



2013 PRODUCT CATALOG

# PROTECTING THE ELITE WARRIOR

Ops-Core continues the pursuit of excellence in 2013 with both new products and improved versions of existing battle proven designs. In keeping with our founding vision, we have continued to refine our suite of solutions to provide the modern warfighter with the best equipment for every mission. Our focus ranges from fielding the lightest integrated helmets in the world to providing holistic headborne systems with the most protective coverage and situational awareness. Ops-Core reliability and durability is now going on its fifth year, and while that may not be as exciting as smoke and mirror presentations by some competitors, our products perform where it matters most - in the field.

Our helmet portfolio has been expanded with new ballistic material options to give customers more choices between types of threat protection, weight and price. The different shell versions use the same liners, retention and integration components to maintain compatibility with their lineage as well as existing and future accessories. This not only helps operators match the best equipment with their needs, but it also allows programs to outfit more personnel with the right equipment in various duty positions while keeping within budgetary and logistic constraints.

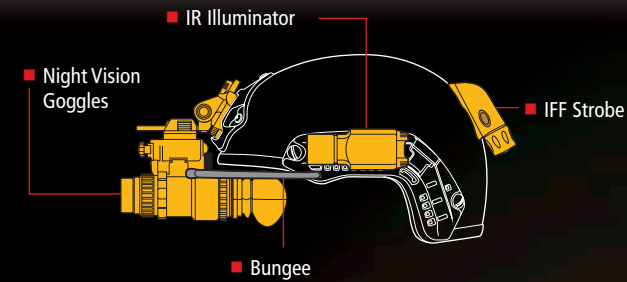
Improvements in hear-through communications technology and ballistic visor performance have resulted from leveraging synergies with our parent company, Gentex. Their production support has also helped us reduce lead times for standard products from over six months to less than three. There is still more work to be done, but with a current production capacity of 1,800 helmets / week, we are committed to getting our customers their orders faster and with less hassle than ever before. In 2013 we will be measuring our performance not only by our products, but also by our service to those who have loyally supported us over the years.

Ops-Core: countless options for countless missions, one soldier at a time.

# SYSTEM LEVEL CAPABILITIES

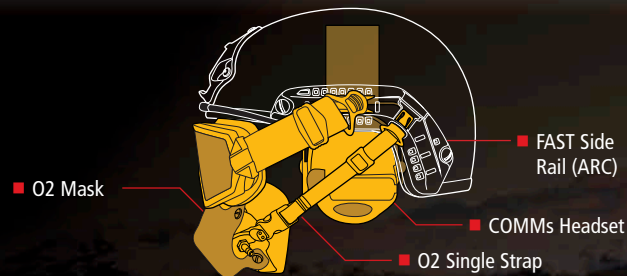
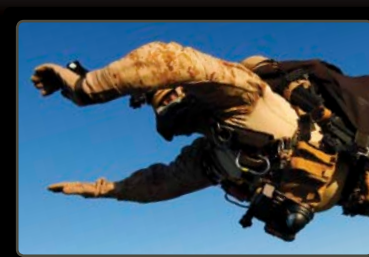
## NIGHT OPERATIONS

- Patented Head-Loc® chinstrap and Occ-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 Rail Bungees eliminate NVG rattle and vibration while providing extra security to their attachment



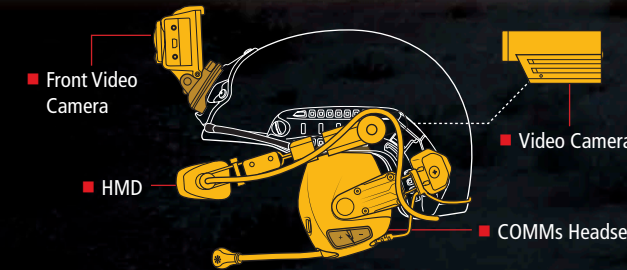
## AIRBORNE OPERATIONS

- The 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 O2 Single Strap Kit easily attaches to Side Rails and is compatible with Carleton Phantom & Para-Flite Phaos masks



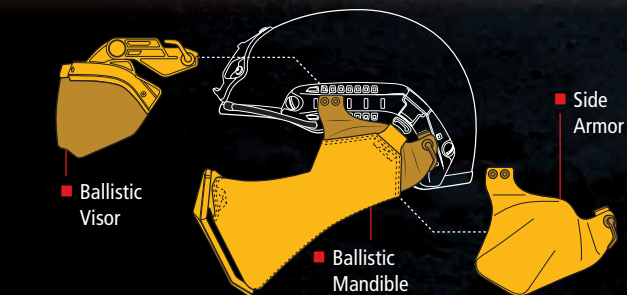
## MISSION DOCUMENTATION

- The Side Rails (ARCs) allow for streamlined mounting of devices such as IR illuminators, lights, video cameras, IFF devices, Peltor Headsets and Vuzix HMDs
- The VAS Shroud provides 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 Gunsight Mandible and Up-Armor Side Covers offer additional coverage for protection from fragments and debris encountered during breaching and off-road vehicle exercises
- The ARCs and Skeleton Shroud are compatible with ballistic visors to offer several options for fully integrated face protection



# 2013 PRODUCTS

## Helmets



FAST MARITIME



FAST BALLISTIC HIGH CUT



SENTRY



LETH

**NEW**



FAST CARBON



FAST BASE JUMP



SKULL CRUSHER

## Accessories



SIDE ARMOR



GUNSIGHT MANDIBLE



SLAAP PLATE

**NEW**



MultiCam™ MESH COVER

**NEW**



RAC HEADSET

**NEW**



MOTO VISOR & MANDIBLE

**NEW**



LUX LINER

**NEW**



OCC-DIAL LINER KIT



HEAD-LOC® CHINSTRAPS



ACH-ARC



RAIL ADAPTERS



SKELETON SHROUD

**NEW**



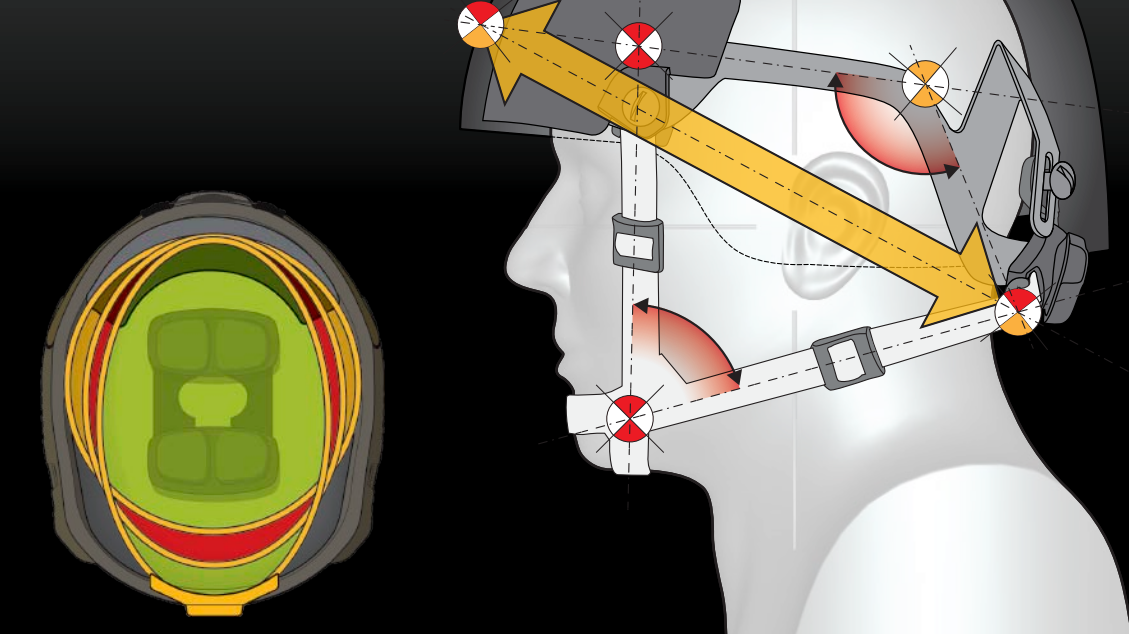
COUNTERWEIGHT KIT

**NEW**

COMFORT = **FIT** + STABILITY + MATERIAL DESIGN

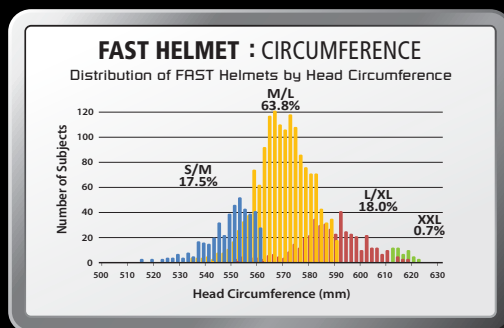
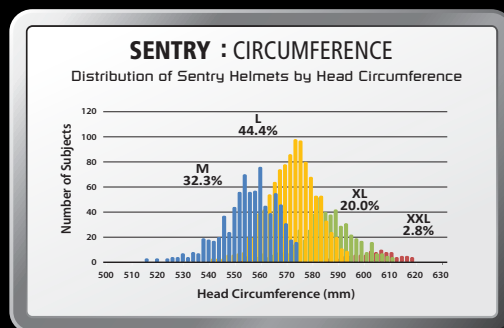
Ops-Core's Occ-Dial helmet liner system features an adjustable fitband with integrated chinstrap and repositionable multi-thickness impact pads. The fitband allows the user to properly adjust the liner around the perimeter of the head for a customized fit and optimal comfort. The length, width and overall shape can be set by simply turning the dial, while the helmet depth can be adjusted by the vertical setting of the whole system. 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 the 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 in between the two 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 USES PROPER ANTHROPOMETRICS AND GEOMETRY TO COMFORTABLY FIT AND STABILIZE THE HELMET ON THE HEAD

Ops-Core Sizing Distribution



LUX LINER

DESIGNED FOR COMFORT DURING EXTENDED USE

**NEW**

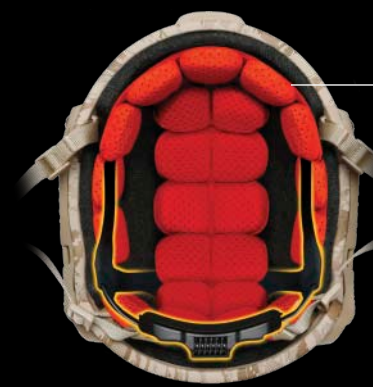
The Lux Liner is a revolutionary suspension system that combines a one-piece full coverage impact layer with modular, breathable comfort pads that can be customized and repositioned for comfort without affecting impact performance.

The Lux Liner retrofits the FAST Ballistic High Cut and Maritime Helmets and is available in two variations: with a low profile Worm-Dial fitband, or with 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, L/XL and XXL sizes.



H-NAPE CHINSTRAP

- Traditional retention system option
- Easy battlefield replacement



WORM-DIAL FITBAND

- Increased stability
- Additional adjustment and customization

Lux Liner Impact Testing



**U.S. ARMY ACH Specification** CO/DP-05-04:2007

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

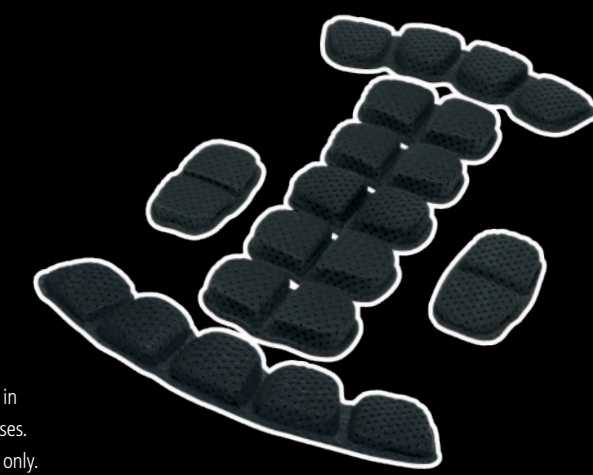
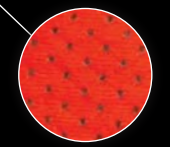
Requirement: Less than 150Gs of force transmitted to head / brain

	EXTREME COLD	AMBIENT	EXTREME HOT
Controlled Temperature	14°F (-10°C)	77°F (25°C)	130°F (54°C)

Ops-Core Lux Liner



- Permanent full coverage impact layer
- Designed for shockwave attenuation
- Durable, breathable, low absorbcency pads



NOTE: Lux Liner Pads are shown in red for visual enhancement purposes. Actual pads are available in black only.

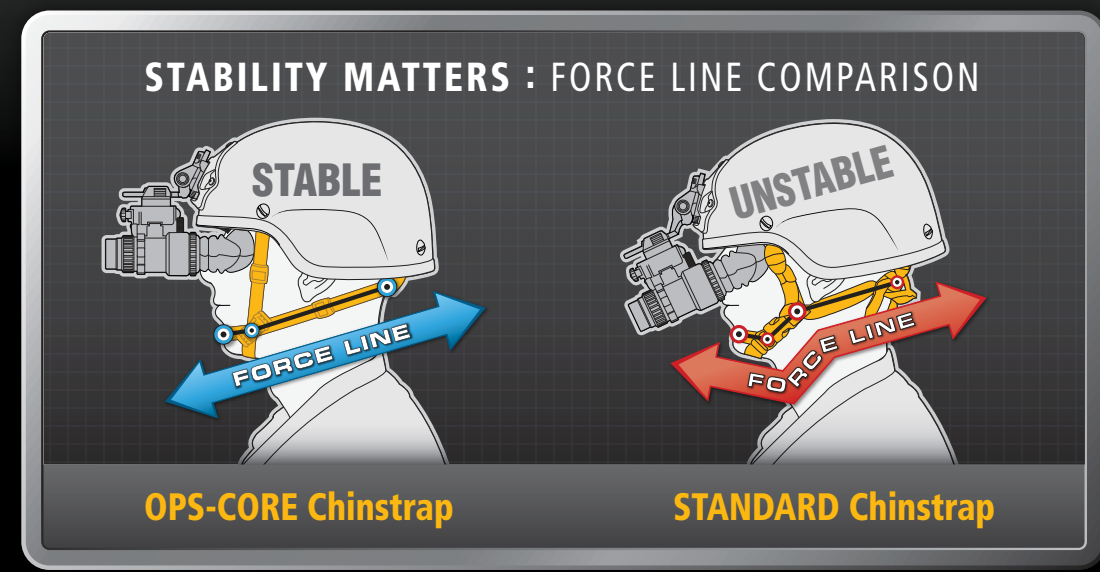
COMFORT = FIT + **STABILITY** + MATERIAL DESIGN

**Head-Loc® Retention Systems**

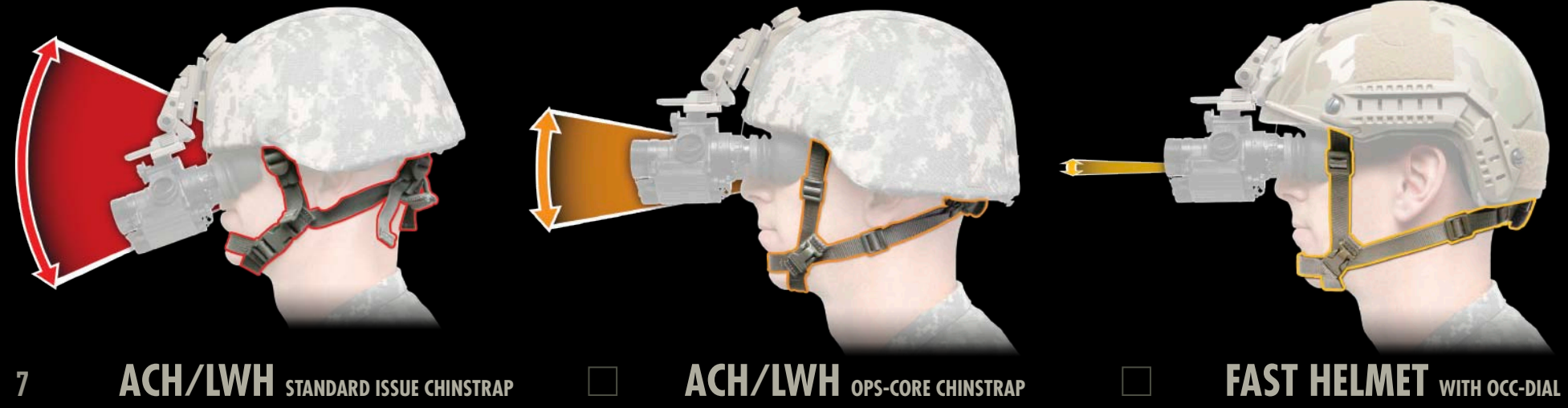
The patented Head-Loc Retention System has a unique strap geometry that creates straight force lines to evenly distribute the helmet load on the head. This design gets rid of any slack in the straps that causes instability and slipping problems in all other conventional chinstraps, which can be detrimental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



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



7 **ACH/LWH STANDARD ISSUE CHINSTRAP**

**ACH/LWH OPS-CORE CHINSTRAP**

**FAST HELMET WITH OCC-DIAL**

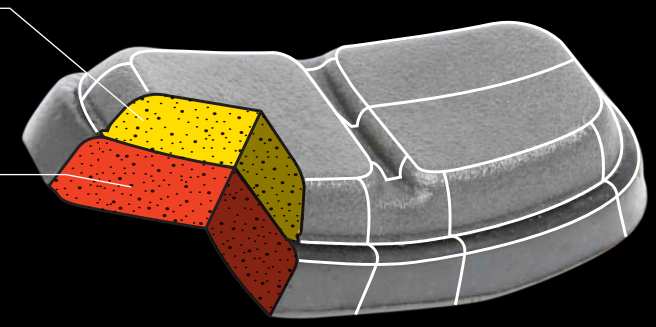
COMFORT = FIT + STABILITY + **MATERIAL DESIGN**

Helmets are worn for extensive periods of time under extreme environmental conditions. 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 2013 products.

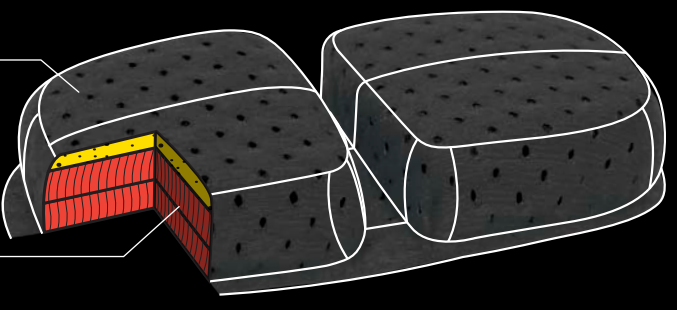
**Impact Pads**

- 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

# HELMETS



# COLORS / CAMOUFLAGE

OPS-CORE HELMETS ARE AVAILABLE IN THE FOLLOWING COLORS\*

Urban Tan



Foliage Green



Black



Desert MARPAT



MultiCam™



Red (Base Jump Only)



\* See helmet pages for color availability.

**P** Premium Color (Subject to additional pricing and lead times when ordering)

# FAST MARITIME

## Features

- FAST Maritime was designed to be the lightest helmet in the world that meets the fragmentation, structural, and environmental performance of the US Army Advanced Combat Helmet with 9mm backface deformation of less than 25.4 mm at 1200 f/s
- The FAST Maritime helmet is made of a hybrid composite ballistic material which yields a shell weight reduction of 42% when compared to the traditional US Army ACH shell and further reduction of 20% when compared to the FAST High Cut XP helmet version
- The helmet ear cut geometry is 16mm higher than the FAST High Cut shell shape, allowing for clearance of larger headset style communications devices
- FAST Maritime helmets have dedicated Side Armor and Mandible components that are specifically matched with the higher ear cut geometry

### SIZING: FAST MARITIME

HELMET SIZE	S/M	M/L	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 8¾
Size Distribution	17.5%	63.8%	18.0%



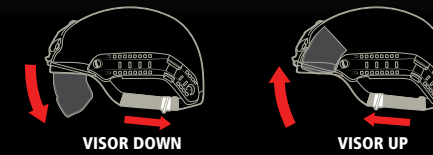
FAST Maritime helmets are available in the following colors:



# LETH LAW ENFORCEMENT TACTICAL HELMET

## Features

- Specifically designed to defeat handgun threats encountered by law enforcement
- Meets NIJ - IIIA 0106.01 ballistic requirements for 9mm and 44 Magnum as well as additional more stringent shell backface deformation (BFD) limits
- Includes internal retractable ballistic visor:

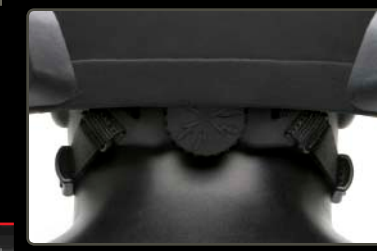


### BALLISTIC VISOR PERFORMANCE

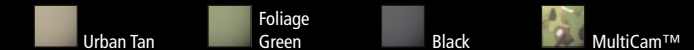
PROJECTILE	Velocity	Requirement V0
¼" Steel Ball	300 fps (91 m/s)	ANSI Z87 +
17 grain T37	560 fps (171 m/s)	MIL-DTL-43511D

### SIZING: LETH

HELMET SIZE	L	XL	XXL
Head Circumference (cm)	53 - 57	57 - 61	61 - 64.5
Head Circumference (in)	20% - 22½	22½ - 24	24 - 25¾
Head Size (US)	up to 7¾	up to 8¾	up to 9¾
Size Distribution	56.9%	39.1%	3.2%



LETH are available in the following colors:



# SENTRY

## Features

- The Sentry offers the same level of protective head coverage as the US Army ACH/ECH with improved interoperability between communication headsets, visors, and accessories for mandible protection. It also provides better hearing localization and attenuation than the ACH with a modified ear area shape, and is compatible with ARC Rail mounted COMMs and hearing protection devices.
- The "XP" version of the shell is built using hybrid composite ballistic materials that weigh a ½ lb less than the ACH while meeting all of the ballistic performance requirements of the US Army's CO/PD-05-04 2007 specification
- The "ST" version of the shell provides the same level of 17 grain / 1.1 FSP protection as well as NIJ-III A 9mm resistance to penetration (RTP) but at a lower price that is more competitive with traditional aramid helmet costs
- The "LE" version is built specifically for defeating handgun threats typically encountered by the law enforcement community by meeting stringent shell backface deformation (BFD) limits that are not required by the NIJ - IIIA 0106.01 standard alone
- The Worm-Dial adjustable fitband with replaceable front, nape, and side pads quickly detaches to allow convenient donning / doffing of COMMs headsets with headbands while being more compact than the Occ-Dial version used in the FAST helmet models

### SIZING: SENTRY

HELMET SIZE	M	L	XL	XXL
Head Circumference (cm)	53 - 57	57 - 59	59 - 61	61 - 64.5
Head Circumference (in)	20 7/8 - 22 1/2	22 1/2 - 23 1/4	23 1/4 - 24	24 - 25 3/8
Head Size (US)	up to 7 1/2	up to 7 3/4	up to 7 7/8	up to 8 1/2
Size Distribution	32.3%	44.4%	20.0%	2.8%



Sentry helmets are available in the following colors:



## MOTO VISOR



- 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



- Provides protection from blast, ballistic threats and blunt trauma
- Front vents exhaust moisture from breathing and prevent the visor from fogging up
- Folds in half for compact storage



Visor and Mandible are available in the following colors:



# FAST BALLISTIC HIGH CUT

## Features

- FAST High Cut models are now available in two hybrid composite ballistic material versions to give our customer choices in weight, performance and price to best suit their specific needs
- The High Cut shell shape provides the equivalent amount of head coverage / size as the MICH 2002 "Gun-Fighter" model
- The FAST helmet fully loaded – including Skeleton shroud, FAST Side Rails (ARCs), bungees, exterior Velcro and fitband liner with integrated chinstrap (as shown here) – weighs less than the same size MICH 2002 without any enhancements
- The lightweight, multi-impact, ventilated liner with repositionable EPP impact pads and LDV closed-cell comfort foam is not affected by temperature, altitude, or moisture
- The Occ-Dial adjustable fitband with replaceable front, nape, and side pads quickly detaches to allow convenient donning and doffing of COMMs headsets with headbands
- The integrated Head-Loc retention system gives the helmet 4x more stability than standard issue ACH helmet suspension and retention products

### SIZING: FAST BALLISTIC HIGH CUT

HELMET SIZE	S/M	M/L	L/XL	XXL
Head Circumference (cm)	53 - 56	56 - 59	59 - 62	62 - 64.5
Head Circumference (in)	20% - 22	22 - 23¼	23¼ - 24¾	24¾ - 25¾
Head Size (US)	up to 7	up to 7¾	up to 7¾	up to 8½
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

## SIDE ARMOR



- Quick and tool-less attachment to the FAST Side Rails (ARCs)
- Low profile design does not interfere with a shooter's stock weld



## GUNSIGHT MANDIBLE



### 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
- The flexible frame allows a close stock weld and results in minimum interference when sighting shoulder fired weapons
- Designed to fold in half to conveniently fit into a rucksack
- The front plate is available in ballistic material for additional protection



# FAST CARBON

## Features

- Lightweight and extremely durable Carbon Fiber shell
- Ideal for recce and water operations, fast roping, and military training
- Designed with the structural integrity to comfortably support binocular style NVGs without the use of counterweights
- Identical components to the FAST Ballistic High Cut version except for the shell
- Vent holes for increased ventilation and water drainage

### SIZING: FAST CARBON

HELMET SIZE	S/M	M/L	L/XL
Head Circumference (cm)	53 - 56	56 - 59	59 - 62
Head Circumference (in)	20 3/4 - 22	22 - 23 1/4	23 1/4 - 24 3/4
Head Size (US)	up to 7	up to 7 3/4	up to 8 1/4
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

Photos courtesy of: Pohl Force®

## Features

- The Base Jump helmet is the same design as FAST Ballistic and Carbon helmets but with a polycarbonate shell and molded front NVG mount
- Used for training operations, search and rescue, and outdoor activities
- Offers all the benefits and unique features of the FAST helmets at a lower cost
- Available in two versions: Military and Sport, with over-the-chin and under-the-chin chinstraps respectively

### SIZING: FAST BASE JUMP

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



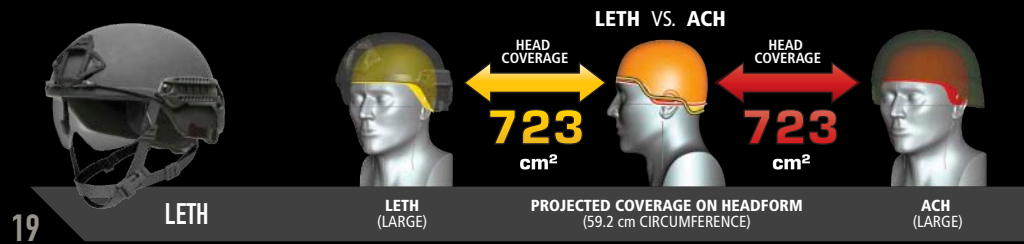
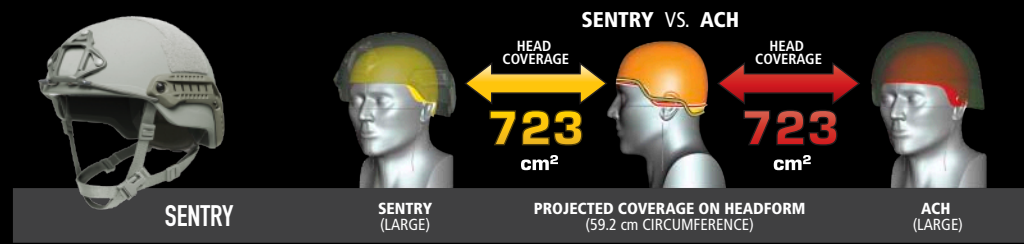
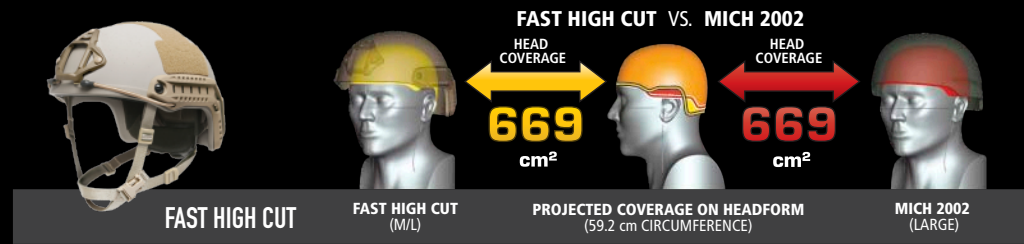
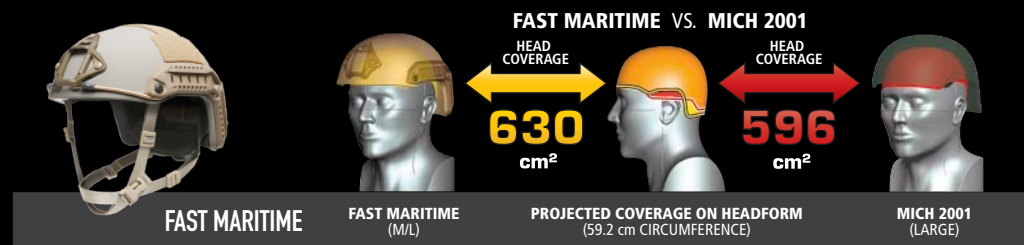
FAST Base Jump helmets are available in the following colors:

- Urban Tan
- Foliage Green
- Black
- MultiCam™
- Desert MARPAT
- Red (Sport Version Only)

# 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.



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>	S/M	M/L	L/XL
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>	S/M	M/L	L/XL
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>	M	L	XL
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)
<b>LETH</b>		L	XL
Head Coverage		112 in² (723 cm²)	119 in² (768 cm²)
Shell Surface Area		193.2 in² (1247 cm²)	205.4 in² (1325 cm²)

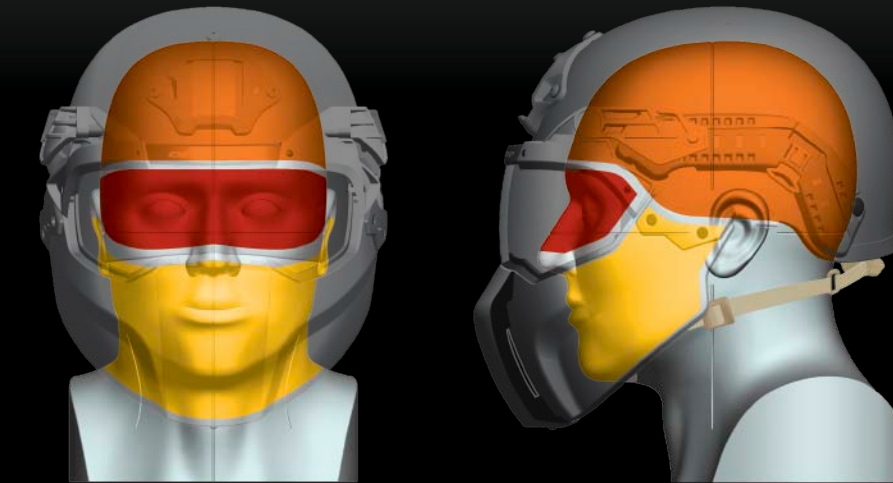
*\*XXL Sizes are not shown*

STANDARD ISSUE	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>MICH 2001</b>	M	L	XL
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>MICH 2002</b>	M	L	XL
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/MICH</b>	M	L	XL
Head Coverage	105.7 in² (682 cm²)	112.1 in² (723 cm²)	121.1 in² (778 cm²)
Shell Surface Area	168.1 in² (1084 cm²)	178.8 in² (1154 cm²)	192.7 in² (1243 cm²)

# SYSTEM LEVEL HEAD COVERAGE

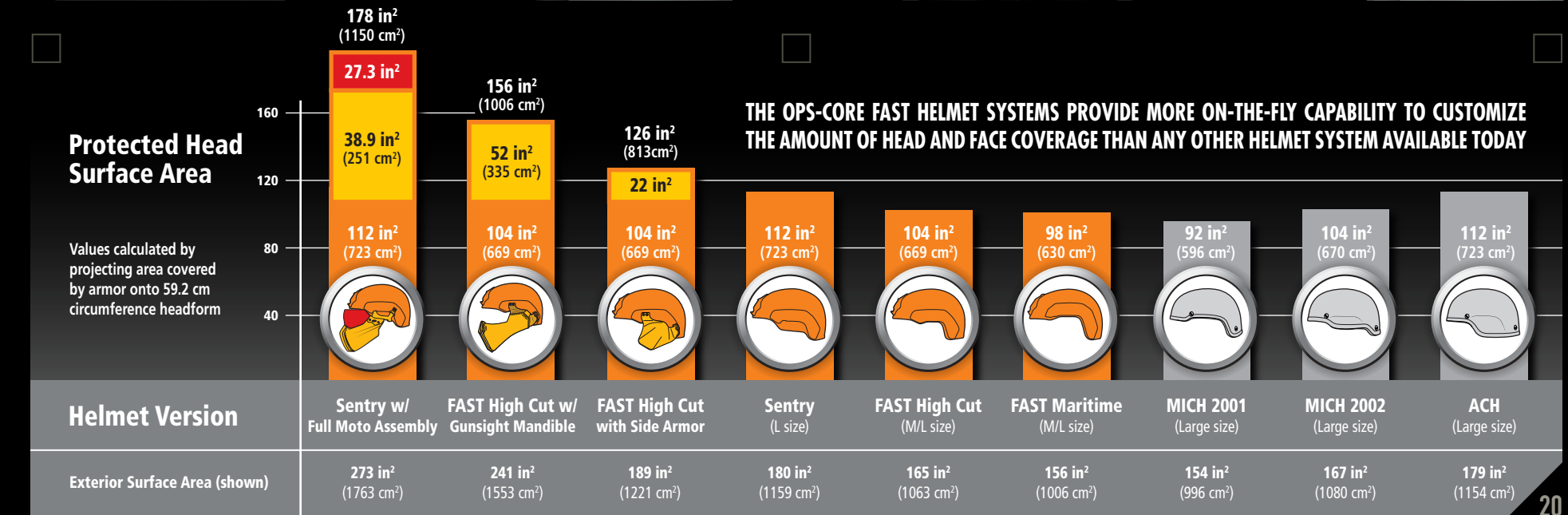
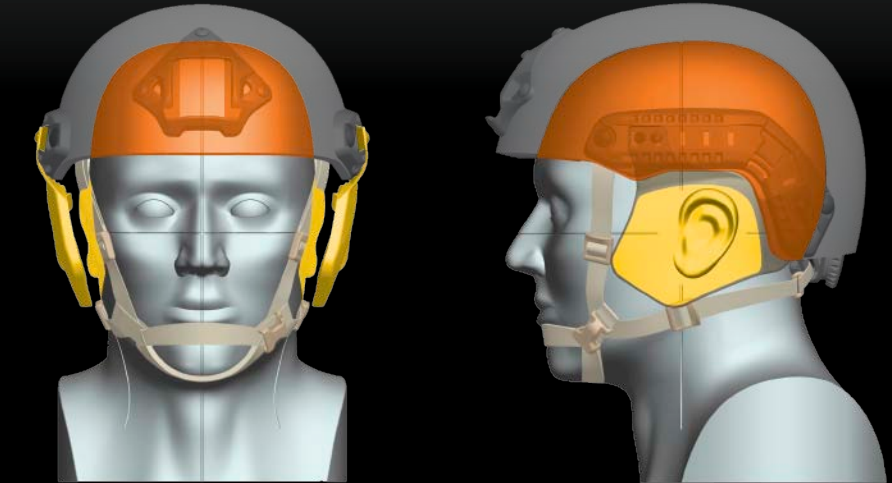
## Maximum Protection

Sentry Helmet equipped with Moto Mandible and Visor



## Side Armor Protection

FAST Ballistic High Cut equipped with Side Armor



# BALLISTIC PERFORMANCE

HELMETS	FAST MARITIME	FAST HIGH CUT (XP)	FAST HIGH CUT (ST)	SENTRY (XP)	SENTRY (ST)	SENTRY (LE)	LETH
Testing performed in accordance with the following specifications:	USSOCOM Maritime Specification CO/PD-2010	US ARMY ACH Specification CO/PD-05-04:2007*	STANAG 2920 Edition (2) 7/31/2003	US ARMY ACH Specification CO/PD-05-04:2007*	STANAG 2920 Edition (2) 7/31/2003	NIJ-III A + BFD 0106.01 + TSWG PS-2008	NIJ-III A + BFD 0106.01 + TSWG PS-2008
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)	2200 f/s (670 m/s)	2200 f/s (670 m/s)	2200 f/s (670 m/s)	2200 f/s (670 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)	1200 f/s (366 m/s)	1400 f/s (427 m/s) *BFD < 1.0" (25.4mm)	1200 f/s (366 m/s)	1400 f/s (427 m/s) BFD < 1.0" (25.4mm)	1400 f/s (427 m/s) BFD < 1.0" (25.4mm)
44 Mag. SJHP	---	---	---	---	---	1400 f/s (427 m/s)	1400 f/s (427 m/s)

PROTECTIVE ACCESSORIES	FAST SIDE ARMOR	GUNSIGHT MANDIBLE	MOTO MANDIBLE	6mm MOTO VISOR
Testing performed in accordance with the following specifications:	US ARMY Portions of ACH CO/PD-05-04:2007	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
2 grain (V50)	4200 f/s (1280 m/s)	3100 f/s (945 m/s)	4200 f/s (1280 m/s)	---
4 grain (V50)	3475 f/s (1059 m/s)	2550 f/s (777 m/s)	3475 f/s (1059 m/s)	---
16 grain (V50)	2475 f/s (754 m/s)	2250 f/s (686 m/s)	2475 f/s (754 m/s)	---
64 grain (V50)	---	---	---	---
17 gr / 1.1 FSP (V50)	2200 f/s (670 m/s)	2200 f/s (670 m/s)	2200 f/s (670 m/s)	1050 f/s (320 m/s)
9mm FMJ RN (V0 at 0° Obliquity)	1200 f/s (366 m/s)	1200 f/s (366 m/s)	1200 f/s (366 m/s)	---

## PROJECTILE KEY

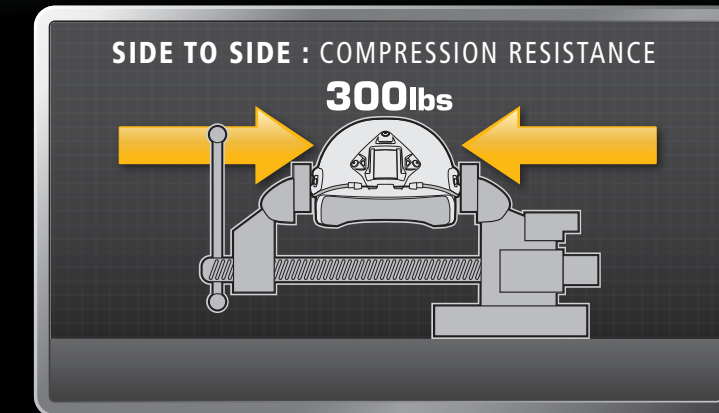
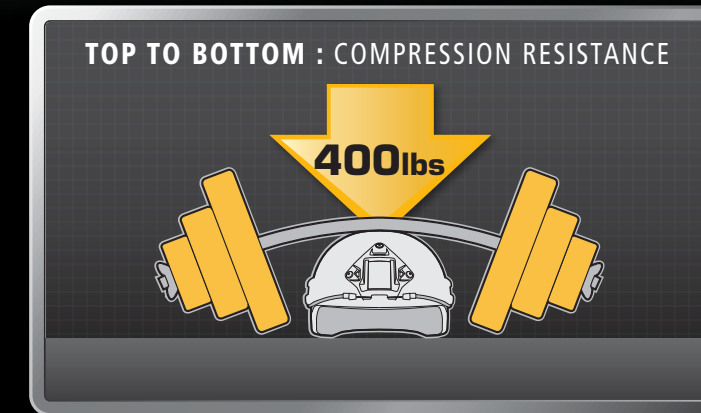
Standard US Army ACH Ballistic Performance, NIJ-III A, STAGNAG 2920

2 grain (RCC)	—
4 grain (RCC)	—
16 grain (RCC)	—
64 grain (RCC)	—
17 gr / 1.1 FSP (FSP)	—
9mm FMJ RN (124 grain)	—
44 Mag. SJHP (240 grain)	—

# ENVIRONMENTAL TESTING

## Compression Resistance

FAST BALLISTIC HELMET SHELL IS JUST AS STRONG AND DURABLE AS A TRADITIONAL ACH ARAMID SHELL, WHILE BEING TWO THIRDS OF ITS WEIGHT.

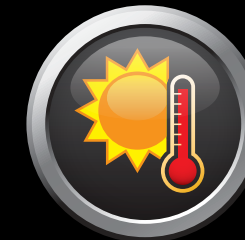


## Environmental Testing

ALL PROJECTILE AND FRAGMENTATION TESTS ARE CONDUCTED AFTER BEING 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



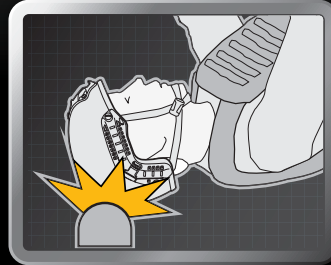
**CORROSION RESISTANCE:**  
DEET, Gasoline, Motor Oil, Hydraulic Fluid, Aviation JP-8 Fuel, Rifle Cleaning Compound, Lubrication Oil, Face Paint



**FLAME RESISTANCE:**  
Helmet shell is self-extinguishing according to FED-STD-191 Method 5905.1

# BLUNT IMPACT PROTECTION

## TESTING STANDARD



**U.S. ARMY**

ACH Specification  
CO/PD-05-04:2007

## TEST PERFORMANCE / RESULTS

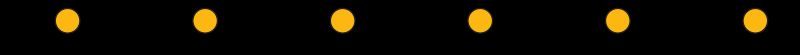
### Test Details

**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

### HELMETS



**Requirement**  
<150 Gs



### GUNSIGHT MANDIBLE



Impact Location	Results	Requirement < 150 Gs
Side	95 Gs	●
Front	<b>15 Gs</b>	●

# WEIGHT SUMMARY

## FAST HIGH CUT

	S/M 53 - 56 cm	M/L 56 - 59 cm	L/XL 59 - 62 cm	XXL 62 - 64.5 cm
Shell Only	1.83 lbs (829 g)	1.97 lbs (893 g)	2.14 lbs (967 g)	2.21 lbs (1004 g)
Complete	2.60 lbs (1180 g)	2.73 lbs (1240 g)	2.96 lbs (1341 g)	2.99 lbs (1354 g)

	S/M 53 - 56 cm	M/L 56 - 59 cm	L/XL 59 - 62 cm	XXL 62 - 64.5 cm
Shell Only	1.83 lbs (829 g)	1.97 lbs (893 g)	2.14 lbs (967 g)	2.21 lbs (1004 g)
Complete	2.60 lbs (1180 g)	2.73 lbs (1240 g)	2.96 lbs (1341 g)	2.99 lbs (1354 g)

## FAST MARITIME

	S/M 53 - 56 cm	M/L 56 - 59 cm	L/XL 59 - 62 cm
Shell Only	1.54 lbs (698 g)	1.58 lbs (715 g)	1.75 lbs (794 g)
Complete	2.42 lbs (1098 g)	2.47 lbs (1118 g)	2.60 lbs (1181 g)

## LETH

	L 53 - 57 cm	XL 57 - 61 cm	XXL 61 - 64.5 cm
Shell Only	2.66 lbs (1200 g)	2.82 lbs (1280 g)	3.02 lbs (1370 g)
Complete	3.88 lbs (1761 g)	4.08 lbs (1851 g)	4.28 lbs (1941 g)

## FAST CARBON

	S/M 53 - 56 cm	M/L 56 - 59 cm	L/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

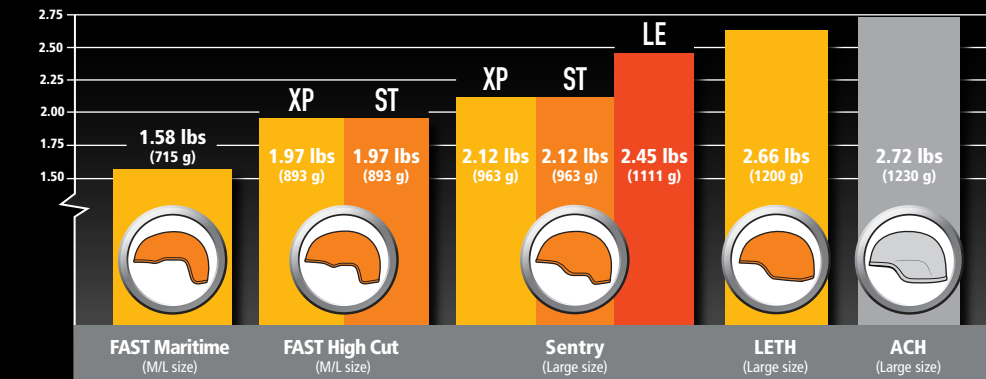
	M 53 - 57 cm	L 57 - 59 cm	XL 59 - 61 cm	XXL 61 - 64.5 cm
Shell Only	2.00 lbs (906 g)	2.12 lbs (963 g)	2.25 lbs (1022 g)	2.38 lbs (1082 g)
Complete	2.83 lbs (1285 g)	3.00 lbs (1363 g)	3.12 lbs (1415 g)	3.27 lbs (1485 g)

	M 53 - 57 cm	L 57 - 59 cm	XL 59 - 61 cm	XXL 61 - 64.5 cm
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)

## US ARMY ACH

	M 54 - 57 cm	L 57 - 59 cm	XL 59 - 61 cm	XXL 61 - 66 cm
Shell Only	2.54 lbs (1150g)	2.72 lbs (1230g)	2.92 lbs (1320g)	3.37 lbs (1527g)
Complete	2.92 lbs (1312g)	3.07 lbs (1392g)	3.31 lbs (1498g)	3.76 lbs (1705g)

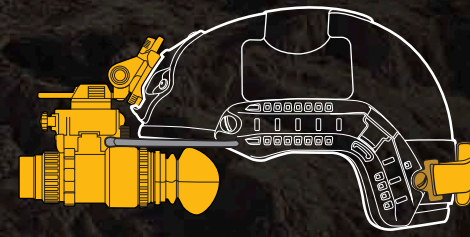
## BALLISTIC HELMET SHELL WEIGHT COMPARISON



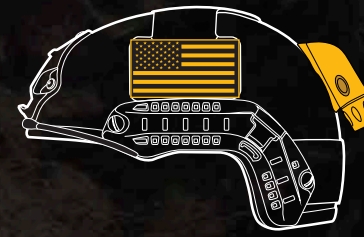
"Complete" Ops-Core helmet weights include: helmet shell, rails, impact pads and retention system

"Complete" US ARMY ACH weights include: helmet shell, impact pads, hardware and chinstrap

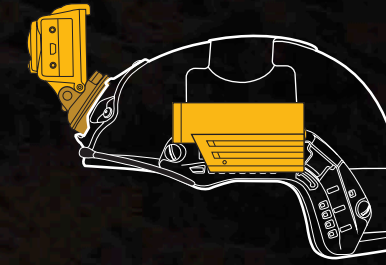
# EXTERIOR MOUNTING SYSTEM



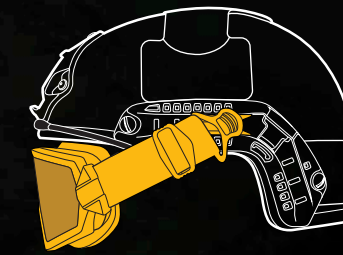
NIGHT VISION DEVICES



IFF DEVICES



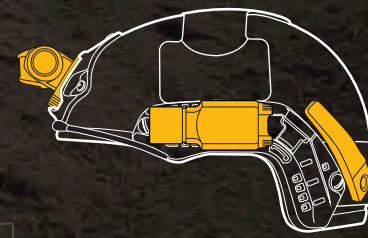
VIDEO CAMERAS



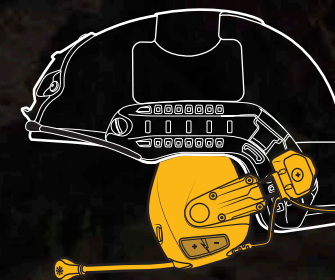
GOGGLES



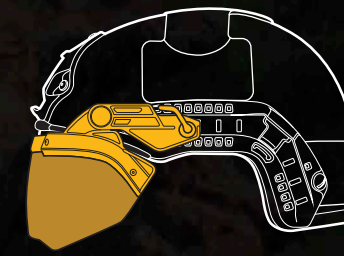
O2 MASKS



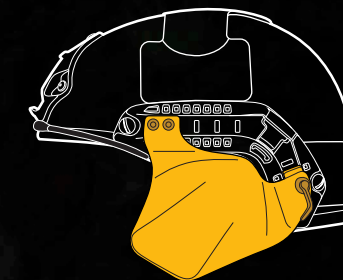
ILLUMINATORS



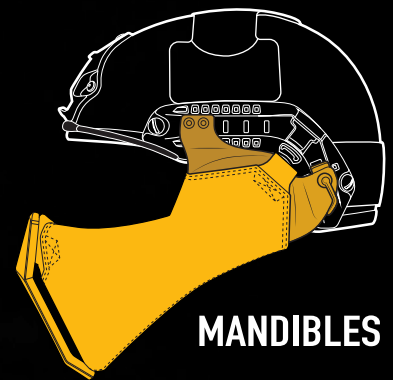
COMMs HEADSETS



BALLISTIC VISORS



SIDE ARMOR



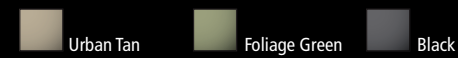
MANDIBLES

# 02 MASK STRAPS



## Features

- Fits Para-Flite PHAOS and Carleton Phantom O2 Masks
- Simple snag-free design that allows the system to quickly snap in and out of the Side Rails (ARCs)
- Snap Dragon bayonet buckle on one side of the system for quick release
- Head-Loc sliders allow for quick tightening and loosening of the mask
- Available in the following colors:



## ACH O2 SINGLE STRAP KIT



## SENTRY O2 SINGLE STRAP KIT



## FAST O2 SINGLE STRAP KIT



# RAC HEADSET

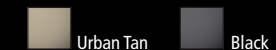


## Features

- Attaches to the rear portion of the Side Rails (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. The earcups are not visible from front view when stowed.
- Restores "natural hearing" with the outside environment for improved situational awareness while at the same time providing a NRR of 28dB for hearing protection.
- Single-point gimbal attachment allows for 360° of adjustment instead of conventional adjustment systems – it auto positions to each individual's ear / head shape.
- Ear cushion is contoured to match the geometry of the head – thus providing a better seal and proper attenuation.



RAC Headsets are available in the following colors:



# SLAAP PLATE



## Features

- The SLAAP Plate by Velocity Systems® is an add-on ballistic plate that attaches to the front of the helmet and can withstand impact from 7.62 x 39 caliber round with less than 1" of backface deformation
- Available in two sizes: Large (1.0 lbs) and Small (.85 lbs)
- Quick to mount at approach of imminent enemy contact, and easy to remove when the risk has passed
- Uses durable materials to withstand storage in an operational kit without concern of damage
- Specifically designed to fit the range of Ops-Core helmet geometries

## SLAAP Ballistic Performance

Projectile (at 0° Obliquity)	Velocity	BFD Requirement
7.62 x 39 FMJ With MSC Penetrator	2400 fps (732 m/s)	< 25.4mm



SLAAP Plates are available in the following colors:



# COUNTERWEIGHT

Photo courtesy of:  
Pohl Force®

## Features

- Customizable weight management system with (5) 70g removable weights and (5) elastic pockets
  - Total weight of the 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
  - Features a Chemlight window and Velcro patch for Glint tape for use with low light IFF
- Colors: Black and MultiCam are subject to minimum order quantities



Counterweight is available in the following colors:



# HELMET COVERS

## Features

### 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



### FIRSTSPEAR™ HELMET COVER

- A stretch fit ensures 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



Ops-Core Helmet Covers are available in:  MultiCam™



Detachable Rear Pouch  
Mesh Cover only


# SKULL CRUSHER

Photo courtesy of Kevin High Photography

## Features

- Provides a stable platform for attaching helmet accessories when a protective mounting platform is not needed
- Lightweight and breathable system 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 VAS Shroud or ARC Rail
- Wire and cable management system to route external wires and cables in a streamlined configuration

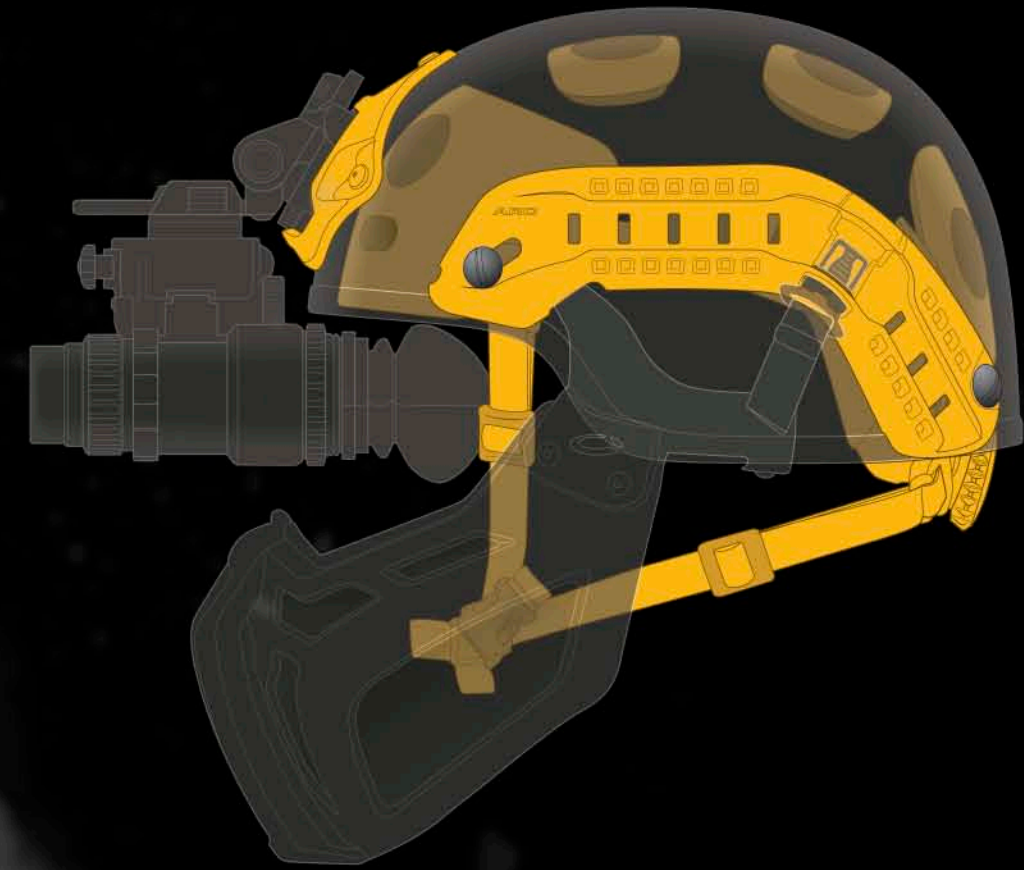


Available in:  Black



NVG Counterweight Kit  
(Sold Separately)

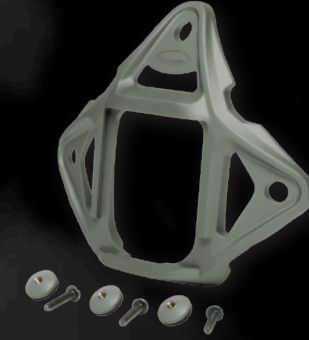
# ACH UPGRADES



OCC-DIAL LINER KIT



SKELETON SHROUD



ACH-ARC (ACCESSORY RAIL CONNECTOR)



HEAD-LOC® CHINSTRAPS



# HEAD-LOC® RETENTION SYSTEMS

## H-Nape Chinstrap

**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 H-Nape Chinstrap is intended for operators conducting rigorous activities while wearing heavier NVGs like PVS-15 or 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.

### Features (H-Nape and X-Nape)

#### EASE OF USE

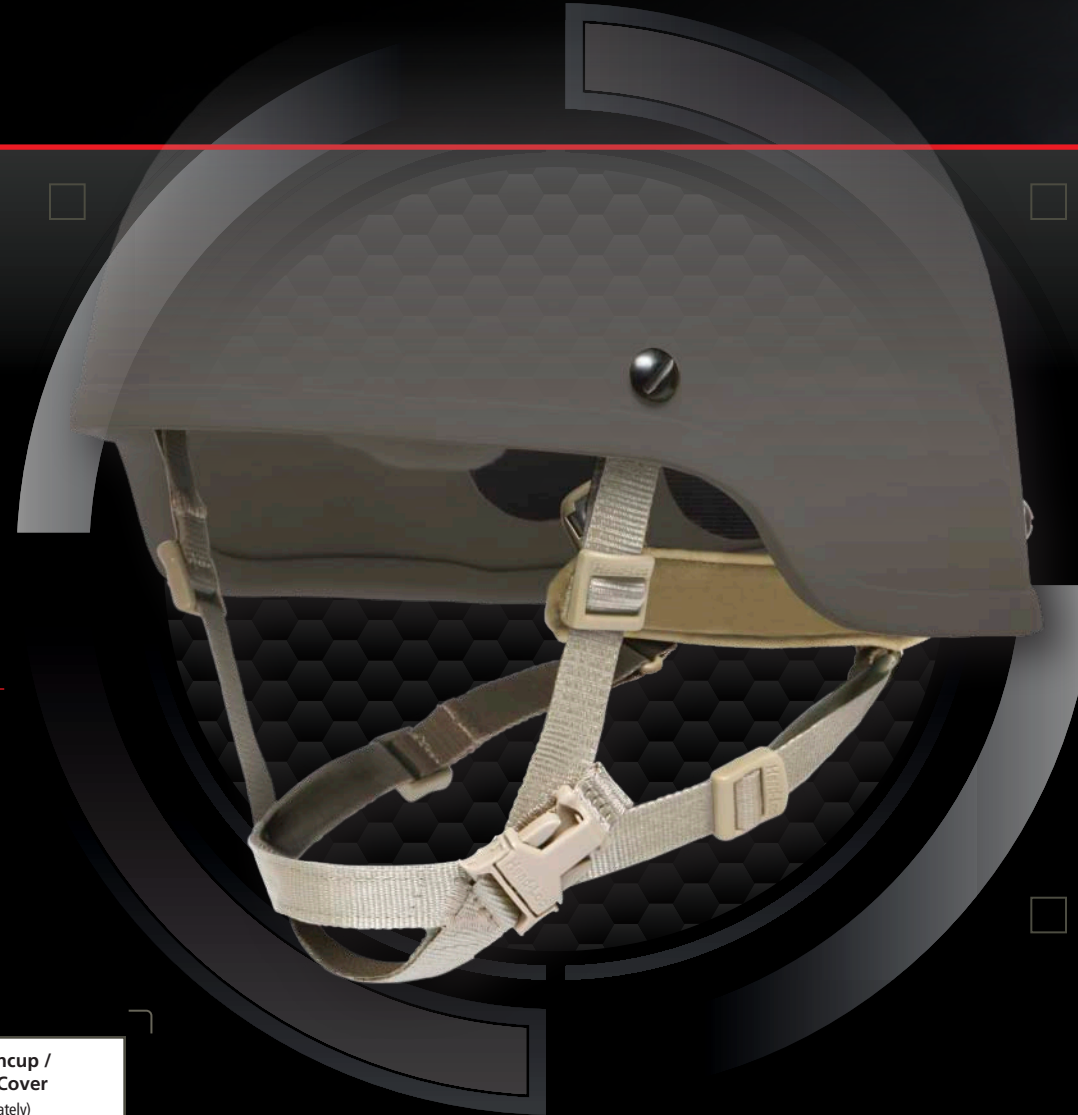
- Patented Head-Loc tabs provide instant one-handed chinstrap adjustment while wearing the helmet

#### SIMPLIFIED STRAP GEOMETRY

- Straight force lines and unique design eliminate loose ends

#### COMFORT

- 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 & Extenders are available in:

- Urban Tan
- Foliage Green
- Black

- Airborne Certified for USSOCOM -

## X-Nape Chinstrap

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

The 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 the 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.

### HEAD-LOC CHINSTRAP & HELMET COMPATIBILITY

Both the X and H versions of the Head-Loc Chinstrap are compatible with the following styles of combat helmets.

HELMET	ACH HEAD-LOC CHINSTRAP SYSTEM	LWH HEAD-LOC CHINSTRAP SYSTEM
ACH	—	—
MICH (2000, 2001, 2002)	—	—
CGF GALLET (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."

Featuring:  
**Head-Loc®**



# OCC-DIAL LINER KIT

Photo courtesy of: U.S. Department of Defense Photo by: Cpl. Tyler Main

## Features

- 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
- Occ-Dial adjustable fitband allows quick tightening and loosening of the system and provides 4x more stability than standard retention/suspension systems
- Liner designed to work with COMMs headband headsets; headset slides under the fitband and gets positioned between two top pads, eliminating pressure points on the head caused by traditional pad systems
- Integrated chinstrap features Head-Loc sliders for quick adjustment
- Fits ACH / MICH 2000 helmets and ACH / MICH 2002 Gunfighter Cut helmets

*\* Does not fit MICH 2001, RBR, Protech, or any other style helmet that does not use the ACH chinstrap mounting hole pattern*



## IMPACT PROTECTION

CE EN 1385 and ASTM F1492  
US Army - ACH Specification: Chinstrap Retention & Non-ballistic Impact Protection

\* Less than < 150 Gs of force imparted to head with multiple impacts up to 10 fps  
\* Less than < 200 Gs of force imparted to head with multiple impacts up to 14 fps

SIZING	M	L	XL
Head Circumference (cm)	53 - 56	56 - 59	59 - 62
Head Circumference (in)	20 7/8 - 22	22 - 23 1/4	23 1/4 - 24 3/8
Head Size (US)	up to 7	up to 7 3/4	up to 8 1/4

WEIGHT	M	L	XL
As shown in photos: Includes ballistic mount hardware for chinstrap	.47 lbs (212 g)	.48 lbs (218 g)	.49 lbs (224 g)

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



# NVG SHROUDS

## 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 without rattle
- 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



## Skeleton & VAS Shroud Compatibility

### 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® L4 G29M #28300G29M	Wilcox® L4 G01 #56500G01	Wilcox® L4 G02 #56500G02	Norotos® INVG #1820010	Norotos® AKA2 #1840010



# ACH-ARC

ACCESSORY RAIL CONNECTORS

## Features

- Quickly becoming the standard for the industry, the ARC Kit is a helmet mounting platform that allows the operator to customize the helmet for specific use with various accessories
- Multiple mounting locations on the upper and lower dovetails to support lights, cameras, goggles, etc.
- Corner of the rail designed for compatibility with O2 Single Strap Kit
- Snag-free for HALO, HAHO and static line operations
- Mounts using existing chinstrap holes in the helmet
- Kit includes two ACH-ARC Rails and the following adapters and mounting hardware:

\*Bungees Optional



ACH-ARC Rails are available in the following colors:  Urban Tan  Foliage Green  Black



# RAIL ADAPTERS

FOR ACH/FAST ARC



## PICATINNY ADAPTER



Streamlight TLR-1 Insight M3

## CONTOUR HD™ ADAPTER



VholdR Contour HD

## X300 ADAPTER



Surefire X300

## 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



# ACCESSORIES



## NVG MOUNTS



www.wilcoxind.com

- Refer to VAS Shroud chart for NVG compatibility

### L4-G20

- 198 grams with hardware



### L4-G24

- 210 grams with hardware



## HEADSETS



www.peltor.com

- Features external microphones for "talk-thru" capability so the users can maintain situational awareness while still protecting their hearing

## COMTAC HEADSET



## MICROPHONE



www.silynxcom.com

- Boom Mic easily removed automatically allowing continuous operation of headset via in ear mic
- Optimized for operations in high noise air and maritime platforms

## BOOM MIC



## IFF STROBE



www.sandsprecision.com

- Infrared and visible light switching
- Weights 58 grams

## MANTA STROBE



## TACTICAL LIGHT



www.inforce-mil.com

- Integrated mounting system is compact, convenient
- Constant and Momentary Constant High and Low High and Low plus Strobe

## INFORCE LIGHT



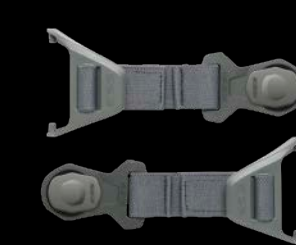
## RAIL ADAPTER KIT



www.esseyepro.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



## SPORT VIDEO CAMERAS

### CONTOUR

www.contour.com

- Smallest and lightest hands free video camera in the world (122 grams)
- Captures beautiful 1080p video
- 135° wide-angle lens

### CONTOUR HD™



### GoPro

www.goprocamera.com

- 1080p / 960p / 720p HD resolutions record at 30 and 60 frames per second (60 f/s in 720p)
- Waterproof quick-release housing (180' / 60 m)

### HD HERO™



## ILLUMINATION



www.princetontec.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

### REMIX™



### CHARGE™



### MPLS™



OPS-CORE, INC.

MARINE INDUSTRIAL PARK

12 CHANNEL STREET

BOSTON, MA 02210

WWW.OPS-CORE.COM

