



# FAST<sup>®</sup> Carbon Aircrew HGU-100A/P



The Fast Carbon Aircrew helmet system (HGU-100A/P) 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 3/8 - 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 1/8 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)
Helmet Designation	HGU-100A/P	HGU-100A/P	HGU-100A/P	HGU-100A/P

### 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></b> <b>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



### 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



### Ops-Core STEP-IN® Visor

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

### 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



## 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).