision devices, lights and other equipment
- » Skeleton ARCs hold cameras, lights and other equipment
- » Rear Velcro flap facilitates attachment of battery packs and counterweights
- » Pile Velcro allows for attachment of strobes and IFF devices
- » Dedicated sizes for Small, Medium, Large and X-Large ACH geometry helmets
- » Cover weighs less than 10 ounces



Mission Configurable Helmet Covers are available in:



NVG Shrouds and Skeleton ARCs are available in the following colors:



# HEAD-LOC RETENTION SYSTEMS

## H-NAPE CHINSTRAP

*Patented U.S. Patent No. 8,353,066 (Head-Loc buckle)*

**3X** more stable under rotational forces than standard issue system

All Ops-Core Head-Loc Retention Systems are designed to resolve the issue of NVG instability caused by helmets slipping on the head. Unstable NVGs are difficult to look through which renders them ineffective and can be detrimental to the user when operating a vehicle or controlling a canopy. The Ops-Core H-Nape chinstrap is intended for operations conducting rigorous activities while wearing heavier NVGs like PVS-15 and ANVis-9 mounted to the front of the helmet. It features a fifth adjustment tab on the nape pad to provide extra support and prevent any back and forth helmet rotation. The H-Nape is the standard issue chinstrap for USSOCOM.

### KEY FEATURES (X AND H-NAPE)

- » High ease of use with patented Head-Loc tabs provide instant one-handed chinstrap adjustment while wearing the helmet
- » Simplified strap geometry with straight force lines and unique design to eliminate loose ends
- » Padded leather chin cup and nape pad provide support during long missions
- » Custom webbing weave provides greater durability and ventilation
- » Available in left or right eye configurations to keep buckle on opposite side of weapon sighting



Chinstraps and Extenders available in the following colors:



Urban Tan



Foliage Green



Black

# X-NAPE CHINSTRAP

Photo courtesy of: U.S. Department of Defense

**2X** more stable under rotational forces than standard issue system

The Ops-Core X-Nape is intended for users conducting rigorous activities while wearing lighter NVGs like the PVS-14 or having smaller accessory equipment mounted to the helmet. Without the added weight of heavier devices, the X-Nape provides the same security and comfort as the H-Nape and does not require a fifth adjustment point on the back. Unlike competitor designs that require removal of mounting screws to set the height of the nape pad, the X-Nape version self-adjusts to the back of the head, resulting in an ultra-clean, low profile system.

## COMPATIBILITY // CHINSTRAPS & HELMETS

Both the X and H version Head-Loc Chinstraps are compatible with the following helmet shells

HELMET	ACH HEAD-LOC CHINSTRAP SYSTEM	LWH HEAD-LOC CHINSTRAP SYSTEM
ACH	—	
MICH (2000, 2001, 2002)	—	
CGF GALLEY (TC2000, TC2001, TC2002)	—	
GENTEX (TBHII / ACH)	—	
PROTECH Delta LT*	—	
RBR (ELITE LAW ENFORCEMENT)	—	
PASGT		—
USMC Lightweight Helmet		—
GENTEX Marine Helmet		—
RBR MACH I, II, III		—

\*Must convert helmet to "pad system."





# LINER KITS

FOR ACH

## WORM-DIAL KIT Patented U.S. Patent Nos. 8,819,870, 8,578,521 (Worm-Dial)

The Ops-Core Worm-Dial Liner Kit is a revolutionary suspension / retention system that combines low-profile adjustable fitband technology with soft, breathable, impact pads that can be customized and repositioned for comfort without affecting impact performance. Designed for comfort during extended use.

- » Lightweight, multi-impact, ventilated liner system with repositionable EPP impact pads and LDV closed-cell comfort foam
- » Pads are not affected by temperature, moisture or altitude
- » Worm-Dial adjustable fitband allows quick tightening and loosening of the system and provides 4x more stability than standard retention/suspension systems



## 360° LINER **NEW** (Patent Pending)

The Ops-Core 360° Liner ensures comfort during extended use. Advanced materials and design work with one another to enhance resistance to rotational forces of standard retention systems and deliver consistent protection.

- » The permanent impact EPP liner provides a full coverage layer that outperforms competitive products and guarantees protection, regardless of the user's pad configuration
- » The pads which are wrapped in a breathable, moisture-wicking outer fabric, ensure low moisture absorbency in a dual-density comfort material that is simple to clean



Worm-Dial Liner Kits are available in the following colors:



Urban Tan



Foliage Green



Black



# NVG SHROUDS

Designed for universal compatibility with most NVG mount arms, the Ops-Core NVG shrouds meet performance and price requirements for the most discerning customers.



## SKELETON SHROUD

- » Forged aluminum construction for greater strength and lower weight than the VAS shroud
- » High tolerance CNC machined mount arm interface for perfect fit, minimizing movement
- » Multiple bungee and lanyard mounting points for compatibility with visors
- » Fits all ACH, MICH, PASGT, and LWH helmets with the MARSOC / WARCOM 3-hole pattern



## VAS SHROUD

- » Aluminum construction with powder coated finish and stainless steel ballistic hardware
- » Fits all ACH, MICH, PASGT, and LWH helmets with the MARSOC / WARCOM 3-hole pattern



**NEW** (Patent Pending)

Pre-Orders Ready to Ship Q2 2015

## SKELETON ONE HOLE SHROUD

- » Weighing in at 42.1 grams, the lightweight material and low profile, snag free design of the SOHS is a stable platform for attaching NVG mounts
- » The functional mount is compatible with various manufacturers and works with the ACH or other one-hole configuration helmets.

## SHROUD COMPATIBILITY // ALL OPS-CORE SHROUDS

**Helmet Compatibility:** Fits the standard MARSOC / WARCOM 3-hole NVG mount pattern

**NVG & Mount Arm Compatibility:** Ops-Core NVG Shrouds are compatible with the following combinations of night vision goggle and mount arm styles:



US Army Standard  
#A3256368



Wilcox® L4 G21M  
#28300G21M



Wilcox® L4 G24  
#28300G24



Wilcox® L4 G25  
#28300G25



Wilcox® G11 Mount  
#28300G11



Wilcox® GSGM  
#62101G01



Wilcox® DPAM  
#62101G02



Norotos® INVG  
#1820010



Norotos® AKA2  
#1840010



Norotos® INVG Hyper  
#1920010



Norotos® AKA II Hyper  
#1940010



Norotos® LoSto  
Push Button Release  
#1960010

# SKELETON ARC<sub>s</sub>

## ACCESSORY RAIL CONNECTORS

**NEW**

(Patent Pending)

Pre-Orders Ready to Ship Q2 2015

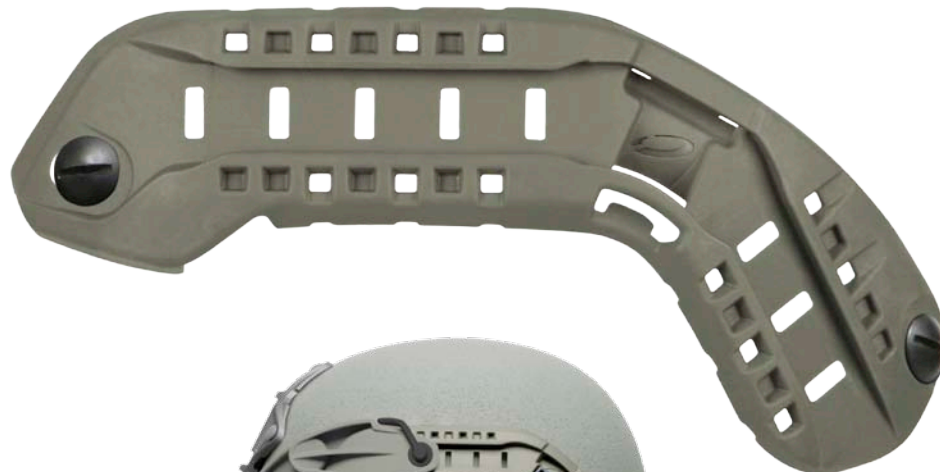


Photo courtesy of Magpul Dynamics®

The Ops-Core Skeleton Rail is a new universal rail (one size fits all) for the ACH platform. Ops-Core continues to carry the ARC Rails for Sentry, FAST High Cut, FAST Carbon and Maritime.

### KEY FEATURES

- » Multiple mounting locations on the upper and lower ARC dovetails to support lights, cameras, goggles, etc.
- » Corner of the rail designed for compatibility with the Ops-Core O2 Single Strap Kit
- » Snag-free HALO, HAHO and static line operations
- » Mounts existing chinstrap holes in the helmet
- » Kit includes two ACH-ARC rails, adapters, and mounting hardware shown below:



(4) 24mm Ballistic Screws  
(4) 2nd Generation T-Nuts

(2) Wing-Loc Adapters

(2) Picatinny Adapters



(2) Bungees (optional)



Skeleton ARCs are available in the following colors:



Urban Tan



Foliage Green



Black

# RAIL ADAPTERS



Photo courtesy of Magpul Dynamics®

## PICATINNY ADAPTER



Streamlight TLR-1



Insight M3



Picatinny Adapter



VholdR Contour HD

## X300 ADAPTER



Surefire X300 Ultra

## SINGLE CLAMP



Surefire E1L



VIO POV1  
video camera

## SWIVEL CLIPS

- » These clips attach to upper and lower rail dovetails to provide instant and secure attachment of straps while still providing rotational freedom of motion
- » Ideal for attachment of O2 masks, goggles, and other accessories



19mm  
Swivel Clip



36mm  
Goggle Swivel Clip





# 3<sup>RD</sup> PARTY SYSTEM COMPONENTS

These components are available from Ops-Core or directly from the manufacturer

Ops-Core helmet platforms provide a foundation for capability upgrades using system components from some of our trusted third party affiliates shown below. Additional system components (not shown) compatible with Ops-Core helmet platforms are also available.

## NVG MOUNTS



[www.wilcoxind.com](http://www.wilcoxind.com)

- » Refer to NVG Shroud compatibility chart (page 46)

### L4-G20

- » 198 grams with hardware



### L4-G24

- » 210 grams with hardware



### LoSto

- » 140 grams with hardware



## MICROPHONES



[www.silynxcom.com](http://www.silynxcom.com)

- » World's Smallest and Lightest Tactical In-Ear Headset provides impulse and steady-state noise protection



### BOOM MIC

- » Compatible with Ops-Core RAC headset
- » Boom mic with custom clip for Ops-Core chinstrap

## RAIL ADAPTERS



[www.esseypro.com](http://www.esseypro.com)

- » Mount standard Profile NVG goggles to helmets with ACH-ARC Rails
- » Goggles can easily move to front or rear of helmet and are secure against fall during fast motion



### PIVOT™ ADAPTER



[www.unitytactical.com](http://www.unitytactical.com)

- » Configurable Accessory Mount with interfaces for mounting lights, cameras, or other devices

- » Includes a 3 axis tension adjustable pivot



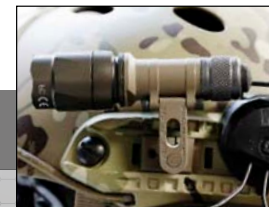
### KNUCKL



[www.sandsprecision.com](http://www.sandsprecision.com)

- » Weight 1.1 oz.
- » Lightweight, low profile design; Multi-Axis Mount, 360 range of motion
- » Positions the flashlight up and above the helmet rail, nesting the M-Ax Mount into a low profile position

### M-AX MOUNT





## PAD SYSTEMS



[www.hexonia.de](http://www.hexonia.de)

- » Offers protection against top, front, side and back impacts
- » Meets requirements in accordance with DIN EN 12492 mountaineering equipment



## BALLISTIC EYEWEAR



[www.oakley.com](http://www.oakley.com)

- » Complies with ANSI Z87.1-2003 & 2010, MIL-DTL-43511, EN-166 BT K and U.S. Army MCEPS, MIL-DTL-43511 ballistic impact resistance requirements in all lens configurations



**SI BALLISTIC GOGGLE 2.0**

## VIDEO CAMERAS



[www.mohoc.com](http://www.mohoc.com)

- » Low profile, snag free design and CurveLock™ base matches the helmet shape
- » 1080p 60fps video and 12MP camera
- » Military ruggedized: waterproof and IP68 certified without an additional case

**MOHOC**



## ILLUMINATION



[www.princetonotec.com](http://www.princetonotec.com)

- » Simple, reliable light sources with multiple mounting options which provide light where you need it, when you need it
- » LED Color options: Red, Green, Blue, White or IR



**CHARGE**



**MPLS**

**REMIX**



[www.surefire.com](http://www.surefire.com)

- » Overall length of 4.4 inches and a total weight of 3.2 oz.
- » White light and infrared output
- » White light mode has a high of 120 lumens / low of 10 lumens. IR output has a high of 110 mW / low of 5 mW



**V1 VAMPIRE**

## IFF DEVICES



[www.sandsprecision.com](http://www.sandsprecision.com)

- » Infrared and visible light switching
- » Weighs 58 grams



**MANTA STROBE**





A Division of Gentex Corporation Ground Systems

Ops-Core, Inc. Marine Industrial Park 12 Channel Street Boston, MA 02210 [www.ops-core.com](http://www.ops-core.com)

Product Catalog REV 7.0

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