



# AIRCREW OPERATIONS SYSTEMS

Presented by

**GENTEX**  
CORPORATION

Gentex Aircrew Operations Systems provide an alternative method of helmet systems in lieu of the HGU-55/P and HGU-56/P. There are two options to provide the alternative capabilities in mounting, respiratory and optics; the Ops-Core® Skull Mount System (SMS) Aircrew (HGU-100/P) and Ops-Core Aircrew FAST® System (HGU-100A/P). These systems allow for integration with current AN/AVS-9 NVGs using the Aeronox Mount and interface adapter to the FAST and SMS Modular Bungee Shroud (MBS). These systems allow for better integration of NVGs with the M69 CBRN mask, mitigating risk of leaks, as well as reducing physiologic burdens of hot spots when wearing NVGs.



Aircrew FAST  
System (LED)



Aircrew  
Skull Mount  
System (LED)



Chinstrap Extender



## KEY FEATURES

- **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**  
Pilots, Co-Pilot, Navigator, Flight Engineer, Load Masters, Additional Back Crew, Special Mission Aviator(Live Fire), Systems Operators, Weapons Systems Operators, Linguist, Combat Systems Officer.
- **Low-Burden Design, Improved Integration, Modularity, Scalability and Compatibility**  
Easy-to-use simplistic modular systems allow for individual tailoring and specific mission configurations. Quick connect/disconnect NVG adapter mounts into MBS simplifies NVG installation and enables use of current NVGs with the Aeronox adapter and mount.

## Aircrew FAST System (HGU-100A/P)

- **Lightweight, breathable, stable head mounted platform**
- **Integrate existing NVGs, mounts and battery pack**  
Quick connect/disconnect NVG adapter mounts into Modular Bungee Shroud simplifies installation. MBS has integrated carabiner clips to improve NVG attachment and stability.
- **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**

## Aircrew Skull Mount System (HGU-100/P)

- **Lightweight, breathable, stable head mounted platform**
- **One size fits most, simplifies logistics with only one size to stock**
- **Improved center of gravity when using NVGs and rear mounted battery pack**
- **Low cost of ownership**
- **Integrates with legacy communications headsets**
- **Compatible with rail mounted headsets, lights and accessories**

| NSN              | Part Number    | Description  |
|------------------|----------------|--|
| 8475-01-703-1164 | A15367-01G1701 | FAST Carbon Aircrew HGU-100A/P, 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 HGU-100A/P, 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 HGU-100A/P, 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 HGU-100A/P, Tan 499, Size XX-LARGE - Vented Lux Liner w/ Occ-Dial Adjustment, Head-Loc Chinstrap (LED), Modular Bungee Shroud, PowerPath ARC Rails |
| 8475-01-707-4502 | A15366-4B3     | Skull Mounting System Aircrew HGU-100/P (LED), One Size, Black   |
| 8415-01-565-0166 | 19-99-101      | Chinstrap Extender, Urban Tan  |
| 8415-01-633-9621 | 19-99-103      | Chinstrap Extender, Black  |

Note: The Aircrew Operations Systems for Aircrew FAST System and Aircrew Skull Mount System with integrated MBS require use of a new NVG mount and interface shoe. USAF recommends the Wilcox® AERONOX® NVG Mount and NVG Quick-Disconnect Ground Adapter. An AERONOX rear mount battery pack is also available from Wilcox.



## AIRCREW OPERATIONS SYSTEMS

### MODULAR SYSTEM UPGRADES

**Improve the capabilities of the Aircrew FAST System (HGU-100A/P) by integrating one or more of the following:**

*Consult your airworthiness authority before flying 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 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 of 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



**Improve the capabilities of the Aircrew Skull Mount System (HGU-100/P) by integrating one or more of the following:**

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

#### 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 top rail of SMS
- 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 Aircrew Operations Systems contact Gentex directly at 888.894.1755 or [sales@gentexcorp.com](mailto:sales@gentexcorp.com). The STEP-IN Visor is controlled for export by the U.S. Export Administration Regulations (EAR) 15 CFR 730-774. The FAST Carbon Composite Mandible and FAST Ballistic Mandible are controlled for export by the U.S. Export Administration Regulations (EAR) 15 CFR 730-777. 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).