



# FAST<sup>®</sup> Carbon Aircrew



The FAST Carbon Aircrew helmet system is the USAF approved Alternative Night Vision Goggle Mounting Solution for use with Night Vision Goggles (NVGs) and CBRN equipment. It is the ultimate non-ballistic solution for low-threat environments. With a shell weight of just .726 lbs., it provides enhanced impact protection from blunt-force trauma. Its rigid, non-flexing platform is engineered to be fully kitted for both day and night operations, accommodating NVGs and all Ops-Core<sup>®</sup> accessories. The FAST Carbon Aircrew helmet is ideal for Aircrew and Load Masters. Aircrew interested in adding ballistic protection for off-airframe missions can do so with the addition of an Ops-Core FAST Low-Profile Ballistic Applique, sold separately.

- **Lightweight, breathable, stable head mounted platform**
- **Integrate existing NVGs, mounts and battery pack**
- **Improved Center of Gravity when using NVGs and rear mounted battery pack**
- **Bump protection with same side fastening as HGU-55/P**
- **Integrates with legacy communications headsets**
- **Compatible with rail mounted headsets, lights, and accessories**
- **Permanent safe-to-fly applicable aircraft**  
C-17, C-5, AC-130, C-130 Series, KC-46, KC-135, C-145, C-146
- **Applicable to all Aircrew positions and functions**
- **Low-burden design, improved integration, modularity, scalability and compatibility**

## SPECIFICATIONS

**Performance Specification\*\*:** Modified and Abbreviated Family of Tactical Headborne System, dated June 30th 2017 Ops-Core FAST SF Non-Ballistic Performance Spec PS-1144

\*\*Not all suspension/retention options are tested to full stated standards.

**Blunt Impact Protection:** 150 g's maximum at 10 ft/s. Maximum allowable dent 0.023

**Compression Testing:** Top-Bottom = .020" (0.51 mm) Max @ 400 lbs. (181.44 kg), Side-Side = .125" (3.18 mm) Max @ 300 lbs. (136.08 kg)lbs.

**Environmental Resistance:** Storage / Operating at Ambient, Cold, -60° F (-51° C), Hot +160° F (71° C), Seawater, Weatherometer, Field Agent Resistance, Temperature Shock, Altitude

**Available Sizes:** Medium (M), Large (L), X-Large (XL), XX-Large (XXL)

**Available Colors:**  Tan 499  Urban Gray

### SIZE/COVERAGE/SHELL WEIGHT

Helmet Size	Medium	Large	X-Large	XX-Large
Head Size (Circumference)	20 7/8 - 22 in (53-56 cm)	22 - 23 1/4 in (56-59 cm)	23 1/4 - 24 3/8 in (59-62 cm)	24 3/8 - 25 1/2 in (62-64 cm)
Square Coverage	132in <sup>2</sup> (852 cm <sup>2</sup> )	143 in <sup>2</sup> (923 cm <sup>2</sup> )	157 in <sup>2</sup> (1013 cm <sup>2</sup> )	165 in <sup>2</sup> (1065 cm <sup>2</sup> )
Shell Weight	0.686 lbs (311 g)	0.736 lbs (334 g)	0.756 lbs (343 g)	0.957 lbs (434 g)

### SYSTEM WEIGHT

	Retention System	Size Large
<b>FAST Carbon Aircrew System Weight</b> (FAST Carbon Aircrew Shell with Suspension/Retention)	<b>Vented Lux Liner w/ Occ-Dial<sup>®</sup> Universal Fitband</b>	1.53 lbs (692 g)

Note: All measurements are +/- 3% tolerance



# FAST Carbon Aircrew

## PART NUMBERS

NSN	Part Number	Description
8475-01-703-1164	A15367-01G1701	FAST Carbon Aircrew, Tan 499, Size MEDIUM - Vented Lux Liner w/ Occ-Dial Adjustment, Head-Loc Chinstrap (LED), Modular Bungee Shroud, PowerPath ARC Rails
8475-01-703-1169	A15367-02G1801	FAST Carbon Aircrew, Tan 499, Size LARGE - Vented Lux Liner w/ Occ-Dial Adjustment, Head-Loc Chinstrap (LED), Modular Bungee Shroud, PowerPath ARC Rails
8475-01-703-1171	A15367-03G1901	FAST Carbon Aircrew, Tan 499, Size X-LARGE - Vented Lux Liner w/ Occ-Dial Adjustment, Head-Loc Chinstrap (LED), Modular Bungee Shroud, PowerPath ARC Rails
8475-01-703-1174	A15367-04G2001	FAST Carbon Aircrew, Tan 499, Size XX-LARGE - Vented Lux Liner w/ Occ-Dial Adjustment, Head-Loc Chinstrap (LED), Modular Bungee Shroud, PowerPath ARC Rails
8415-01-565-0166	19-99-101	Chinstrap Extender, Urban Tan
8415-01-633-9621	19-99-103	Chinstrap Extender, Black

## MODULAR SYSTEM UPGRADES

Improve the capabilities of the FAST Carbon Aircrew Helmet by integrating one or more of the following:

*Consult your airworthiness authority before flying with the following options.*

### Ops-Core Low Profile Ballistic Applique (LPBA)

- Provides light weight scalable ballistic protection from 9mm and frag threats
- Quick, repeatable tool-less donning and doffing by attaching to top section of PowerPath™ ARC™ Rails
- Top and rear sections can be worn together or separately for increased configurability



Low Profile Ballistic Applique

### Ops-Core FAST Mandibles

- Available as FAST Carbon Composite for blunt impact and elemental protection
- Available as FAST Ballistic for increased bump and ballistic protection
- Mandible arms quickly attach to the lower side or the PowerPath Rails
- Uninterrupted Field of View



FAST Mandibles

### Ops-Core STEP-IN® Visor

- Provides eye protection
- Compatible with NVGs
- Removable rubber debris gaskets
- Multiple lens options: Clear, Tinted, High Contrast, Dazzle



STEP-IN Visor

### Ops-Core AMP® Communication Headset, Rail Mount Kit and Downloads

- Connectorized communication headset configured with headband
- Rail mount attachment to configure AMP to be mounted to rail of FAST
- Downloads to interface to PTTs and ICS; Airframe ICS download to match 5 ohm impedance ICS
- Hear-through capability to increase situational awareness



AMP Headset, Rail Mount Kit & Downloads

## Contact Us

For more information on the FAST Carbon Aircrew Helmet System contact Gentex directly at 888.894.1755 or sales@gentexcorp.com. These products are controlled for export by the U.S. Export Administration Regulations (EAR) 15 CFR 730-744. The export of these items and related technical information requires prior authorization from the U.S. government. These products are covered by one or more patents. For more information visit [www.gentexcorp.com/patents](http://www.gentexcorp.com/patents).